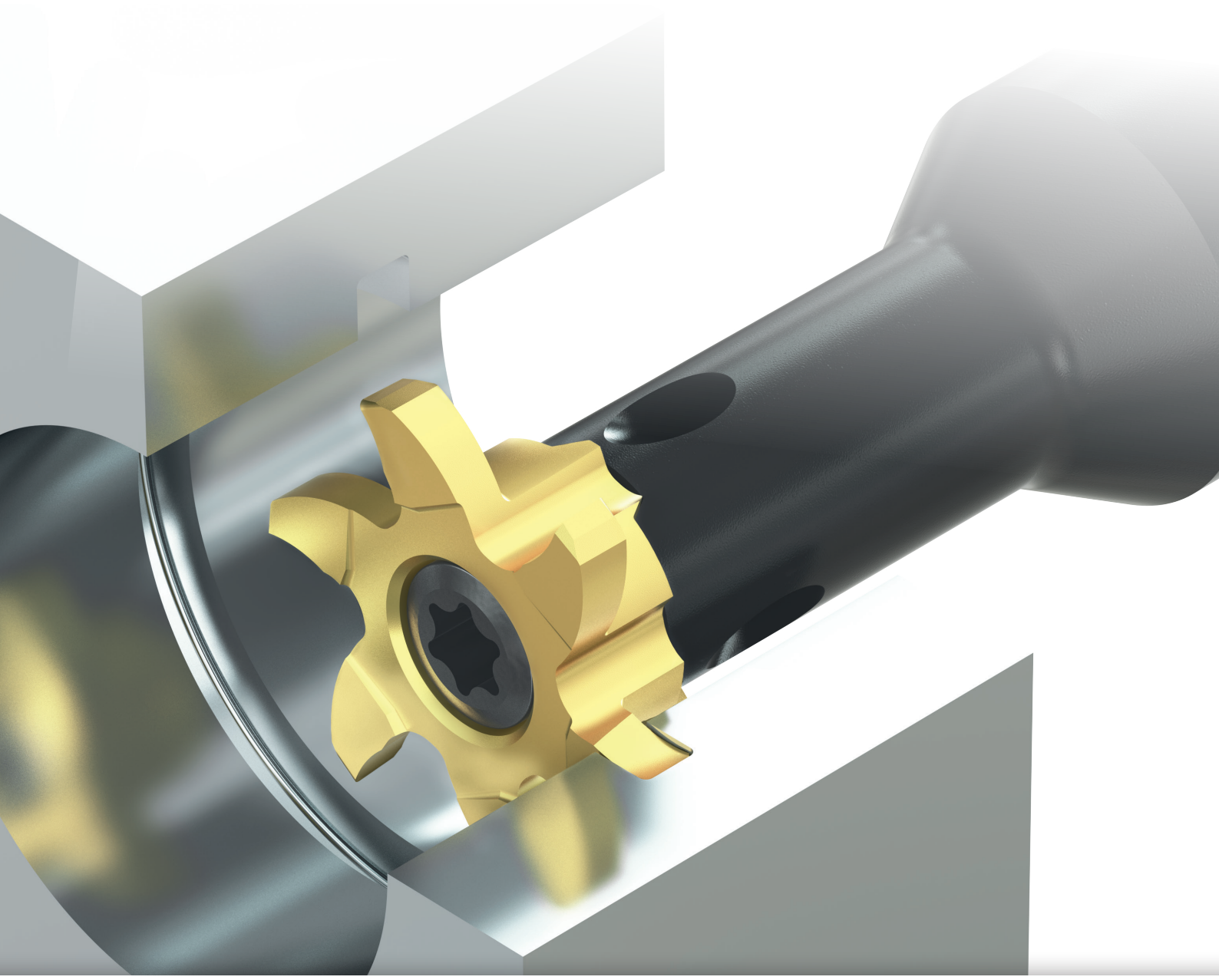
SIMTEK

Tools for
highest
expectations



simmill
SIMTEK MILLING TOOLS

Part Catalog
R20 US-Edition

Tools for
highest
expectations

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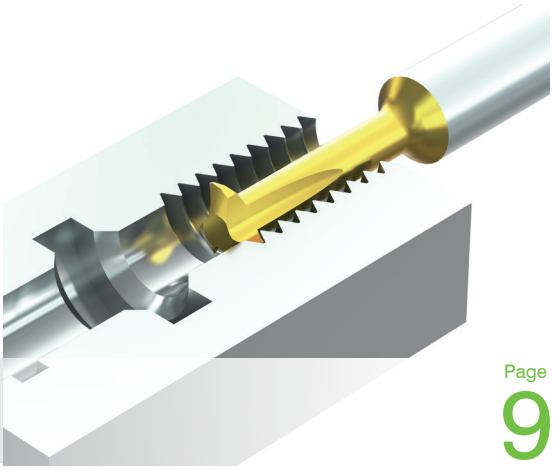
The simmill Groove Milling Tools

simmill AX
SIMTEK Milling Tools Type AX

Groove milling tools for internal applications in the diameter range of ...

≤ Ø 11,0 mm (0.433“)



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simmill PX
SIMTEK Milling Tools Type PX

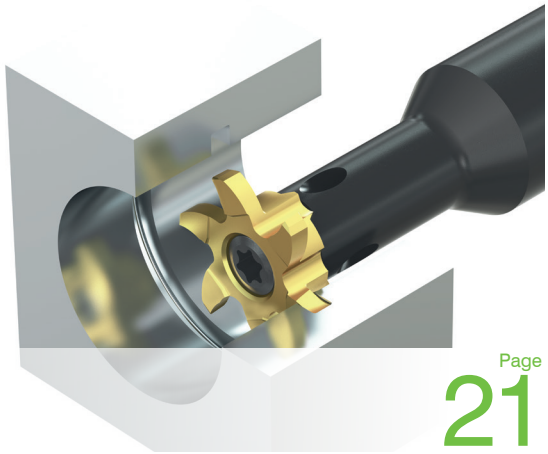
simmill SX
SIMTEK Milling Tools Type SX

simmill UX
SIMTEK Milling Tools Type UX

simmill VX
SIMTEK Milling Tools Type VX

Groove milling tools for internal applications in the diameter range of ...

Ø 10,0 – 42,0 mm
(0.394“ - 1.654“)



Page 21

The simmill Groove Milling Tools

simmill H2
SIMTEK Milling Tools Type H2

Active clamping system for 3,6 times higher cutting depths* with cutting diameter of ...

* Compared to simmill MX

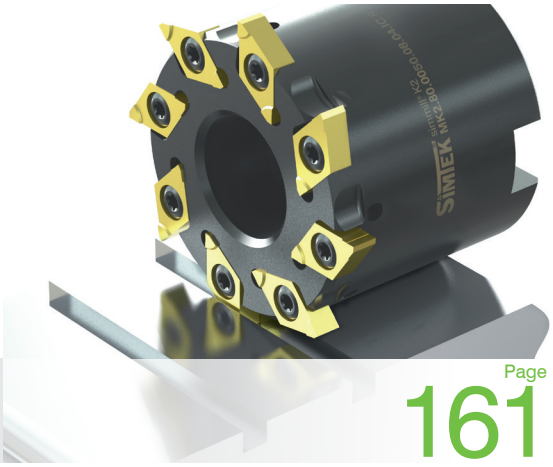
Ø 100,0 mm (3.937“)

Page 157

simmill K2
SIMTEK Milling Tools Type K2

Groove milling tools for internal applications in the diameter range of ...

≥ Ø 39,0 mm (1.535“)



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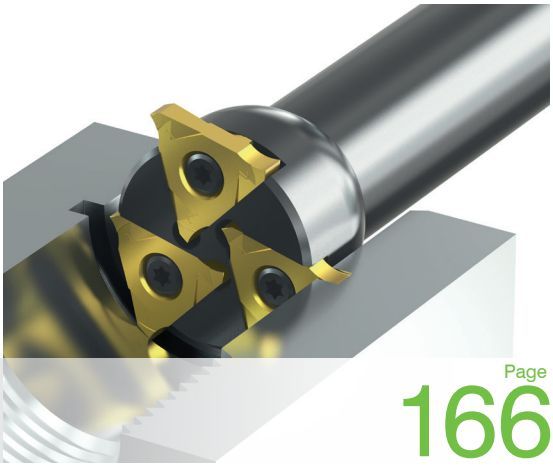
simmill MX
SIMTEK Milling Tools Type MX

Groove milling tools for internal applications in the diameter range of ...

≥ Ø 39,0 mm (1.535“)



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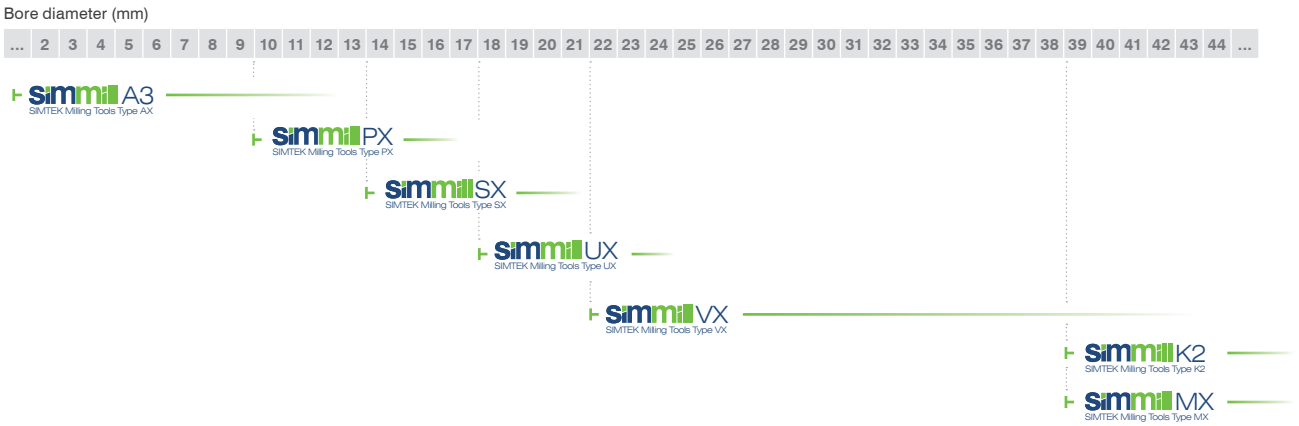
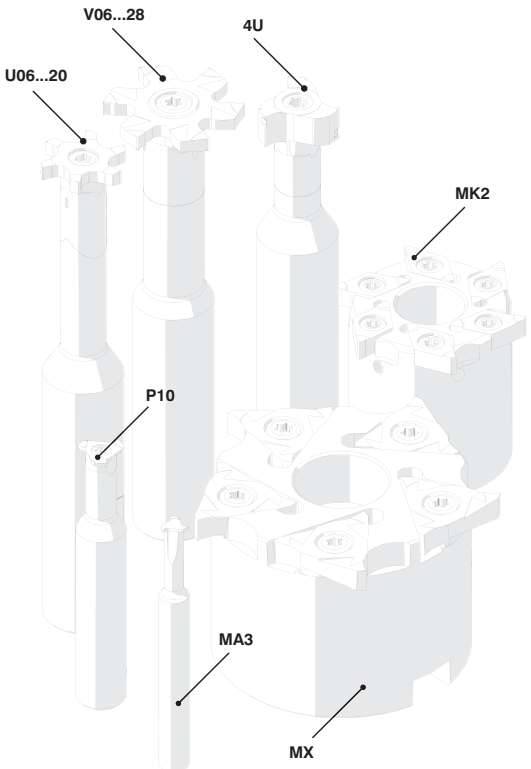
The Groove Milling Tool System comparison

Comparison of the tool systems suitability for internal applications (based on work piece bore diameter)



Comparison of the tool system inserts

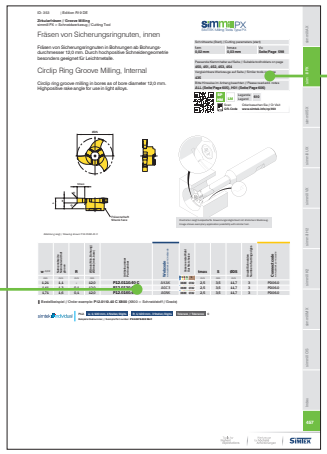
		2 cutting edge	3 cutting edges	4 cutting edges	6 cutting edges
For use as of minimum bore diameter	<Ø 6,0 mm	-	**MA3** simmill A3	**MA4** simmill A4	-
	Ø 8,0 mm	-	**MA3** simmill A3	-	-
	Ø 10,0 mm	-	**P10** simmill PX	-	**P06...10** simmill PX
	Ø 12,0 mm	-	**P12** simmill PX	-	**P06...12** simmill PX
	Ø 14,0 mm	-	**S14** simmill SX	-	**S06...14** simmill SX
	Ø 16,0 mm	-	**S16** simmill SX	-	**S06...16** simmill SX
	Ø 18,0 mm	-	**U18** simmill UX	-	**U06...18** simmill UX
	Ø 20,0 mm	-	**U20** simmill UX	-	-
	Ø 20,0 mm	-	**V20** simmill VX	-	**U06...20** simmill UX
	Ø 22,0 mm	-	**V22** simmill VX	-	**V06...22** simmill VX
	Ø 25,0 mm	-	**V25** simmill VX	-	**V06...25** simmill VX
	Ø 28,0 mm	-	**V28** simmill VX	-	**V06...28** simmill VX
	Ø 32,0 mm	-	**V32** simmill VX	-	-
	Ø 33,0 mm	-	**V33** simmill VX	-	-
	Ø 35,0 mm	-	-	-	**V06...35** simmill VX
	Ø 37,0 mm	-	-	-	**V06...37** simmill VX
	Ø 39,0 mm	**MK2** simmill K2	**MX** simmill MX	-	-



The Webcodes and cross-references are interactive links in the PDF-catalog.
A click on these links leads to the connected information.

The Webcode and more cross-references

The **Webcode**, shown on every catalog page line



The Webcode is a unique and fast connection between our part numbers and the digital world. Use it on our website and get up-to-date information fast, easy and reliable.

http://www.simtek.com/webcode/

The Webcode is a four digit alpha-nummeric code which is available for every standard item.
This code is unique for every item:

V06.0100.010.28 G	X800	=	AASZ	X800
Item	Grade		Webcode	Grade

Beispiel // Example

You can also use this Webcode for your ordering process. Just add the grade code - if ordering a cutting insert - and the short ordering code is complete.

Extra **cross-references** and **information**, shown on every catalog page

Schnittwerte (Start) // Cutting parameters (start)		
fzm **0,02 mm**	hmax **0,03 mm**	Vc **Seite/Page 598**

Passende Klemmhalter auf Seite // Suitable toolholders on page
450, 451, 452, 453, 454

Vergleichbare Werkzeuge auf Seite // Similar tools on page
435

Bitte Hinweise im Anhang beachten // Please read add. notes
ALL (Seite/Page 605), H01 (Seite/Page 606)

SP HM LM Legende Legend **610**

Scan **QR-Code** Oder besuchen Sie // Or Visit **www.simtek.info/cp/353**

You can find additional information and cross-references in the upper right corner. These cross-references lead to compatible toolholders, similar tools, cutting parameters and additional notes. The corresponding information can be found on the shown page numbers.

The Connectcode

Please use the „Connectcode“ in order to verify which combination between cutting insert and toolholder is recommended. This „Connectcode“ is shown on catalog pages of cutting inserts as well as on catalog pages of toolholders - if the tool system does not require the use of a toolholder, no „Connectcode“ is given.

Identical values indicate that the combination of insert and toolholder is recommended.

Different combinations can be possible too at the possible expense of other tool characteristics.

Connectcode www.simtek.com/ccode	Cutting tool: M14.L.6.0	M14.R.6.0	M82.3.2	M82.4.3	M82.5.4	PD*	PD06.0	SD*	SD08.0	UD*	UD09.0	VD09.0	VD1*	VD12.0	VD14.3
Toolholder: M14.L.6.0	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M14.R.6.0	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-
M82.3.2	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-
M82.4.3	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-
M82.5.4	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-
PD06.0	-	-	-	-	-	●	●	-	-	-	-	-	-	-	-
PD07.3	-	-	-	-	-	●	○	-	-	-	-	-	-	-	-
SD08.0	-	-	-	-	-	-	-	●	●	-	-	-	-	-	-
SD09.5	-	-	-	-	-	-	-	●	○	-	-	-	-	-	-
UD09.0	-	-	-	-	-	-	-	-	-	●	●	-	-	-	-
UD12.0	-	-	-	-	-	-	-	-	-	●	○	-	-	-	-
UD13.0	-	-	-	-	-	-	-	-	-	●	○	-	-	-	-
VD09.0	-	-	-	-	-	-	-	-	-	-	-	●	○	○	○
VD11.3	-	-	-	-	-	-	-	-	-	-	-	○	●	○	○
VD11.5	-	-	-	-	-	-	-	-	-	-	-	○	●	○	○
VD12.0	-	-	-	-	-	-	-	-	-	-	-	○	●	●	○
VD12.7	-	-	-	-	-	-	-	-	-	-	-	○	●	○	○
VD13.5	-	-	-	-	-	-	-	-	-	-	-	○	●	○	○
VD14.0	-	-	-	-	-	-	-	-	-	-	-	○	●	○	○
VD14.3	-	-	-	-	-	-	-	-	-	-	-	○	●	○	●
VD15.0	-	-	-	-	-	-	-	-	-	-	-	○	●	○	○
VD16.0	-	-	-	-	-	-	-	-	-	-	-	○	●	○	○

● **Recommended combination**

○ Constructionally possible combination but with differing functionality

This table contains all the „Connectcodes“ from this catalog. A full green circle on the intersection of cutting tool and toolholder indicates that the connection of both items is recommended.

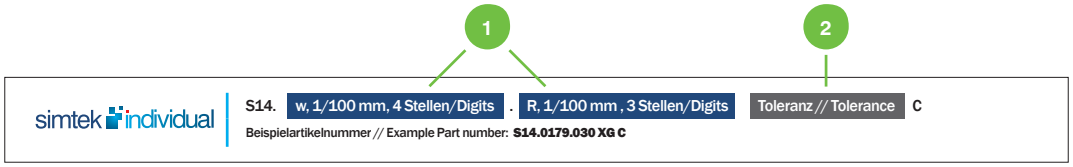
Tools according to your need

simtek individual

Tools according to your need:

Very easy with simtek-individual.

Some catalog pages show a simtek-individual-key. Use this code as stated below in order to create a part number that represents a tool according to your need.



Example

1 The given code on the catalog page is a template. Replace the blue fields with the measures you require.

2 Define the required cutting edge width tolerance by adding the right tolerance class code. These tolerance classes are available:

Tolerance Class Code	XG	XN	XE
Tolerance of the cutting edge width	±0,01 mm	±0,02 mm	-0,03 mm

Example based on the above simtek-individual-key

S14. 0179 . 035 XG C

Required cutting edge width (w)	1,79 mm	0179
Required corner radius (R)	0,35 mm	035
Required tolerance of the cutting edge width	±0,01 mm	XG

3 Contact us via E-Mail for current price and delivery time using the created code:

usa@simtek.com

The Tool System simmill AX

simmill AX
SIMTEK Milling Tools Type AX

+ Solid micro grain carbide milling cutter with shank diameters 6,0 (0.236“) or 8,0 mm (0.315“)

+ High groove depths in smallest bores

+ Improved cutting conditions with 3 cutting edges in bores as of Ø 1,4 mm (0.055“)

+ Extended thread depths at low cutting pressure

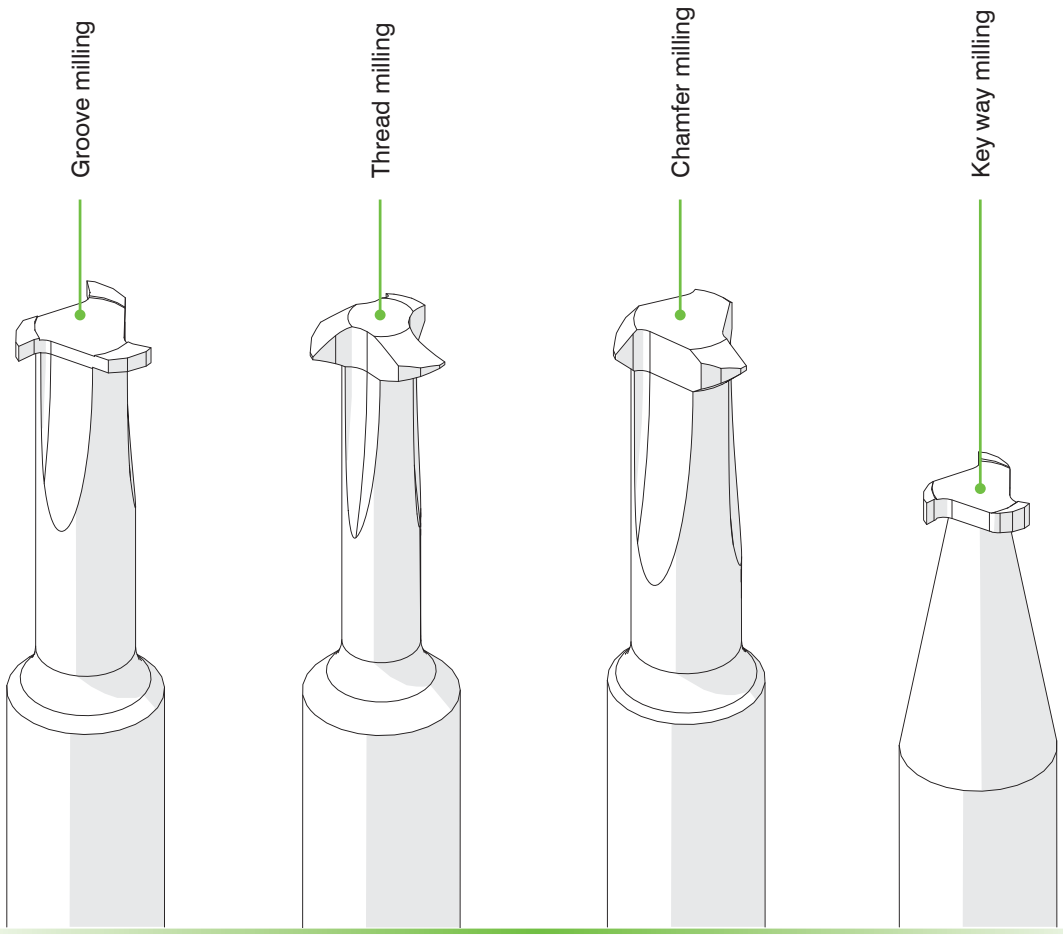
+ Usable length up to 35,6 mm (1.402“)

Main applications

Groove milling, thread milling, chamfering, key way milling

simtek·individual and customized tools available.

simmill AX
SIMTEK Milling Tools Type AX



... can be found as of page:

11 13 19 20

General groove milling

General Groove Milling. For use in bores as of minimum bore diameter 6,0 mm. Shank according to DIN 6535 HA.

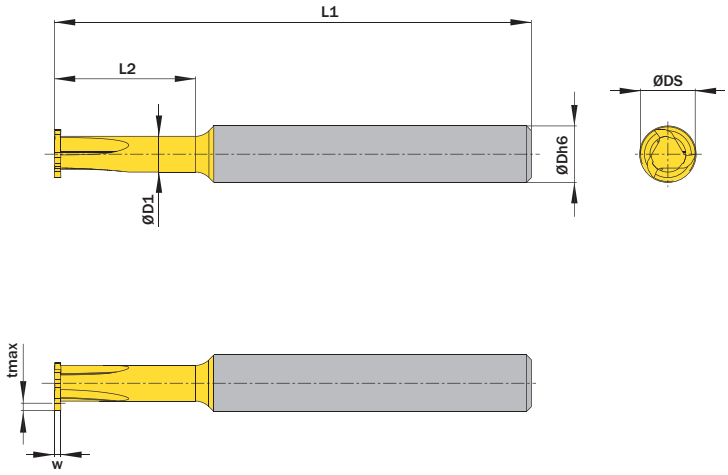
Cutting parameters (start)		
fzm **0,02 mm**	hmax **0,03 mm**	Vc **Page 192**

Please read add. notes
ALL (Page 199)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/291**

Weldon fixation available upon request.



Drawing shows: MA3.070.15.06.00 AG

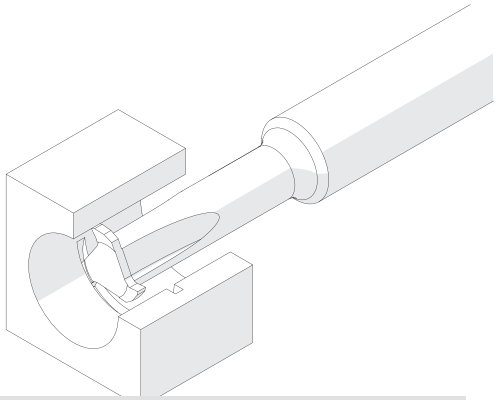


Image shows exemplary application possibility with similar tool.

w ±0,02 mm	L2 mm	ØDmin (min. bore) mm	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	Number of cutting edges	ØD1 mm	ØDh6 mm	ØDS mm	L1 mm	tmax mm	Connectcode www.simtek.com/ccode
▼ **ØDmin (min. bore) = 6,0 mm**												
0,5	15,0	6,0	**MA3.050.15.06.00 AG**	AVT1	X800 GT42	3	3,8	6,0	5,8	58,0	0,8	-
0,6	15,0	6,0	**MA3.060.15.06.00 AG**	AVT3	X800 GT42	3	3,8	6,0	5,8	58,0	0,8	-
0,7	15,0	6,0	**MA3.070.15.06.00 AG**	ACW4	X800 GT42	3	3,8	6,0	5,8	58,0	0,8	-
0,8	15,0	6,0	**MA3.080.15.06.00 AG**	AM62	X800 GT42	3	3,8	6,0	5,8	58,0	0,8	-
0,9	15,0	6,0	**MA3.090.15.06.00 AG**	AF94	X800 GT42	3	3,8	6,0	5,8	58,0	0,8	-
1,0	15,0	6,0	**MA3.100.15.06.00 AG**	AAZ2	X800 GT42	3	3,8	6,0	5,8	58,0	0,8	-
1,5	15,0	6,0	**MA3.150.15.06.00 AG**	AN5F	X800 GT42	3	3,8	6,0	5,8	58,0	0,8	-
▼ **ØDmin (min. bore) = 8,0 mm**												
0,7	25,0	8,0	**MA3.070.25.08.00 AG**	AJ2V	X800 GT42	3	5,0	8,0	7,8	68,0	1,2	-
0,8	25,0	8,0	**MA3.080.25.08.00 AG**	AFCH	X800 GT42	3	5,0	8,0	7,8	68,0	1,2	-
0,9	25,0	8,0	**MA3.090.25.08.00 AG**	AMAC	X800 GT42	3	5,0	8,0	7,8	68,0	1,2	-
1,0	25,0	8,0	**MA3.100.25.08.00 AG**	ANEA	X800 GT42	3	5,0	8,0	7,8	68,0	1,2	-
1,5	25,0	8,0	**MA3.150.25.08.00 AG**	AF41	X800 GT42	3	5,0	8,0	7,8	68,0	1,2	-
2,0	25,0	8,0	**MA3.200.25.08.00 AG**	AFXY	X800 GT42	3	5,0	8,0	7,8	68,0	1,2	-

Order example: **MA3.150.15.06.00 AG X800** (X800 = Grade)

simtek individual

MA3. w, 1/100 mm, 3 Digits .15.06. R, 1/100 mm, 3 Digits .A Tolerance
Example Part number: **MA3.179.15.06.030.A XG**

MA3. w, 1/100 mm, 3 Digits .25.08. R, 1/100 mm, 3 Digits .A Tolerance
Example Part number: **MA3.179.25.08.030.A XG**

Full Radius Groove Milling

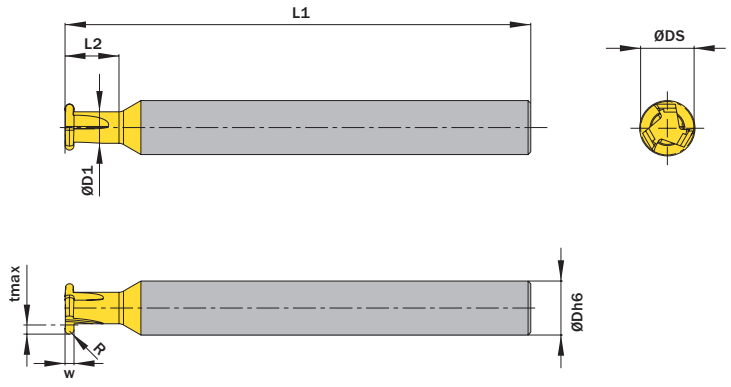
Full radius groove milling. For use in bores as of minimum bore diameter 4,0 mm. Shank according to DIN 6535 HA.

Cutting parameters (start)		
fzm **0,02 mm**	hmax **0,03 mm**	Vc **Page 192**

Please read add. notes
ALL (Page 199)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/1244**



Drawing shows: MA3.100.06.06.05 AV

w ±0,02	L2	ØDmin (min. bore)	R	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	Number of cutting edges	ØD1	ØDh6	ØDS	L1	tmax	Connectcode www.simtek.com/ccode
mm	mm	mm	mm					mm	mm	mm	mm	mm	
▼ ØDmin (min. bore) = 4,0 mm													
1,0	4,0	4,0	0,5	**MA3.100.04.04.05 AV**	AZ19	X800 GT42	3	2,55	6,0	3,8	58,0	0,5	-
▼ ØDmin (min. bore) = 6,0 mm													
1,0	6,0	6,0	0,5	**MA3.100.06.06.05 AV**	AZ18	X800 GT42	3	3,5	6,0	5,8	58,0	1,0	-
1,5	6,0	6,0	0,75	**MA3.150.06.06.07 AV**	AZ17	X800 GT42	3	3,5	6,0	5,8	58,0	1,0	-
▼ ØDmin (min. bore) = 8,0 mm													
1,5	16,0	8,0	0,75	**MA4.150.16.08.07 AV**	AZ2A	X800 GT42	4	4,4	8,0	7,8	68,0	1,5	-
2,0	16,0	8,0	1,0	**MA4.200.16.08.10 AV**	AZ2B	X800 GT42	4	4,4	8,0	7,8	68,0	1,5	-
▼ ØDmin (min. bore) = 10,0 mm													
1,0	20,0	10,0	0,5	**MA4.100.20.10.05 AV**	AZ2C	X800 GT42	4	5,3	10,0	9,8	78,0	2,0	-
1,5	20,0	10,0	0,75	**MA4.150.20.10.07 AV**	AZ2D	X800 GT42	4	5,3	10,0	9,8	78,0	2,0	-
2,0	20,0	10,0	1,0	**MA4.200.20.10.10 AV**	AZ2E	X800 GT42	4	5,3	10,0	9,8	78,0	2,0	-
2,5	20,0	10,0	1,25	**MA4.250.20.10.12 AV**	AZ2F	X800 GT42	4	5,3	10,0	9,8	78,0	2,0	-
3,0	20,0	10,0	1,5	**MA4.300.20.10.15 AV**	AZ2G	X800 GT42	4	5,3	10,0	9,8	78,0	2,0	-

Order example: **MA4.200.16.08.10 AV X800** (X800 = Grade)

Thread milling, metric ISO-thread, partial profile

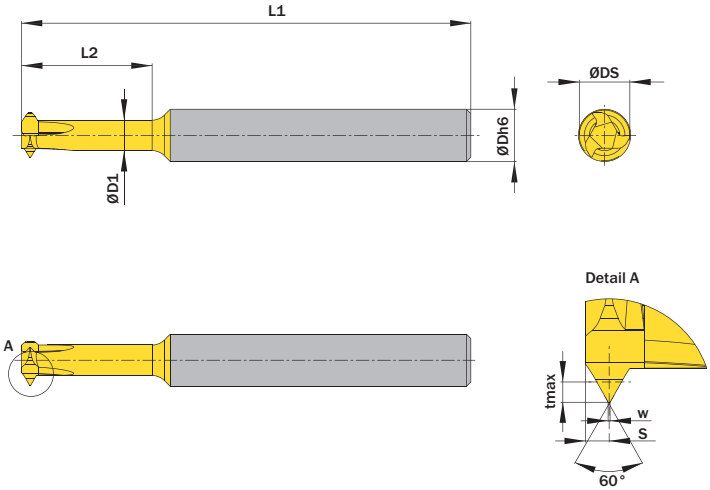
Thread milling as of bore diameter 1,38 mm, ISO metric thread, partial profile. Shank according to DIN 6535 HA.

Cutting parameters (start)		
fzm **0,02 mm**	hmax **0,03 mm**	Vc **Page 192**

Please read add. notes
ALL (Page 199), H04 (Page 202)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/294**



Drawing shows: MA3.MT15.01.15.06 AM

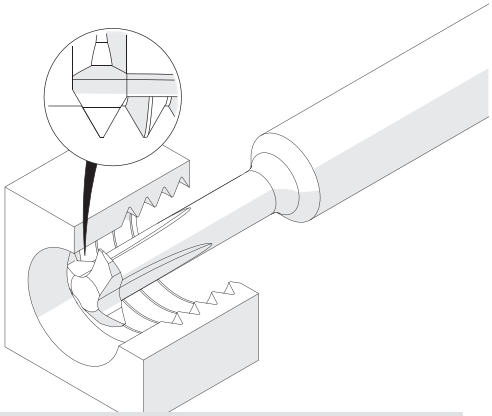


Image shows exemplary application possibility with similar tool.

As of thread size	Pitch (as of) mm	Pitch (up to) mm	L2 mm	ØDh6 mm	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	Number of cutting edges	ØD1 mm	ØDmin (min. bore) mm	ØDS mm	L1 mm	tmax mm	w mm	S mm	Connectcode www.simtek.com/ccode
▼ ØDh6 = 3,0 mm																
M1	0,25	0,25	2,5	3,0	**MA3.MT02.01.02.03 AM**	A5N3	X800 GT42	3	0,33	0,75	0,7	32,0	0,14	0,03	0,2	-
M1,6	0,35	0,35	4,0	3,0	**MA3.MT03.01.04.03 AM**	AQ0E	X800 GT42	3	0,67	1,38	1,18	32,0	0,19	0,04	0,2	-
M1,8	0,35	0,35	5,0	3,0	**MA3.MT03.01.05.03 AM**	AQ0F	X800 GT42	3	0,86	1,58	1,38	32,0	0,19	0,04	0,2	-
M2,5	0,4	0,4	5,0	3,0	**MA4.MT04.01.05.03 AM**	AQ0G	X800 GT42	4	0,92	2,07	1,5	32,0	0,22	0,05	0,3	-
M3	0,45	0,45	6,0	3,0	**MA4.MT04.01.06.03 AM**	AQ0H	X800 GT42	4	1,28	2,52	1,95	32,0	0,25	0,06	0,3	-
M3,5	0,5	0,5	7,0	3,0	**MA4.MT05.01.07.03 AM**	AQ0J	X800 GT42	4	1,67	2,96	2,4	32,0	0,27	0,06	0,3	-
M4,0	0,6	0,6	8,0	3,0	**MA4.MT06.01.08.03 AM**	AQ0K	X800 GT42	4	1,93	3,35	2,8	32,0	0,33	0,08	0,4	-
▼ ØDh6 = 5,0 mm																
M4,5	0,7	0,7	9,0	5,0	**MA4.MT07.01.09.05 AM**	AQ0M	X800 GT42	4	2,12	3,74	3,1	44,0	0,38	0,09	0,4	-
M5,5	0,8	0,8	10,0	5,0	**MA4.MT08.01.10.05 AM**	AVE5	X800 GT42	4	2,97	4,63	4,1	44,0	0,43	0,1	0,5	-
M7,0	1,0	1,0	12,0	5,0	**MA4.MT10.01.12.05 AM**	AQ0N	X800 GT42	4	3,51	5,92	4,9	44,0	0,54	0,13	0,6	-
M7,0	1,0	1,0	15,0	5,0	**MA4.MT10.01.15.05 AM**	AQ0P	X800 GT42	4	3,5	5,92	4,9	44,0	0,54	0,13	0,6	-
▼ ØDh6 = 6,0 mm																
M7,0	0,5	1,5	15,0	6,0	**MA3.MT15.01.15.06 AM**	AAF4	X800 GT42	3	3,5	6,0	5,8	58,0	0,92	0,06	0,8	-
▼ ØDh6 = 6,35 mm																
M7,0	0,5	1,5	15,0	6,35	**MA3.MT15.01.15.250 AM**	AS4P	X800 GT42	3	3,5	6,0	5,8	58,0	0,92	0,06	0,8	-
▼ ØDh6 = 7,92 mm																
M9,0	0,5	1,5	25,0	7,92	**MA3.MT15.01.25.312 AM**	AS4K	X800 GT42	3	5,5	8,0	7,8	68,0	0,92	0,06	1,0	-
M10,0	1,0	2,0	25,0	7,92	**MA3.MT20.01.25.312 AM**	AS4M	X800 GT42	3	5,0	8,0	7,8	68,0	1,19	0,12	1,0	-
▼ ØDh6 = 8,0 mm																
M9,0	0,5	1,5	25,0	8,0	**MA3.MT15.01.25.08 AM**	AAVN	X800 GT42	3	5,5	8,0	7,8	68,0	0,91	0,06	1,0	-
M10,0	1,0	2,0	25,0	8,0	**MA3.MT20.01.25.08 AM**	AFM6	X800 GT42	3	5,0	8,0	7,8	68,0	1,19	0,12	1,0	-

Order example: **MA3.MT15.01.25.08 AM X800** (X800 = Grade)

Please read the additional notes mentioned in the information area on the top right corner of this page.
The mentioned thread size „As of thread size" is based on the starting pitch.

More information about the **multi-purpose thread milling tools** and the **thread size suitability** can be found on page 204

Metric ISO-Coarse thread, partial profile

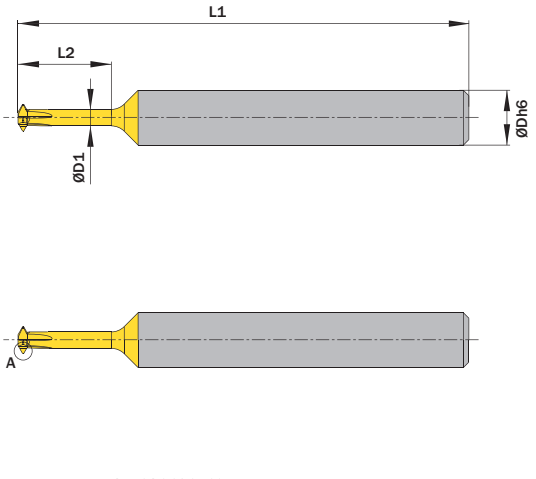
Thread milling as of bore diameter 1,5 mm, metric ISO coarse thread, partial profile. Shank according to DIN 6535 HA.

Cutting parameters (start)		
fzm **0,02 mm**	hmax **0,03 mm**	Vc **Page 192**

Please read add. notes
ALL (Page 199), H04 (Page 202)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/1099**



Drawing shows: MA4.MT04.C.01.05.03 AM

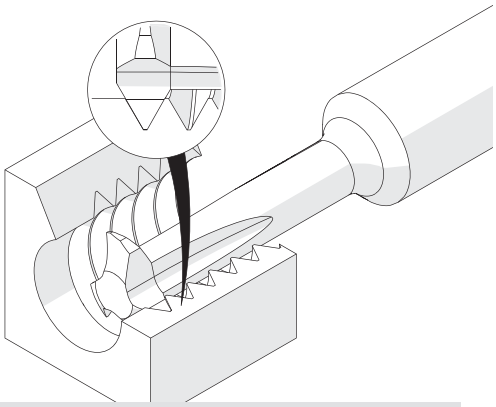


Image shows exemplary application possibility with similar tool.

As of thread size	Pitch (as of) mm	Pitch (up to) mm	L2 mm	ØDh6 mm	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	Number of cutting edges	ØD1 mm	ØDmin (min. bore) mm	ØDS mm	L1 mm	tmax mm	w mm	S mm	Connectcode www.simtek.com/ccode
▼ ØDh6 = 3,0 mm																
M2	0,4	0,45	5,0	3,0	**MA4.MT04.C.01.05.03 AM**	AX06	X800 GT42	4	0,77	1,5	1,45	32,0	0,27	0,05	0,3	-
M2,5	0,45	0,5	6,0	3,0	**MA4.MT04.C.01.06.03 AM**	AX07	X800 GT42	4	1,06	1,9	1,8	32,0	0,29	0,05	0,3	-
M3	0,5	0,6	7,0	3,0	**MA4.MT05.C.01.07.03 AM**	AX08	X800 GT42	4	1,27	2,3	2,15	32,0	0,35	0,06	0,3	-
M3,5	0,6	0,7	8,0	3,0	**MA4.MT06.C.01.08.03 AM**	AX09	X800 GT42	4	1,39	2,7	2,4	32,0	0,4	0,07	0,4	-
▼ ØDh6 = 5,0 mm																
M4	0,7	0,8	9,0	5,0	**MA4.MT07.C.01.09.05 AM**	AX1A	X800 GT42	4	1,58	3,1	2,7	44,0	0,46	0,08	0,4	-
M5	0,8	1,0	10,0	5,0	**MA4.MT08.C.01.10.05 AM**	AX1B	X800 GT42	4	2,14	3,9	3,57	44,0	0,59	0,1	0,5	-
M6	1,0	1,25	12,2	5,0	**MA4.MT10.C.01.12.05 AM**	AX1C	X800 GT42	4	2,44	4,6	4,2	44,0	0,74	0,12	0,6	-
M7	1,0	1,25	15,2	5,0	**MA4.MT10.C.01.15.05 AM**	AX1D	X800 GT42	4	3,09	5,6	4,9	44,0	0,74	0,12	0,6	-

Order example: **MA4.MT10.C.01.12.05 AM X800** (X800 = Grade)

The mentioned thread size „As of thread size" is based on the starting pitch.
Please read the additional notes mentioned in the information area on the top right corner of this page.

More information about the **multi-purpose thread milling tools** and the **thread size suitability** can be found on page 204

simmill AX
SIMTEK Milling Tools Type AX

Thread milling, UNC/UNF full profile

For a complete thread profile with correct depth.
Shank according to DIN 6535 HA.

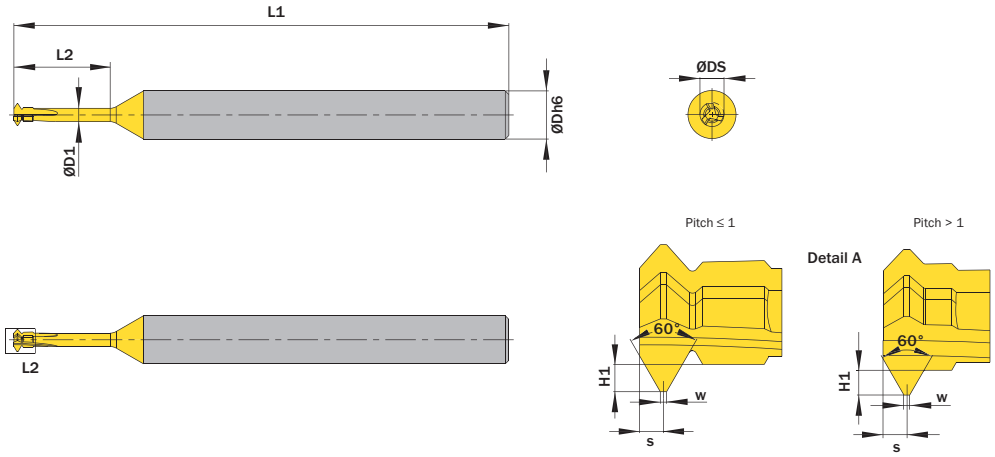
Cutting parameters (start)		
fzm **0,02 mm**	hmax **0,03 mm**	Vc **Page 192**

Please read add. notes
ALL (Page 199), H04 (Page 202)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/1247**

This page contains inch tools! These tools are indicated by **inch** on the right hand side.



Drawing shows: MA3.UN40.C.02.08.04 AM

Threads/ Inch	L2 inch	ØDh6 inch	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S		Number of cutting edges	Standard pitch thread	ØD1 inch	ØDmin (min. bore) inch	ØDS inch	H1 inch	L1 inch	Pitch (as of) inch	S inch	w inch	Connectcode www.simtek.com/ccode	
▼ ØDh6 = 0.157"																		
32	0.315"	0.157"	**MA3.UN32.C.02.08.04 AM**	AZ2T	X800	GT42	3	Yes	0.045"	0.102"	0.087"	0.017"	1.732"	0.031"	0.016"	0.004"	-	inch
40	0.315"	0.157"	**MA3.UN40.02.08.04 AM**	AZ2U	X800	GT42	3	No	0.056"	0.110"	0.091"	0.014"	1.732"	0.025"	0.012"	0.003"	-	inch
40	0.315"	0.157"	**MA3.UN40.C.02.08.04 AM**	AZ2Q	X800	GT42	3	Yes	0.044"	0.094"	0.079"	0.014"	1.732"	0.025"	0.012"	0.003"	-	inch
44	0.315"	0.157"	**MA3.UN44.02.08.04 AM**	AZ2S	X800	GT42	3	No	0.046"	0.098"	0.079"	0.012"	1.732"	0.023"	0.012"	0.003"	-	inch
▼ ØDh6 = 0.236"																		
16	0.984"	0.236"	**MA4.UN16.C.02.25.06 AM**	AZ20	X800	GT42	4	Yes	0.138"	0.307"	0.217"	0.034"	3.071"	0.063"	0.028"	0.008"	-	inch
18	0.394"	0.236"	**MA4.UN18.C.02.10.06 AM**	AZ2Z	X800	GT42	4	Yes	0.097"	0.252"	0.165"	0.030"	2.677"	0.056"	0.024"	0.007"	-	inch
20	0.394"	0.236"	**MA4.UN20.C.02.10.06 AM**	AZ2X	X800	GT42	4	Yes	0.076"	0.394"	0.138"	0.027"	2.677"	0.050"	0.024"	0.006"	-	inch
24	0.394"	0.236"	**MA3.UN24.C.02.10.06 AM**	AZ2W	X800	GT42	3	Yes	0.061"	0.142"	0.114"	0.023"	2.283"	0.042"	0.016"	0.005"	-	inch
28	0.394"	0.236"	**MA4.UN28.02.10.06 AM**	AZ2Y	X800	GT42	4	No	0.091"	0.209"	0.138"	0.019"	2.677"	0.036"	0.016"	0.004"	-	inch
36	0.394"	0.236"	**MA3.UN36.02.10.06 AM**	AZ2V	X800	GT42	3	No	0.060"	0.134"	0.098"	0.015"	2.283"	0.028"	0.012"	0.004"	-	inch
▼ ØDh6 = 0.315"																		
14	0.984"	0.315"	**MA4.UN14.C.02.25.08 AM**	AZ21	X800	GT42	4	Yes	0.177"	0.358"	0.268"	0.039"	3.071"	0.071"	0.031"	0.009"	-	inch
20	1.181"	0.315"	**MA4.UN20.02.30.08 AM**	AZ22	X800	GT42	4	No	0.217"	0.358"	0.283"	0.027"	3.071"	0.050"	0.024"	0.006"	-	inch

Order example: **MA4.UN28.02.10.06 AM X800** (X800 = Grade)

Thread milling, metric ISO-Thread, full profile

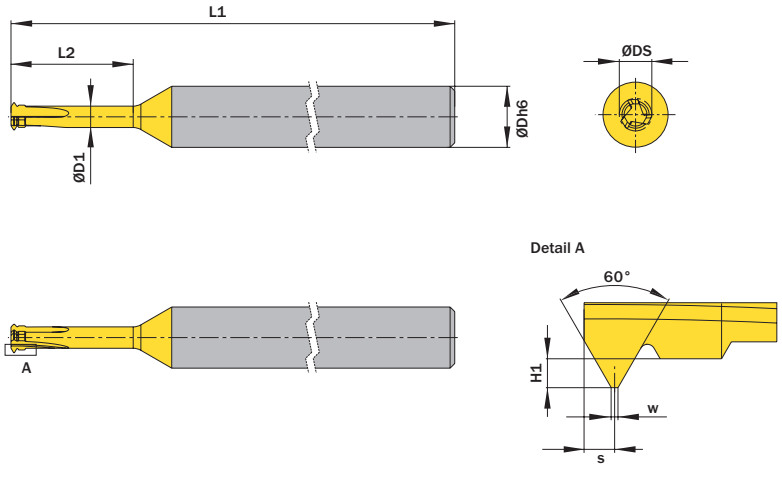
Thread milling as of bore diameter 2,4 mm, ISO metric thread, full profile. Shank according to DIN 6535 HA.

Cutting parameters (start)		
fzm **0,02 mm**	hmax **0,03 mm**	Vc **Page 192**

Please read add. notes
ALL (Page 199), H04 (Page 202)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/1246**



Drawing shows: MA3.MT03.02.08.04 AM

As of thread size	L2 mm	ØDh6 mm	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S		Number of cutting edges	Standard pitch thread	ØD1 mm	ØDmin (min. bore) mm	ØDS mm	H1 mm	L1 mm	Pitch (as of) mm	S mm	w mm	Connectcode www.simtek.com/ccode
▼ ØDh6 = 4,0 mm																	
M3	8,0	4,0	**MA3.MT03.02.08.04 AM**	AZ2H	X800	GT42	3	No	1,4	2,4	2,0	0,19	44,0	0,35	0,2	0,04	-
M3	8,0	4,0	**MA3.MT05.C.02.08.04 AM**	AZ2J	X800	GT42	3	Yes	1,25	2,4	2,0	0,27	44,0	0,5	0,3	0,06	-
M3,5	9,0	4,0	**MA3.MT06.C.02.09.04 AM**	AZ2K	X800	GT42	3	Yes	1,4	2,7	2,3	0,33	44,0	0,6	0,3	0,08	-
▼ ØDh6 = 6,0 mm																	
M4	10,0	6,0	**MA3.MT05.02.10.06 AM**	AZ2M	X800	GT42	3	No	2,0	3,3	2,8	0,27	58,0	0,5	0,3	0,06	-
M4	10,0	6,0	**MA3.MT07.C.02.10.06 AM**	AZ2N	X800	GT42	3	Yes	1,85	3,3	2,8	0,38	58,0	0,7	0,4	0,09	-
M6	16,0	6,0	**MA4.MT07.02.16.06 AM**	AZ3H	X800	GT42	4	No	3,1	5,0	4,2	0,41	68,0	0,75	0,5	0,1	-
M5	12,0	6,0	**MA4.MT08.C.02.12.06 AM**	A5N1	X800	GT42	4	Yes	2,4	4,13	3,57	0,43	58,0	0,8	0,6	0,09	-
M8	16,0	6,0	**MA4.MT10.02.16.06 AM**	AZ3M	X800	GT42	4	No	4,0	6,5	5,5	0,54	68,0	1,0	0,6	0,12	-
M6	16,0	6,0	**MA4.MT10.C.02.16.06 AM**	AZ3J	X800	GT42	4	Yes	2,8	5,0	4,2	0,54	68,0	1,0	0,6	0,12	-
M8	16,0	6,0	**MA4.MT12.C.02.16.06 AM**	AZ3N	X800	GT42	4	Yes	3,7	6,5	5,5	0,68	68,0	1,25	0,8	0,16	-
▼ ØDh6 = 8,0 mm																	
M10	20,0	8,0	**MA4.MT07.02.20.08 AM**	AZ3P	X800	GT42	4	No	5,6	8,0	6,8	0,41	68,0	0,75	0,5	0,1	-
M10	25,0	8,0	**MA4.MT10.02.25.08 AM**	AZ3Q	X800	GT42	4	No	5,4	8,0	6,8	0,54	78,0	1,0	0,6	0,12	-
M10	20,0	8,0	**MA4.MT15.C.02.20.08 AM**	AZ3S	X800	GT42	4	Yes	4,7	8,0	6,8	0,81	68,0	1,5	1,0	0,19	-
▼ ØDh6 = 10,0 mm																	
M12	20,0	10,0	**MA4.MT10.02.20.10 AM**	AZ3T	X800	GT42	4	No	6,3	10,0	8,0	0,54	68,0	1,0	0,6	0,12	-
M12	30,0	10,0	**MA4.MT12.02.30.10 AM**	AZ3U	X800	GT42	4	No	6,1	10,0	8,0	0,68	78,0	1,25	0,8	0,16	-
M12	30,0	10,0	**MA4.MT17.C.02.30.10 AM**	AZ3V	X800	GT42	4	Yes	5,5	10,0	8,0	0,95	78,0	1,75	1,0	0,22	-

Order example: **MA4.MT12.C.02.16.06 AM X800** (X800 = Grade)

simmill AX
SIMTEK Milling Tools Type AX

Thread milling, BSW/BSF Full Profile

For a complete thread profile with correct depth, top radius and bottom radius. Shank according to DIN 6535 HA.

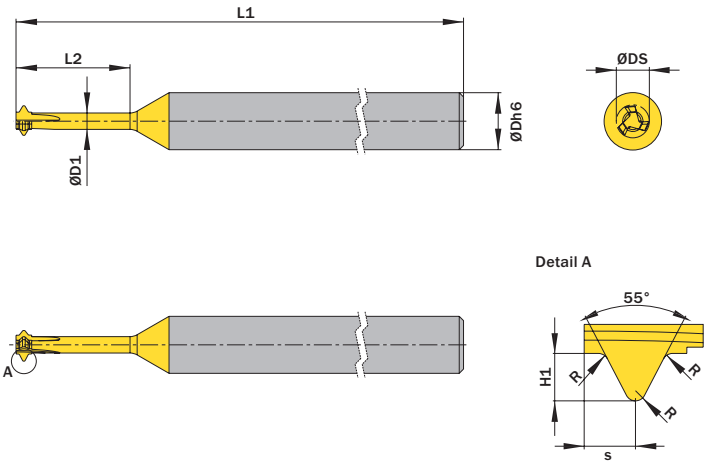
Cutting parameters (start)		
fzm **0,02 mm**	hmax **0,03 mm**	Vc **Page 192**

Please read add. notes
ALL (Page 199)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/1245**

This page contains inch tools! These tools are indicated by **inch** on the right hand side.



Drawing sh ows: MA3.BS32.C.02.08.04 AM

Threads/ Inch	L2 inch	ØDh6 inch	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S		Number of cutting edges	Standard pitch thread	ØD1 inch	ØDmin (min. bore) inch	ØDS inch	H1 inch	L1 inch	Pitch (as of) inch	R inch	S inch	Connectcode www.simtek.com/ccode	
▼ ØDh6 = 0.157“																		
32	0.315“	0.157“	**MA3.BS32.C.02.08.04 AM**	AZ3X	X800	GT42	3	Yes	0.045“	0.114“	0.091“	0.020“	1.732“	0.031“	0.004“	0.024“	-	inch
40	0.315“	0.157“	**MA3.BS40.C.02.08.04 AM**	AZ3W	X800	GT42	3	Yes	0.043“	0.091“	0.079“	0.016“	1.732“	0.025“	0.004“	0.016“	-	inch
▼ ØDh6 = 0.236“																		
20	0.630“	0.236“	**MA3.BS20.C.02.16.06 AM**	AZ31	X800	GT42	3	Yes	0.083“	0.185“	0.157“	0.032“	2.677“	0.050“	0.007“	0.039“	-	inch
24	0.394“	0.236“	**MA3.BS24.C.02.10.06 AM**	AZ3Y	X800	GT42	3	Yes	0.049“	0.134“	0.110“	0.027“	2.283“	0.042“	0.006“	0.031“	-	inch
26	0.630“	0.236“	**MA3.BS26.02.16.06 AM**	AZ32	X800	GT42	3	No	0.104“	0.197“	0.165“	0.025“	2.677“	0.038“	0.006“	0.028“	-	inch
28	0.394“	0.236“	**MA3.BS28.02.10.06 AM**	AZ30	X800	GT42	3	No	0.087“	0.169“	0.142“	0.023“	2.283“	0.036“	0.005“	0.024“	-	inch
32	0.394“	0.236“	**MA3.BS32.02.10.06 AM**	AZ3Z	X800	GT42	3	No	0.063“	0.146“	0.110“	0.020“	2.283“	0.031“	0.004“	0.024“	-	inch
18	0.630“	0.236“	**MA4.BS18.C.02.16.06 AM**	AZ24	X800	GT42	4	Yes	0.118“	0.240“	0.205“	0.035“	2.677“	0.056“	0.007“	0.039“	-	inch
22	0.630“	0.236“	**MA4.BS22.02.16.06 AM**	AZ25	X800	GT42	4	No	0.134“	0.252“	0.209“	0.029“	2.677“	0.045“	0.006“	0.031“	-	inch
26	0.630“	0.236“	**MA4.BS26.02.16.06 AM**	AZ23	X800	GT42	4	No	0.138“	0.228“	0.197“	0.025“	2.677“	0.038“	0.005“	0.028“	-	inch
▼ ØDh6 = 0.315“																		
14	0.984“	0.315“	**MA4.BS14.C.02.25.08 AM**	AZ29	X800	GT42	4	Yes	0.169“	0.343“	0.283“	0.046“	3.071“	0.071“	0.010“	0.047“	-	inch
16	0.630“	0.315“	**MA4.BS16.C.02.16.08 AM**	AZ27	X800	GT42	4	Yes	0.157“	0.291“	0.248“	0.040“	2.677“	0.063“	0.009“	0.043“	-	inch
18	0.984“	0.315“	**MA4.BS18.02.25.08 AM**	AZ3A	X800	GT42	4	No	0.197“	0.366“	0.295“	0.035“	3.071“	0.056“	0.007“	0.039“	-	inch
20	0.630“	0.315“	**MA4.BS20.02.16.08 AM**	AZ28	X800	GT42	4	No	0.181“	0.307“	0.256“	0.032“	2.677“	0.050“	0.007“	0.039“	-	inch
▼ ØDh6 = 0.394“																		
12	1.181“	0.394“	**MA4.BS12.C.02.30.10 AM**	AZ3B	X800	GT42	4	Yes	0.213“	0.390“	0.335“	0.054“	3.071“	0.083“	0.011“	0.055“	-	inch
16	1.181“	0.394“	**MA4.BS16.02.30.10 AM**	AZ3C	X800	GT42	4	No	0.276“	0.417“	0.374“	0.040“	3.071“	0.063“	0.009“	0.047“	-	inch

Order example: **MA4.BS16.C.02.16.08 AM X800** (X800 = Grade)

Thread milling, Whitworth Pipe Thread BSP

For a complete thread profile with correct depth, top radius and bottom radius. Shank according to DIN 6535 HA.

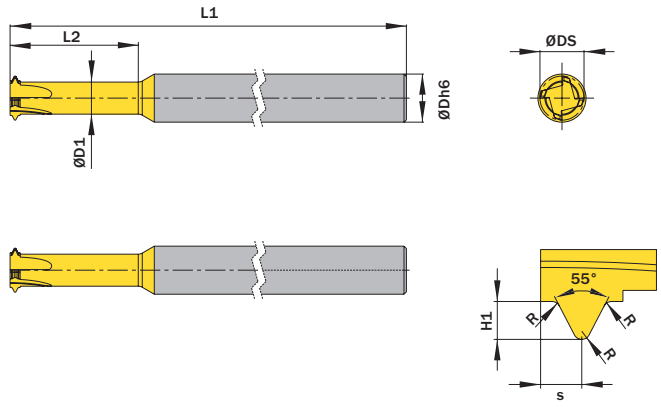
Cutting parameters (start)		
fzm **0,02 mm**	hmax **0,03 mm**	Vc **Page 192**

Please read add. notes
ALL (Page 199), H04 (Page 202)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/1248**

This page contains inch tools! These tools are indicated by **inch** on the right hand side.



Drawing shows: MA4.BS28.P.02.16.06 AM

Thread	Threads/Inch	L2 inch	ØDh6 inch	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S		Number of cutting edges	ØD1 inch	ØDmin (min. bore) inch	ØDS inch	H1 inch	L1 inch	Pitch (as of) inch	R inch	S inch	Connectcode www.simtek.com/ccode	
▼ ØDh6 = 0.236“																		
G 1/16“	28	0.630“	0.236“	**MA4.BS28.P.02.16.06 AM**	AZ3D	X800	GT42	4	0.157“	0.256“	0.217“	0.023“	2.667“	0.036“	0.005“	0.024“	-	inch
▼ ØDh6 = 0.315“																		
G 1/8“	28	0.630“	0.315“	**MA4.BS28.P.02.16.08 AM**	AZ3E	X800	GT42	4	0.197“	0.335“	0.260“	0.023“	2.677“	0.036“	0.005“	0.024“	-	inch
▼ ØDh6 = 0.394“																		
G 1/4“	19	0.787“	0.394“	**MA4.BS19.P.02.20.10 AM**	AZ3F	X800	GT42	4	0.276“	0.449“	0.374“	0.034“	2.677“	0.053“	0.007“	0.039“	-	inch
▼ ØDh6 = 0.472“																		
G 3/8“	19	1.181“	0.472“	**MA4.BS19.P.02.30.12 AM**	AZ3G	X800	GT42	4	0.366“	0.587“	0.465“	0.034“	3.071“	0.053“	0.007“	0.039“	-	inch

Order example: **MA4.BS28.P.02.16.08 AM X800** (X800 = Grade)

Chamfering

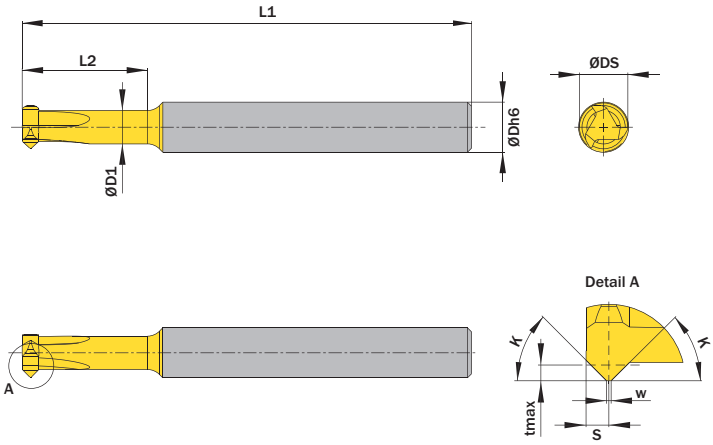
Chamfering on both sides. For use in bores as of minimum bore diameter 6,0 mm. Shank according to DIN 6535 HA.

Cutting parameters (start)		
fzm **0,02 mm**	hmax **0,03 mm**	Vc **Page 192**

Please read add. notes
ALL (Page 199)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/293**



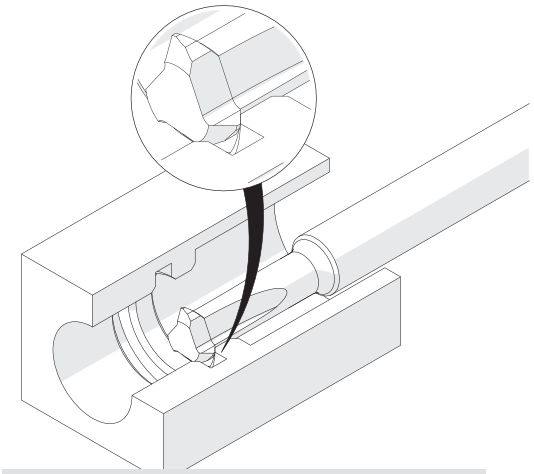


Image shows exemplary application possibility with similar tool.

Drawing shows: MA3.4545.02.15.06 AF

κ	w	L2	ØDmin (min. bore)	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	Number of cutting edges	ØD1	ØDh6	ØDS	L1	S	tmax	Connectcode www.simtek.com/ccode
	mm	mm	mm					mm	mm	mm	mm	mm	mm	
▼ ØDmin (min. bore) = 6,0 mm														
45°	0,2	15,0	6,0	**MA3.4545.02.15.06 AF**	AHTP	X800 GT42	3	4,2	6,0	5,8	58,0	1,0	0,6	-
45°	0,2	15,0	6,0	**MA3.4545.02.15.250 AF**	AS4Q	X800 GT42	3	4,2	6,35	5,8	58,0	1,0	0,6	-
45°	0,2	25,0	6,0	**MA3.4545.02.25.06 AF**	AC3U	X800 GT42	3	4,2	6,0	5,8	68,0	1,0	0,6	-
45°	0,2	25,0	6,0	**MA3.4545.02.25.250 AF**	AS4H	X800 GT42	3	4,2	6,35	5,8	68,0	1,0	0,6	-
▼ ØDmin (min. bore) = 8,0 mm														
45°	0,2	25,0	8,0	**MA3.4545.02.25.08 AF**	AKDE	X800 GT42	3	5,0	8,0	7,8	68,0	1,5	1,2	-
45°	0,2	25,0	8,0	**MA3.4545.02.25.312 AF**	AS4J	X800 GT42	3	5,0	7,92	7,8	68,0	1,5	1,2	-
45°	0,2	35,0	8,0	**MA3.4545.02.35.08 AF**	AKCW	X800 GT42	3	5,0	8,0	7,8	78,0	1,5	1,2	-
45°	0,2	35,0	8,0	**MA3.4545.02.35.312 AF**	AS4N	X800 GT42	3	5,0	7,92	7,8	78,0	1,5	1,2	-

Order example: **MA3.4545.02.15.06 AF X800** (X800 = Grade)

Keyway milling

Keyway milling according to DIN6888. Shank according to DIN 6535 HA and DIN 1835 A.

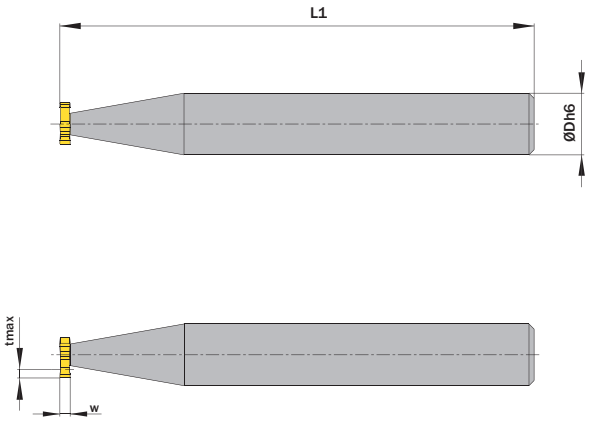
Cutting parameters (start)		
fzm **0,02 mm**	hmax **0,03 mm**	Vc **Page 192**

Please read add. notes
ALL (Page 199)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/304**

WIdon fixation available upon request.



Drawing shows: MA3.100.09.06.00 AS

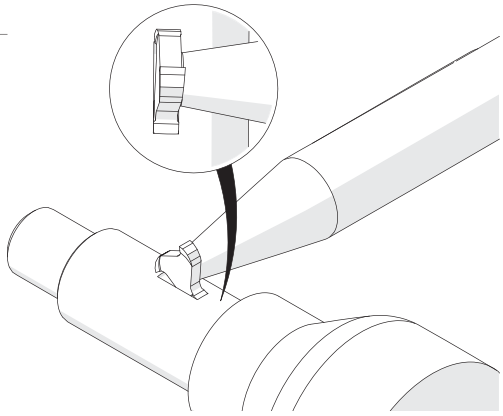


Image shows exemplary application possibility with similar tool.

w e8 mm	ØDS mm	ØDh6 mm	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	Number of cutting edges	L1 mm	tmax mm	Shank according to	Connectcode www.simtek.com/ccode
▼ ØDS = 4,5 mm										
1,0	4,5	6,0	**MA3.100.04.06.00 AS**	AK0Y	X800 GT42	3	50,0	1,0	DIN 6535 HA	-
▼ ØDS = 7,5 mm										
1,5	7,5	8,0	**MA3.150.07.08.00 AS**	ANPA	X800 GT42	3	50,0	2,0	DIN 6535 HA	-
2,0	7,5	8,0	**MA3.200.07.08.00 AS**	AK6Z	X800 GT42	3	50,0	1,8	DIN 6535 HA	-
▼ ØDS = 10,5 mm										
2,0	10,5	12,0	**MA3.200.10.12.00 AS**	AEH6	X800 GT42	3	60,0	2,9	DIN 6535 HA	-
2,5	10,5	12,0	**MA3.250.10.12.00 AS**	ACMK	X800 GT42	3	60,0	2,9	DIN 6535 HA	-
3,0	10,5	12,0	**MA3.300.10.12.00 AS**	AM42	X800 GT42	3	60,0	2,5	DIN 6535 HA	-
▼ ØDS = 13,5 mm										
3,0	13,5	16,0	**MA3.300.13.16.00 AS**	AF2J	X800 GT42	3	70,0	3,8	DIN 1835 A	-
4,0	13,5	16,0	**MA3.400.13.16.00 AS**	AE01	X800 GT42	3	70,0	3,5	DIN 1835 A	-
▼ ØDS = 16,5 mm										
3,0	16,5	16,0	**MA3.300.16.16.00 AS**	ADT5	X800 GT42	3	70,0	5,3	DIN 1835 A	-
4,0	16,5	16,0	**MA3.400.16.16.00 AS**	AJXW	X800 GT42	3	70,0	5,0	DIN 1835 A	-
5,0	16,5	16,0	**MA3.500.16.16.00 AS**	AGAJ	X800 GT42	3	70,0	4,5	DIN 1835 A	-
▼ ØDS = 19,5 mm										
4,0	19,5	16,0	**MA3.400.19.16.00 AS**	ANKE	X800 GT42	3	70,0	6,0	DIN 1835 A	-
5,0	19,5	16,0	**MA3.500.19.16.00 AS**	AM0X	X800 GT42	3	70,0	5,5	DIN 1835 A	-
6,0	19,5	16,0	**MA3.600.19.16.00 AS**	AB59	X800 GT42	3	70,0	5,1	DIN 1835 A	-
▼ ØDS = 22,5 mm										
5,0	22,5	16,0	**MA3.500.22.16.00 AS**	ANVG	X800 GT42	3	70,0	7,0	DIN 1835 A	-
6,0	22,5	16,0	**MA3.600.22.16.00 AS**	AHC5	X800 GT42	3	70,0	6,6	DIN 1835 A	-
8,0	22,5	16,0	**MA3.800.22.16.00 AS**	ADG7	X800 GT42	3	70,0	6,2	DIN 1835 A	-
▼ ØDS = 25,5 mm										
6,0	25,5	16,0	**MA3.600.25.16.00 AS**	AH8A	X800 GT42	3	70,0	7,6	DIN 1835 A	-

Order example: **MA3.150.07.08.00 AS X800** (X800 = Grade)

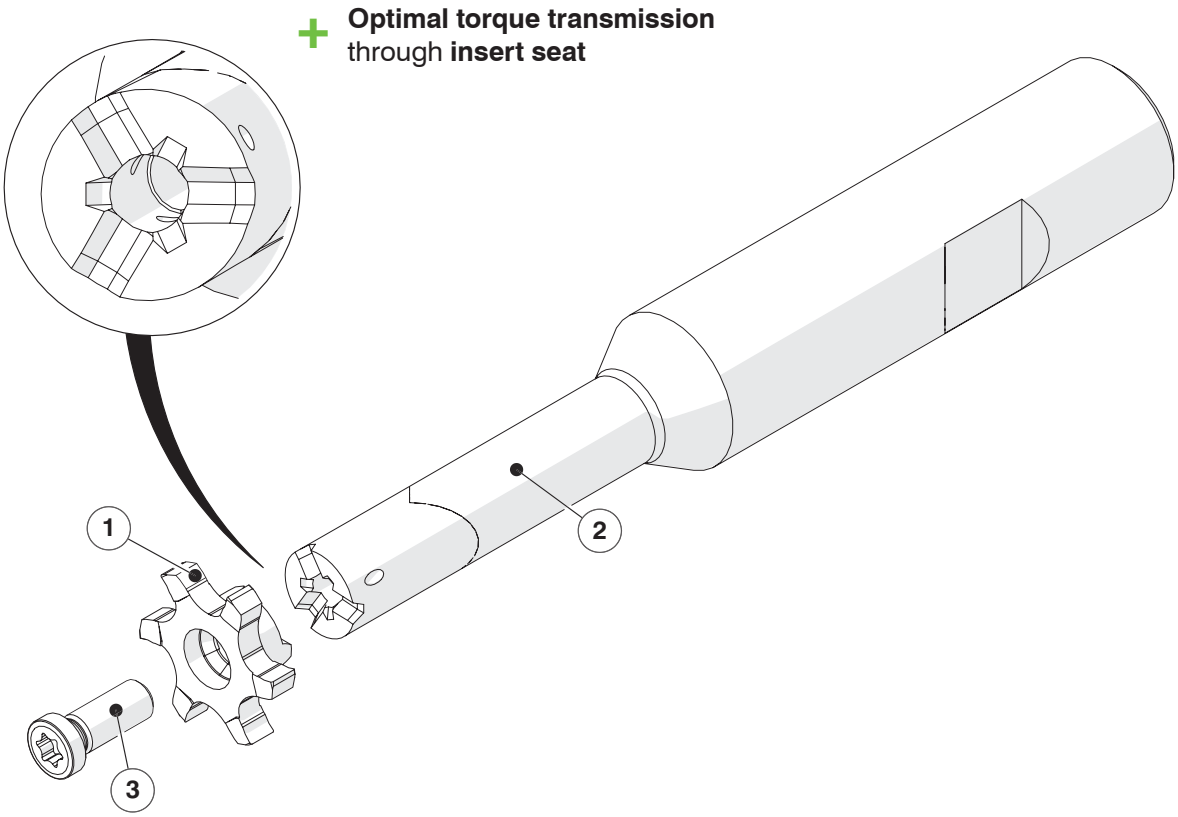
Info

The tool systems simmill PX / SX / UX / VX

For bore diameter (mm)

... 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 ...

simmill PX SIMTEK Milling Tools Type PX
simmill SX SIMTEK Milling Tools Type SX
simmill UX SIMTEK Milling Tools Type UX
simmill VX SIMTEK Milling Tools Type VX



1 **High performance micro grain carbide milling inserts**
available with a wide range of **coatings for every application**

2 **Milling cutter shanks** made of **carbide** or **steel**, mainly with **through coolant supply**
and **vibration-reducing insert seat**

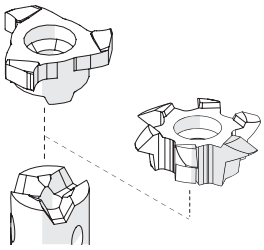
3 Torx screw

Info

The Tool System simmill PX

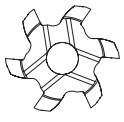
simmill PX
SIMTEK Milling Tools Type PX

+ System of milling cutter shank and indexable carbide milling insert

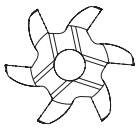


+ For bores between Ø 10,0 (0.394“) and Ø 15,0 mm (0.591“)

+ Three and six edged milling inserts in sizes Ø 10,0 mm (0.394“) (P06 and P10) and Ø 12,0 mm (0.472“) (P12) usable on one milling cutter shank



P06...10



P06...12

P10

P12

+ Wide-spread tool system

As of page

27 Application overview

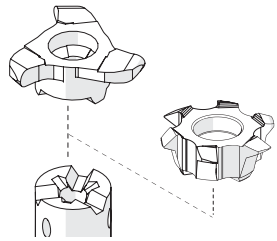
43 All tools

Info

The Tool System simmill SX

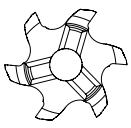
simmill SX
SIMTEK Milling Tools Type SX

+ System of milling cutter shank and indexable carbide milling insert

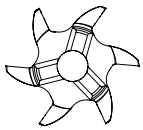


+ For bores between Ø 14,0 (0.551“) and Ø 19,0 mm (0.748“)

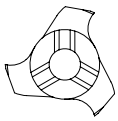
+ Three and six edged milling inserts in sizes Ø 14,0 (0.551“) (S06), Ø 14,0 (0.551“) (S14) and Ø 16,0 (S16) mm (0.630“) usable on one milling cutter shank



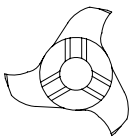
S06...14



S06...16



S14



S16

+ Wide-spread tool system

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27 Application overview

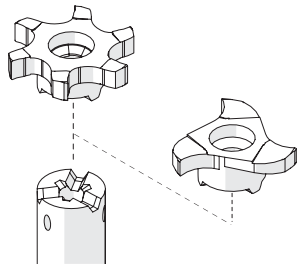
65 All tools

Info

The Tool System simmill UX

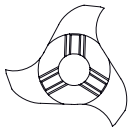
simmill UX
SIMTEK Milling Tools Type UX

+ System of milling cutter shank and indexable carbide milling insert

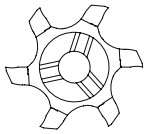


+ For bores between Ø 18,0 (0.709“) and Ø 23,0 mm (0.906“)

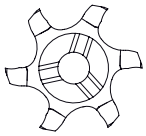
+ Three and six edged milling inserts in sizes Ø 18,0 (0.709“) and Ø 20,0 mm (0.787“) usable on one milling cutter shank



U18 / U20



U06...18



U06...20

+ Wide-spread tool system

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27 Application overview

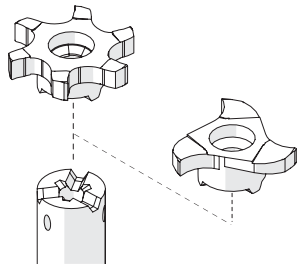
85 All tools

Info

The Tool System simmill VX

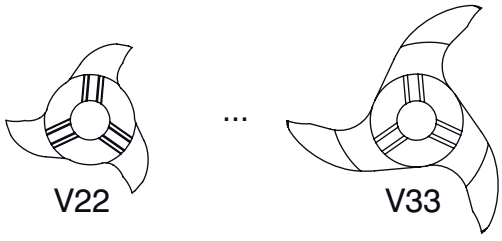
simmill VX
SIMTEK Milling Tools Type VX

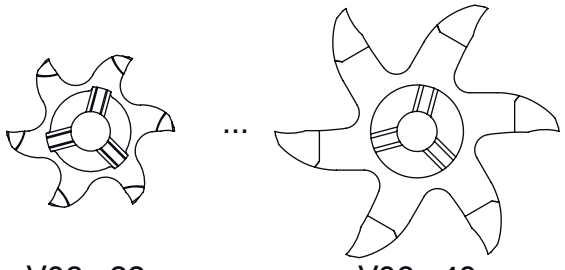
+ System of milling cutter shank and indexable carbide milling insert



+ For bores between Ø 22,0 (0.866“) and Ø 40,0 mm (1.575“)

+ Three and six edged milling inserts in different sizes between Ø 22,0 (0.866“) and Ø 40,0 mm (1.575“)





+ Wide-spread tool system

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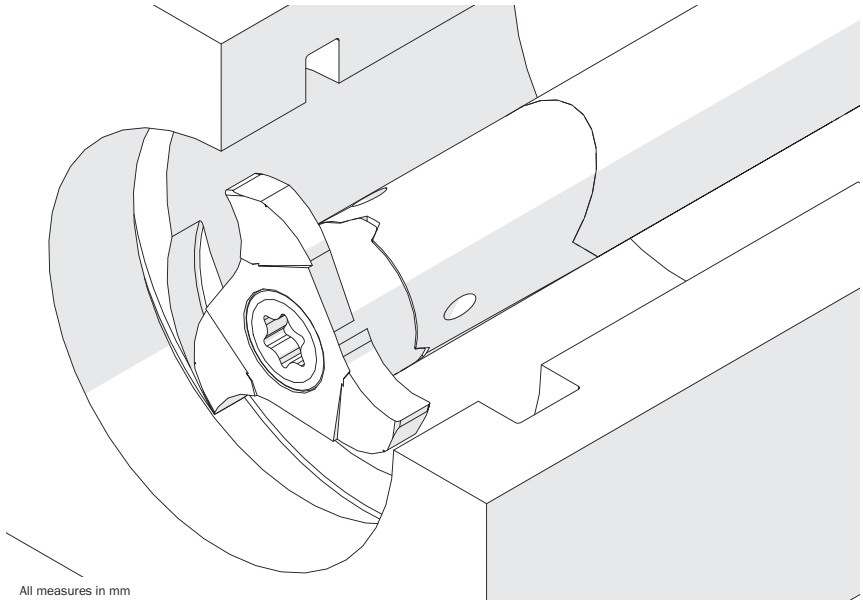
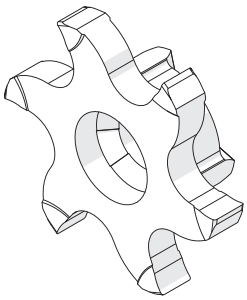
27 Application overview
112 All tools

Standard Tools

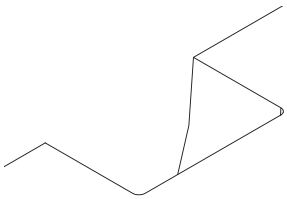
General Groove Milling



All measures in mm



Also available with 6 cutting edges.



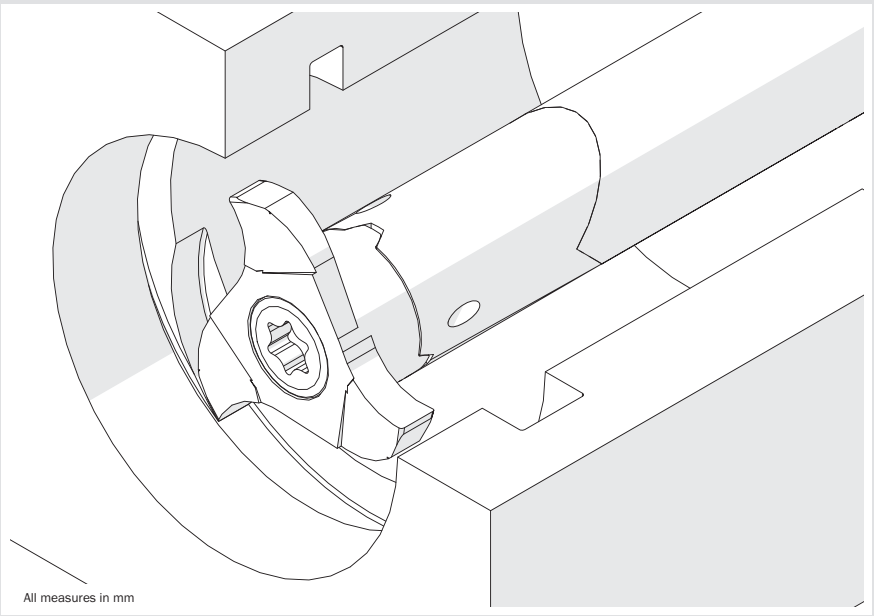
Part number	ØDmin (min. bore)	w	Number of cutting edges	see Page
P10.0100.01 G	10,0	1,0	3	52
P10.0150.02 G	10,0	1,5	3	52
P10.0157.00 G	10,0	1,57	3	52
P10.0200.02 G	10,0	2,0	3	52
P10.0250.02 G	10,0	2,5	3	52
P12.0150.02 G	12,0	1,5	3	53
P06.0150.02.12 G	12,0	1,5	6	54
P06.0150.020.12 GY	12,0	1,5	6	55
P12.0157.02 G	12,0	1,57	3	53
P12.0200.02 G	12,0	2,0	3	53
P06.0200.02.12 G	12,0	2,0	6	54
P06.0200.020.12 GY	12,0	2,0	6	55
P12.0250.02 G	12,0	2,5	3	53
P12.0300.02 G	12,0	3,0	3	53
S14.0100.01 G	14,0	1,0	3	71
S14.0100.00 G	14,0	1,04	3	71
S14.0117.00 G	14,0	1,17	3	71
S14.0142.00 G	14,0	1,42	3	71
S14.0150.02 G	14,0	1,5	3	71
S14.0157.02 G	14,0	1,57	3	71
S14.0200.02 G	14,0	2,0	3	71
S14.0239.02 G	14,0	2,39	3	71
S14.0250.02 G	14,0	2,5	3	71
S16.0117.00 G	16,0	1,17	3	72
S16.0142.00 G	16,0	1,42	3	72
S16.0150.02 G	16,0	1,5	3	72
S06.0150.02.16 G	16,0	1,5	6	73
S06.0150.020.16 GY	16,0	1,5	6	75
S16.0157.02 G	16,0	1,57	3	72
S16.0200.02 G	16,0	2,0	3	72
S06.0200.02.16 G	16,0	2,0	6	73
S06.0200.020.16 GY	16,0	2,0	6	75
S16.0239.02 G	16,0	2,39	3	72
S16.0250.02 G	16,0	2,5	3	72
S06.0250.02.16 G	16,0	2,5	6	73
S06.0250.020.16 GY	16,0	2,5	6	75
S16.0318.02 G	16,0	3,18	3	72
U18.0117.00 G	18,0	1,17	3	96
U18.0142.00 G	18,0	1,42	3	96
U18.0150.02 G	18,0	1,5	3	96
U06.0150.010.18 G	18,0	1,5	6	94

Part number	ØDmin (min. bore)	w	Number of cutting edges	see Page
U18.0157.02 G	18,0	1,55	3	96
U18.0200.02 G	18,0	2,0	3	96
U06.0200.020.18 G	18,0	2,0	6	94
U06.0200.020.18 GY	18,0	2,0	6	98
U18.0239.02 G	18,0	2,39	3	96
U18.0250.02 G	18,0	2,5	3	96
U06.0250.020.18 G	18,0	2,5	6	94
U06.0250.020.18 GY	18,0	2,5	6	98
U18.0300.02 G	18,0	3,0	3	96
U06.0300.020.18 G	18,0	3,0	6	94
U06.0300.020.18 GY	18,0	3,0	6	98
U18.0318.02 G	18,0	3,18	3	96
U18.0400.02 G	18,0	4,0	3	96
U20.0150.02 G	20,0	1,5	3	97
U06.0150.010.20 G	20,0	1,5	6	95
U20.0200.02 G	20,0	2,0	3	97
U06.0200.020.20 G	20,0	2,0	6	95
U06.0200.020.20 GY	20,0	2,0	6	99
U20.0250.02 G	20,0	2,5	3	97
U06.0250.020.20 G	20,0	2,5	6	95
U06.0250.020.20 GY	20,0	2,5	6	99
U06.0300.020.20 G	20,0	3,0	6	95
U06.0300.020.20 GY	20,0	3,0	6	99
V22.0100.01 G	22,0	1,0	3	124
V06.0100.010.22 G	22,0	1,0	6	123
V22.0150.02 G	22,0	1,5	3	124
V06.0150.010.22 G	22,0	1,5	6	123
V22.0157.02 G	22,0	1,57	3	124
V22.0200.02 G	22,0	2,0	3	124
V06.0200.020.22 G	22,0	2,0	6	123
V06.0200.020.22 GY	22,0	2,0	6	125
V22.0239.02 G	22,0	2,39	3	124
V22.0250.02 G	22,0	2,5	3	124
V06.0250.020.22 G	22,0	2,5	6	123
V06.0250.020.22 GY	22,0	2,5	6	125
V22.0300.02 G	22,0	3,0	3	124
V06.0300.020.22 G	22,0	3,0	6	123
V06.0300.020.22 GY	22,0	3,0	6	125
V22.0318.02 G	22,0	3,18	3	124
V22.0318.04 G	22,0	3,18	3	124
V22.0350.02 G	22,0	3,5	3	124

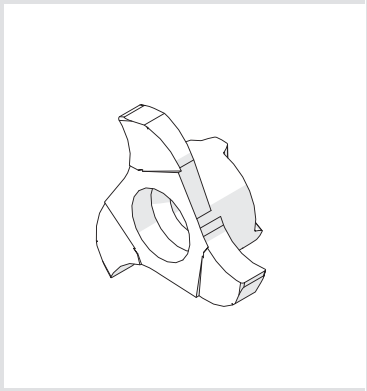
Part number	ØDmin (min. bore)	w	Number of cutting edges	see Page
V22.0356.02 G	22,0	3,56	3	124
V22.0400.02 G	22,0	4,0	3	124
V22.0400.04 G	22,0	4,0	3	124
V06.0400.020.22 G	22,0	4,0	6	123
V06.0400.020.22 GY	22,0	4,0	6	125
V22.0437.02 G	22,0	4,37	3	124
V22.0437.04 G	22,0	4,37	3	124
V22.0475.02 G	22,0	4,75	3	124
V22.0500.02 G	22,0	5,0	3	124
V22.0635.02 G	22,0	6,35	3	124
V25.0200.02 G	25,0	2,0	3	142
V25.0239.02 G	25,0	2,39	3	142
V25.0250.02 G	25,0	2,5	3	142
V06.0250.020.25 GY	25,0	2,5	6	126
V06.0265.020.25 GY	25,0	2,76	6	126
V25.0300.02 G	25,0	3,0	3	142
V06.0300.020.25 GY	25,0	3,0	6	126
V25.0318.02 G	25,0	3,18	3	142
V25.0350.02 G	25,0	3,5	3	142
V25.0400.02 G	25,0	4,0	3	142
V06.0400.020.25 GY	25,0	4,0	6	126
V25.0475.02 G	25,0	4,75	3	142
V25.0500.02 G	25,0	5,0	3	142
V06.0500.020.25 GY	25,0	5,0	6	126
V06.0600.020.25 GY	25,0	6,0	6	126
V06.0100.010.28 G	28,0	1,0	6	146
V06.0120.010.28 G	28,0	1,2	6	146
V28.0150.02 G	28,0	1,5	3	143
V06.0150.010.28 G	28,0	1,5	6	146
V06.0160.010.28 GY	28,0	1,6	6	126
V28.0200.02 G	28,0	2,0	3	143
V06.0200.020.28 G	28,0	2,0	6	146
V06.0200.020.28 GY	28,0	2,0	6	126
V28.0250.02 G	28,0	2,5	3	143
V06.0250.020.28 G	28,0	2,5	6	146
V06.0250.020.28 GY	28,0	2,5	6	126
V06.0265.020.28 GY	28,0	2,76	6	126
V28.0300.02 G	28,0	3,0	3	143
V06.0300.020.28 G	28,0	3,0	6	146
V06.0300.020.28 GY	28,0	3,0	6	126
V28.0350.02 G	28,0	3,5	3	143

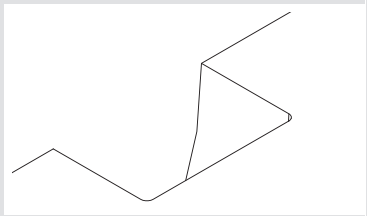
Standard Tools

General Groove Milling in light alloys



All measures in mm

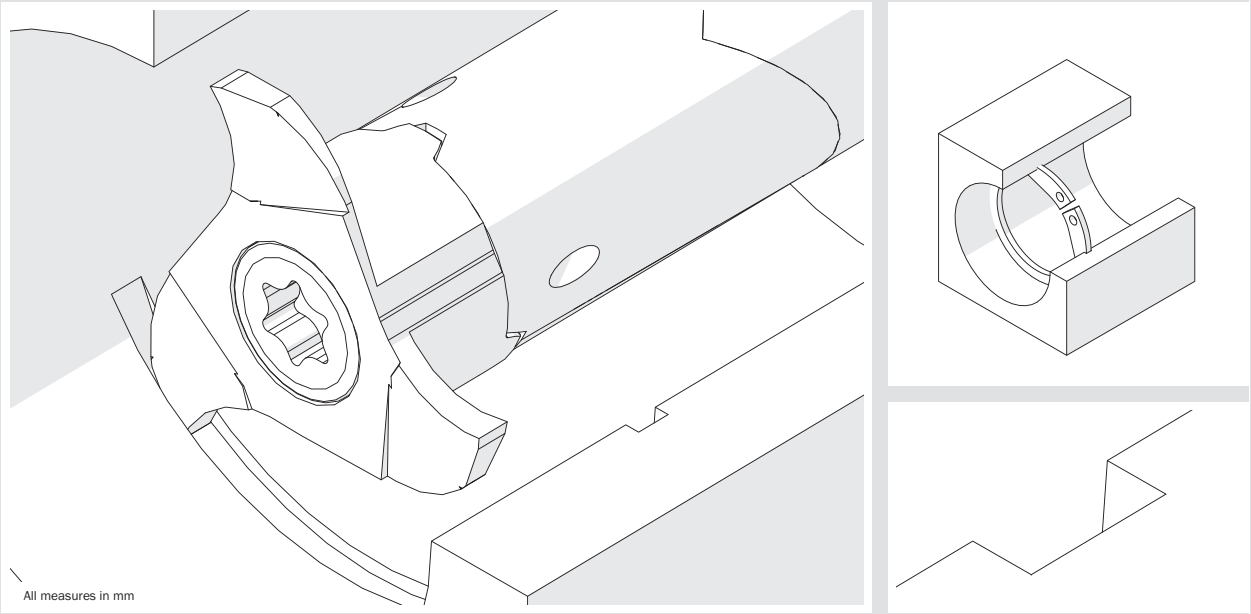




Part number	ØDmin (min. bore)	w	Number of cutting edges	see Page
P12.0150.42 C	12,0	1,5	3	56
P12.0200.42 C	12,0	2,0	3	56
P12.0250.42 C	12,0	2,5	3	56
S16.0100.40 C	16,0	1,04	3	76
S16.0200.42 C	16,0	2,0	3	76
S16.0250.42 C	16,0	2,5	3	76
U18.0150.42 C	18,0	1,5	3	100
U18.0200.42 C	18,0	2,0	3	100
U18.0250.42 C	18,0	2,5	3	100
U18.0300.42 C	18,0	3,0	3	100
V22.0150.42 C	22,0	1,5	3	129
V22.0200.42 C	22,0	2,0	3	129
V22.0250.42 C	22,0	2,5	3	129
V22.0300.42 C	22,0	3,0	3	129
V22.0400.42 C	22,0	4,0	3	129
V28.0200.42 C	28,0	2,0	3	148
V28.0250.42 C	28,0	2,5	3	148
V28.0300.42 C	28,0	3,0	3	148
V28.0350.42 C	28,0	3,5	3	148
V28.0400.42 C	28,0	4,0	3	148
V32.0200.42 C	32,0	2,0	3	152
V32.0250.42 C	32,0	2,5	3	152
V32.0300.42 C	32,0	3,0	3	152
V32.0600.42 C	32,0	6,0	3	152
V33.0110.42.10 C	33,0	1,1	3	153
V33.0120.42.10 C	33,0	1,2	3	153
V33.0132.42.10 C	33,0	1,32	3	153
V33.0150.42.10 C	33,0	1,5	3	153
V33.0160.42.10 C	33,0	1,6	3	153
V33.0170.42.10 C	33,0	1,7	3	153
V33.0200.42.10 C	33,0	2,0	3	153
V33.0250.42.10 C	33,0	2,5	3	153
V33.0170.42.12 C	33,9	1,7	3	153
V33.0200.42.12 C	33,9	2,0	3	153
V33.0250.42.12 C	33,9	2,5	3	153

Standard Tools

Circlip Ring Groove Milling, internal

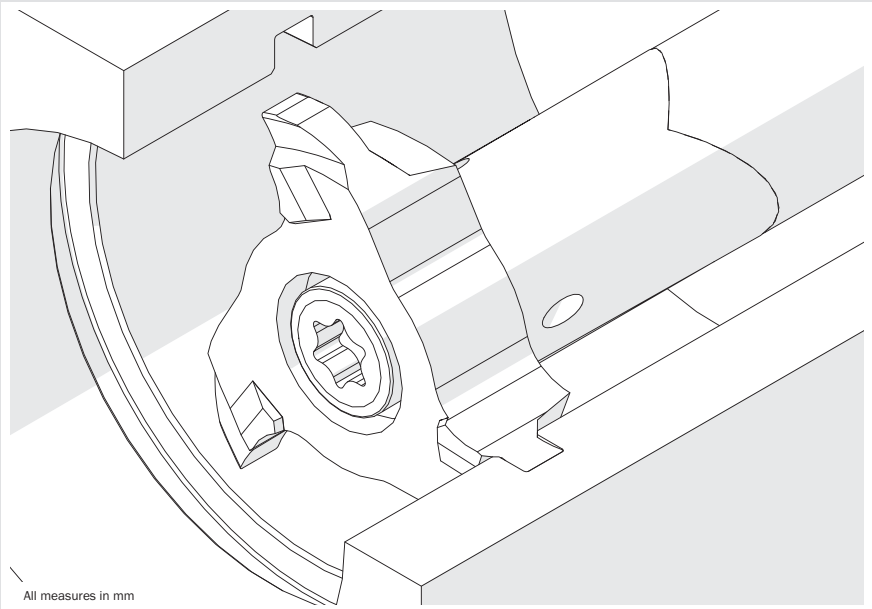


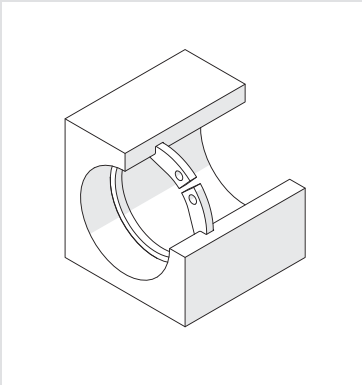
Part number	ØDmin (min. bore)	Nominal width of groove	Number of cutting edges	see Page
P10.0070.00 Z	10,0	0,7	3	49
P10.0080.00 Z	10,0	0,8	3	49
P10.0090.00 Z	10,0	0,9	3	49
P10.0100.00 G	10,0	1,0	3	49
P10.0110.00 G	10,0	1,1	3	49
P10.0130.01 G	10,0	1,3	3	49
P10.0160.01 G	10,0	1,6	3	49
P12.0110.00 G	12,0	1,1	3	50
P12.0110.40 C	12,0	1,1	3	51
P12.0130.01 G	12,0	1,3	3	50
P12.0130.41 C	12,0	1,3	3	51
P12.0160.01 G	12,0	1,6	3	50
P12.0160.41 C	12,0	1,6	3	51
S16.0160.01 G	16,0	1,6	3	74
U18.0070.00 Z	18,0	0,7	3	92
U18.0080.00 Z	18,0	0,8	3	92
U18.0090.00 Z	18,0	0,9	3	92
U18.0110.00 G	18,0	1,1	3	92
U18.0110.40 C	18,0	1,1	3	93
U06.0110.000.18 G	18,0	1,1	6	91
U18.0130.01 G	18,0	1,3	3	92
U18.0130.41 C	18,0	1,3	3	93
U06.0130.000.18 G	18,0	1,3	6	91
U18.0160.01 G	18,0	1,6	3	92
U18.0160.41 C	18,0	1,6	3	93
U06.0160.000.18 G	18,0	1,6	6	91
V22.0070.00 Z	22,0	0,7	3	121
V22.0080.00 Z	22,0	0,8	3	121
V22.0090.00 Z	22,0	0,9	3	121
V22.0100.00 Z	22,0	1,0	3	121
V22.0110.00 Z	22,0	1,1	3	121
V22.0130.01 G	22,0	1,3	3	121
V22.0130.41 C	22,0	1,3	3	122
V22.0160.01 G	22,0	1,6	3	121
V22.0160.41 C	22,0	1,6	3	122
V22.0185.02 G	22,0	1,85	3	121
V22.0185.42 C	22,0	1,85	3	122
V22.0215.02 G	22,0	2,15	3	121
V22.0215.42 C	22,0	2,15	3	122
V22.0265.02 G	22,0	2,65	3	121
V22.0265.42 C	22,0	2,65	3	122

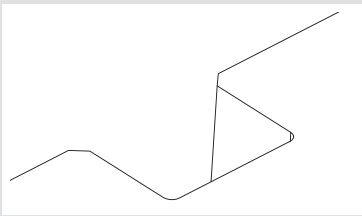
Part number	ØDmin (min. bore)	Nominal width of groove	Number of cutting edges	see Page
V22.0315.02 G	22,0	3,15	3	121
V22.0315.42 C	22,0	3,15	3	122
V22.0415.02 G	22,0	4,15	3	121
V22.0415.42 C	22,0	4,15	3	122
V22.0515.02 G	22,0	5,15	3	121
V22.0515.04 G	22,0	5,15	3	121
V22.0515.42 C	22,0	5,15	3	122

Standard Tools

Circlip Ring Groove Milling with chamfering



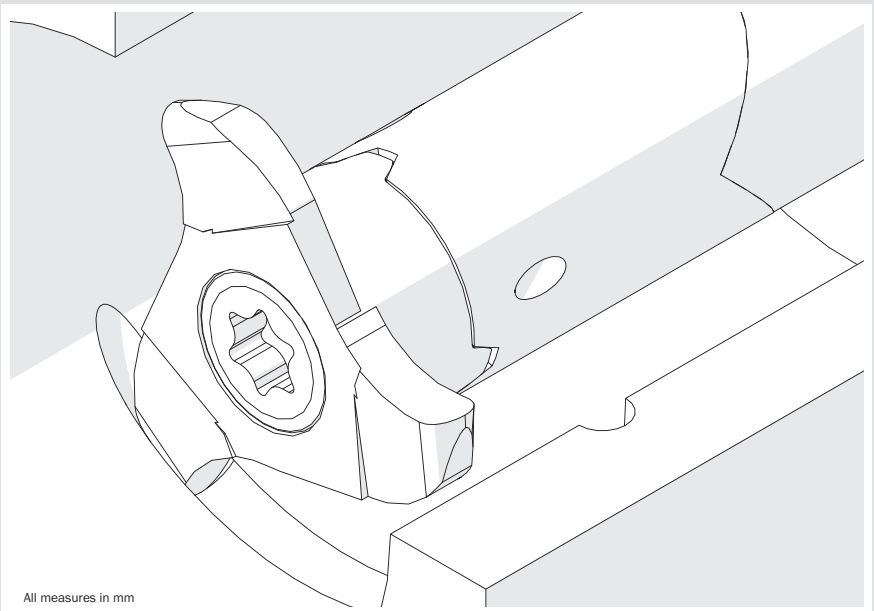




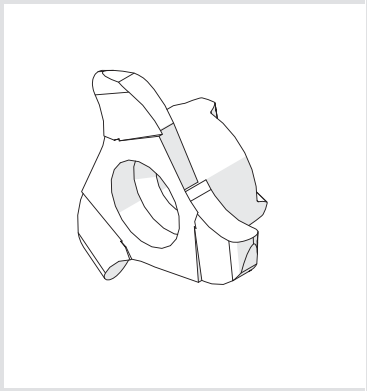
Part number	ØDmin (min. bore)	Nominal width of groove	Number of cutting edges	see Page
V22.1105.30 F	22,0	1,1	3	128
V22.1307.30 F	22,0	1,3	3	128
V22.1308.30 F	22,0	1,3	3	128
V22.1609.35 F	22,0	1,6	3	128
V22.1610.35 F	22,0	1,6	3	128
V22.1812.35 F	22,0	1,85	3	128
V22.2215.35 F	22,0	2,15	3	128
V22.2616.45 F	22,0	2,65	3	128
V22.2617.45 F	22,0	2,65	3	128
V22.3118.45 F	22,0	3,15	3	128
V22.4120.55 F	22,0	4,15	3	128
V22.4125.55 F	22,0	4,15	3	128

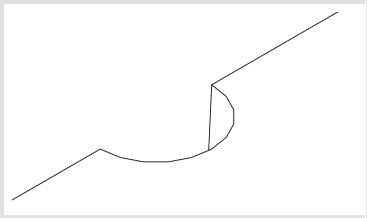
Standard Tools

Full Radius Groove Milling



All measures in mm

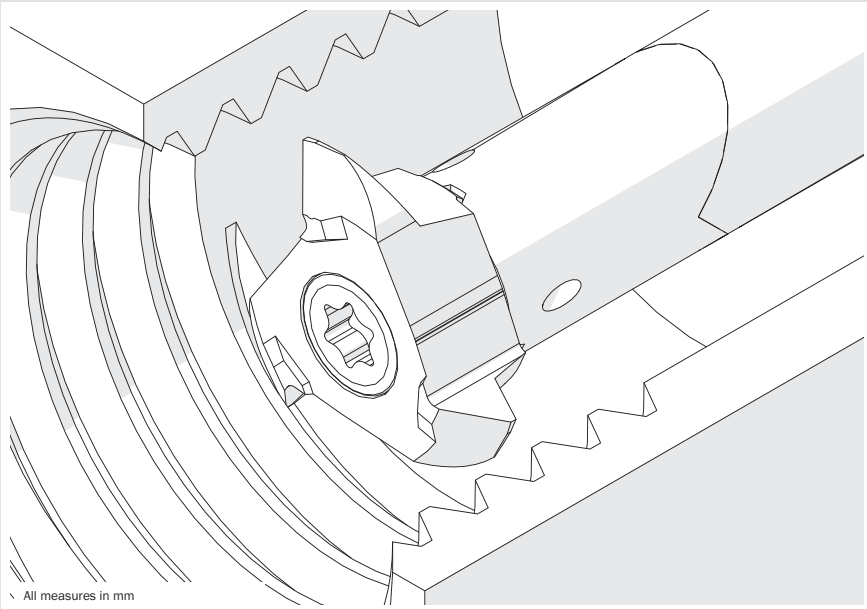




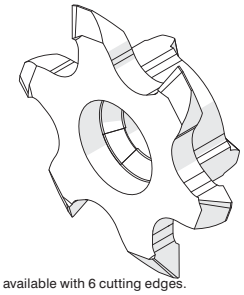
Part number	ØDmin (min. bore)	R	Number of cutting edges	see Page
P12.0031.62 V	12,0	0,787	3	57
P12.0011.22 V	12,0	1,1	3	57
P12.0047.94 V	12,0	1,194	3	57
S16.0011.22 V	16,0	1,1	3	77
U18.0010.20 V	18,0	1,0	3	101
U18.0011.22 V	18,0	1,1	3	101
U18.0012.24 V	18,0	1,194	3	101
U18.0015.30 V	18,0	1,5	3	101
V22.0005.10 V	22,0	0,5	3	130
V22.0008.16 V	22,0	0,8	3	130
V22.0010.20 V	22,0	1,0	3	130
V22.0012.24 V	22,0	1,2	3	130
V22.0014.28 V	22,0	1,4	3	130
V22.0015.30 V	22,0	1,5	3	130
V22.0062.12 V	22,0	1,588	3	130
V22.0020.40 V	22,0	2,0	3	130
V22.0022.44 V	22,0	2,2	3	130
V22.0024.48 V	22,0	2,381	3	130
V22.0025.50 V	22,0	2,5	3	130
V22.0032.64 V	22,0	3,2	3	130

Standard Tools

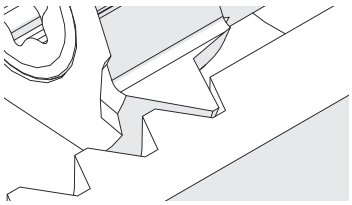
Thread milling, metric ISO-Thread, partial profile



All measures in mm



Also available with 6 cutting edges.

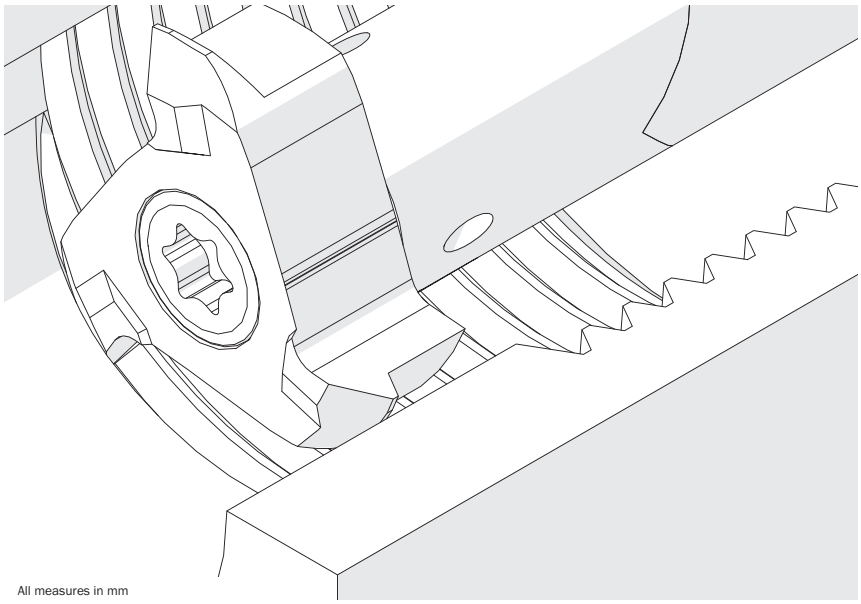


Part number	As of thread size	Pitch (as of)	Pitch (up to)	see Page
P06.0510.01.10 M	M12	1,0	1,75	58
P12.0510.01 M	M14	1,0	1,75	59
P06.0720.01.10 M	M14	1,0	2,0	58
P06.0720.01.12 M	M14	1,0	2,0	58
P12.0720.01 M	M14	1,0	2,0	59
S06.0510.01.12 M	M16	1,0	1,75	78
S06.0720.01.12 M	M16	1,0	2,0	78
P06.0815.01.11 M	M16	1,5	2,75	58
P12.0815.01 M	M16	1,5	2,75	59
P06.2530.01.11 M	M16	2,0	3,0	58
P12.2530.01 M	M16	2,0	3,0	59
S16.0510.01 M	M18	1,0	1,75	79
S16.0720.01 M	M18	1,0	2,0	79
S06.0815.01.13 M	M18	1,5	2,75	78
S06.2530.01.13 M	M18	2,0	3,0	78
S16.0815.01 M	M20	1,5	2,75	79
U18.0510.01 M	M22	1,0	1,75	105
U06.0720.01.18 M	M22	1,0	2,0	104
U18.0720.01 M	M22	1,0	2,0	105
U18.0815.01 M	M22	1,5	2,75	105
S16.2530.01 M	M22	2,5	3,0	79
U18.1325.01 M	M24	2,0	3,0	105
U18.1020.01 M	M24	2,0	3,75	105
U06.2535.01.18 M	M24	2,0	4,0	104
U18.2535.01 M	M24	2,0	4,0	105
U18.1630.01 M	M24	2,5	5,0	105
U18.1835.01 M	M24	3,0	5,5	105
V06.0720.01.22 M	M27	1,0	2,0	133
V22.0720.01 M	M27	1,0	2,0	134
V22.0815.01 M	M27	1,5	2,75	134
V22.1020.01 M	M27	2,0	3,75	134
V06.2545.01.22 M	M27	2,0	4,5	133
V22.2545.01 M	M27	2,5	4,5	134
V22.1630.01 M	M30	2,5	5,0	134
V22.2140.01 M	M30	3,5	6,0	134
V22.2445.01 M	M30	3,5	6,5	134
V28.0720.01 M	M33	1,0	2,0	150
V06.1525.01.28 M	M33	1,5	2,5	149
V28.1525.01 M	M33	1,5	2,5	150
V06.3050.01.28 M	M36	2,5	5,0	149
V28.3050.01 M	M36	2,5	5,0	150

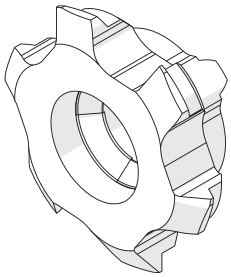
Part number	As of thread size	Pitch (as of)	Pitch (up to)	see Page
V28.5060.01 M	M39	4,0	6,0	150

Standard Tools

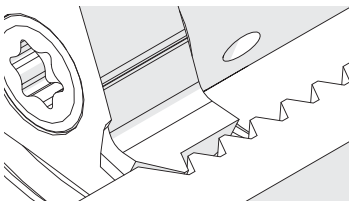
Thread milling, metric ISO-Thread, full profile



All measures in mm



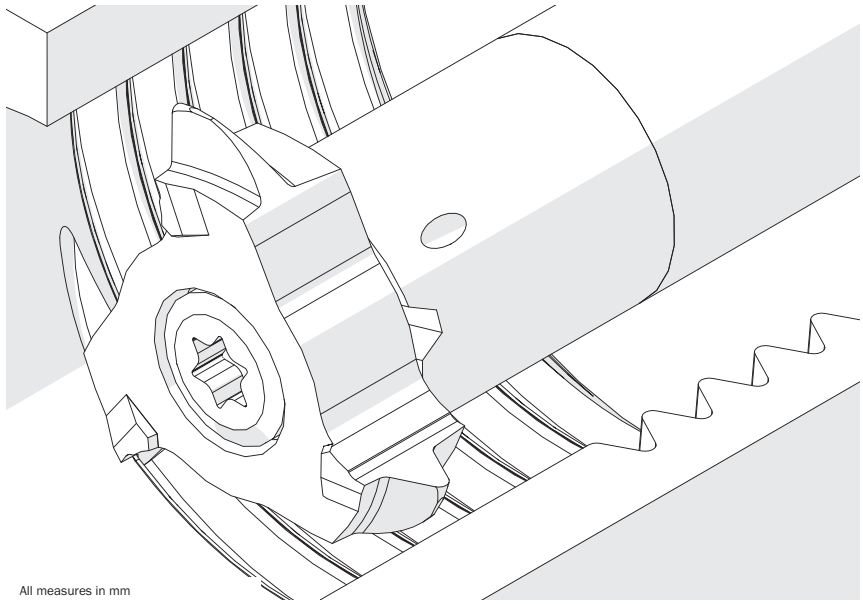
Also available with 6 cutting edges.



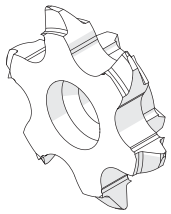
Part number	As of thread size	Pitch (as of)	Number of cutting edges	see Page
P10.0407.02 M	M12	0,75	3	60
P10.0510.02 M	M12	1,0	3	60
P10.0815.02 M	M14	1,5	3	60
P10.0917.02 M	M14	1,75	3	60
P10.1020.02 M	M14	2,0	3	60
S14.0510.02 M	M16	1,0	3	80
P10.1325.02 M	M16	2,5	3	60
S14.0815.02 M	M18	1,5	3	80
S14.0917.02 M	M18	1,75	3	80
S14.1020.02 M	M18	2,0	3	80
S14.1325.02 M	M20	2,5	3	80
U18.0815.02 M	M22	1,5	3	103
U06.0815.02.18 M	M22	1,5	6	102
U18.0917.02 M	M22	1,75	3	103
U18.1020.02 M	M22	2,0	3	103
U06.1020.02.18 M	M22	2,0	6	102
S14.1630.02 M	M22	3,0	3	80
V22.0815.02 M	M24	1,5	3	132
V06.0815.02.22 M	M24	1,5	6	131
U18.1325.02 M	M24	2,5	3	103
V22.0917.02 M	M27	1,75	3	132
V06.0917.02.22 M	M27	1,75	6	131
V22.1020.02 M	M27	2,0	3	132
V06.1020.02.22 M	M27	2,0	6	131
U18.1630.02 M	M27	3,0	3	103
U06.1630.02.18 M	M27	3,0	6	102
U18.1835.02 M	M27	3,5	3	103
U06.1835.02.18 M	M27	3,5	6	102
V22.1630.02 M	M30	3,0	3	132
V06.1630.02.22 M	M30	3,0	6	131
V22.1835.02 M	M30	3,5	3	132
V22.2140.02 M	M33	4,0	3	132
V06.2140.02.22 M	M33	4,0	6	131
V22.2445.02 M	M33	4,5	3	132

Standard Tools

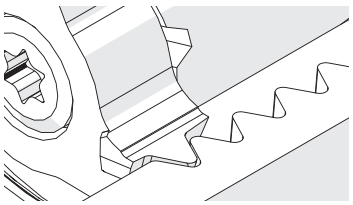
Whitworth Thread, full profile



All measures in mm



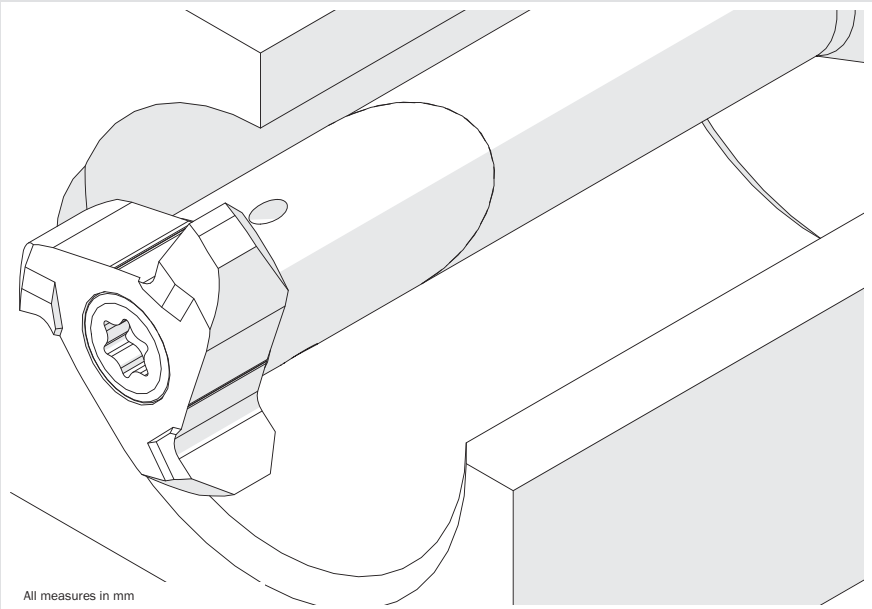
Also available with 6 cutting edges.



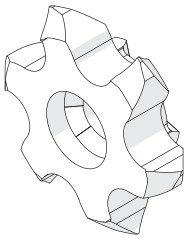
Part number	Threads/Inch	Number of cutting edges	see Page
P12.1423.11 M	11	3	62
S16.1423.11 M	11	3	82
U18.BS11.02 M	11	3	108
V22.5511.02 M	11	3	137
S06.1423.11.14 M	11	6	81
V06.5511.02.22 M	11	6	136
P12.1118.14 M	14	3	62
S16.1118.14 M	14	3	82
U18.BS14.02 M	14	3	108
S06.1118.14.14 M	14	6	81
P10.0813.19 M	19	3	62
P12.0813.19 M	19	3	62
U18.BS19.02 M	19	3	108
V22.5506.02 M	6	3	137
V06.5506.02.22 M	6	6	136
V22.5508.02 M	8	3	137
V06.5508.02.22 M	8	6	136

Standard Tools

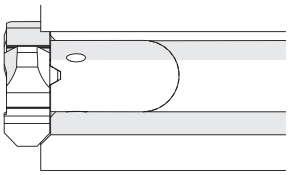
Chamfering



All measures in mm



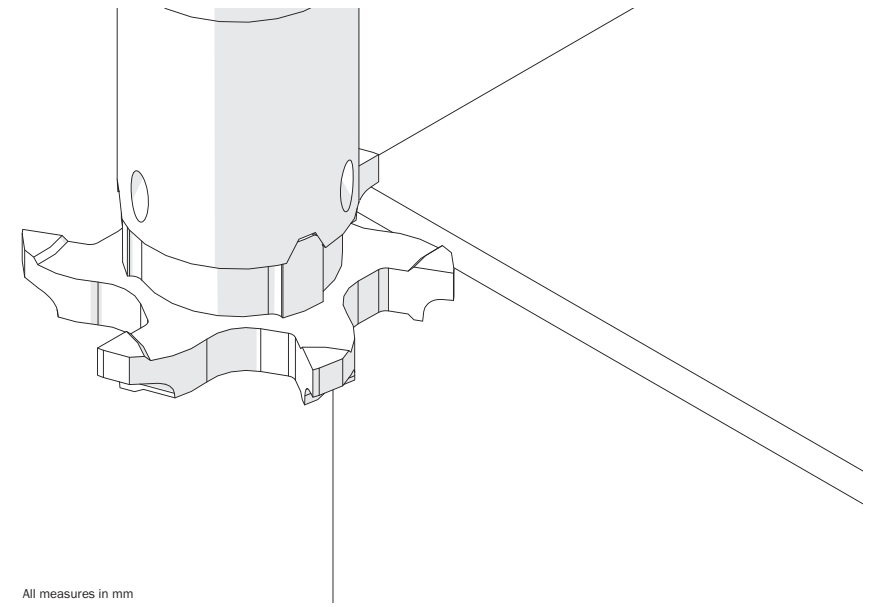
Also available with 6 cutting edges.



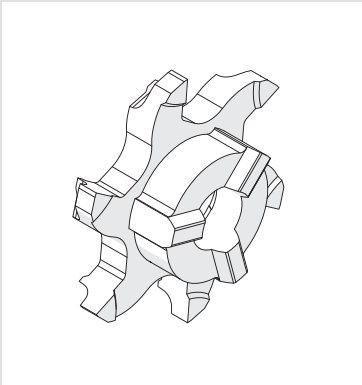
Part number	ØDmin (min. bore)	Number of cutting edges	see Page
P09.4545.02 F	9,6	3	64
P10.4545.35 F	10,0	3	64
P06.1515.02.10 F	10,0	6	63
P06.2020.02.10 F	10,0	6	63
P06.3030.02.10 F	10,0	6	63
P06.4545.02.10 F	10,0	6	63
P12.4545.35 F	12,0	3	64
S06.1515.02.14 F	14,0	6	83
S06.2020.02.14 F	14,0	6	83
S06.3030.02.14 F	14,0	6	83
S06.4545.02.14 F	14,0	6	83
U15.4545.58 F	15,0	3	109
U06.4545.050.15 F	15,0	6	110
S16.4545.02 F	16,0	3	84
S16.4545.45 F	16,0	3	84
U18.4545.20 F	18,0	3	109
U18.4545.58 F	18,0	3	109
U06.3030.020.18 F	18,0	6	110
U06.4545.020.18 F	18,0	6	110
V22.4545.58 F	22,0	3	138
V22.4545.94 F	22,0	3	138
V06.4545.020.22 F	22,0	6	139
V06.4545.020.28 F	28,0	6	139

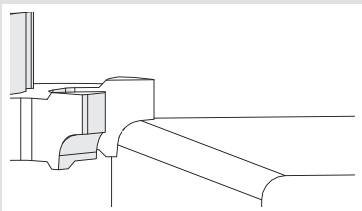
Standard Tools

Corner Rounding (Deburing)



All measures in mm

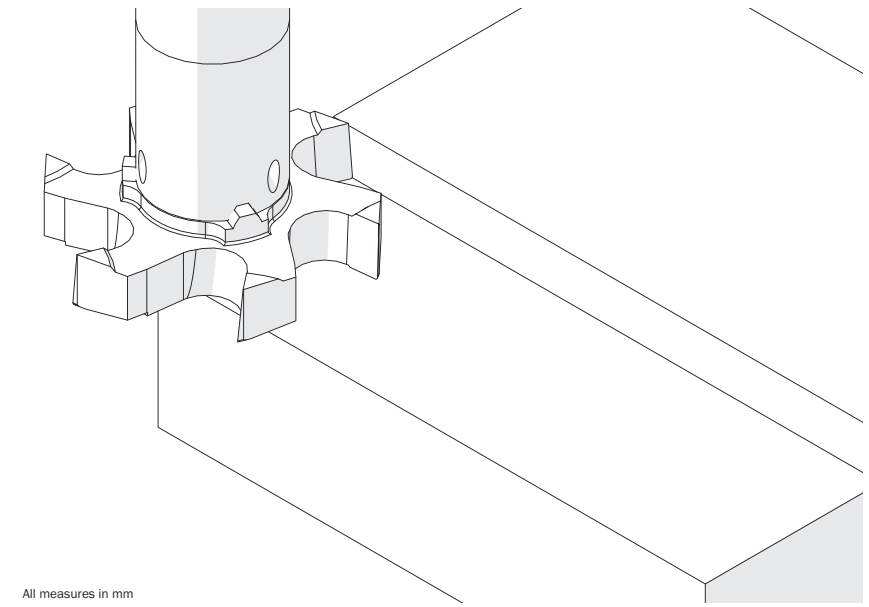




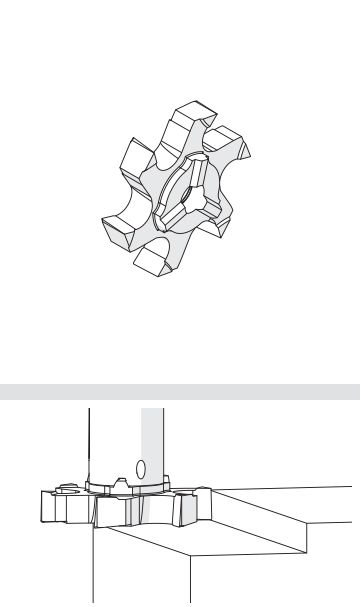
Part number	R	Number of cutting edges	see Page
V06.R020.22 F	0,2	6	140
V06.R050.22 F	0,5	6	140
V06.R060.22 F	0,6	6	140
V06.R080.22 F	0,8	6	140
V06.R100.22 F	1,0	6	140
V06.R125.22 F	1,25	6	140
V06.R150.22 F	1,5	6	140
V06.R200.22 F	2,0	6	140
V06.R225.22 F	2,25	6	140
V06.R250.22 F	2,5	6	140
V06.R300.22 F	3,0	6	140

Standard Tools

Face Milling



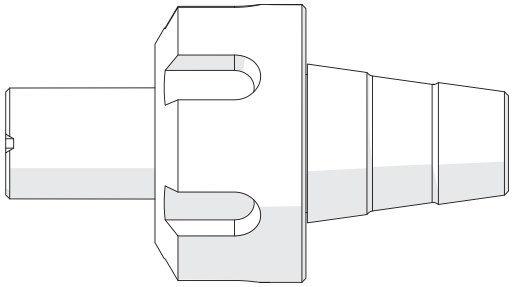
All measures in mm

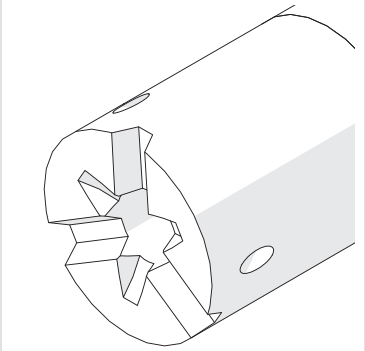


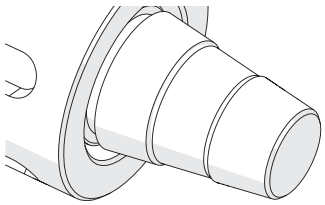
Part number	ØDS	Number of cutting edges	see Page
U06.PL55.020.18 Y	17,7	6	111
U06.ST40.020.18 Y	17,7	6	111
V06.PL50.020.20 Y	19,7	6	141
V06.ST40.020.22 Y	21,7	6	141
V06.PL50.020.28 Y	27,7	6	141

Standard Tools

Milling cutter shank, for collet chucks (DIN 6499)





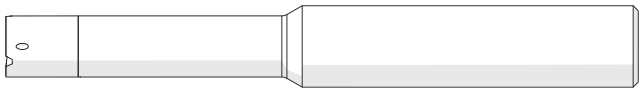


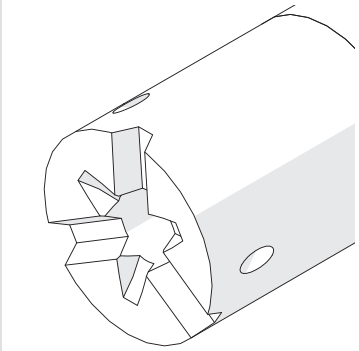
All measures in mm

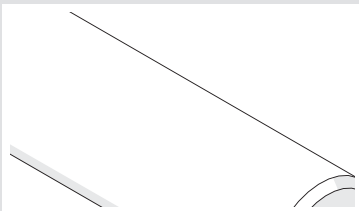
Part number	For collet chuck	see Page
P10.ER11.06.16	ER11	48
P10.ER11.06.16.B	ER11	48
S14.ER11.08.16	ER11	70
S14.ER11.08.16.B	ER11	70
U18.ER11.09.22	ER11	90
U18.ER11.09.22.B	ER11	90
S14.ER16.08.22	ER16	70
S14.ER16.08.22.B	ER16	70
S14.ER16.08.22.C	ER16	70
U18.ER16.09.22	ER16	90
U18.ER16.09.22.B	ER16	90
U18.ER16.09.22.C	ER16	90
V22.ER16.12.30	ER16	119
V22.ER16.12.30.B	ER16	119
V22.ER16.12.30.C	ER16	119
S14.ER20.08.22	ER20	70
S14.ER20.08.22.B	ER20	70
U18.ER20.09.22	ER20	90
U18.ER20.09.22.B	ER20	90
V22.ER20.12.30	ER20	119
V22.ER20.12.30.B	ER20	119
V28.ER20.14.35	ER20	119
V28.ER20.14.35.B	ER20	119
U18.ER25.09.22	ER25	90
U18.ER25.09.22.B	ER25	90
V22.ER25.12.30	ER25	119
V22.ER25.12.30.B	ER25	119
V22.ER25.14.19	ER25	119
V22.ER25.14.19.B	ER25	119
V28.ER25.14.35	ER25	119
V28.ER25.14.35.B	ER25	119
V22.ER32.12.30	ER32	119
V22.ER32.14.19	ER32	119
V28.ER32.14.35	ER32	119

Standard Tools

Solid Carbide Milling Cutter Shank, cylindrical (DIN 6535 HA)







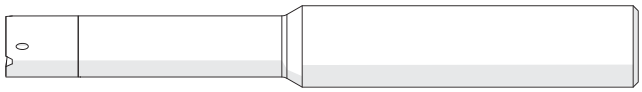
All measures in mm

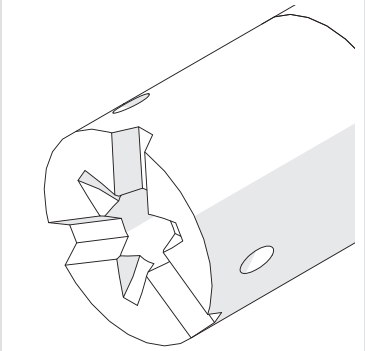
Part number	ØDh6	see Page
P10.1206.21 A HM	12,0	44
P10.1206.30 A HM	12,0	44
P10.1206.42 A HM	12,0	44
P10.1207.30 A HM	12,0	44
S14.1208.29 A HM	12,0	66
S14.1208.42 A HM	12,0	66
S14.1208.56 A HM	12,0	66
S14.1209.42 A HM	12,0	66
U18.1209.32 A HM	12,0	86
U18.1209.45 A HM	12,0	86
U18.1209.64 A HM	12,0	86
V22.1212.42 A HM	12,0	113
V22.1212.60 A HM	12,0	113
P10.0.500.06.21 A HM	12,7	44
P10.0.500.06.30 A HM	12,7	44
P10.0.500.06.42 A HM	12,7	44
P10.0.500.07.30 A HM	12,7	44
S14.0.500.08.29 A HM	12,7	66
S14.0.500.08.42 A HM	12,7	66
S14.0.500.08.56 A HM	12,7	66
S14.0.500.09.42 A HM	12,7	66
U18.0.500.09.32 A HM	12,7	86
U18.0.500.09.45 A HM	12,7	86
U18.0.500.09.64 A HM	12,7	86
V22.0.500.13.42 A HM	12,7	114
V22.0.500.13.60 A HM	12,7	114
P10.0.625.07.25 A HM	15,875	44
S14.0.625.09.33 A HM	15,875	66
U18.0.625.09.25 A HM	15,875	86
U18.0.625.09.32 A HM	15,875	86
U18.0.625.09.45 A HM	15,875	86
U18.0.625.09.64 A HM	15,875	86
U18.0.625.13.64 A HM	15,875	86
U18.0.625.13.66 A HM	15,875	86
V22.0.625.11.30 A HM	15,875	114
V22.0.625.12.42 A HM	15,875	114
V22.0.625.12.60 A HM	15,875	114
V22.0.625.12.85 A HM	15,875	114
V28.0.625.14.42 A HM	15,875	114
V28.0.625.14.60 A HM	15,875	114
V28.0.625.14.85 A HM	15,875	114

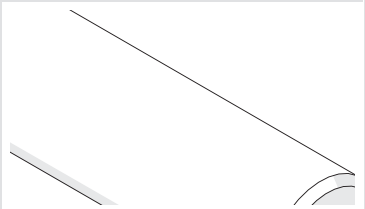
Part number	ØDh6	see Page
P10.1607.25 A HM	16,0	44
S14.1609.33 A HM	16,0	66
U18.1609.25 A HM	16,0	86
U18.1609.32 A HM	16,0	86
U18.1609.45 A HM	16,0	86
U18.1609.64 A HM	16,0	86
U18.1613.64 A HM	16,0	86
U18.1613.66 A HM	16,0	86
V22.1611.30 A HM	16,0	113
V22.1612.42 A HM	16,0	113
V22.1612.60 A HM	16,0	113
V22.1612.85 A HM	16,0	113
V28.1614.42 A HM	16,0	113
V28.1614.60 A HM	16,0	113
V28.1614.85 A HM	16,0	113
V33.1609.33 A HM	16,0	113
V22.2016.45 A HM	20,0	113
V22.2016.65 A HM	20,0	113
V28.2013.35 A HM	20,0	113
V28.2014.85 A HM	20,0	113

Standard Tools

Steel Milling Cutter Shank, cylindrical (DIN 1835 A)





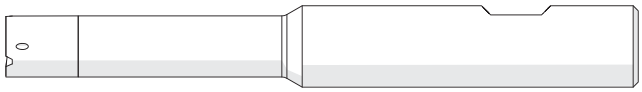


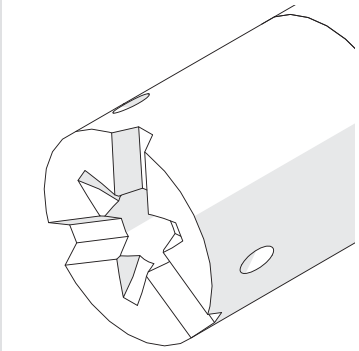
All measures in mm

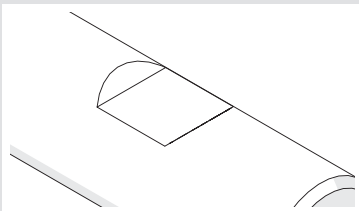
Part number	ØDh6	see Page
P10.1006.15 A ST	10,0	45
S14.1008.17 A ST	10,0	67
U18.1009.17 A ST	10,0	87
V22.1011.10 A ST	10,0	115
U18.1209.18 A ST	12,0	87
S14.1308.25 A ST	13,0	67
U18.1309.25 A ST	13,0	87
V22.1311.25 A ST	13,0	115
V28.1314.10 A ST	13,0	115
P10.0.625.06.12 A ST	15,875	45
S14.0.625.08.16 A ST	15,875	67
U18.0.625.09.18 A ST	15,875	87
V22.0.625.12.24 A ST	15,875	115
P10.1606.12 A ST	16,0	45
S14.1608.16 A ST	16,0	67
U18.1609.18 A ST	16,0	87
V22.1612.24 A ST	16,0	115
V28.0.750.14.35 A ST	19,05	115
V28.2014.35 A ST	20,0	115

Standard Tools

Solid Carbide Milling Cutter Shank, Weldon (DIN 6535 HB)







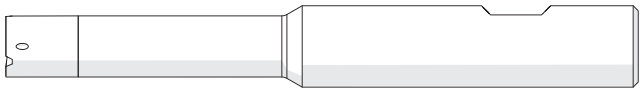
All measures in mm

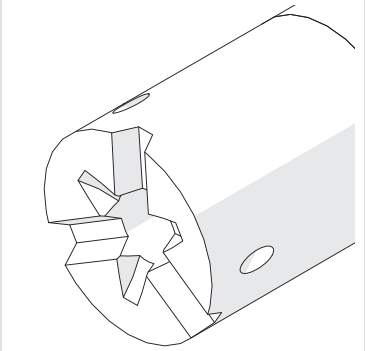
Part number	ØDh6	see Page
P10.1206.21 B HM	12,0	46
P10.1206.30 B HM	12,0	46
P10.1206.42 B HM	12,0	46
P10.1207.30 B HM	12,0	46
S14.1208.29 B HM	12,0	68
S14.1208.42 B HM	12,0	68
S14.1208.56 B HM	12,0	68
S14.1209.42 B HM	12,0	68
U18.1209.32 B HM	12,0	88
U18.1209.45 B HM	12,0	88
U18.1209.64 B HM	12,0	88
V22.1212.42 B HM	12,0	116
V22.1212.60 B HM	12,0	116
P10.0.500.06.21 B HM	12,7	46
P10.0.500.06.30 B HM	12,7	46
P10.0.500.06.42 B HM	12,7	46
P10.0.500.07.30 B HM	12,7	46
S14.0.500.08.29 B HM	12,7	68
S14.0.500.08.42 B HM	12,7	68
S14.0.500.08.56 B HM	12,7	68
S14.0.500.09.42 B HM	12,7	68
U18.0.500.09.32 B HM	12,7	88
U18.0.500.09.45 B HM	12,7	88
U18.0.500.09.64 B HM	12,7	88
V22.0.500.13.42 B HM	12,7	117
V22.0.500.13.60 B HM	12,7	117
P10.0.625.07.25 B HM	15,875	46
S14.0.625.09.33 B HM	15,875	68
U18.0.625.09.25 B HM	15,875	88
U18.0.625.09.32 B HM	15,875	88
U18.0.625.09.45 B HM	15,875	88
U18.0.625.09.64 B HM	15,875	88
U18.0.625.13.64 B HM	15,875	88
U18.0.625.13.66 B HM	15,875	88
V22.0.625.11.30 B HM	15,875	117
V22.0.625.12.42 B HM	15,875	117
V22.0.625.12.60 B HM	15,875	117
V22.0.625.12.85 B HM	15,875	117
V28.0.625.14.42 B HM	15,875	117
V28.0.625.14.60 B HM	15,875	117
V28.0.625.14.85 B HM	15,875	117

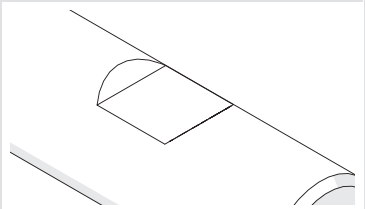
Part number	ØDh6	see Page
V33.0.625.09.33 B HM	15,875	117
P10.1607.25 B HM	16,0	46
S14.1609.33 B HM	16,0	68
U18.1609.25 B HM	16,0	88
U18.1609.32 B HM	16,0	88
U18.1609.45 B HM	16,0	88
U18.1609.64 B HM	16,0	88
U18.1612.45 B HM	16,0	88
U18.1613.64 B HM	16,0	88
U18.1613.66 B HM	16,0	88
V22.1611.30 B HM	16,0	116
V22.1612.42 B HM	16,0	116
V22.1612.60 B HM	16,0	116
V22.1612.85 B HM	16,0	116
V28.1614.42 B HM	16,0	116
V28.1614.60 B HM	16,0	116
V28.1614.85 B HM	16,0	116
V33.1609.33 B HM	16,0	116
V22.2016.45 B HM	20,0	116
V22.2016.65 B HM	20,0	116
V28.2013.35 B HM	20,0	116
V28.2014.85 B HM	20,0	116

Standard Tools

Steel Milling Cutter Shank, Weldon (DIN 1835 B)







All measures in mm

Part number	ØDh6	see Page
U18.1209.18 B ST	12,0	89
S14.0.625.08.16 B ST	15,875	69
U18.0.625.09.18 B ST	15,875	89
V22.0.625.12.24 B ST	15,875	118
V33.0.625.09.20 B ST	15,875	118
S14.1608.16 B ST	16,0	69
U18.1609.18 B ST	16,0	89
V22.1612.24 B ST	16,0	118
V33.1609.20 B ST	16,0	118
V28.2014.35 B ST	20,0	118

simmill PX
SIMTEK Milling Tools Type PX

As of page 27

Application overview

simmill PX
SIMTEK Milling Tools Type PX

Milling Cutter Shank, cylindrical (DIN 6535 HA)

Anti-vibration solid carbide type with through coolant and shank according to DIN 6535 HA.

Tightening torque (screw)
1,2 Nm

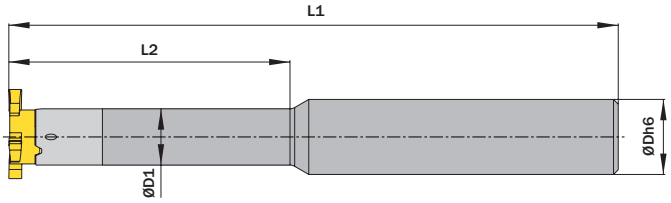
Similar tools on page
39

Please read add. notes
ALL (Page 199)

TW HM | Legend **203**

Scan **QR-Code** | Or Visit **www.simtek.info/cp/346**

This page contains inch tools! These tools are indicated by **inch** on the right hand side.



ØDh6 mm/inch	ØD1 mm/inch	L2 mm/inch	Part number	Webcode www.simtek.com/iwebcode	L1 mm/inch	Screw	Screw driver	Connectcode www.simtek.com/ccode	
▼ ØDh6 = 12,0 mm									
12,0	6,0	21,0	**P10.1206.21 A HM**	AE35	80,0	PM2,6x8T8F	T8F	PD06.0	
12,0	6,0	30,0	**P10.1206.30 A HM**	AG5A	90,0	PM2,6x8T8F	T8F	PD06.0	
12,0	6,0	42,0	**P10.1206.42 A HM**	AMEK	100,0	PM2,6x8T8F	T8F	PD06.0	
12,0	7,3	30,0	**P10.1207.30 A HM**	AHBF	90,0	PM2,6x8T8F	T8F	PD07.3	
▼ ØDh6 = 0.500“									
0.500“	0.236“	0.827“	**P10.0.500.06.21 A HM**	AE25	3.150“	PM2,6x8T8F	T8F	PD06.0	inch
0.500“	0.236“	1.181“	**P10.0.500.06.30 A HM**	AKHS	3.543“	PM2,6x8T8F	T8F	PD06.0	inch
0.500“	0.236“	1.654“	**P10.0.500.06.42 A HM**	AMMM	3.937“	PM2,6x8T8F	T8F	PD06.0	inch
0.500“	0.287“	1.181“	**P10.0.500.07.30 A HM**	APFF	3.543“	PM2,6x8T8F	T8F	PD07.3	inch
▼ ØDh6 = 0.625“									
0.625“	0.287“	0.984“	**P10.0.625.07.25 A HM**	AF2B	3.937“	PM2,6x8T8F	T8F	PD07.3	inch
▼ ØDh6 = 16,0 mm									
16,0	7,3	25,0	**P10.1607.25 A HM**	ADVZ	100,0	PM2,6x8T8F	T8F	PD07.3	

Order example: **P10.1206.21 A HM**

Milling Cutter Shank, cylindrical (DIN 1835 A)

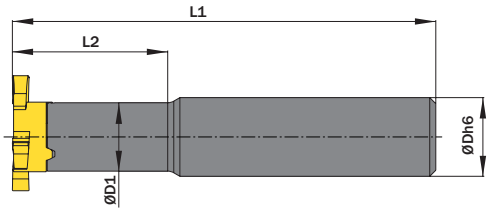
Steel type with shank according to DIN 1835 A.

Tightening torque (screw)	**1,2 Nm**
Similar tools on page	**40**
Please read add. notes	**ALL (Page 199)**

TW ST Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/388**

This page contains inch tools! These tools are indicated by **inch** on the right hand side.



ØDh6 mm/inch	ØD1 mm/inch	L2 mm/inch	Part number	Webcode www.simtek.com/webcode	With through coolant supply	L1 mm/inch	Screw	Screw driver	Connectcode www.simtek.com/ccode	
▼ ØDh6 = 10,0 mm										
10,0	6,0	15,0	**P10.1006.15 A ST**	AG7K	No	60,0	PM2,6x8T8F	T8F	PD06.0	
▼ ØDh6 = 0.625“										
0.625“	0.236“	0.472“	**P10.0.625.06.12 A ST**	ABXD	Yes	3.150“	PM2,6x8T8F	T8F	PD06.0	inch
▼ ØDh6 = 16,0 mm										
16,0	6,0	12,0	**P10.1606.12 A ST**	AE8E	Yes	80,0	PM2,6x8T8F	T8F	PD06.0	

Order example: **P10.1006.15 A ST**

simmill PX
SIMTEK Milling Tools Type PX

Milling Cutter Shank, Weldon (DIN 6535 HB)

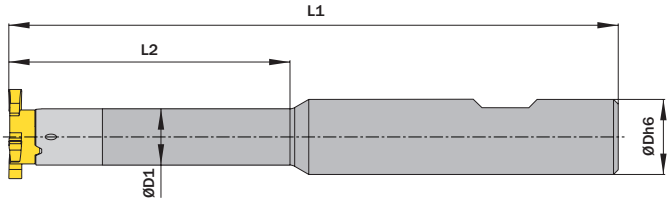
Anti-vibration solid carbide type with through coolant and shank according to DIN 6535 HB.

Tightening torque (screw)	**1,2 Nm**
VSimilar tools on page	**41**
Please read add. notes	**ALL (Page 199)**

TW HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/347**

This page contains inch tools! These tools are indicated by **inch** on the right hand side.



ØDh6 mm/inch	ØD1 mm/inch	L2 mm/inch	Part number	Webcode www.simtek.com/iwebcode	L1 mm/inch	Screw	Screw driver	Connectcode www.simtek.com/ccode	
▼ ØDh6 = 12,0 mm									
12,0	6,0	21,0	**P10.1206.21 B HM**	AKJM	80,0	PM2,6x8T8F	T8F	PD06.0	
12,0	6,0	30,0	**P10.1206.30 B HM**	AC5B	90,0	PM2,6x8T8F	T8F	PD06.0	
12,0	6,0	42,0	**P10.1206.42 B HM**	AHUG	100,0	PM2,6x8T8F	T8F	PD06.0	
12,0	7,3	30,0	**P10.1207.30 B HM**	AHJ7	90,0	PM2,6x8T8F	T8F	PD07.3	
▼ ØDh6 = 0.500“									
0.500“	0.236“	0.827“	**P10.0.500.06.21 B HM**	AFUZ	3.150“	PM2,6x8T8F	T8F	PD06.0	inch
0.500“	0.236“	1.181“	**P10.0.500.06.30 B HM**	AJXS	3.543“	PM2,6x8T8F	T8F	PD06.0	inch
0.500“	0.236“	1.654“	**P10.0.500.06.42 B HM**	ABXZ	3.937“	PM2,6x8T8F	T8F	PD06.0	inch
0.500“	0.287“	1.181“	**P10.0.500.07.30 B HM**	AEDG	3.543“	PM2,6x8T8F	T8F	PD07.3	inch
▼ ØDh6 = 0.625“									
0.625“	0.287“	0.984“	**P10.0.625.07.25 B HM**	ADDD	3.937“	PM2,6x8T8F	T8F	PD07.3	inch
▼ ØDh6 = 16,0 mm									
16,0	7,3	25,0	**P10.1607.25 B HM**	AP0F	100,0	PM2,6x8T8F	T8F	PD07.3	

Order example: **P10.1206.30 B HM**

Milling Cutter Shank, Weldon (DIN 1835 B)

Steel type with shank according to DIN 1835 B.

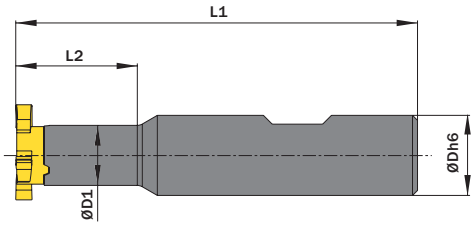
Tightening torque (screw)
1,2 Nm
Similar tools on page
42
Please read add. notes
ALL (Page 199)

TW ST | Legend **203**

Scan **QR-Code** | Or Visit **www.simtek.info/cp/420**

This page contains inch tools! These tools are indicated by **inch** on the right hand side.

Whistle-Notch fixation available upon request.



ØDg6 mm/inch	ØD1 mm/inch	L2 mm/inch	Part number	Webcode www.simtek.com/webcode	With through coolant supply	L1 mm/inch	Screw	Screw driver	Connectcode www.simtek.com/ccode	
0.625“	0.236“	0.472“	**P10.0.625.06.12 B ST**	AHØP	Yes	3.150“	P M2,6x8 T8F	T8F	PD06.0	inch
10,0	6,0	15,0	**P10.1006.15 B ST**	AGSØ	No	60,0	P M2,6x8 T8F	T8F	PD06.0	
12,0	6,0	15,0	**P10.1206.15 B ST**	AK28	Yes	74,0	P M2,6x8 T8F	T8F	PD06.0	
16,0	6,0	12,0	**P10.1606.12 B ST**	AAB7	Yes	80,0	P M2,6x8 T8F	T8F	PD06.0	

Order example: **P10.1206.15 B ST**

Milling cutter shank, for collet chucks (DIN6499)

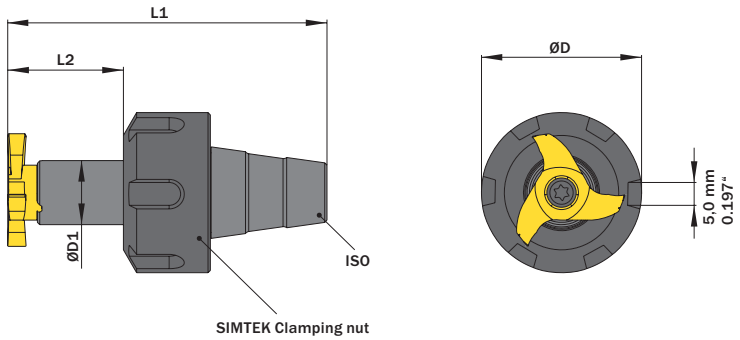
For collet chucks according to DIN6499-A.

Tightening torque (screw)	
1,2 Nm	
Similar tools on page	
38	
Please read add. notes	
ALL (Page 199)	

TW ST Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/452**

Whistle-Notch fixation available upon request.



Milling cutter shank is only available together with clamping nut.
Clamping nut is available as a spare part.

For collet chuck	ØD1 mm	L2 mm	Part number	Webcode www.simtek.com/webcode	Clamping nut	Thread clamping nut	ØD mm	L1 mm	Screw	Screw driver	Connectcode www.simtek.com/ccode
ER11	6,0	16,0	**P10.ER11.06.16**	AJFH	P ER11.12.19	M14x0,75	19,0	36,3	P M2,6x8 T8F	T8F	**PD06.0**
ER11	6,0	16,0	**P10.ER11.06.16.B**	AVMP	P ER11.12.16	M13x0,75	16,0	36,3	P M2,6x8 T8F	T8F	**PD06.0**

Order example: **P10.ER11.06.16**

simmill PX
SIMTEK Milling Tools Type PX

Circlip Ring Groove Milling, internal

Circlip ring groove milling in bores as of bore diameter 10,0 mm. For use in all materials.

Cutting parameters (start)		
fzm **0,02 mm**	hmax **0,03 mm**	Vc **Page 192**

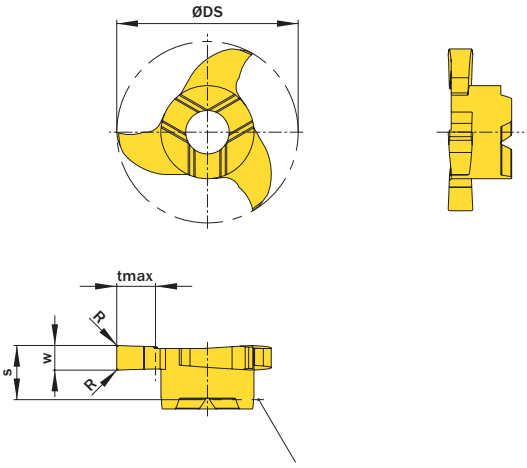
Suitable toolholders on page
44, 45, 46, 47, 48

Similar tools on page
29

Please read add. notes
ALL (Page 199), H01 (Page 200)

SP HM Legend **203**

Scan QR-Code Or Visit **www.simtek.info/cp/349**



Drawing shows: P12.0160.01 G

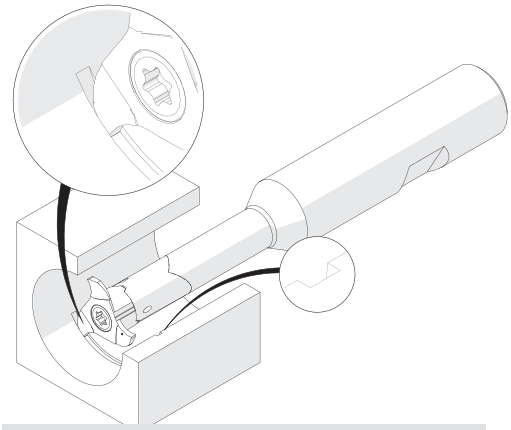


Image shows exemplary application possibility with similar tool.

w -0,02 mm	Nominal width of groove mm	R mm	ØDmin (min. bore) mm	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	tmax mm	S mm	ØDS mm	Number of cutting edges	Connectcode www.simtek.com/ccode
0,74	0,7	-	10,0	**P10.0070.00 Z**	AHB1	X800 GT42	1,5	3,4	9,7	3	PD06.0
0,84	0,8	-	10,0	**P10.0080.00 Z**	AKU6	X800 GT42	1,5	3,4	9,7	3	PD06.0
0,94	0,9	-	10,0	**P10.0090.00 Z**	AG93	X800 GT42	1,5	3,4	9,7	3	PD06.0
1,04	1,0	-	10,0	**P10.0100.00 G**	AA4Q	X800 GT42	1,5	3,4	9,7	3	PD06.0
1,21	1,1	-	10,0	**P10.0110.00 G**	AJ8Z	X800 GT42	1,5	3,5	9,7	3	PD06.0
1,41	1,3	0,1	10,0	**P10.0130.01 G**	AJVP	X800 GT42	1,5	3,5	9,7	3	PD06.0
1,71	1,6	0,1	10,0	**P10.0160.01 G**	AGG7	X800 GT42	1,5	3,5	9,7	3	PD06.0

Order example: **P10.0070.00 Z X800** (X800 = Grade)

simtek individual | P10. w, 1/100 mm, 4 Digits . R, 1/100 mm, 3 Digits Tolerance

Example Part number: **P10.0179.030 XG**

simmill PX
SIMTEK Milling Tools Type PX

Circlip Ring Groove Milling, internal

Circlip ring groove milling in bores as of bore diameter 12,0 mm. For use in all materials.

Cutting parameters (start)		
fzm **0,02 mm**	hmax **0,03 mm**	Vc **Page 192**

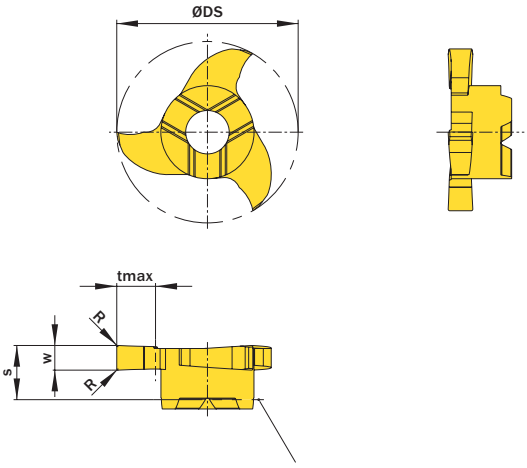
Suitable toolholders on page
44, 45, 46, 47, 48

VSimilar tools on page
29

Please read add. notes
ALL (Page 199), H01 (Page 200)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/367**



Drawing shows: P12.0160.01 G

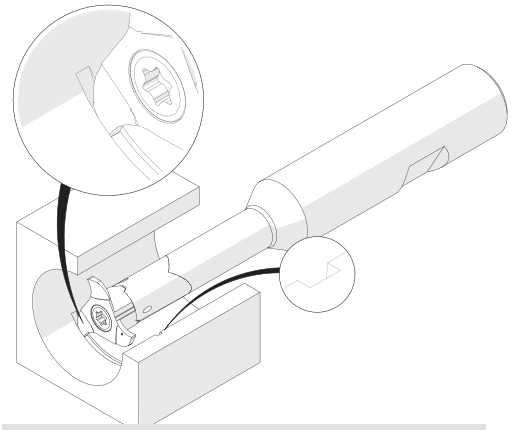


Image shows exemplary application possibility with similar tool.

w -0,02	Nominal width of groove	R	ØDmin (min. bore)	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	tmax	S	ØDS	Number of cutting edges	Connectcode www.simtek.com/ccode
mm	mm	mm	mm				mm	mm	mm		
1,21	1,1	-	12,0	**P12.0110.00 G**	ACHB	X800 GT42	2,5	3,5	11,7	3	PD06.0
1,41	1,3	0,1	12,0	**P12.0130.01 G**	AGB6	X800 GT42	2,5	3,5	11,7	3	PD06.0
1,71	1,6	0,1	12,0	**P12.0160.01 G**	AK06	X800 GT42	2,5	3,5	11,7	3	PD06.0

Order example: **P12.0110.00 G X800** (X800 = Grade)

simtek individual | P12. w, 1/100 mm, 4 Digits . R, 1/100 mm , 3 Digits Tolerance

Example Part number: **P12.0179.030 XG**

simmill PX
SIMTEK Milling Tools Type PX

Circlip Ring Groove Milling, internal

Circlip ring groove milling in bores as of bore diameter 12,0 mm. Highpositive rake angle for use in light alloys.

Cutting parameters (start)		
fzm **0,02 mm**	hmax **0,03 mm**	Vc **Page 192**

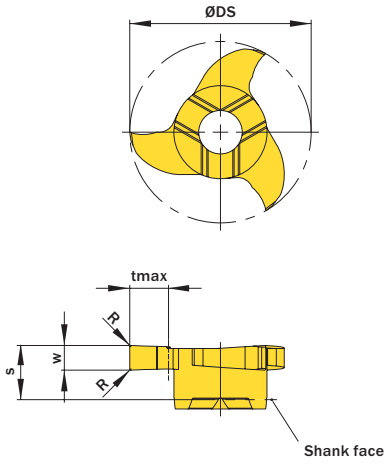
Suitable toolholders on page
44, 45, 46, 47, 48

Similar tools on page
29

Please read add. notes
ALL (Page 199), H01 (Page 200)

SP HM LM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/353**



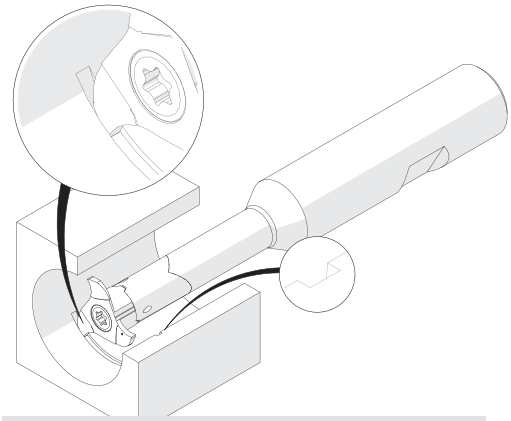


Image shows exemplary application possibility with similar tool.

Drawing shows: P12.0160.41 C

w -0,02	Nominal width of groove	R	ØDmin (min. bore)	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	tmax	S	ØDS	Number of cutting edges	Connectcode www.simtek.com/ccode
mm	mm	mm	mm				mm	mm	mm		
1,21	1,1	-	12,0	**P12.0110.40 C**	AKAK	X800 GT42	2,5	3,5	11,7	3	PD06.0
1,41	1,3	0,1	12,0	**P12.0130.41 C**	AGC3	X800 GT42	2,5	3,5	11,7	3	PD06.0
1,71	1,6	0,1	12,0	**P12.0160.41 C**	AGNK	X800 GT42	2,5	3,5	11,7	3	PD06.0

Order example: **P12.0110.40 C GF25** (GF25 = Grade)

simtek individual | P12. w, 1/100 mm, 4 Digits . R, 1/100 mm, 3 Digits Tolerance C

Example Part number: **P12.0179.030 XG C**

simmill PX
SIMTEK Milling Tools Type PX

General Groove Milling

General groove milling. For use in bores as of minimum bore diameter 10,0 mm (0.394“).

Cutting parameters (start)		
fzm **0,02 mm**	hmax **0,03 mm**	Vc **Page 192**

Suitable toolholders on page
44, 45, 46, 47, 48

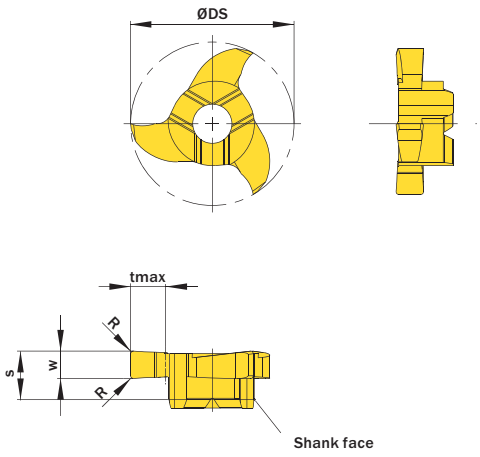
Similar tools on page
27

Please read add. notes
ALL (Page 199), H01 (Page 200)

SP HM Legend **203**

Scan QR-Code Or Visit **www.simtek.info/cp/351**

This page contains inch tools! These tools are indicated by **inch** on the right hand side.



Drawing shows: P12.0250.02 G

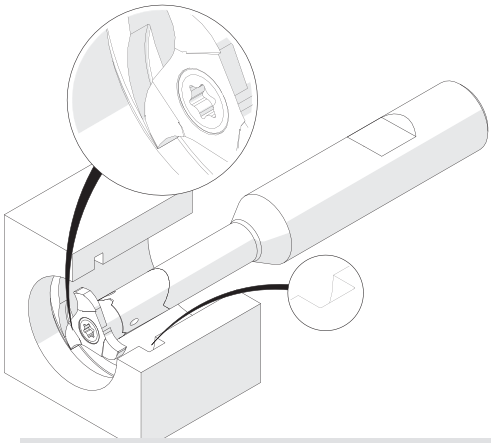


Image shows exemplary application possibility with similar tool.

w +0,02mm / 0.001“ mm/inch	Nominal width of groove mm/inch	R mm/inch	ØDmin (min. bore) mm/inch	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	tmax mm/inch	S mm/inch	ØDS mm/inch	Number of cutting edges	Connectcode www.simtek.com/ccode	
1,0	-	0,1	10,0	**P10.0100.01 G**	AVH5	X800 GT42	1,5	3,5	9,7	3	PD06.0	
1,5	-	0,2	10,0	**P10.0150.02 G**	APHM	X800 GT42	1,5	3,5	9,7	3	PD06.0	
0.062“	-	-	0.394“	**P10.0157.00 G**	APT8	X800 GT42	0.059“	0.138“	0.382“	3	PD06.0	inch
2,0	-	0,2	10,0	**P10.0200.02 G**	ABGQ	X800 GT42	1,5	3,5	9,7	3	PD06.0	
2,5	-	0,2	10,0	**P10.0250.02 G**	AM11	X800 GT42	1,5	3,5	9,7	3	PD06.0	

Order example: **P10.0200.02 G X800** (X800 = Grade)

simtek individual | P10. w, 1/100 mm, 4 Digits . R, 1/100 mm, 3 Digits Tolerance

Example Part number: **P10.0179.030 XG**

simmill PX
SIMTEK Milling Tools Type PX

General Groove Milling

General groove milling. For use in bores as of minimum bore diameter 12,0 mm (0.472“).

Cutting parameters (start)		
fzm **0,02 mm**	hmax **0,03 mm**	Vc **Page 192**

Suitable toolholders on page
44, 45, 46, 47, 48

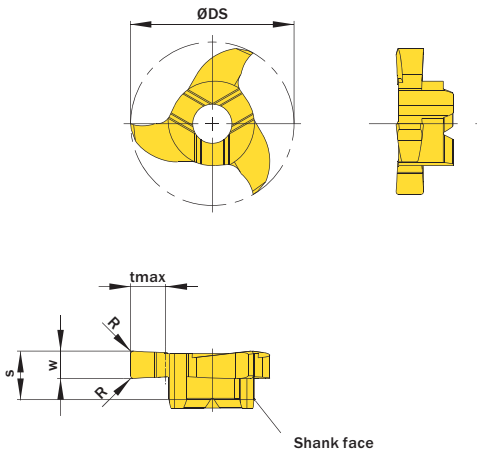
Similar tools on page
27

Please read add. notes
ALL (Page 199), H01 (Page 200)

SP HM Legend **203**

Scan QR-Code Or Visit **www.simtek.info/cp/366**

This page contains inch tools! These tools are indicated by **inch** on the right hand side.



Drawing shows: P12.0250.02 G

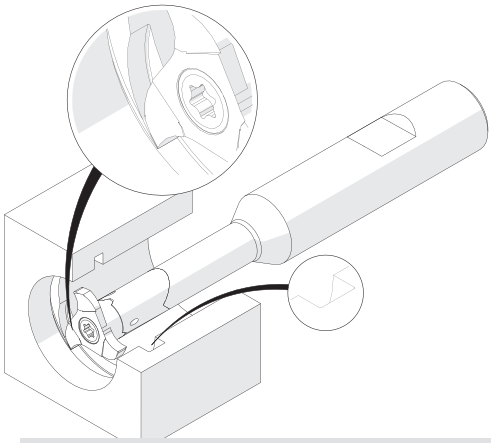


Image shows exemplary application possibility with similar tool.

w +0,02mm / 0.001“ mm/inch	Nominal width of groove mm/inch	R mm/inch	ØDmin (min. bore) mm/inch	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	tmax mm/inch	S mm/inch	ØDS mm/inch	Number of cutting edges	Connectcode www.simtek.com/ccode	
1,5	-	0,2	12,0	**P12.0150.02 G**	AM2N	X800 GT42	2,5	3,5	11,7	3	PD06.0	
0.062“	-	0.008“	0.472“	**P12.0157.02 G**	APGW	X800 GT42	0.098“	0.138“	0.461“	3	PD06.0	inch
2,0	-	0,2	12,0	**P12.0200.02 G**	APVD	X800 GT42	2,5	3,5	11,7	3	PD06.0	
2,5	-	0,2	12,0	**P12.0250.02 G**	ABHM	X800 GT42	2,5	3,5	11,7	3	PD06.0	
3,0	-	0,2	12,0	**P12.0300.02 G**	A019	X800 GT42	2,5	3,5	11,7	3	PD06.0	

Order example: **P12.0200.02 G X800** (X800 = Grade)

simtek individual | P12. w, 1/100 mm, 4 Digits . R, 1/100 mm , 3 Digits Tolerance

Example Part number: **P12.0179.030 XG**

simmill PX
SIMTEK Milling Tools Type PX

General Groove Milling

General groove milling. For use in bores as of minimum bore diameter 12,0 mm.

Cutting parameters (start)		
fzm **0,02 mm**	hmax **0,03 mm**	Vc **Page 192**

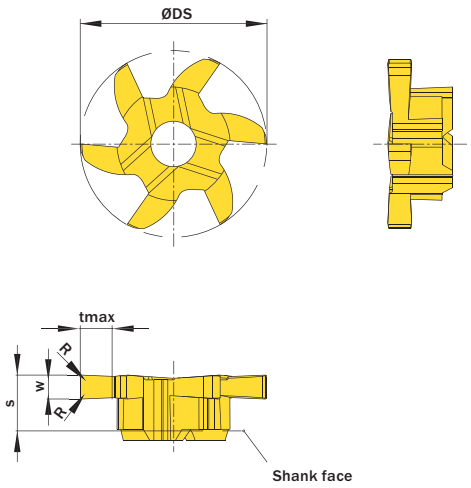
Suitable toolholders on page
44, 45, 46, 47, 48

Similar tools on page
27

Please read add. notes
ALL (Page 199), H01 (Page 200)

SP HM Legend **203**

Scan QR-Code Or Visit **www.simtek.info/cp/967**



Drawing shows: P06.0150.02.12 G

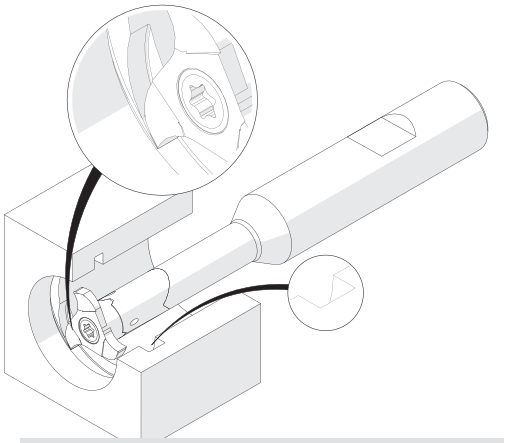


Image shows exemplary application possibility with similar tool.

w +0,02	Nominal width of groove	R	ØDmin (min. bore)	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	tmax	S	ØDS	Number of cutting edges	Connectcode www.simtek.com/ccode
mm	mm	mm	mm				mm	mm	mm		
1,5	-	0,2	12,0	**P06.0150.02.12 G**	AU7N	X800 GT42	2,0	3,5	11,7	6	PD06.0 | PD07.3
2,0	-	0,2	12,0	**P06.0200.02.12 G**	AU7P	X800 GT42	2,0	3,5	11,7	6	PD06.0 | PD07.3

Order example: **P06.0150.02.12 G X800** (X800 = Grade)

simtek individual | P06. | w, 1/100 mm, 4 Digits | . | R, 1/100 mm , 3 Digits | .12 | Tolerance

Example Part number: **P06.0179.030.12 XG**

simmill PX
SIMTEK Milling Tools Type PX

General Groove Milling, for smooth cuts

General groove milling. With a new cutting edge geometry for very smooth cuts and better surface quality. For use in bores as of minimum bore diameter 12,0 mm.

Cutting parameters (start)		
fzm **0,02 mm**	hmax **0,03 mm**	Vc **Page 192**

Suitable toolholders on page
44, 45, 46, 47, 48

Similar tools on page
27

Please read add. notes
ALL (Page 199)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/1121**

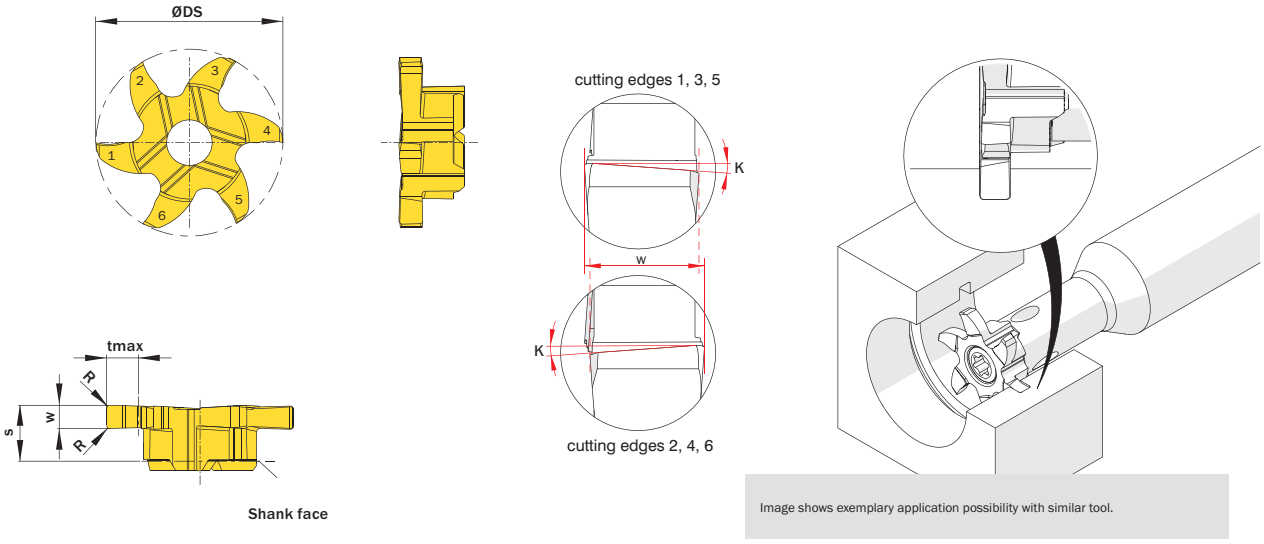


Image shows exemplary application possibility with similar tool.

Drawing shows: P06.0150.020.12 GY

w +0,02	Nominal width of groove	R	ØDmin (min. bore)	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S		tmax	S	ØDS	Number of cutting edges	Connectcode www.simtek.com/ccode
mm	mm	mm	mm					mm	mm	mm		
1,5	-	0,2	12,0	**P06.0150.020.12 GY**	AYF3	X800	GT42	2,0	3,5	11,7	6	PD06.0 | PD07.3
2,0	-	0,2	12,0	**P06.0200.020.12 GY**	AYF4	X800	GT42	2,0	3,5	11,7	6	PD06.0 | PD07.3

Order example: **P06.0150.020.12 GY X800** (X800 = Grade)

simmill PX
SIMTEK Milling Tools Type PX

General Groove Milling in light alloys

General groove milling in bores as of bore diameter 12,0 mm. Highpositive rake angle for use in light alloys.

Cutting parameters (start)		
fzm **0,02 mm**	hmax **0,03 mm**	Vc **Page 192**

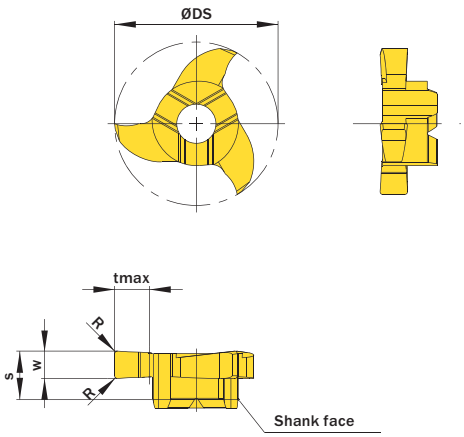
Suitable toolholders on page
44, 45, 46, 47, 48

Similar tools on page
28

Please read add. notes
ALL (Page 199), H01 (Page 200)

SP HM LM Legend **203**

Scan QR-Code Or Visit **www.simtek.info/cp/354**



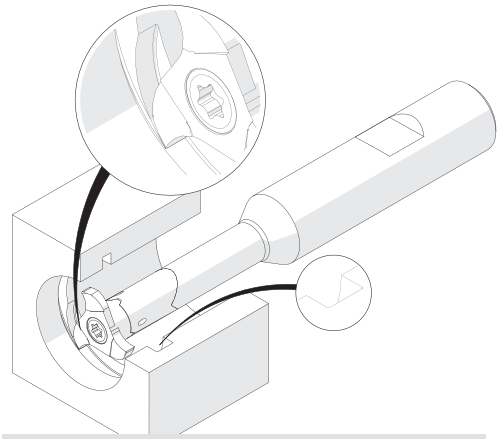


Image shows exemplary application possibility with similar tool.

Drawing shows: P12.0200.42 C

w +0,02	Nominal width of groove	R	ØDmin (min. bore)	Part number	Webcode www.simtek.com/webcode	Our first choice	tmax	S	ØDS	Number of cutting edges	Connectcode www.simtek.com/ccode
mm	mm	mm	mm			N	mm	mm	mm		
1,5	-	0,2	12,0	**P12.0150.42 C**	AKVT	HF25	2,5	3,5	11,7	3	PD06.0
2,0	-	0,2	12,0	**P12.0200.42 C**	AMPQ	HF25	2,5	3,5	11,7	3	PD06.0
2,5	-	0,2	12,0	**P12.0250.42 C**	AKX9	HF25	2,5	3,5	11,7	3	PD06.0

Order example: **P12.0250.42 C X800** (X800 = Grade)

simtek individual | P12. w, 1/100 mm, 4 Digits . R, 1/100 mm, 3 Digits Tolerance C

Example Part number: **P12.0179.030 XG C**

simmill PX
SIMTEK Milling Tools Type PX

Full Radius Groove Milling

Full radius groove milling. For use in bores as of minimum bore diameter 12,0 mm (0.472“).

Cutting parameters (start)		
fzm **0,02 mm**	hmax **0,03 mm**	Vc **Page 192**

Suitable toolholders on page
44, 45, 46, 47, 48

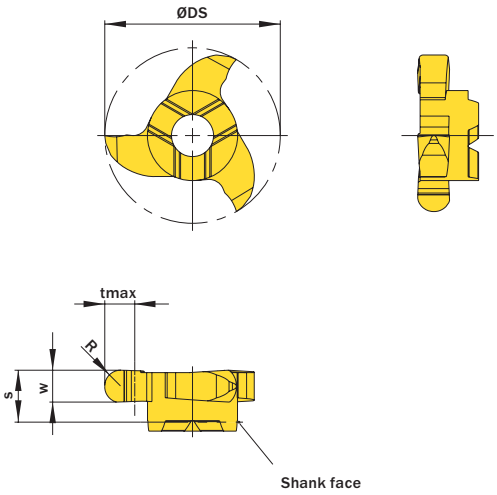
Similar tools on page
31

Please read add. notes
ALL (Page 199), H01 (Page 200)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/400**

This page contains inch tools! These tools are indicated by **inch** on the right hand side.



Drawing shows: P12.0011.22 V

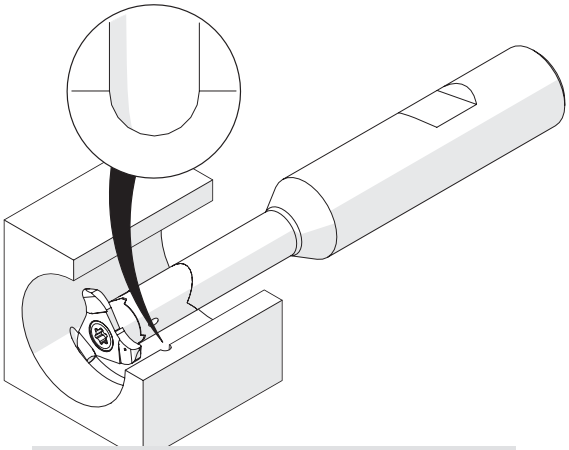


Image shows exemplary application possibility with similar tool.

R mm/inch	w +0.03mm / 0.001“ mm/inch	ØDmin (min. bore) mm/inch	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	tmax mm/inch	S mm/inch	ØDS mm/inch	Number of cutting edges	Connectcode www.simtek.com/ccode	
1,1	2,2	12,0	**P12.0011.22 V**	AC2H	X800 GT42	2,5	3,5	11,7	3	PD06.0	
0.031“	0.062“	0.472“	**P12.0031.62 V**	A3YN	X800 GT42	0.098“	0.138“	11,7	3	PD06.0	inch
0.047“	0.094“	0.472“	**P12.0047.94 V**	A3C1	X800 GT42	0.098“	0.138“	11,7	3	PD06.0	inch

Order example: **P12.0011.22 V X800** (X800 = Grade)

Groove Milling
simmill PX > Cutting Tool

simmill PX
SIMTEK Milling Tools Type PX

Thread milling, metric ISO-Thread, partial profile

Multi-purpose milling inserts. The given „Pitch (as of)“ is conforming to standards. The „Pitch (up to)“ is possible too at the expense of conformity. Please read additional notes.

Cutting parameters (start)		
fzm **0,02 mm**	hmax **0,03 mm**	Vc **Page 192**

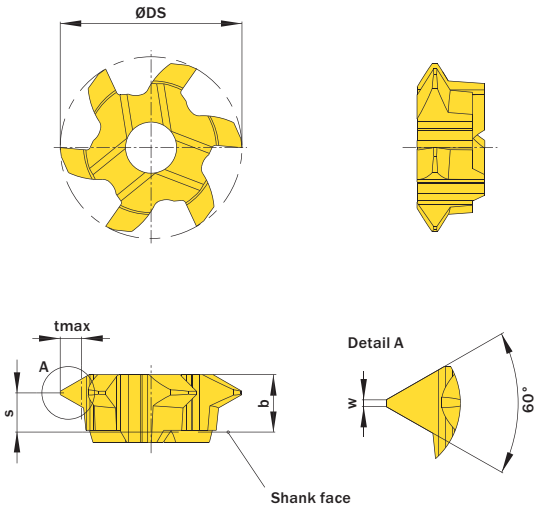
Suitable toolholders on page
44, 45, 46, 47, 48

Similar tools on page
32

Please read add. notes
ALL (Page 199), H03 (Page 201), H04 (Page 202)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/969**



Drawing shows: P06.0720.01.10 M

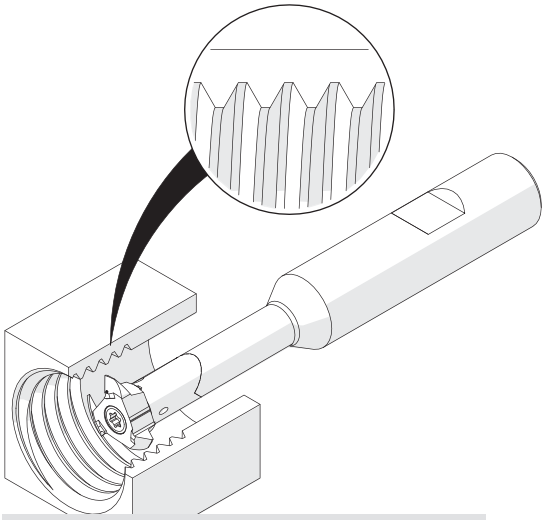


Image shows exemplary application possibility with similar tool.

As of thread size	Pitch (as of) mm	Pitch (up to) mm	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S		b mm	S mm	w mm	tmax mm	ØDS mm	Number of cutting edges	Connectcode www.simtek.com/ccode
M12	1,0	1,75	**P06.0510.01.10 M**	AU7Q	X800	GT42	3,2	2,4	0,13	1,08	9,8	6	PD06.0 | PD07.3
M14	1,0	2,0	**P06.0720.01.10 M**	AU7S	X800	GT42	3,2	2,2	0,12	1,25	10,1	6	PD06.0 | PD07.3
M14	1,0	2,0	**P06.0720.01.12 M**	AUGB	X800	GT42	3,2	2,7	0,09	1,25	11,7	6	PD06.0 | PD07.3
M16	1,5	2,75	**P06.0815.01.11 M**	AU7T	X800	GT42	3,2	2,0	0,19	1,67	11,0	6	PD06.0 | PD07.3
M16	2,0	3,0	**P06.2530.01.11 M**	AU7U	X800	GT42	3,2	1,9	0,25	1,78	11,1	6	PD06.0 | PD07.3

Order example: **P06.0510.01.10 M X800** (X800 = Grade)

The mentioned thread size „As of thread size“ is based on the starting pitch.
Please read the additional notes mentioned in the information area on the top right corner of this page.

simmill PX
SIMTEK Milling Tools Type PX

Thread milling, metric ISO-Thread, partial profile

Multi-purpose milling inserts. The given „Pitch (as of)“ is conforming to standards. The „Pitch (up to)“ is possible too at the expense of conformity. Please read additional notes.

Cutting parameters (start)		
fzm **0,02 mm**	hmax **0,03 mm**	Vc **Page 192**

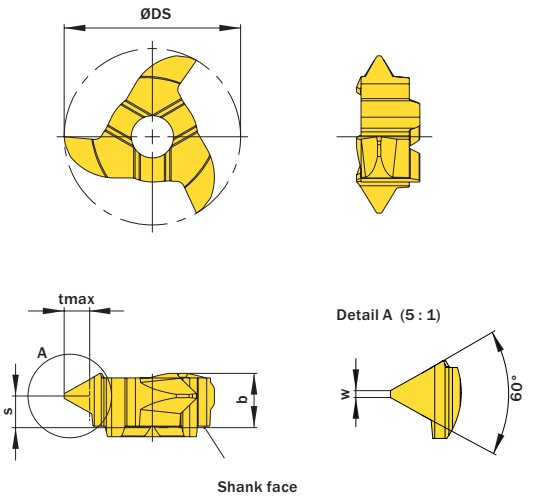
Suitable toolholders on page
44, 45, 46, 47, 48

Similar tools on page
32

Please read add. notes
ALL (Page 199), H03 (Page 201), H04 (Page 202)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/357**



Drawing shows: P12.2530.01 M

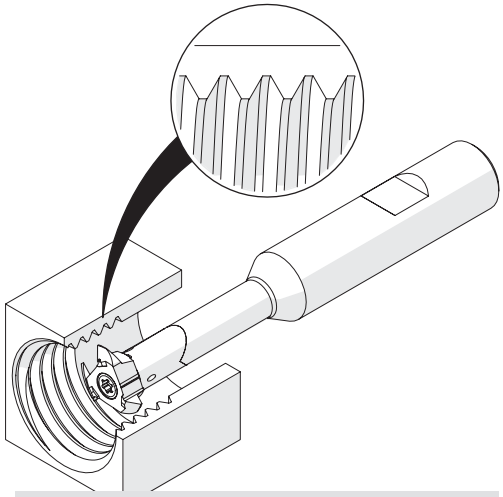


Image shows exemplary application possibility with similar tool.

As of thread size	Pitch (as of) mm	Pitch (up to) mm	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S		b mm	S mm	w mm	tmax mm	ØDS mm	Number of cutting edges	Connectcode www.simtek.com/ccode
M14	1,0	1,75	**P12.0510.01 M**	ANQC	X800	GT42	3,6	2,8	0,13	1,08	11,7	3	PD06.0 | PD07.3
M14	1,0	2,0	**P12.0720.01 M**	ANJZ	X800	GT42	3,6	2,8	0,13	1,25	11,7	3	PD06.0 | PD07.3
M16	1,5	2,75	**P12.0815.01 M**	AC51	X800	GT42	3,6	2,4	0,19	1,67	11,7	3	PD06.0 | PD07.3
M16	2,0	3,0	**P12.2530.01 M**	ADMQ	X800	GT42	3,6	2,2	0,25	1,78	11,7	3	PD06.0 | PD07.3

Order example: **P12.0815.01 M X800** (X800 = Grade)

Please read the additional notes mentioned in the information area on the top right corner of this page.
The mentioned thread size „As of thread size“ is based on the starting pitch.

More information about the **multi-purpose thread milling tools** and the **thread size suitability** can be found on page 204

simmill PX
SIMTEK Milling Tools Type PX

Thread milling, metric ISO-Thread, full profile

Thread milling of metric ISO-thread, full profile.

Cutting parameters (start)		
fzm **0,02 mm**	hmax **0,03 mm**	Vc **Page 192**

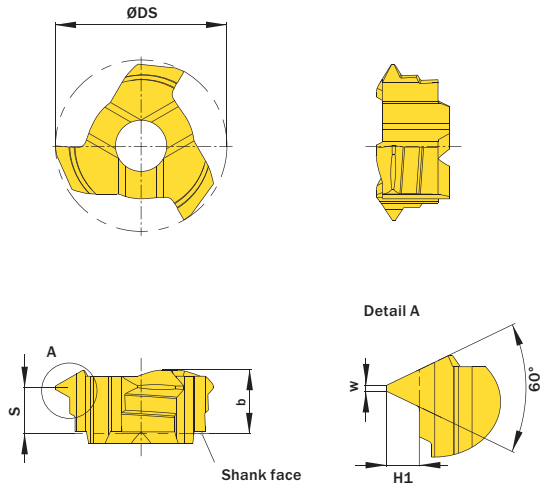
Suitable toolholders on page
44, 45, 46, 47, 48

Similar tools on page
33

Please read add. notes
ALL (Page 199), H03 (Page 201)

SP HM Legend **203**

Scan QR-Code Or Visit **www.simtek.info/cp/1088**



Drawing shows: P10.0815.02 M

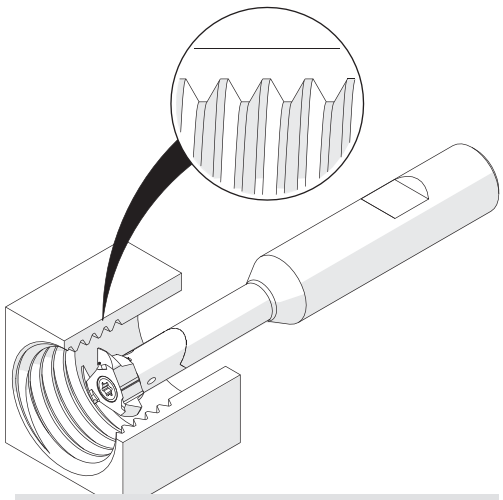


Image shows exemplary application possibility with similar tool.

As of thread size	H1 mm	Pitch (as of) mm	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	Number of cutting edges	b mm	ØDS mm	S mm	w mm	Connectcode www.simtek.com/ccode
M12	0,41	0,75	**P10.0407.02 M**	AXX4	X800 GT42	3	3,6	9,7	3,1	0,09	PD06.0 | PD07.3
M12	0,54	1,0	**P10.0510.02 M**	AXX5	X800 GT42	3	3,6	9,7	3,0	0,13	PD06.0 | PD07.3
M14	0,81	1,5	**P10.0815.02 M**	AXX6	X800 GT42	3	3,6	9,7	2,8	0,19	PD06.0 | PD07.3
M14	0,95	1,75	**P10.0917.02 M**	AXX7	X800 GT42	3	3,6	9,7	2,7	0,2	PD06.0 | PD07.3
M14	1,08	2,0	**P10.1020.02 M**	AXX8	X800 GT42	3	3,6	9,7	2,6	0,25	PD06.0 | PD07.3
M16	1,35	2,5	**P10.1325.02 M**	AXX9	X800 GT42	3	3,6	9,7	2,4	0,31	PD06.0

Order example: **P10.0815.02 M X800** (X800 = Grade)

More information about the **multi-purpose thread milling tools** and the **thread size suitability** can be found on page 204

simmill PX
SIMTEK Milling Tools Type PX

Whitworth Pipe Thread Milling, full profile

Whitworth pipe thread milling, full profile with six cutting edges and tooldiameter as of 9,7 mm (0.382“).

Cutting parameters (start)		
fzm **0,02 mm**	hmax **0,03 mm**	Vc **Page 192**

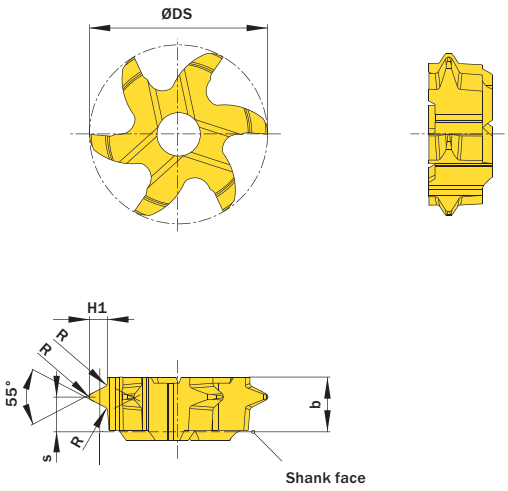
Suitable toolholders on page
44, 45, 46, 47, 48

Please read add. notes
ALL (Page 199), H03 (Page 201), H05 (Page 202)

SP HM Legend **203**

Scan QR-Code Or Visit **www.simtek.info/cp/1253**

This page contains inch tools! These tools are indicated by **inch** on the right hand side.



Drawing shows: P06.1118.14.12 M

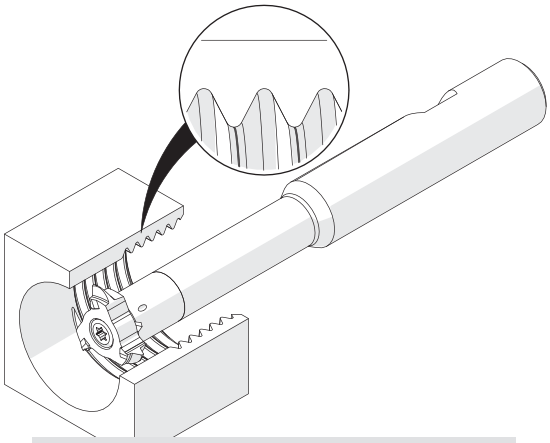


Image shows exemplary application possibility with similar tool.

H1 inch	Pitch (as of) inch	Threads/Inch	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	R inch	b inch	S inch	ØDS inch	As of thread size	Alternativ as of nominal diameter inch	Number of cutting edges	Connectcode www.simtek.com/ccode	
0.034“	0.053“	19	**P06.0813.19.10 M**	A0Y9	X800 GT42	0.007“	0.142“	0.098“	0.382“	G 3/8“	0.594“	6	PD06.0 | PD07.3	inch
0.034“	0.053“	19	**P06.0813.19.12 M**	A09N	X800 GT42	0.007“	0.142“	0.098“	0.461“	G 3/8“	0.594“	6	PD06.0 | PD07.3	inch
0.046“	0.071“	14	**P06.1118.14.12 M**	A099	X800 GT42	0.009“	0.142“	0.091“	0.461“	G 1/2“	0.689“	6	PD06.0 | PD07.3	inch

Order example: **P06.1118.14.12 M X800** (X800 = Grade)

simmill PX
SIMTEK Milling Tools Type PX

Whitworth Pipe Thread Milling, full profile

Whitworth pipe thread milling, full profile with three cutting edges and tooldiameter of 9,7 mm (0.382“).

Cutting parameters (start)		
fzm **0,02 mm**	hmax **0,03 mm**	Vc **Page 192**

Suitable toolholders on page
44, 45, 46, 47, 48

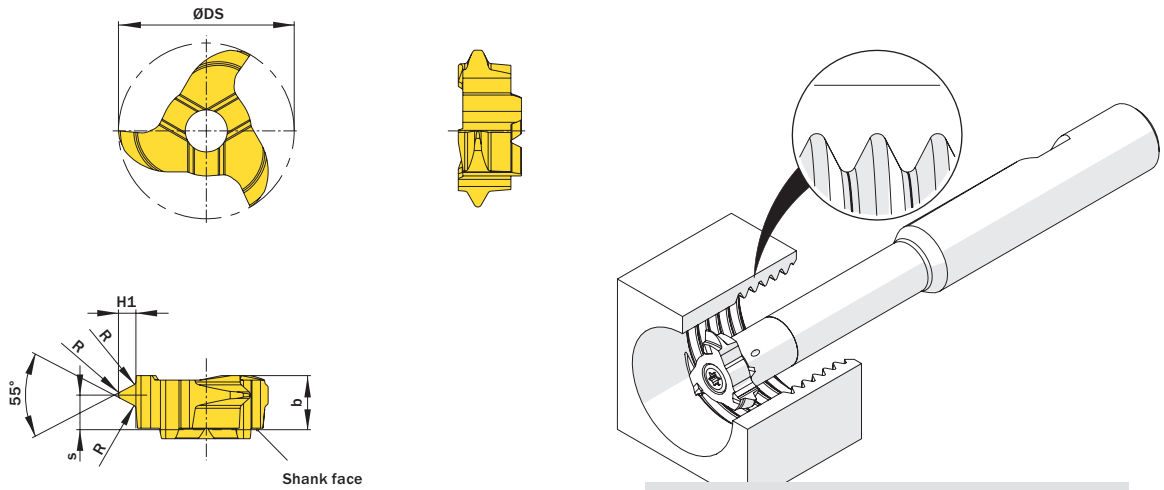
Similar tools on page
34

Please read add. notes
ALL (Page 199), H03 (Page 201)

SP HM Legend **203**

Scan QR-Code Or Visit **www.simtek.info/cp/413**

This page contains inch tools! These tools are indicated by **inch** on the right hand side.



Drawing shows: P12.1118.14 M

Image shows exemplary application possibility with similar tool.

H1 inch	Pitch (as of) inch	Threads/Inch	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S		R inch	b inch	S inch	ØDS inch	As of thread size	Alternativ as of nominal diameter inch	Number of cutting edges	Connectcode www.simtek.com/ccode	
0.034“	0.053“	19	**P10.0813.19 M**	A1EK	X800	GT42	0.007“	0.142“	0.098“	0.382“	G 1/4“	0.512“	3	PD06.0|PD07.3	inch
0.034“	0.053“	19	**P12.0813.19 M**	AC8H	X800	GT42	0.007“	0.142“	0.098“	0.461“	G 3/8“	0.594“	3	PD06.0|PD07.3	inch
0.046“	0.071“	14	**P12.1118.14 M**	AGX4	X800	GT42	0.010“	0.142“	0.091“	0.461“	G 1/2“	0.689“	3	PD06.0|PD07.3	inch
0.058“	0.091“	11	**P12.1423.11 M**	AC4K	X800	GT42	0.013“	0.142“	0.079“	0.461“	G 1“	0.740“	3	PD06.0|PD07.3	inch

Order example: **P12.1118.14 M X800** (X800 = Grade)

simmill PX
SIMTEK Milling Tools Type PX

Chamfering

Chamfering on both sides. For use in bores as of minimum bore diameter 10,0 mm.

Cutting parameters (start)		
fzm **0,02 mm**	hmax **0,03 mm**	Vc **Page 192**

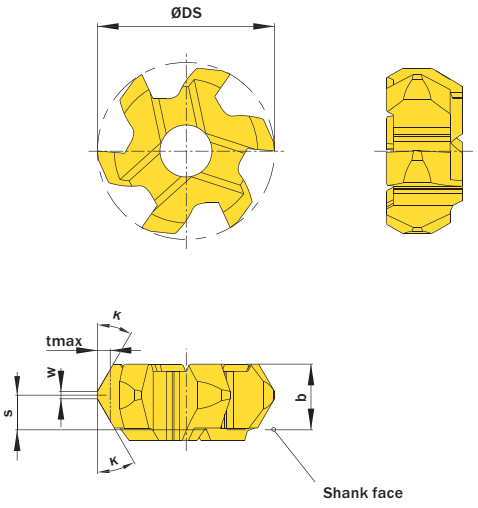
Suitable toolholders on page
44, 45, 46, 47, 48

Similar tools on page
35

Please read add. notes
ALL (Page 199)

SP HM Legend **203**

Scan QR-Code Or Visit **www.simtek.info/cp/971**



Drawing shows: P06.3030.02.10 F

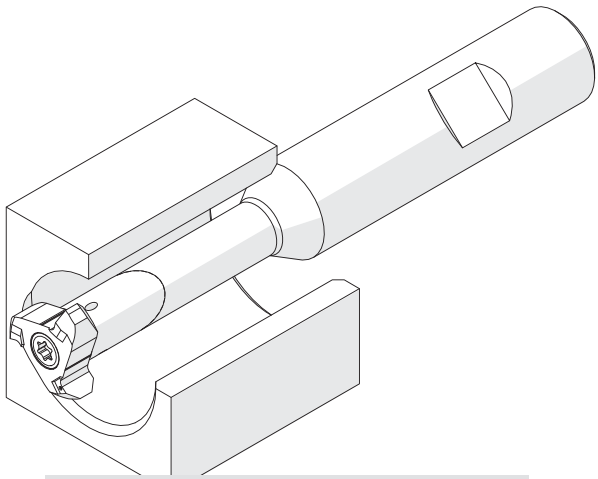


Image shows exemplary application possibility with similar tool.

κ	w	ØDmin (min. bore)	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	b	S	tmax	ØDS	Number of cutting edges	Connectcode www.simtek.com/ccode
	mm	mm				mm	mm	mm	mm		
15°	0,2	10,0	**P06.1515.02.10 F**	AU7W	X800 GT42	3,6	1,9	0,35	9,7	6	PD06.0 | PD07.3
20°	0,2	10,0	**P06.2020.02.10 F**	AU7X	X800 GT42	3,6	1,9	0,45	9,7	6	PD06.0 | PD07.3
30°	0,2	10,0	**P06.3030.02.10 F**	AU7Y	X800 GT42	3,6	1,9	0,7	9,7	6	PD06.0 | PD07.3
45°	0,2	10,0	**P06.4545.02.10 F**	AU7V	X800 GT42	3,6	1,9	1,2	9,7	6	PD06.0 | PD07.3

Order example: **P06.4545.02.10 F X800** (X800 = Grade)

simmill PX
SIMTEK Milling Tools Type PX

Chamfering

Chamfering on both sides. For use in bores as of minimum bore diameter 9,6 mm.

Cutting parameters (start)		
fzm **0,02 mm**	hmax **0,03 mm**	Vc **Page 192**

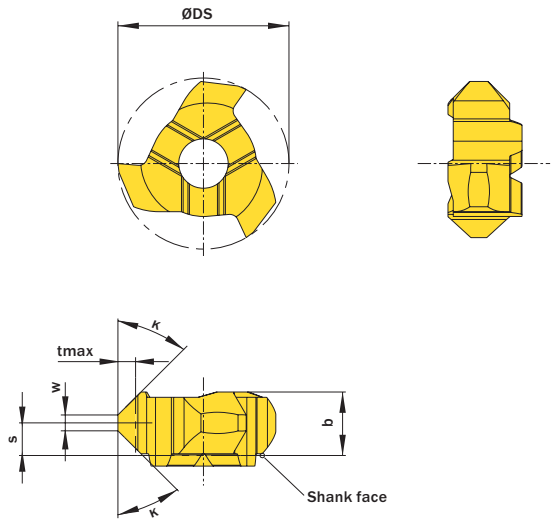
Suitable toolholders on page
44, 45, 46, 47, 48

Similar tools on page
35

Please read add. notes
ALL (Page 199)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/404**



Drawing shows: P10.4545.35 F

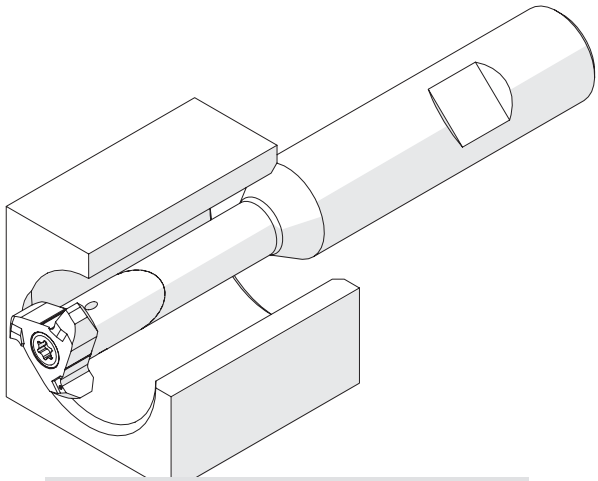


Image shows exemplary application possibility with similar tool.

κ	w	ØDmin (min. bore)	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	b	S	tmax	ØDS	Number of cutting edges	Connectcode www.simtek.com/ccode
	mm	mm				mm	mm	mm	mm		
45°	0,2	9,6	**P09.4545.02 F**	AA0U	X800 GT42	3,37	1,7	1,4	9,3	3	PD06.0
45°	0,9	10,0	**P10.4545.35 F**	AJHX	X800 GT42	3,5	1,8	1,0	9,7	3	PD06.0 | PD07.3
45°	1,2	12,0	**P12.4545.35 F**	ABG0	X800 GT42	3,5	1,8	0,8	11,7	3	PD06.0 | PD07.3

Order example: **P09.4545.02 F X800** (X800 = Grade)

simmill SX
SIMTEK Milling Tools Type SX

As of page 27 Application overview

Milling Cutter Shank, cylindrical (DIN 6535 HA)

Anti-vibration solid carbide type with through coolant and shank according to DIN 6535 HA.

Tightening torque (screw)
3,5 Nm

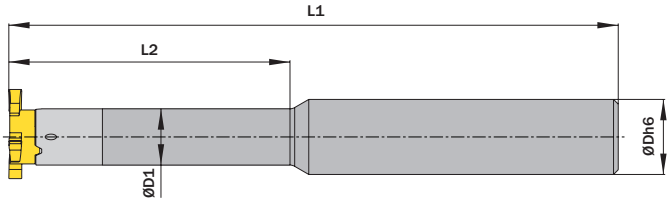
Similar tools on page
39

Please read add. notes
ALL (Page 199)

TW HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/389**

This page contains inch tools! These tools are indicated by **inch** on the right hand side.



ØDh6 mm/inch	ØD1 mm/inch	L2 mm/inch	Part number	Webcode www.simtek.com/iwebcode	L1 mm/inch	Screw	Screw driver	Connectcode www.simtek.com/ccode	
▼ ØDh6 = 12,0 mm									
12,0	8,0	29,0	**S14.1208.29 A HM**	AM5T	95,0	S M3,5x10 T10F	T10F	SD08.0	
12,0	8,0	42,0	**S14.1208.42 A HM**	AAD5	110,0	S M3,5x10 T10F	T10F	SD08.0	
12,0	8,0	56,0	**S14.1208.56 A HM**	ADVQ	120,0	S M3,5x10 T10F	T10F	SD08.0	
12,0	9,5	42,0	**S14.1209.42 A HM**	AG09	110,0	S M3,5x10 T10F	T10F	SD09.5	
▼ ØDh6 = 0.500“									
0.500“	0.315“	1.142“	**S14.0.500.08.29 A HM**	ACPS	3.740“	S M3,5x10 T10F	T10F	SD08.0	inch
0.500“	0.315“	1.654“	**S14.0.500.08.42 A HM**	ABPC	4.331“	S M3,5x10 T10F	T10F	SD08.0	inch
0.500“	0.315“	2.205“	**S14.0.500.08.56 A HM**	AMWW	4.724“	S M3,5x10 T10F	T10F	SD08.0	inch
0.500“	0.374“	1.654“	**S14.0.500.09.42 A HM**	AJQS	4.331“	S M3,5x10 T10F	T10F	SD09.5	inch
▼ ØDh6 = 0.625“									
0.625“	0.374“	1.299“	**S14.0.625.09.33 A HM**	AH1U	4.331“	S M3,5x10 T10F	T10F	SD09.5	inch
▼ ØDh6 = 16,0 mm									
16,0	9,5	33,0	**S14.1609.33 A HM**	AJTB	110,0	S M3,5x10 T10F	T10F	SD09.5	

Order example: **S14.1208.56 A HM**

Milling Cutter Shank, cylindrical (DIN 1835 A)

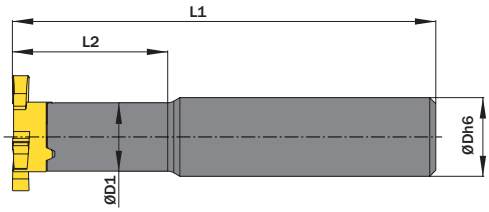
Steel type with shank according to DIN 1835 A.

Tightening torque (screw)	**3,5 Nm**
Similar tools on page	**40**
Please read add. notes	**ALL (Page 199)**

TW ST Legend **203**

Scan **QR-Code** Oder besuchen Sie // Or Visit **www.simtek.info/cp/392**

This page contains inch tools! These tools are indicated by **inch** on the right hand side.



ØDh6 mm/inch	ØD1 mm/inch	L2 mm/inch	Part number	Webcode www.simtek.com/webcode	With through coolant supply	L1 mm/inch	Screw	Screw driver	Connectcode www.simtek.com/ccode	
▼ ØDh6 = 10,0 mm										
10,0	8,0	17,0	**S14.1008.17 A ST**	AAKP	No	60,0	S M3,5x10 T10F	T10F	SD08.0	
▼ ØDh6 = 13,0 mm										
13,0	8,0	25,0	**S14.1308.25 A ST**	AE8U	No	70,0	S M3,5x10 T10F	T10F	SD08.0	
▼ ØDh6 = 0.625“										
0.625“	0.315“	0.630“	**S14.0.625.08.16 A ST**	ACT3	Yes	3.150“	S M3,5x10 T10F	T10F	SD08.0	inch
▼ ØDh6 = 16,0 mm										
16,0	8,0	16,0	**S14.1608.16 A ST**	AABY	Yes	80,0	S M3,5x10 T10F	T10F	SD08.0	

Order example: **S14.1608.16 A ST**

Milling Cutter Shank, Weldon (DIN 6535 HB)

Anti-vibration solid carbide type with through coolant and shank according to DIN 6535 HB.

Tightening torque (screw)
3,5 Nm

Similar tools on page
41

Please read add. notes
ALL (Page 199)

TW HM | Legend **203**

Scan **QR-Code** | Or Visit **www.simtek.info/cp/390**

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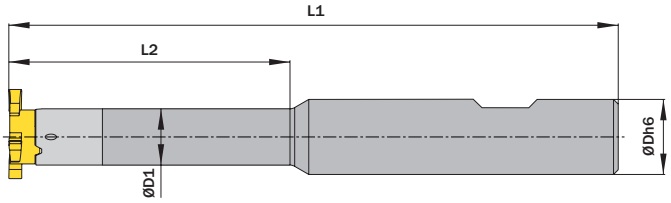

ØDh6 mm/inch	ØD1 mm/inch	L2 mm/inch	Part number	Webcode www.simtek.com/iwebcode	L1 mm/inch	Screw	Screw driver	Connectcode www.simtek.com/ccode	
▼ ØDh6 = 12,0 mm									
12,0	8,0	29,0	**S14.1208.29 B HM**	AG22	95,0	S M3,5x10 T10F	T10F	SD08.0	
12,0	8,0	42,0	**S14.1208.42 B HM**	ACPK	110,0	S M3,5x10 T10F	T10F	SD08.0	
12,0	8,0	56,0	**S14.1208.56 B HM**	AC9E	120,0	S M3,5x10 T10F	T10F	SD08.0	
12,0	9,5	42,0	**S14.1209.42 B HM**	AAKT	110,0	S M3,5x10 T10F	T10F	SD09.5	
▼ ØDh6 = 0.500“									
0.500“	0.315“	1.142“	**S14.0.500.08.29 B HM**	AMUB	3.740“	S M3,5x10 T10F	T10F	SD08.0	inch
0.500“	0.315“	1.654“	**S14.0.500.08.42 B HM**	AJSC	4.331“	S M3,5x10 T10F	T10F	SD08.0	inch
0.500“	0.315“	2.205“	**S14.0.500.08.56 B HM**	AMKD	4.724“	S M3,5x10 T10F	T10F	SD08.0	inch
0.500“	0.374“	1.654“	**S14.0.500.09.42 B HM**	AB5C	4.331“	S M3,5x10 T10F	T10F	SD09.5	inch
▼ ØDh6 = 0.625“									
0.625“	0.374“	1.299“	**S14.0.625.09.33 B HM**	AMHU	4.331“	S M3,5x10 T10F	T10F	SD09.5	inch
▼ ØDh6 = 16,0 mm									
16,0	9,5	33,0	**S14.1609.33 B HM**	AH8J	110,0	S M3,5x10 T10F	T10F	SD09.5	

Order example: **S14.1208.29 B HM**

Milling Cutter Shank, Weldon (DIN 1835 B)

Steel type with through coolant and shank according to DIN 1835 B.

Tightening torque (screw)
3,5 Nm

Similar tools on page
42

Please read add. notes
ALL (Page 199)

TW ST | Legend **203**

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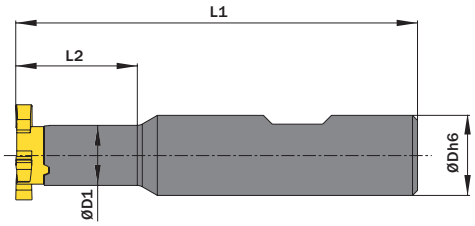
This page contains inch tools! These tools are indicated by **inch** on the right hand side.

Whistle-Notch fixation available upon request.



ØDh6 mm/inch	ØD1 mm/inch	L2 mm/inch	Part number	Webcode www.simtek.com/iwebcode	L1 mm/inch	Screw	Screw driver	Connectcode www.simtek.com/ccode	
▼ ØDh6 = 0.625“									
0.625“	0.315“	0.630“	**S14.0.625.08.16 B ST**	AF5E	3.150“	S M3,5x10 T10F	T10F	SD08.0	inch
▼ ØDh6 = 16,0 mm									
16,0	8,0	16,0	**S14.1608.16 B ST**	AH01	80,0	S M3,5x10 T10F	T10F	SD08.0	

Order example: **S14.1608.16 B ST**

Milling cutter shank, for collet chucks (DIN6499)

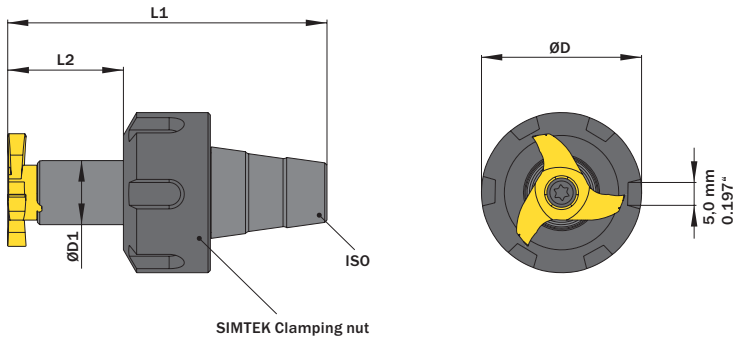
For collet chucks according to DIN6499-A.

Tightening torque (screw)	
3,5 Nm	
Similar tools on page	
38	
Please read add. notes	
ALL (Page 199)	

TW ST Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/454**

Whistle-Notch fixation available upon request.



Milling cutter shank is only available together with clamping nut.
Clamping nut is available as a spare part.

For collet chuck	ØD1 mm	L2 mm	Part number	Webcode www.simtek.com/webcode	Clamping nut	Thread clamping nut	ØD mm	L1 mm	Screw	Screw driver	Connectcode www.simtek.com/ccode
ER11	8,0	16,0	**S14.ER11.08.16**	AJE5	SER11.12.19	M14x0,75	19,0	36,3	SM3,5x10T10F	T10F	SD08.0
ER11	8,0	16,0	**S14.ER11.08.16.B**	AVMQ	SER11.12.16	M13x0,75	16,0	36,3	SM3,5x10T10F	T10F	SD08.0
ER16	8,0	22,0	**S14.ER16.08.22**	ACTZ	SER16.18.32	M22x1,5	32,0	52,0	SM3,5x10T10F	T10F	SD08.0
ER16	8,0	22,0	**S14.ER16.08.22.B**	AVMT	SER16.18.22	M19x1,0	22,0	52,0	SM3,5x10T10F	T10F	SD08.0
ER16	8,0	22,0	**S14.ER16.08.22.C**	AVMU	SER16.18.25	M19x1,0	25,0	52,0	SM3,5x10T10F	T10F	SD08.0
ER20	8,0	22,0	**S14.ER20.08.22**	AFFE	SER20.19.35	M25x1,5	35,0	56,5	SM3,5x10T10F	T10F	SD08.0
ER20	8,0	22,0	**S14.ER20.08.22.B**	AVMZ	SER20.19.28	M24x1,0	28,0	56,5	SM3,5x10T10F	T10F	SD08.0

Order example: **S14.ER16.08.22**

simmill SX
SIMTEK Milling Tools Type SX

General Groove Milling

General groove milling. For use in bores as of minimum bore diameter 14,0 mm (0.551“).

Cutting parameters (start)		
fzm **0,02 mm**	hmax **0,03 mm**	Vc **Page 192**

Suitable toolholders on page
66, 67, 68, 69, 70

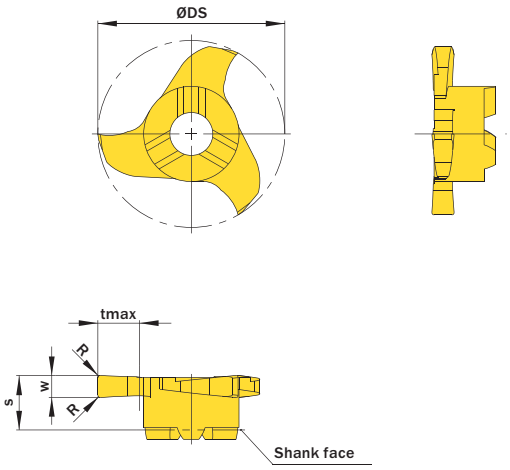
Similar tools on page
27

Please read add. notes
ALL (Page 199), H01 (Page 200)

SP HM Legend **203**

Scan QR-Code Or Visit **www.simtek.info/cp/359**

This page contains inch tools! These tools are indicated by **inch** on the right hand side.



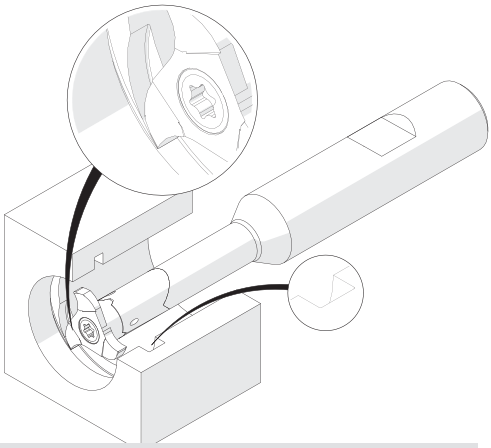


Image shows exemplary application possibility with similar tool.

Drawing shows: S16.0200.02 G

w +0,02 mm / 0.001“	Nominal width of groove	R	ØDmin (min. bore)	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	tmax	S	ØDS	Number of cutting edges	Connectcode www.simtek.com/ccode	
mm/inch	mm/inch	mm/inch	mm/inch				mm/inch	mm/inch	mm/inch			
1,,04	-	-	14,0	**S14.0100.00 G**	AVH6	X800 GT42	2,5	4,5	13,7	3	SD08.0	
1,0	-	0,1	14,0	**S14.0100.01 G**	ADNZ	X800 GT42	2,5	4,5	13,7	3	SD08.0	
0.046“	-	-	0.551“	**S14.0117.00 G**	AB4V	X800 GT42	0.098“	0.177“	0.539“	3	SD08.0	inch
1,42	-	-	14,0	**S14.0142.00 G**	AAD1	X800 GT42	2,5	4,5	13,7	3	SD08.0	
1,5	-	0,2	14,0	**S14.0150.02 G**	AGJ3	X800 GT42	2,5	4,5	13,7	3	SD08.0	
0.062“	-	0.008“	0.551“	**S14.0157.02 G**	AHP3	X800 GT42	0.098“	0.177“	0.539“	3	SD08.0	inch
2,0	-	0,2	14,0	**S14.0200.02 G**	AMG7	X800 GT42	2,5	4,5	13,7	3	SD08.0	
0.094“	-	0.008“	0.551“	**S14.0239.02 G**	APC6	X800 GT42	0.098“	0.177“	0.539“	3	SD08.0	inch
2,5	-	0,2	14,0	**S14.0250.02 G**	ANZT	X800 GT42	2,5	4,5	13,7	3	SD08.0	

Order example: **S14.0250.02 G X800** (X800 = Grade)

simtek individual | S14. w, 1/100 mm, 4 Digits . R, 1/100 mm , 3 Digits Tolerance

Example Part number: **S14.0179.030 XG**

simmill SX
SIMTEK Milling Tools Type SX

General Groove Milling

General groove milling. For use in bores as of minimum bore diameter 16,0 mm (0.630“).

Cutting parameters (start)		
fzm **0,02 mm**	hmax **0,03 mm**	Vc **Page 192**

Suitable toolholders on page
66, 67, 68, 69, 70

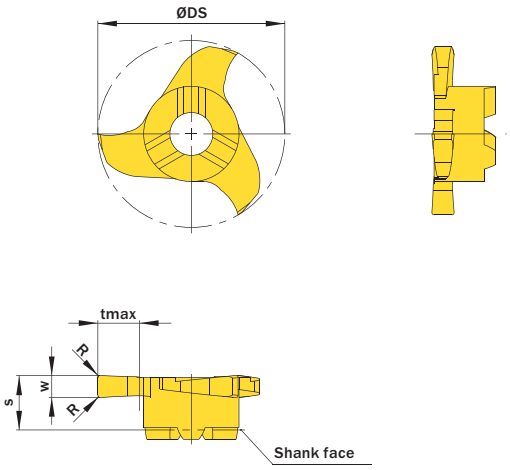
Similar tools on page
27

Please read add. notes
ALL (Page 199), H01 (Page 200)

SP HM Legend **203**

Scan QR-Code Or Visit **www.simtek.info/cp/368**

This page contains inch tools! These tools are indicated by **inch** on the right hand side.



Drawing shows: S16.0200.02 G

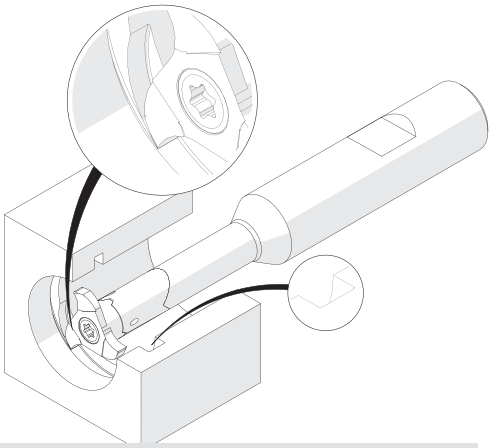


Image shows exemplary application possibility with similar tool.

w +0,02 mm / 0.001“ mm/inch	Nominal width of groove mm/inch	R mm/inch	ØDmin (min. bore) mm/inch	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	tmax mm/inch	S mm/inch	ØDS mm/inch	Number of cutting edges	Connectcode www.simtek.com/ccode	
0.046“	-	-	0.630“	**S16.0117.00 G**	ABPS	X800 GT42	0.138“	0.177“	0.618“	3	SD08.0	inch
1,42	-	-	16,0	**S16.0142.00 G**	AFV8	X800 GT42	3,5	4,5	15,7	3	SD08.0	
1,5	-	0,2	16,0	**S16.0150.02 G**	AMBC	X800 GT42	3,5	4,5	15,7	3	SD08.0	
0.062“	-	0.008“	0.630“	**S16.0157.02 G**	ACMX	X800 GT42	0.138“	0.177“	0.618“	3	SD08.0	inch
2,0	-	0,2	16,0	**S16.0200.02 G**	ABYC	X800 GT42	3,5	4,5	15,7	3	SD08.0	
0.094“	-	0.008“	0.630“	**S16.0239.02 G**	AFN8	X800 GT42	0.138“	0.177“	0.618“	3	SD08.0	inch
2,5	-	0,2	16,0	**S16.0250.02 G**	AF11	X800 GT42	3,5	4,5	15,7	3	SD08.0	
0.125“	-	0.008“	0.630“	**S16.0318.02 G**	A4SB	X800 GT42	0.138“	0.177“	0.618“	3	SD08.0	inch

Order example: **S16.0200.02 G X800** (X800 = Grade)

simtek individual | S16. w, 1/100 mm, 4 Digits . R, 1/100 mm , 3 Digits Tolerance

Example Part number: **S16.0179.030 XG**

simmill SX
SIMTEK Milling Tools Type SX

General Groove Milling

General groove milling. For use in bores as of minimum bore diameter 16,0 mm.

Cutting parameters (start)		
fzm **0,02 mm**	hmax **0,03 mm**	Vc **Page 192**

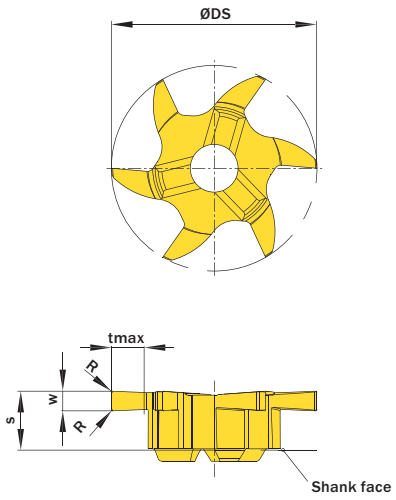
Suitable toolholders on page
66, 67, 68, 69, 70

Similar tools on page
27

Please read add. notes
ALL (Page 199), H01 (Page 200)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/968**



Drawing shows: S06.0150.02.16 G

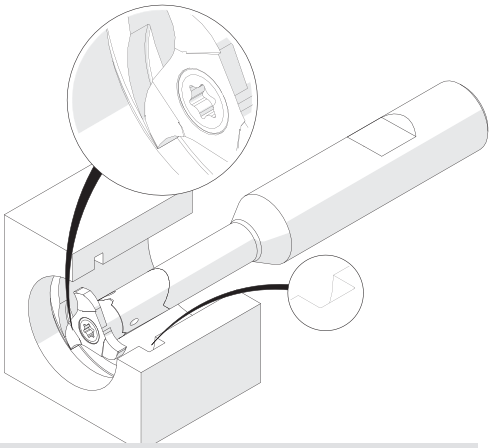


Image shows exemplary application possibility with similar tool.

w +0,02	Nominal width of groove	R	ØDmin (min. bore)	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	tmax	S	ØDS	Number of cutting edges	Connectcode www.simtek.com/ccode
mm	mm	mm	mm				mm	mm	mm		
1,5	-	0,2	16,0	**S06.0150.02.16 G**	AU7Z	X800 GT42	3,5	4,5	15,7	6	SD08.0
2,0	-	0,2	16,0	**S06.0200.02.16 G**	AU70	X800 GT42	3,5	4,5	15,7	6	SD08.0
2,5	-	0,2	16,0	**S06.0250.02.16 G**	AU71	X800 GT42	3,5	4,5	15,7	6	SD08.0

Order example: **S06.0250.02.16 G X800** (X800 = Grade)

simtek individual | S06. w, 1/100 mm, 4 Digits . R, 1/100 mm , 3 Digits .16 Tolerance

Example Part number: **S06.0179.030.16 XG**

simmill SX
SIMTEK Milling Tools Type SX

Circlip Ring Groove Milling, internal

Circlip ring groove milling in bores as of bore diameter 16,0 mm. For use in most materials.

Cutting parameters (start)		
fzm **0,02 mm**	hmax **0,03 mm**	Vc **Page 192**

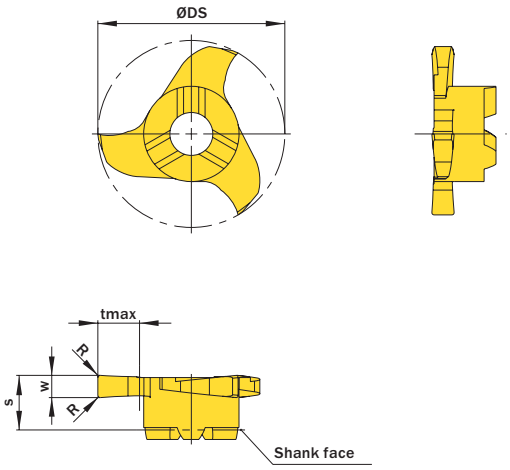
Suitable toolholders on page
66, 67, 68, 69, 70

Similar tools on page
29

Please read add. notes
ALL (Page 199), H01 (Page 200)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/1138**



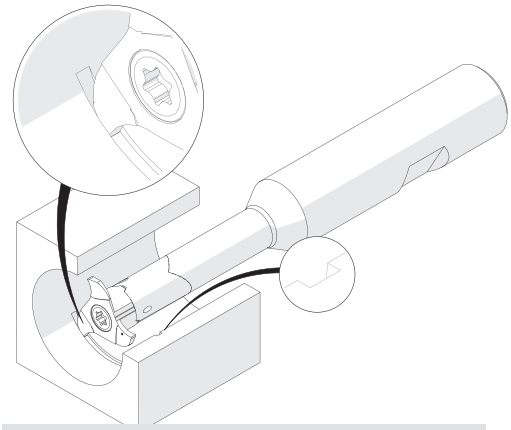


Image shows exemplary application possibility with similar tool.

w -0,01	Nominal width of groove	R	ØDmin (min. bore)	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	tmax	S	ØDS	Number of cutting edges	Connectcode www.simtek.com/ccode
mm	mm	mm	mm				mm	mm	mm		
1,71	1,6	0,1	16,0	**S16.0160.01 G**	AJ4J	X800 GT42	3,5	4,5	15,7	3	SD08.0

Order example: **S16.0160.01 G X800** (X800 = Grade)

simmill SX
SIMTEK Milling Tools Type SX

General Groove Milling, for smooth cuts

General groove milling. With a new cutting edge geometry for very smooth cuts and better surface quality. For use in bores as of minimum bore diameter 16,0 mm.

Cutting parameters (start)		
fzm **0,02 mm**	hmax **0,03 mm**	Vc **Page 192**

Suitable toolholders on page
66, 67, 68, 69, 70

Similar tools on page
27

Please read add. notes
ALL (Page 199), H01 (Page 200)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/1122**

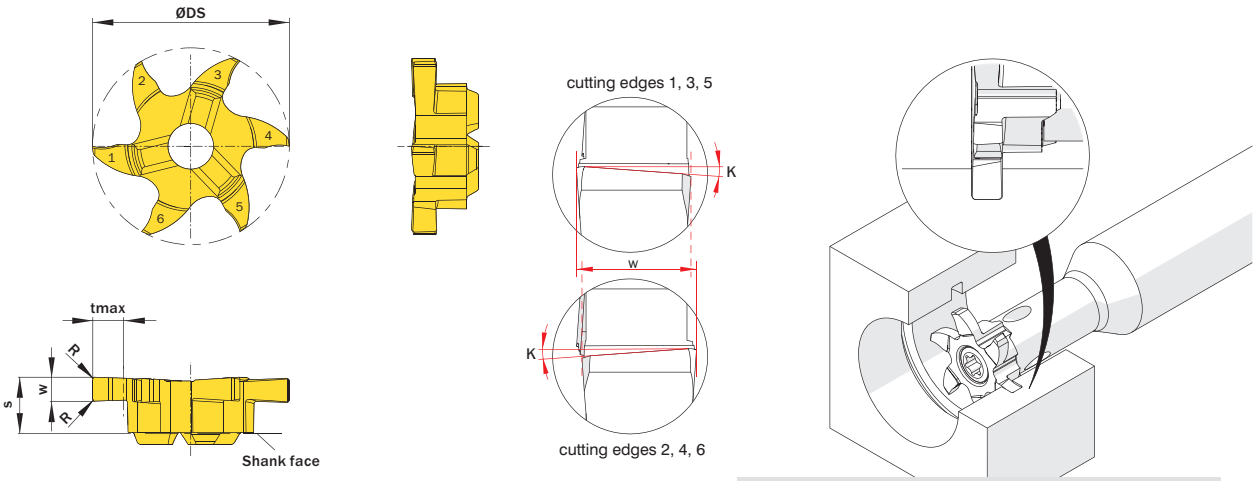


Image shows exemplary application possibility with similar tool.

Drawing shows: S06.0200.020.16 GY

w +0,02	Nominal width of groove	R	ØDmin (min. bore)	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	tmax	S	ØDS	Number of cutting edges	Connectcode www.simtek.com/ccode
mm	mm	mm	mm				mm	mm	mm		
1,5	-	0,2	16,0	**S06.0150.020.16 GY**	AYF0	X800 GT42	3,5	4,5	15,7	6	SD08.0
2,0	-	0,2	16,0	**S06.0200.020.16 GY**	AYF1	X800 GT42	3,5	4,5	15,7	6	SD08.0
2,5	-	0,2	16,0	**S06.0250.020.16 GY**	AYF2	X800 GT42	3,5	4,5	15,7	6	SD08.0

Order example: **S06.0250.020.16 GY X800** (X800 = Grade)

simmill SX
SIMTEK Milling Tools Type SX

General Groove Milling in light alloys

General groove milling in bores as of bore diameter 16,0 mm. Highpositive rake angle for use in light alloys.

Cutting parameters (start)		
fzm **0,02 mm**	hmax **0,03 mm**	Vc **Page 192**

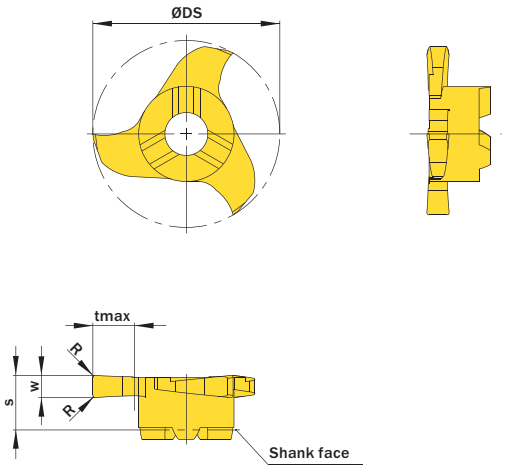
Suitable toolholders on page
66, 67, 68, 69, 70

Similar tools on page
28

Please read add. notes
ALL (Page 199), H01 (Page 200)

SP HM LM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/360**



Drawing shows: S16.0200.42 C

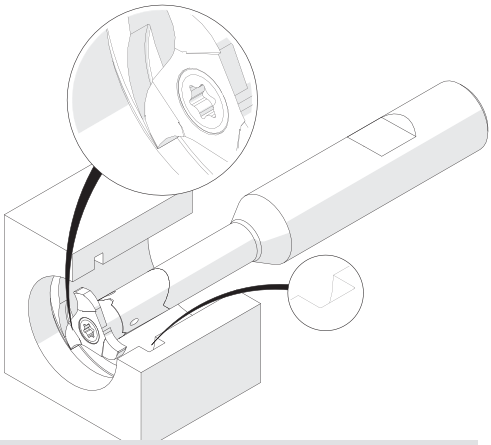


Image shows exemplary application possibility with similar tool.

ØDmin (min. bore)	w +0,02	Nominal width of groove	R	Part number	Webcode www.simtek.com/webcode	Our first choice	Number of cutting edges	ØDS	S	tmax	Connectcode www.simtek.com/ccode
mm	mm	mm	mm			N		mm	mm	mm	
16,0	1,04	-	-	**S16.0100.40 C**	AX5H	HF25	3	15,7	4,5	3,5	SD08.0
16,0	2,0	-	0,2	**S16.0200.42 C**	ANVD	HF25	3	15,7	4,5	3,5	SD08.0
16,0	2,5	-	0,2	**S16.0250.42 C**	AF2X	HF25	3	15,7	4,5	3,5	SD08.0

Order example: **S16.0200.42 C HF25** (HF25 = Grade)

simtek individual | S16. w, 1/100 mm, 4 Digits . R, 1/100 mm , 3 Digits Tolerance C

Example Part number: **S16.0179.030 XG C**

simmill SX
SIMTEK Milling Tools Type SX

Full Radius Groove Milling

Full radius groove milling. For use in bores as of minimum bore diameter 16,0 mm.

Cutting parameters (start)		
fzm **0,02 mm**	hmax **0,03 mm**	Vc **Page 192**

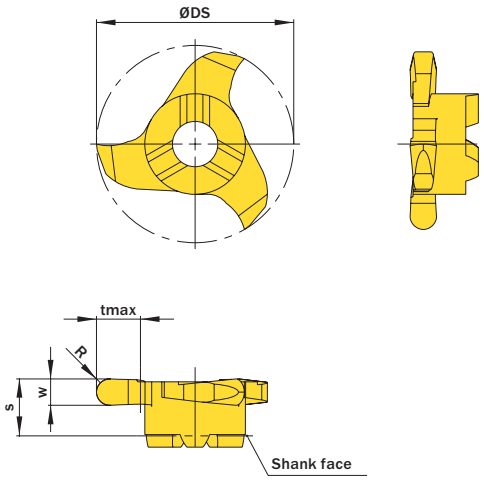
Suitable toolholders on page
66, 67, 68, 69, 70

Similar tools on page
31

Please read add. notes
ALL (Page 199), H01 (Page 200)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/401**



Drawing shows: S16.0011.22 V

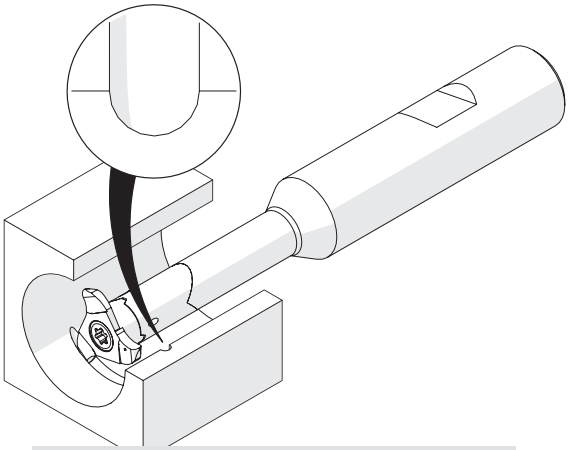


Image shows exemplary application possibility with similar tool.

R	w +0,03	ØDmin (min. bore)	Part number	Webcode www.simtek.com/webcode	Our first choice	tmax	S	ØDS	Number of cutting edges	Connectcode www.simtek.com/ccode
mm	mm	mm			P M K N S	mm	mm	mm		
1,1	2,2	16,0	**S16.0011.22 V**	ACJP	X800 GT42	3,5	4,5	15,7	3	SD08.0

Order example: **S16.0011.22 V X800** (X800 = Grade)

simmill SX
SIMTEK Milling Tools Type SX

Thread milling, metric ISO-Thread, partial profile

Multi-purpose milling inserts. The given „Pitch (as of)“ is conforming to standards. The „Pitch (up to)“ is possible too at the expense of conformity. Please read additional notes.

Cutting parameters (start)		
fzm **0,02 mm**	hmax **0,03 mm**	Vc **Page 192**

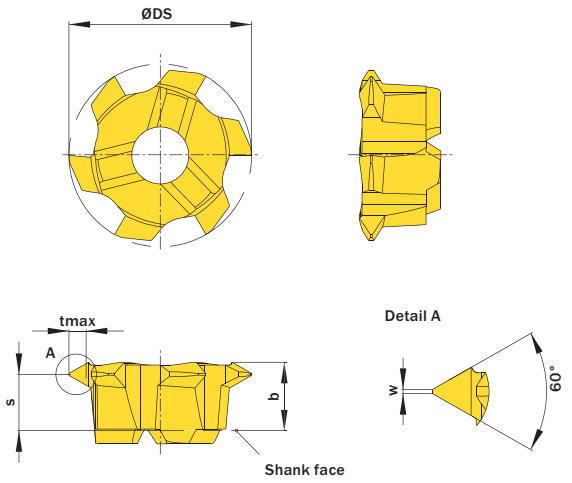
Suitable toolholders on page
66, 67, 68, 69, 70

Similar tools on page
32

Please read add. notes
ALL (Page 199), H03 (Page 201), H04 (Page 202)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/970**



Drawing shows: S06.0720.01.12 M

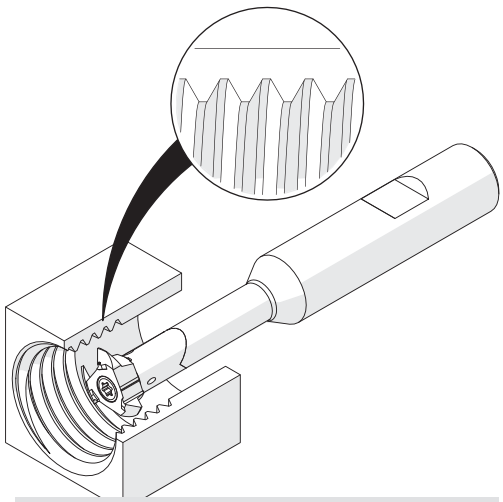


Image shows exemplary application possibility with similar tool.

As of thread size	Pitch (as of) mm	Pitch (up to) mm	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	b mm	S mm	w mm	tmax mm	ØDS mm	Number of cutting edges	Connectcode www.simtek.com/ccode
M16	1,0	1,75	**S06.0510.01.12 M**	AU72	X800 GT42	4,2	3,4	0,13	1,08	12,0	6	SD08.0|SD09.5
M16	1,0	2,0	**S06.0720.01.12 M**	AU73	X800 GT42	4,2	3,6	0,13	1,25	12,3	6	SD08.0|SD09.5
M18	1,5	2,75	**S06.0815.01.13 M**	AU74	X800 GT42	4,2	3,0	0,19	1,67	13,2	6	SD08.0|SD09.5
M18	2,0	3,0	**S06.2530.01.13 M**	AU75	X800 GT42	4,2	2,8	0,25	1,78	13,3	6	SD08.0|SD09.5

Order example: **S06.0720.01.12 M X800** (X800 = Grade)

The mentioned thread size „As of thread size“ is based on the starting pitch.
Please read the additional notes mentioned in the information area on the top right corner of this page.

simmill SX
SIMTEK Milling Tools Type SX

Thread milling, metric ISO-Thread, partial profile

Multi-purpose milling inserts. The given „Pitch (as of)“ is conforming to standards. The „Pitch (up to)“ is possible too at the expense of conformity. Please read additional notes.

Cutting parameters (start)		
fzm **0,02 mm**	hmax **0,03 mm**	Vc **Page 192**

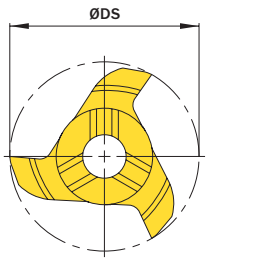
Suitable toolholders on page
66, 67, 68, 69, 70

Similar tools on page
32

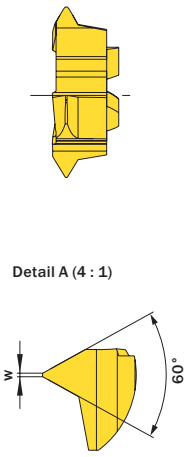
Please read add. notes
ALL (Page 199), H03 (Page 201), H04 (Page 202)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/393**



Drawing shows: S16.0720.01 M



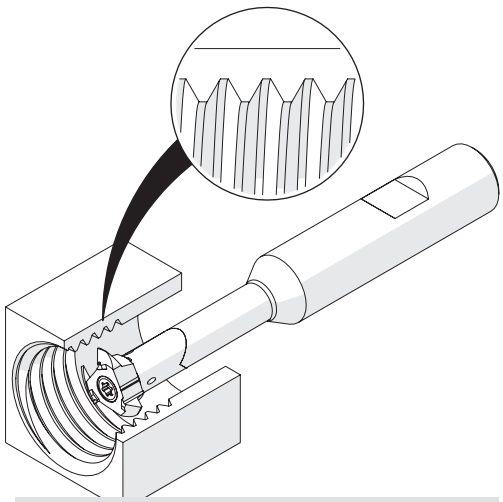


Image shows exemplary application possibility with similar tool.

As of thread size	Pitch (as of) mm	Pitch (up to) mm	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	b mm	S mm	w mm	tmax mm	ØDS mm	Number of cutting edges	Connectcode www.simtek.com/ccode
M18	1,0	1,75	**S16.0510.01 M**	AA4J	X800 GT42	4,6	3,8	0,12	1,08	15,7	3	SD08.0|SD09.5
M18	1,0	2,0	**S16.0720.01 M**	AJE4	X800 GT42	4,6	3,5	0,12	1,25	15,7	3	SD08.0|SD09.5
M20	1,5	2,75	**S16.0815.01 M**	AGS8	X800 GT42	4,6	3,5	0,19	1,67	15,7	3	SD08.0|SD09.5
M22	2,5	3,0	**S16.2530.01 M**	AEES	X800 GT42	4,6	3,4	0,31	1,78	15,7	3	SD08.0|SD09.5

Order example: **S16.0815.01 M X800** (X800 = Grade)

Please read the additional notes mentioned in the information area on the top right corner of this page.
The mentioned thread size „As of thread size“ is based on the starting pitch.

More information about the **multi-purpose thread milling tools** and the **thread size suitability** can be found on page 204

simmill SX
SIMTEK Milling Tools Type SX

Thread milling, metric ISO-Thread, full profile

Thread milling of metric ISO-thread, full profile.

Cutting parameters (start)		
fzm **0,02 mm**	hmax **0,03 mm**	Vc **Page 192**

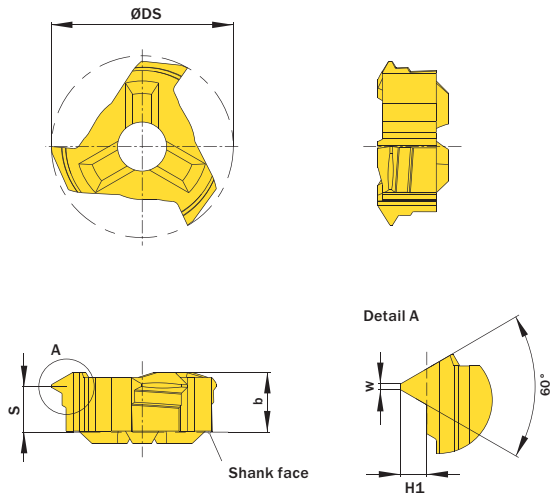
Suitable toolholders on page
66, 67, 68, 69, 70

Similar tools on page
33

Please read add. notes
ALL (Page 199)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/1087**



Drawing shows: S14.0815.02 M

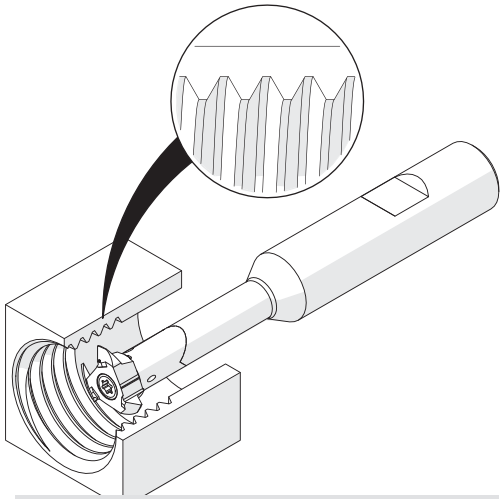


Image shows exemplary application possibility with similar tool.

As of thread size	H1 mm	Pitch (as of) mm	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	Number of cutting edges	b mm	ØDS mm	S mm	w mm	Connectcode www.simtek.com/ccode
M16	0,54	1,0	**S14.0510.02 M**	AXXY	X800 GT42	3	4,5	13,7	3,6	0,13	SD08.0|SD09.5
M18	0,81	1,5	**S14.0815.02 M**	AXXZ	X800 GT42	3	4,5	13,7	3,5	0,19	SD08.0|SD09.5
M18	0,95	1,75	**S14.0917.02 M**	AXX0	X800 GT42	3	4,5	13,7	3,4	0,2	SD08.0|SD09.5
M18	1,08	2,0	**S14.1020.02 M**	AXX1	X800 GT42	3	4,5	13,7	3,3	0,25	SD08.0|SD09.5
M20	1,35	2,5	**S14.1325.02 M**	AXX2	X800 GT42	3	4,5	13,7	3,1	0,31	SD08.0|SD09.5
M22	1,62	3,0	**S14.1630.02 M**	AXX3	X800 GT42	3	4,5	13,7	2,9	0,37	SD08.0|SD09.5

Order example: **S14.1325.02 M X800** (X800 = Grade)

More information about the **multi-purpose thread milling tools** and the **thread size suitability** can be found on page 204

simmill SX
SIMTEK Milling Tools Type SX

Whitworth Pipe Thread Milling, full profile

Whitworth pipe thread milling, full profile with six cutting edges and tooldiameter of 13,7 mm (0.539“).

Cutting parameters (start)		
fzm **0,02 mm**	hmax **0,03 mm**	Vc **Page 192**

Suitable toolholders on page
66, 67, 68, 69, 70

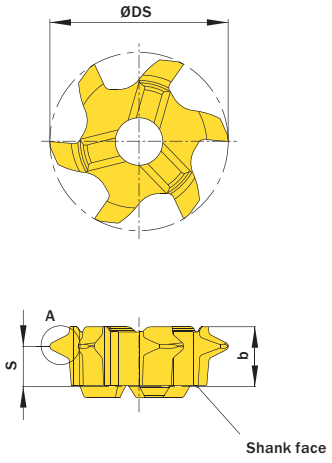
Similar tools on page
34

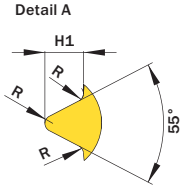
Please read add. notes
ALL (Page 199)

SP HM Legend **203**

Scan QR-Code Or Visit **www.simtek.info/cp/982**

This page contains inch tools! These tools are indicated by **inch** on the right hand side.





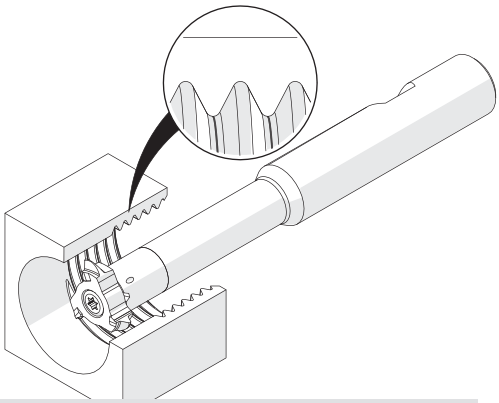


Image shows exemplary application possibility with similar tool.

Drawing shows: S06.1423.11.14 M

H1 inch	Pitch (as of) inch	Threads/Inch	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	R inch	b inch	S inch	ØDS inch	As of thread size	Alternativ as of nominal diameter inch	Number of cutting edges	Connectcode www.simtek.com/ccode	
0.046“	0.071“	14	**S06.1118.14.14 M**	AVKB	X800 GT42	0.009“	0.181“	0.130“	0.539“	G 1/2“	0.689“	6	SD08.0|SD09.5	inch
0.058“	0.091“	11	**S06.1423.11.14 M**	AVKC	X800 GT42	0.012“	0.181“	0.122“	0.539“	G 1“	0.740“	6	SD08.0|SD09.5	inch

Order example: **S06.1118.14.14 M X800** (X800 = Grade)

simmill SX
SIMTEK Milling Tools Type SX

Whitworth Pipe Thread Milling, full profile

Whitworth pipe thread milling, full profile with three cutting edges and tooldiameter of 15,7 mm (0.618“).

Cutting parameters (start)		
fzm **0,02 mm**	hmax **0,03 mm**	Vc **Page 192**

Suitable toolholders on page
66, 67, 68, 69, 70

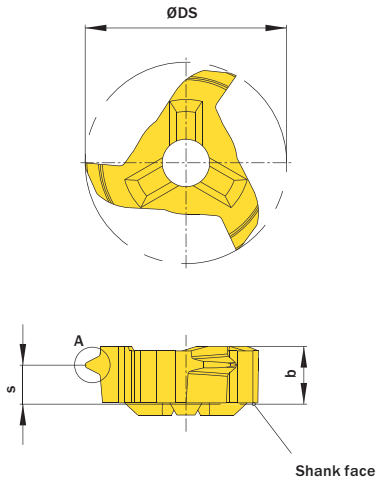
Similar tools on page
34

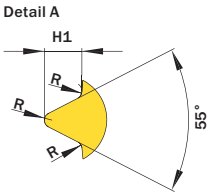
Please read add. notes
ALL (Page 199)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/938**

This page contains inch tools! These tools are indicated by **inch** on the right hand side.





Drawing shows: S16.1118.14 M

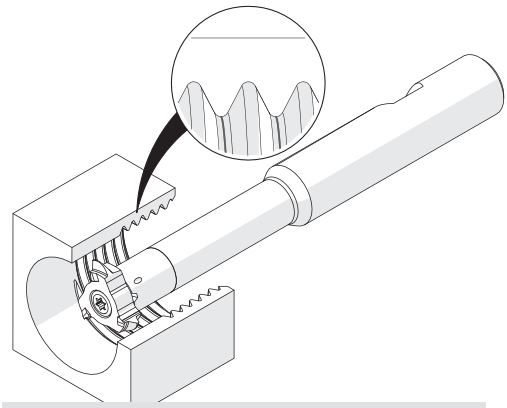


Image shows exemplary application possibility with similar tool.

H1 inch	Pitch (as of) inch	Threads/Inch	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	R inch	b inch	S inch	ØDS inch	As of thread size	Alternativ as of nominal diameter inch	Number of cutting edges	Connectcode www.simtek.com/ccode	
0.046“	0.071“	14	**S16.1118.14 M**	AT8A	X800 GT42	0.009“	0.177“	0.118“	0.618“	G 5/8“	0.866“	3	SD08.0|SD09.5	inch
0.058“	0.091“	11	**S16.1423.11 M**	AT79	X800 GT42	0.012“	0.177“	0.110“	0.618“	G 1“	0.925“	3	SD08.0|SD09.5	inch

Order example: **S16.1118.14 M X800** (X800 = Grade)

simmill SX
SIMTEK Milling Tools Type SX

Chamfering

Chamfering on both sides. For use in bores as of minimum bore diameter 14,0 mm.

Cutting parameters (start)		
fzm **0,02 mm**	hmax **0,03 mm**	Vc **Page 192**

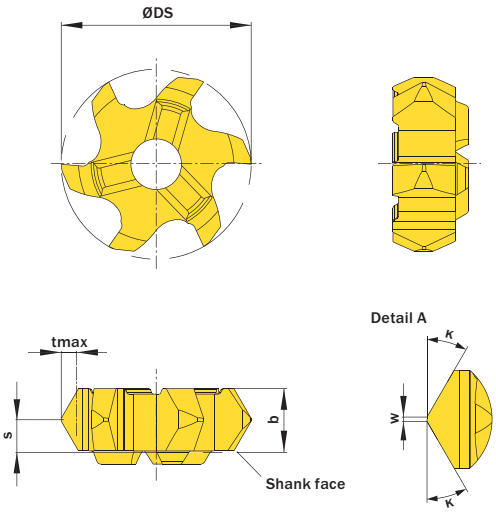
Suitable toolholders on page
66, 67, 68, 69, 70

Similar tools on page
35

Please read add. notes
ALL (Page 199)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/972**



Drawing shows: S06.3030.02.14 F

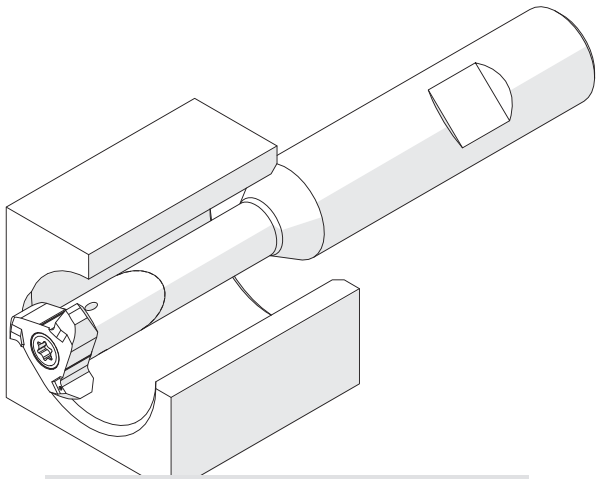


Image shows exemplary application possibility with similar tool.

κ	w	ØDmin (min. bore)	Part number	Webcode www.simtek.com/webcode	Our first choice		b	S	tmax	ØDS	Number of cutting edges	Connectcode www.simtek.com/ccode
	mm	mm			P M K N	S	mm	mm	mm	mm		
15°	0,2	14,0	**S06.1515.02.14 F**	AU77	X800	GT42	4,6	2,4	0,35	13,7	6	SD08.0|SD09.5
20°	0,2	14,0	**S06.2020.02.14 F**	AU78	X800	GT42	4,6	2,4	0,45	13,7	6	SD08.0|SD09.5
30°	0,2	14,0	**S06.3030.02.14 F**	AU79	X800	GT42	4,6	2,4	0,7	13,7	6	SD08.0|SD09.5
45°	0,2	14,0	**S06.4545.02.14 F**	AU76	X800	GT42	4,6	2,4	1,8	13,7	6	SD08.0|SD09.5

Order example: **S06.4545.02.14 F X800** (X800 = Grade)

simmill SX
SIMTEK Milling Tools Type SX

Chamfering

Chamfering on both sides. For use in bores as of minimum bore diameter 16,0 mm.

Cutting parameters (start)		
fzm **0,02 mm**	hmax **0,03 mm**	Vc **Page 192**

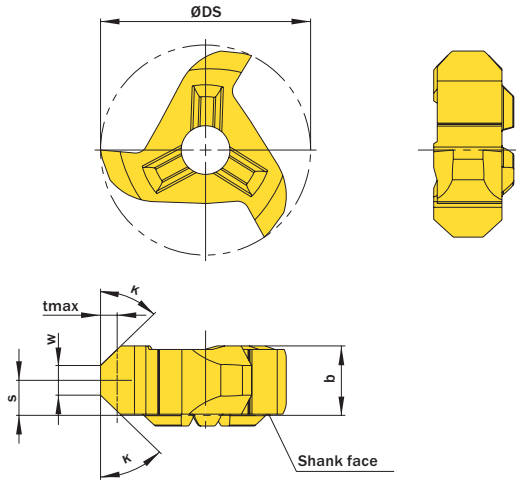
Suitable toolholders on page
66, 67, 68, 69, 70

Similar tools on page
35

Please read add. notes
ALL (Page 199)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/406**



Drawing shows: S16.4545.58 F

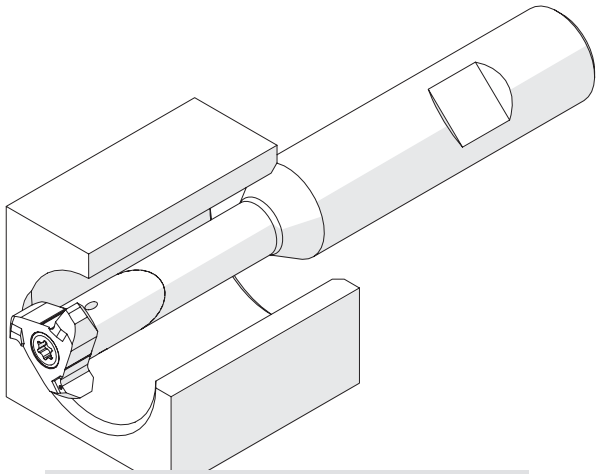


Image shows exemplary application possibility with similar tool.

κ	w	ØDmin (min. bore)	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	tmax	b	S	ØDS	Number of cutting edges	Connectcode www.simtek.com/ccode
	mm	mm				mm	mm	mm	mm		
45°	0,2	16,0	**S16.4545.02 F**	AF2U	X800 GT42	1,8	4,6	2,3	15,7	3	SD08.0 | SD09.5
45°	1,4	16,0	**S16.4545.45 F**	AH98	X800 GT42	1,4	4,5	2,3	15,7	3	SD08.0 | SD09.5

Order example: **S16.4545.02 F X800** (X800 = Grade)

simmill UX
SIMTEK Milling Tools Type UX

As of page 27 Application overview

Milling Cutter Shank, cylindrical (DIN 6535 HA)

Anti-vibration solid carbide type with through coolant and shank according to DIN 6535 HA.

Tightening torque (screw)
4,5 Nm

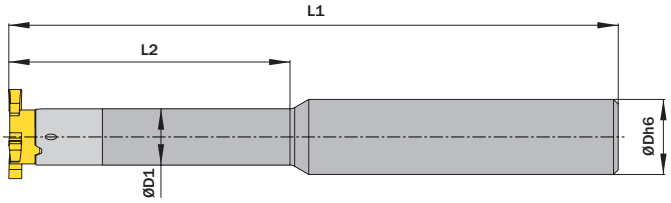
Similar tools on page
39

Please read add. notes
ALL (Page 199)

TW HM | Legend **203**

Scan **QR-Code** | Or Visit **www.simtek.info/cp/271**

This page contains inch tools! These tools are indicated by **inch** on the right hand side.



ØDh6 mm/inch	ØD1 mm/inch	L2 mm/inch	Part number	Webcode www.simtek.com/iwebcode	L1 mm/inch	Screw	Screw driver	Connectcode www.simtek.com/ccode	
▼ ØDh6 = 12,0 mm									
12,0	9,0	32,0	**U18.1209.32 A HM**	ACQC	100,0	UM4x12T15F	T15F	UD09.0	
12,0	9,0	45,0	**U18.1209.45 A HM**	AGK5	100,0	UM4x12T15F	T15F	UD09.0	
12,0	9,0	64,0	**U18.1209.64 A HM**	AGEV	120,0	UM4x12T15F	T15F	UD09.0	
▼ ØDh6 = 0.500“									
0.500“	0.354“	1.260“	**U18.0.500.09.32 A HM**	AK8V	3.937“	UM4x12T15F	T15F	UD09.0	inch
0.500“	0.354“	1.772“	**U18.0.500.09.45 A HM**	AH50	3.937“	UM4x12T15F	T15F	UD09.0	inch
0.500“	0.354“	2.520“	**U18.0.500.09.64 A HM**	AD8F	4.724“	UM4x12T15F	T15F	UD09.0	inch
▼ ØDh6 = 0.625“									
0.625“	0.354“	0.984“	**U18.0.625.09.25 A HM**	AE8X	3.661“	UM4x12T15F	T15F	UD09.0	inch
0.625“	0.354“	1.260“	**U18.0.625.09.32 A HM**	ACQZ	3.937“	UM4x12T15F	T15F	UD09.0	inch
0.625“	0.354“	1.772“	**U18.0.625.09.45 A HM**	AH0T	4.331“	UM4x12T15F	T15F	UD09.0	inch
0.625“	0.354“	2.520“	**U18.0.625.09.64 A HM**	AK2U	5.118“	UM4x12T15F	T15F	UD09.0	inch
0.625“	0.512“	2.520“	**U18.0.625.13.64 A HM**	AHQK	4.331“	UM4x12T15F	T15F	UD13.0	inch
0.625“	0.512“	2.520“	**U18.0.625.13.66 A HM**	ADZE	5.118“	UM4x12T15F	T15F	UD13.0	inch
▼ ØDh6 = 16,0 mm									
16,0	9,0	25,0	**U18.1609.25 A HM**	AAD3	93,0	UM4x12T15F	T15F	UD09.0	
16,0	9,0	32,0	**U18.1609.32 A HM**	AAKX	100,0	UM4x12T15F	T15F	UD09.0	
16,0	9,0	45,0	**U18.1609.45 A HM**	AMCV	110,0	UM4x12T15F	T15F	UD09.0	
16,0	9,0	64,0	**U18.1609.64 A HM**	ANX9	130,0	UM4x12T15F	T15F	UD09.0	
16,0	13,0	64,0	**U18.1613.64 A HM**	AFVT	110,0	UM4x12T15F	T15F	UD13.0	
16,0	13,0	66,0	**U18.1613.66 A HM**	AD9W	130,0	UM4x12T15F	T15F	UD13.0	

Order example: **U18.1609.64 A HM**

Milling cutter shank, cylindrical (DIN 1835 A)

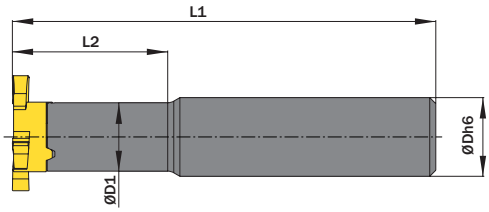
Steel type with shank according to DIN 1835 A.

Tightening torque (screw)	**4,5 Nm**
Similar tools on page	**40**
Please read add. notes	**ALL (Page 199)**

TW ST Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/273**

This page contains inch tools! These tools are indicated by **inch** on the right hand side.



ØDh6 mm/inch	ØD1 mm/inch	L2 mm/inch	Part number	Webcode www.simtek.com/webcode	With through coolant supply	L1 mm/inch	Screw	Screw driver	Connectcode www.simtek.com/ccode	
▼ ØDh6 = 10,0 mm										
10,0	9,0	17,0	**U18.1009.17 A ST**	AM1T	No	60,0	UM4x12T15F	T15F	UD09.0	
▼ ØDh6 = 12,0 mm										
12,0	9,0	18,0	**U18.1209.18 A ST**	AV6D	Yes	80,0	UM4x12T15F	T15F	UD09.0	
▼ ØDh6 = 13,0 mm										
13,0	9,0	25,0	**U18.1309.25 A ST**	AKZ5	No	70,0	UM4x12T15F	T15F	UD09.0	
▼ ØDh6 = 0.625“										
0.625“	0.354“	0.709“	**U18.0.625.09.18 A ST**	AN7U	Yes	3.150“	UM4x12T15F	T15F	UD09.0	inch
▼ ØDh6 = 16,0 mm										
16,0	9,0	18,0	**U18.1609.18 A ST**	AGU5	Yes	80,0	UM4x12T15F	T15F	UD09.0	

Order example: **U18.1609.18 A ST**

Milling Cutter Shank, Weldon (DIN 6535 HB)

Anti-vibration solid carbide type with through coolant and shank according to DIN 6535 HB.

Tightening torque (screw)
4,5 Nm

Similar tools on page
41

Please read add. notes
ALL (Page 199)

TW HM Legend **203**

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This page contains inch tools! These tools are indicated by **inch** on the right hand side.

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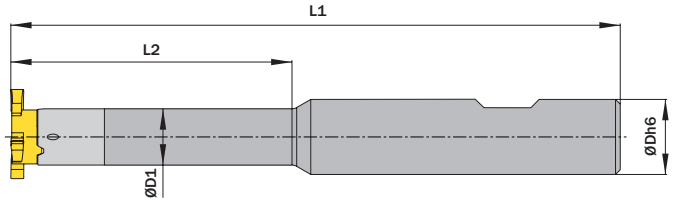


ØDh6 mm/inch	ØD1 mm/inch	L2 mm/inch	Part number	Webcode www.simtek.com/iwebcode	L1 mm/inch	Screw	Screw driver	Connectcode www.simtek.com/ccode	
▼ ØDh6 = 12,0 mm									
12,0	9,0	32,0	**U18.1209.32 B HM**	AHQG	100,0	UM4x12T15F	T15F	UD09.0	
12,0	9,0	45,0	**U18.1209.45 B HM**	AGXG	100,0	UM4x12T15F	T15F	UD09.0	
12,0	9,0	64,0	**U18.1209.64 B HM**	AC32	120,0	UM4x12T15F	T15F	UD09.0	
▼ ØDh6 = 0.500“									
0.500“	0.354“	1.260“	**U18.0.500.09.32 B HM**	AMW6	3.937“	UM4x12T15F	T15F	UD09.0	inch
0.500“	0.354“	1.772“	**U18.0.500.09.45 B HM**	AEW9	3.937“	UM4x12T15F	T15F	UD09.0	inch
0.500“	0.354“	2.520“	**U18.0.500.09.64 B HM**	AEYX	4.724“	UM4x12T15F	T15F	UD09.0	inch
▼ ØDh6 = 0.625“									
0.625“	0.354“	0.984“	**U18.0.625.09.25 B HM**	AET2	3.661“	UM4x12T15F	T15F	UD09.0	inch
0.625“	0.354“	1.260“	**U18.0.625.09.32 B HM**	ACQM	3.937“	UM4x12T15F	T15F	UD09.0	inch
0.625“	0.354“	1.772“	**U18.0.625.09.45 B HM**	AD9P	4.331“	UM4x12T15F	T15F	UD09.0	inch
0.625“	0.354“	2.520“	**U18.0.625.09.64 B HM**	AE40	5.118“	UM4x12T15F	T15F	UD09.0	inch
0.625“	0.512“	2.520“	**U18.0.625.13.64 B HM**	APQG	4.331“	UM4x12T15F	T15F	UD13.0	inch
0.625“	0.512“	2.598“	**U18.0.625.13.66 B HM**	AHS9	5.118“	UM4x12T15F	T15F	UD13.0	inch
▼ ØDh6 = 16,0 mm									
16,0	9,0	25,0	**U18.1609.25 B HM**	AJ83	93,0	UM4x12T15F	T15F	UD09.0	
16,0	9,0	32,0	**U18.1609.32 B HM**	AH75	100,0	UM4x12T15F	T15F	UD09.0	
16,0	9,0	45,0	**U18.1609.45 B HM**	AA3N	110,0	UM4x12T15F	T15F	UD09.0	
16,0	9,0	64,0	**U18.1609.64 B HM**	ACGX	130,0	UM4x12T15F	T15F	UD09.0	
16,0	12,0	45,0	**U18.1612.45 B HM**	ADG9	110,0	UM4x12T15F	T15F	UD12.0	
16,0	13,0	64,0	**U18.1613.64 B HM**	AMT0	110,0	UM4x12T15F	T15F	UD13.0	
16,0	13,0	66,0	**U18.1613.66 B HM**	AJK6	130,0	UM4x12T15F	T15F	UD13.0	

Order example: **U18.1609.64 B HM**

Milling Cutter Shank, Weldon (DIN 1835 B)

Steel type with through coolant and shank according to DIN 1835 B.

ATightening torque (screw)
4,5 Nm

Similar tools on page
42

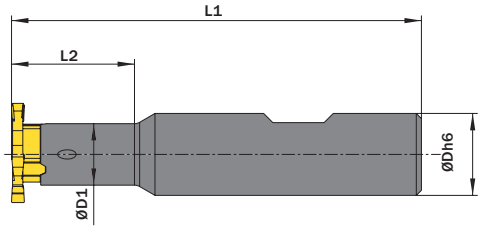
Please read add. notes
ALL (Page 199)

TW ST Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/422**

This page contains inch tools! These tools are indicated by **inch** on the right hand side.

Whistle-Notch fixation available upon request.



ØDh6 mm/inch	ØD1 mm/inch	L2 mm/inch	Part number	Webcode www.simtek.com/iwebcode	L1 mm/inch	Screw	Screw driver	Connectcode www.simtek.com/ccode	
▼ ØDh6 = 12,0 mm									
12,0	9,0	18,0	**U18.1209.18 B ST**	AV6E	80,0	UM4x12T15F	T15F	UD09.0	
▼ ØDh6 = 0.625“									
0.625“	0.354“	0.709“	**U18.0.625.09.18 B ST**	AFHD	3.150“	UM4x12T15F	T15F	UD09.0	inch
▼ ØDh6 = 16,0 mm									
16,0	9,0	18,0	**U18.1609.18 B ST**	ABP7	80,0	UM4x12T15F	T15F	UD09.0	

Order example: **U18.1609.18 B ST**

Milling cutter shank, for collet chucks (DIN6499)

For collet chucks according to DIN6499-A.

Tightening torque (screw)
4,5 Nm

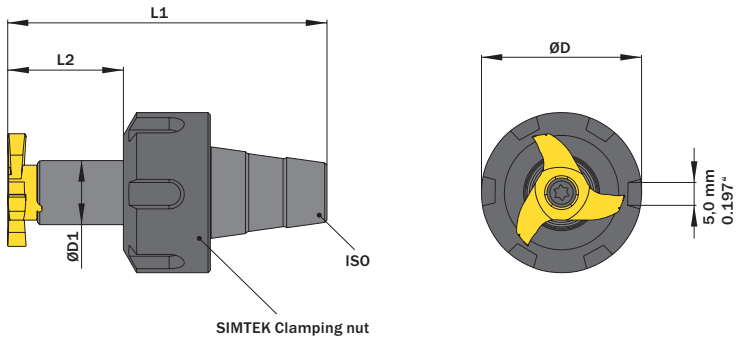
Similar tools on page
38

Please read add. notes
ALL (Page 199)

TW ST Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/455**

Whistle-Notch fixation available upon request.



Milling cutter shank is only available together with clamping nut.
Clamping nut is available as a spare part.

For collet chuck	ØD1 mm	L2 mm	Part number	Webcode www.simtek.com/webcode	Clamping nut	Thread clamping nut	ØD mm	L1 mm	Screw	Screw driver	Connectcode www.simtek.com/ccode
ER11	9,0	22,0	**U18.ER11.09.22**	AAV2	U ER11.12.19	M14x0,75	19,0	42,0	U M4x12 T15F	T15F	UD09.0
ER11	9,0	22,0	**U18.ER11.09.22.B**	AVMS	U ER11.12.16	M13x0,75	16,0	42,0	U M4x12 T15F	T15F	UD09.0
ER16	9,0	22,0	**U18.ER16.09.22**	APHJ	U ER16.18.32	M22x1,5	32,0	52,0	U M4x12 T15F	T15F	UD09.0
ER16	9,0	22,0	**U18.ER16.09.22.B**	AVMV	U ER16.18.22	M19x1,0	22,0	52,0	U M4x12 T15F	T15F	UD09.0
ER16	9,0	22,0	**U18.ER16.09.22.C**	AVMW	U ER16.18.25	M19x1,0	25,0	52,0	U M4x12 T15F	T15F	UD09.0
ER20	9,0	22,0	**U18.ER20.09.22**	AC9J	U ER20.19.35	M25x1,5	35,0	56,5	U M4x12 T15F	T15F	UD09.0
ER20	9,0	22,0	**U18.ER20.09.22.B**	AVM0	U ER20.19.28	M24x1,0	28,0	56,5	U M4x12 T15F	T15F	UD09.0
ER25	9,0	22,0	**U18.ER25.09.22**	AA1F	U ER25.20.42	M25x1,5	42,0	60,0	U M4x12 T15F	T15F	UD09.0
ER25	9,0	22,0	**U18.ER25.09.22.B**	AVM3	U ER25.20.35	M30x1,0	35,0	60,0	U M4x12 T15F	T15F	UD09.0

Order example: **U18.ER16.09.22.B**

simmill UX
SIMTEK Milling Tools Type UX

Circlip Ring Groove Milling, internal

Circlip ring groove milling in bores as of bore diameter 18,0 mm. For use in all materials.

Cutting parameters (start)		
fzm **0,03 mm**	hmax **0,04 mm**	Vc **Page 192**

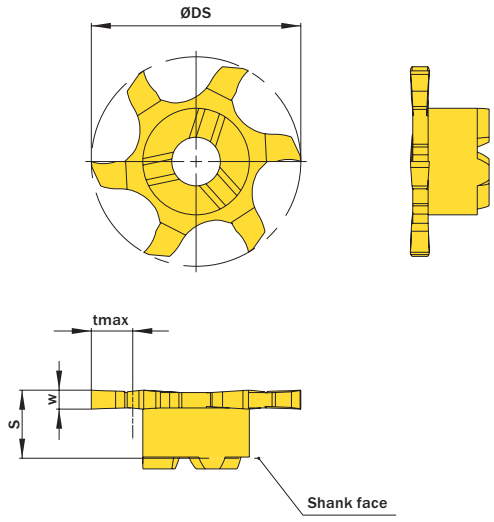
Suitable toolholders on page
86, 87, 88, 89, 90

Similar tools on page
29

Please read add. notes
ALL (Page 199), H01 (Page 200), H05 (Page 202)

SP HM Legend **203**

Scan QR-Code Or Visit **www.simtek.info/cp/365**



Drawing shows: U06.0160.000.18 G

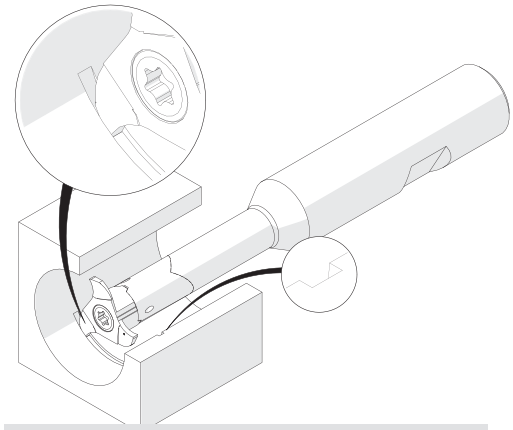


Image shows exemplary application possibility with similar tool.

w -0,02	Nominal width of groove	ØDmin (min. bore)	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	tmax	S	ØDS	Number of cutting edges	Connectcode www.simtek.com/ccode
mm	mm	mm				mm	mm	mm		
1,21	1,1	18,0	**U06.0110.000.18 G**	AFYG	X800 GT42	4,0	5,8	17,7	6	UD09.0
1,41	1,3	18,0	**U06.0130.000.18 G**	ACUD	X800 GT42	4,0	5,8	17,7	6	UD09.0
1,71	1,6	18,0	**U06.0160.000.18 G**	AG2Y	X800 GT42	4,0	5,8	17,7	6	UD09.0

Order example: **U06.0130.000.18 G X800** (X800 = Grade)

simtek individual | U06. | w, 1/100 mm, 4 Digits | . | R, 1/100 mm , 3 Digits | .18 | Tolerance

Example Part number: **U06.0179.030.18 XG**

simmill UX
SIMTEK Milling Tools Type UX

Circlip Ring Groove Milling, internal

Circlip ring groove milling in bores as of bore diameter 18,0 mm. For use in all materials.

Cutting parameters (start)		
fzm **0,03 mm**	hmax **0,04 mm**	Vc **Page 192**

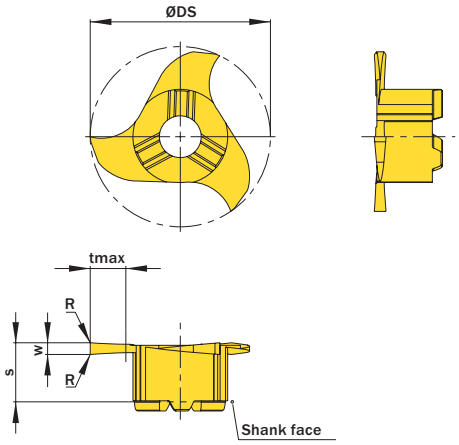
Suitable toolholders on page
86, 87, 88, 89, 90

Similar tools on page
29

Please read add. notes
ALL (Page 199), H01 (Page 200)

SP HM Legend **203**

Scan QR-Code Or Visit **www.simtek.info/cp/363**



Drawing shows: U18.0110.00 G

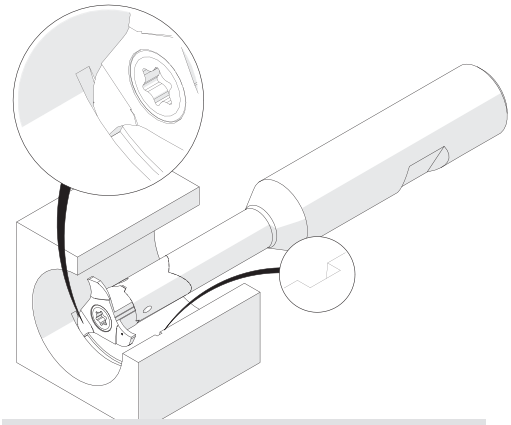


Image shows exemplary application possibility with similar tool.

w -0,02	Nominal width of groove	R	ØDmin (min. bore)	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	tmax	S	ØDS	Number of cutting edges	Connectcode www.simtek.com/ccode
mm	mm	mm	mm				mm	mm	mm		
0,74	0,7	-	18,0	**U18.0070.00 Z**	AEX1	X808 X408	1,5	5,6	17,7	3	UD09.0|UD12.0|UD13.0
0,84	0,8	-	18,0	**U18.0080.00 Z**	ABTV	X808 X408	1,7	5,6	17,7	3	UD09.0|UD12.0|UD13.0
0,94	0,9	-	18,0	**U18.0090.00 Z**	AGH7	X808 X408	1,9	5,6	17,7	3	UD09.0|UD12.0|UD13.0
1,21	1,1	-	18,0	**U18.0110.00 G**	AEQD	X800 GT42	3,5	5,8	17,7	3	UD09.0
1,41	1,3	0,1	18,0	**U18.0130.01 G**	AG1P	X800 GT42	3,5	5,8	17,7	3	UD09.0
1,71	1,6	0,1	18,0	**U18.0160.01 G**	AKKZ	X800 GT42	3,5	5,8	17,7	3	UD09.0

Order example: **U18.0110.00 G X800** (X800 = Grade)

simtek individual | U18. w, 1/100 mm, 4 Digits . R, 1/100 mm, 3 Digits Tolerance

Example Part number: **U18.0179.030 XG**

simmill UX
SIMTEK Milling Tools Type UX

Circlip Ring Groove Milling, internal

Circlip ring groove milling in bores as of bore diameter 18,0 mm. Highpositive rake angle for use in light alloys.

Cutting parameters (start)		
fzm **0,03 mm**	hmax **0,04 mm**	Vc **Page 192**

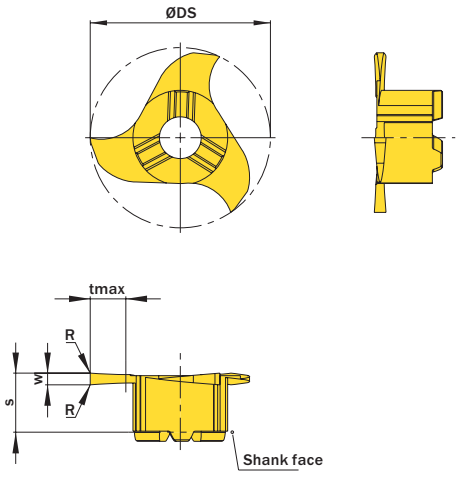
Suitable toolholders on page
86, 87, 88, 89, 90

Similar tools on page
29

Please read add. notes
ALL (Page 199), H01 (Page 200)

SP HM LM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/364**



Drawing shows: U18.0110.40 C

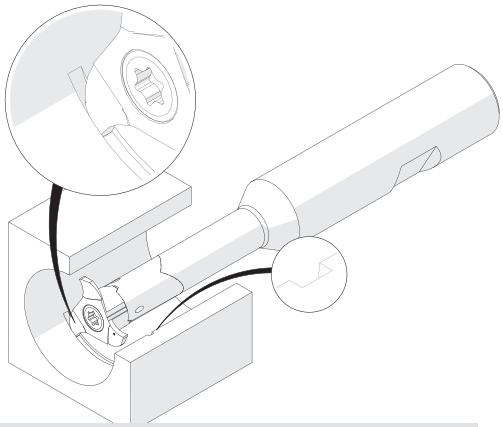


Image shows exemplary application possibility with similar tool.

w -0,02	Nominal width of groove	R	ØDmin (min. bore)	Part number	Webcode www.simtek.com/webcode	Our first choice	tmax	S	ØDS	Number of cutting edges	Connectcode www.simtek.com/ccode
mm	mm	mm	mm			N	mm	mm	mm		
1,21	1,1	-	18,0	**U18.0110.40 C**	APAJ	HF25	3,5	5,8	17,7	3	UD09.0
1,41	1,3	0,1	18,0	**U18.0130.41 C**	AG89	HF25	3,5	5,8	17,7	3	UD09.0
1,71	1,6	0,1	18,0	**U18.0160.41 C**	ANCA	HF25	3,5	5,8	17,7	3	UD09.0

Order example: **U18.0110.40 C HF25** (HF25 = Grade)

simtek individual | U18. w, 1/100 mm, 4 Digits . R, 1/100 mm , 3 Digits Tolerance C

Example Part number: **U18.0179.030 XG C**

simmill UX
SIMTEK Milling Tools Type UX

General Groove Milling

General groove milling. For use in bores as of minimum bore diameter 18,0 mm.

Cutting parameters (start)		
fzm **0,03 mm**	hmax **0,04 mm**	Vc **Page 192**

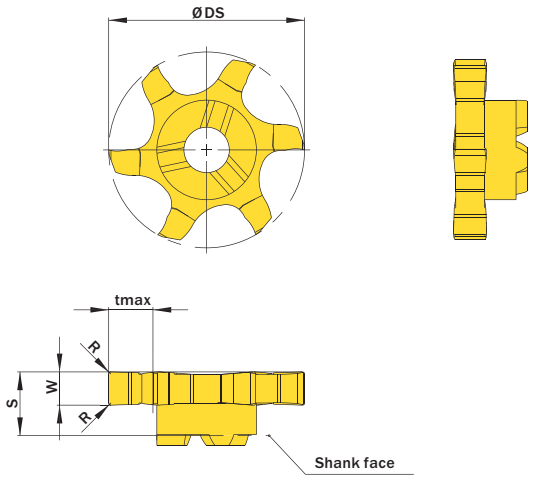
Suitable toolholders on page
86, 87, 88, 89, 90

Similar tools on page
27

Please read add. notes
ALL (Page 199), H01 (Page 200), H05 (Page 202)

SP HM Legend **203**

Scan QR-Code Or Visit **www.simtek.info/cp/362**



Drawing shows: U06.0300.020.20 G

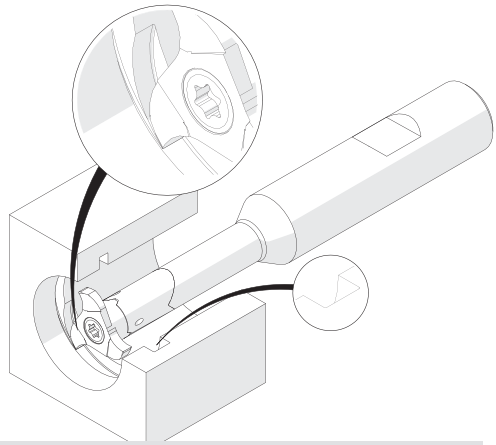


Image shows exemplary application possibility with similar tool.

w +0,02 mm	Nominal width of groove mm	R mm	ØDmin (min. bore) mm	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	tmax mm	S mm	ØDS mm	Number of cutting edges	Connectcode www.simtek.com/ccode
1,5	-	0,1	18,0	**U06.0150.010.18 G**	AN3P	X800 GT42	4,0	5,8	17,7	6	UD09.0
2,0	-	0,2	18,0	**U06.0200.020.18 G**	AD6K	X800 GT42	4,0	5,8	17,7	6	UD09.0
2,5	-	0,2	18,0	**U06.0250.020.18 G**	AB6C	X800 GT42	4,0	5,8	17,7	6	UD09.0
3,0	-	0,2	18,0	**U06.0300.020.18 G**	AE37	X800 GT42	4,0	5,8	17,7	6	UD09.0

Order example: **U06.0300.020.18 G X800** (X800 = Grade)

simtek individual | U06. w, 1/100 mm, 4 Digits . R, 1/100 mm, 3 Digits .18 Tolerance

Example Part number: **U06.0179.030.18 XG**

simmill UX
SIMTEK Milling Tools Type UX

General Groove Milling

General groove milling. For use in bores as of minimum bore diameter 20,0 mm.

Cutting parameters (start)		
fzm **0,03 mm**	hmax **0,04 mm**	Vc **Page 192**

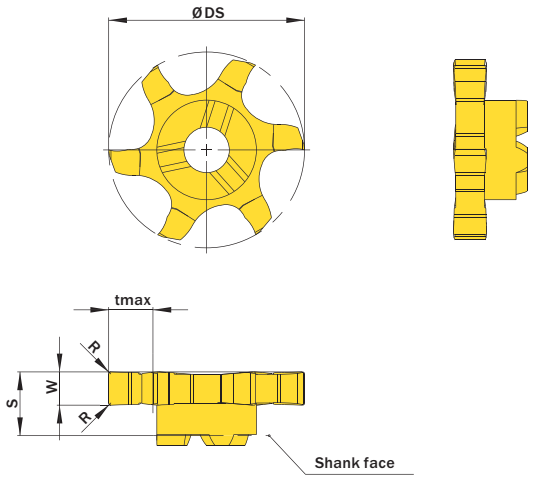
Suitable toolholders on page
86, 87, 88, 89, 90

Similar tools on page
27

Please read add. notes
ALL (Page 199), H01 (Page 200), H05 (Page 202)

SP HM Legend **203**

Scan QR-Code Or Visit **www.simtek.info/cp/369**



Drawing shows: U06.0300.020.20 G

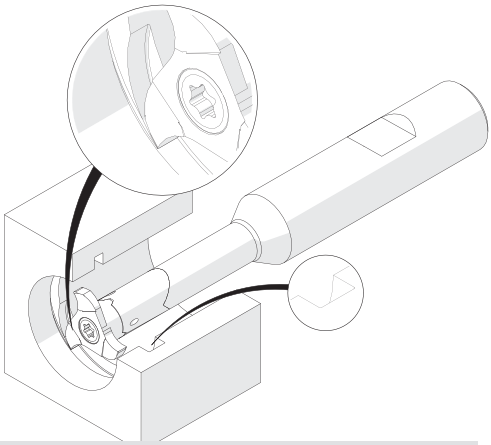


Image shows exemplary application possibility with similar tool.

w +0,02	Nominal width of groove	R	ØDmin (min. bore)	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	tmax	S	ØDS	Number of cutting edges	Connectcode www.simtek.com/ccode
mm	mm	mm	mm				mm	mm	mm		
1,5	-	0,1	20,0	**U06.0150.010.20 G**	AGE9	X800 GT42	5,0	5,8	19,7	6	UD09.0
2,0	-	0,2	20,0	**U06.0200.020.20 G**	AJ2T	X800 GT42	5,0	5,8	19,7	6	UD09.0
2,5	-	0,2	20,0	**U06.0250.020.20 G**	ANY1	X800 GT42	5,0	5,8	19,7	6	UD09.0
3,0	-	0,2	20,0	**U06.0300.020.20 G**	ACAZ	X800 GT42	5,0	5,8	19,7	6	UD09.0

Order example: **U06.0300.020.20 G X800** (X800 = Grade)

simtek individual | U06. w, 1/100 mm, 4 Digits . R, 1/100 mm, 3 Digits .20 Tolerance
Example Part number: **U06.0179.030.20 XG**

simmill UX
SIMTEK Milling Tools Type UX

General Groove Milling

General groove milling. For use in bores as of minimum bore diameter 18,0 mm (0.709“).

Cutting parameters (start)		
fzm **0,03 mm**	hmax **0,04 mm**	Vc **Page 192**

Suitable toolholders on page
86, 87, 88, 89, 90

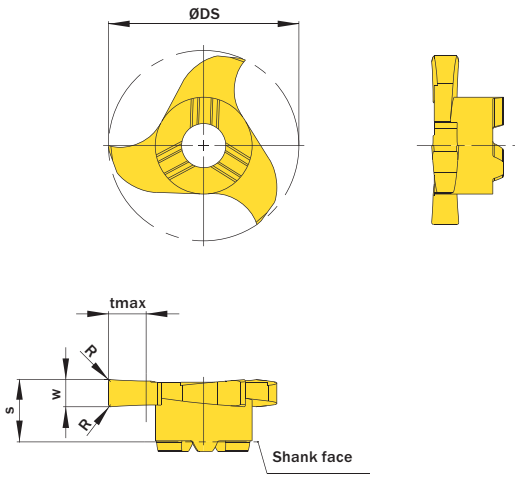
Similar tools on page
27

Please read add. notes
ALL (Page 199), H01 (Page 200)

SP HM Legend **203**

Scan QR-Code Or Visit **www.simtek.info/cp/361**

This page contains inch tools! These tools are indicated by **inch** on the right hand side.



Drawing shows: U18.0250.02 G

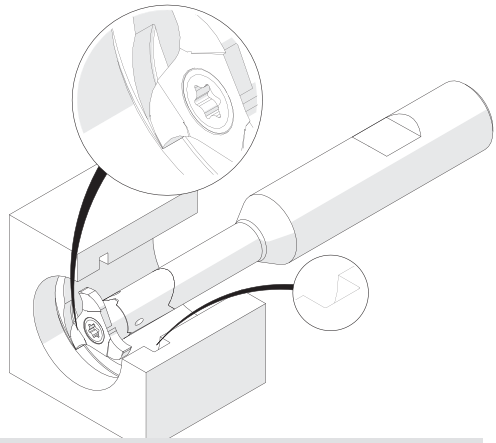


Image shows exemplary application possibility with similar tool.

w +0,02mm / 0.001“ mm/inch	Nominal width of groove mm/inch	R mm/inch	ØDmin (min. bore) mm/inch	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	tmax mm/inch	S mm/inch	ØDS mm/inch	Number of cutting edges	Connectcode www.simtek.com/ccode	
0.046“	-	-	0.709“	**U18.0117.00 G**	AAU0	X800 GT42	0.138“	0.228“	0.697“	3	UD09.0	inch
1,42	-	-	18,0	**U18.0142.00 G**	ANB1	X800 GT42	3,5	5,8	17,7	3	UD09.0	
1,5	-	0,2	18,0	**U18.0150.02 G**	AMW2	X800 GT42	3,5	5,8	17,7	3	UD09.0	
0.061“	-	0.008“	0.709“	**U18.0157.02 G**	AJ80	X800 GT42	0.138“	0.228“	0.697“	3	UD09.0	inch
2,0	-	0,2	18,0	**U18.0200.02 G**	AJXK	X800 GT42	3,5	5,8	17,7	3	UD09.0	
0.094“	-	0.008“	0.709“	**U18.0239.02 G**	AG6E	X800 GT42	0.138“	0.228“	0.697“	3	UD09.0	inch
2,5	-	0,2	18,0	**U18.0250.02 G**	ABXH	X800 GT42	3,5	5,8	17,7	3	UD09.0	
3,0	-	0,2	18,0	**U18.0300.02 G**	ADJZ	X800 GT42	3,5	5,8	17,7	3	UD09.0	
0.125“	-	0.008“	0.709“	**U18.0318.02 G**	AJZU	X800 GT42	0.138“	0.228“	0.697“	3	UD09.0	inch
4,0	-	0,2	18,0	**U18.0400.02 G**	AJUU	X800 GT42	3,5	5,8	17,7	3	UD09.0	

Order example: **U18.0200.02 G X800** (X800 = Grade)

simtek individual | U18. w, 1/100 mm, 4 Digits . R, 1/100 mm, 3 Digits Tolerance

Example Part number: **U18.0179.030 XG**

simmill UX
SIMTEK Milling Tools Type UX

General Groove Milling

General groove milling. For use in bores as of minimum bore diameter 20,0 mm.

Cutting parameters (start)		
fzm **0,03 mm**	hmax **0,04 mm**	Vc **Page 192**

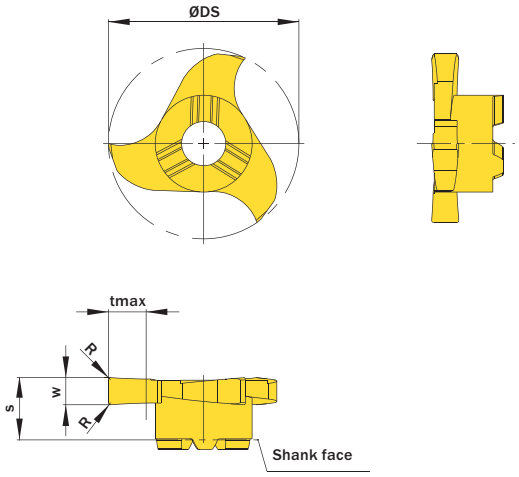
Suitable toolholders on page
86, 87, 88, 89, 90

Similar tools on page
27

Please read add. notes
ALL (Page 199), H01 (Page 200)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/1150**



Drawing shows: U18.0250.02 G

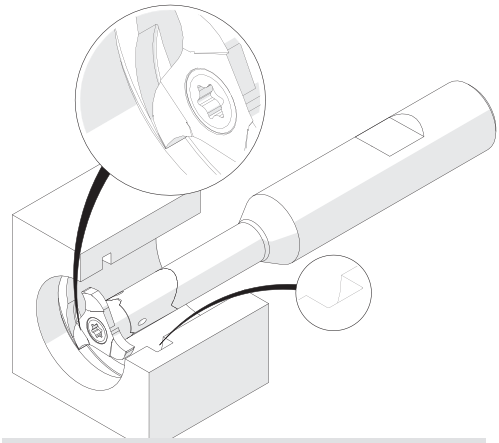


Image shows exemplary application possibility with similar tool.

w +0,02	Nominal width of groove	R	ØDmin (min. bore)	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	tmax	S	ØDS	Number of cutting edges	Connectcode www.simtek.com/ccode
mm	mm	mm	mm				mm	mm	mm		
1,5	-	0,2	20,0	**U20.0150.02 G**	AX11	X800 GT42	4,5	5,8	19,7	3	UD09.0
2,0	-	0,2	20,0	**U20.0200.02 G**	AX13	X800 GT42	4,5	5,8	19,7	3	UD09.0
2,5	-	0,2	20,0	**U20.0250.02 G**	AX12	X800 GT42	4,5	5,8	19,7	3	UD09.0

Order example: **U20.0250.02 G X800** (X800 = Grade)

simmill UX
SIMTEK Milling Tools Type UX

General Groove Milling, for smooth cuts

General groove milling. With a new cutting edge geometry for very smooth cuts and better surface quality. For use in bores as of minimum bore diameter 18,0 mm.

Cutting parameters (start)		
fzm **0,03 mm**	hmax **0,04 mm**	Vc **Page 192**

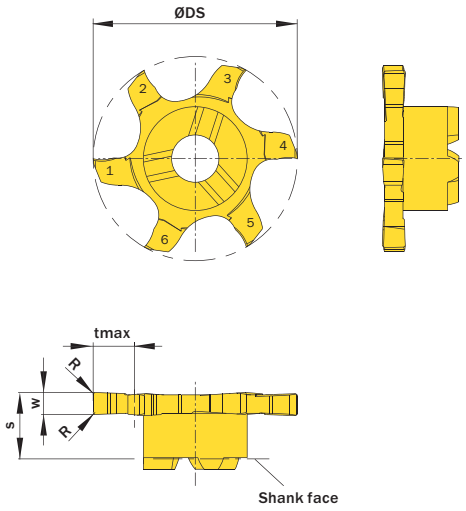
Suitable toolholders on page
86, 87, 88, 89, 90

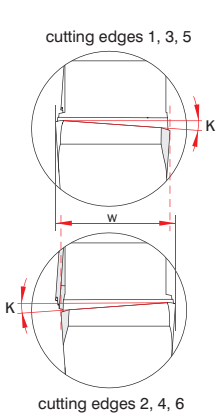
Similar tools on page
27

Please read add. notes
ALL (Page 199), H01 (Page 200), H05 (Page 202)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/1123**





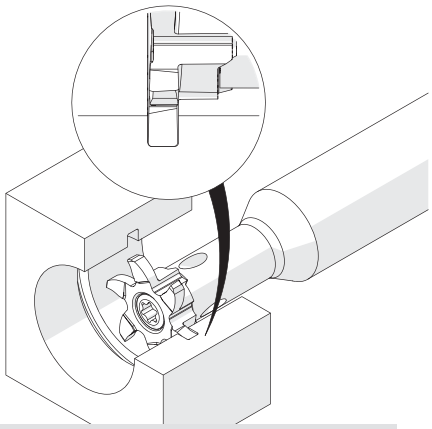


Image shows exemplary application possibility with similar tool.

Drawing shows: U06.0250.020.18 GY

w +0,02	Nominal width of groove	R	ØDmin (min. bore)	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	tmax	S	ØDS	Number of cutting edges	Connectcode www.simtek.com/ccode
mm	mm	mm	mm				mm	mm	mm		
2,0	-	0,2	18,0	**U06.0200.020.18 GY**	AYFP	X800 GT42	4,0	5,8	17,7	6	UD09.0
2,5	-	0,2	18,0	**U06.0250.020.18 GY**	AYFS	X800 GT42	4,0	5,8	17,7	6	UD09.0
3,0	-	0,2	18,0	**U06.0300.020.18 GY**	AYFT	X800 GT42	4,0	5,8	17,7	6	UD09.0

Order example: **U06.0300.020.18 GY X800** (X800 = Grade)

simmill UX
SIMTEK Milling Tools Type UX

General Groove Milling, for smooth cuts

General groove milling. With a new cutting edge geometry for very smooth cuts and better surface quality. For use in bores as of minimum bore diameter 20,0 mm.

Cutting parameters (start)		
fzm **0,03 mm**	hmax **0,04 mm**	Vc **Page 192**

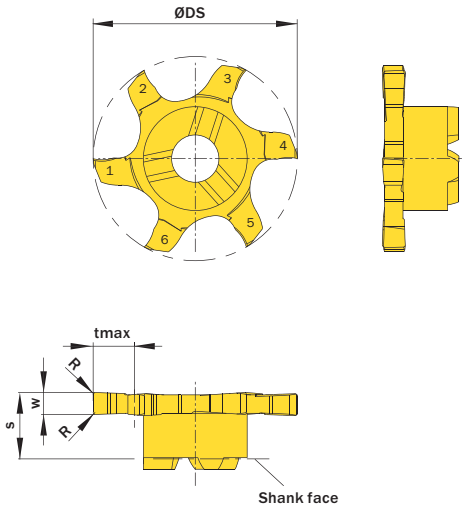
Suitable toolholders on page
86, 87, 88, 89, 90

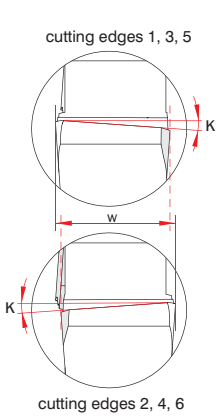
Similar tools on page
27

Please read add. notes
ALL (Page 199), H01 (Page 200), H05 (Page 202)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/1134**





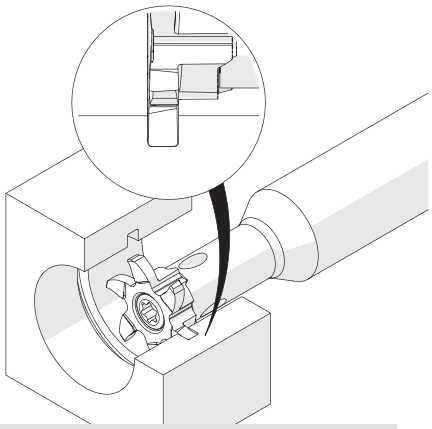


Image shows exemplary application possibility with similar tool.

Drawing shows: U06.0250.020.18 GY

w +0,02	Nominal width of groove	R	ØDmin (min. bore)	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	tmax	S	ØDS	Number of cutting edges	Connectcode www.simtek.com/ccode
mm	mm	mm	mm				mm	mm	mm		
2,0	-	0,2	20,0	**U06.0200.020.20 GY**	AYFW	X800 GT42	5,0	5,8	19,7	6	UD09.0
2,5	-	0,2	20,0	**U06.0250.020.20 GY**	AYFV	X800 GT42	5,0	5,8	19,7	6	UD09.0
3,0	-	0,2	20,0	**U06.0300.020.20 GY**	AYFU	X800 GT42	5,0	5,8	19,7	6	UD09.0

Order example: **U06.0300.020.20 GY X800** (X800 = Grade)

simmill UX
SIMTEK Milling Tools Type UX

General Groove Milling in light alloys

General groove milling in bores as of bore diameter 18,0 mm. Highpositive rake angle for use in light alloys.

Cutting parameters (start)		
fzm **0,03 mm**	hmax **0,04 mm**	Vc **Page 192**

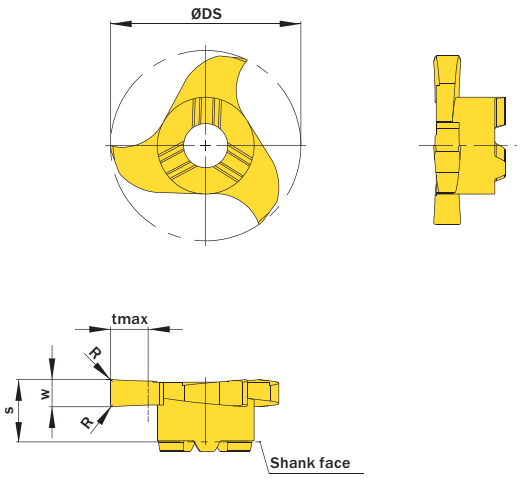
Suitable toolholders on page
86, 87, 88, 89, 90

Similar tools on page
28

Please read add. notes
ALL (Page 199), H01 (Page 200)

SP HM LM Legend **203**

Scan QR-Code Or Visit **www.simtek.info/cp/370**



Drawing shows: U18.0250.42 C

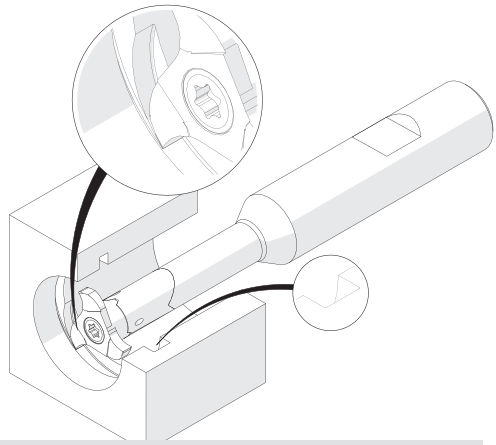


Image shows exemplary application possibility with similar tool.

w +0,02	Nominal width of groove	R	ØDmin (min. bore)	Part number	Webcode www.simtek.com/webcode	Our first choice	tmax	S	ØDS	Number of cutting edges	Connectcode www.simtek.com/ccode
mm	mm	mm	mm			N	mm	mm	mm		
1,5	-	0,2	18,0	**U18.0150.42 C**	ANJ3	HF25	3,5	5,8	17,7	3	UD09.0
2,0	-	0,2	18,0	**U18.0200.42 C**	AH68	HF25	3,5	5,8	17,7	3	UD09.0
2,5	-	0,2	18,0	**U18.0250.42 C**	ANED	HF25	3,5	5,8	17,7	3	UD09.0
3,0	-	0,2	18,0	**U18.0300.42 C**	AJ6H	HF25	3,5	5,8	17,7	3	UD09.0

Order example: **U18.0200.42 C HF25** (HF25 = Grade)

simtek individual | U18. w, 1/100 mm, 4 Digits . R, 1/100 mm, 3 Digits Tolerance C

Example Part number: **U18.0179.030 XG C**

simmill UX
SIMTEK Milling Tools Type UX

Full Radius Groove Milling

Full radius groove milling. For use in bores as of minimum bore diameter 18,0 mm (0.709“).

Cutting parameters (start)		
fzm **0,03 mm**	hmax **0,04 mm**	Vc **Page 192**

Suitable toolholders on page
86, 87, 88, 89, 90

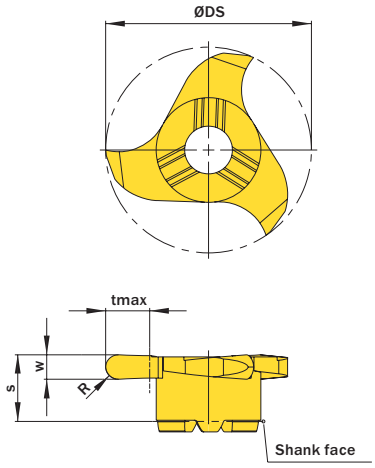
Similar tools on page
31

Please read add. notes
ALL (Page 199), H01 (Page 200)

SP HM Legend **203**

Scan QR-Code Or Visit **www.simtek.info/cp/402**

This page contains inch tools! These tools are indicated by **inch** on the right hand side.



Drawing shows: U18.0011.22 V

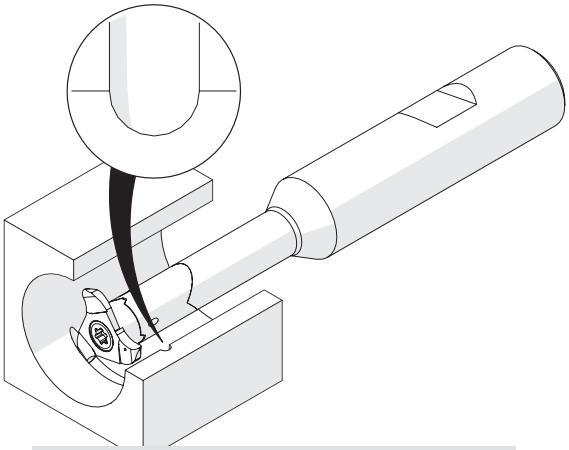


Image shows exemplary application possibility with similar tool.

R mm/inch	w +0.03mm / 0.001“ mm/inch	ØDmin (min. bore) mm/inch	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	tmax mm/inch	S mm/inch	ØDS mm/inch	Number of cutting edges	Connectcode www.simtek.com/ccode	
1,0	2,0	18,0	**U18.0010.20 V**	AAKM	X800 GT42	3,5	5,8	17,7	3	UD09.0	
1,1	2,2	18,0	**U18.0011.22 V**	AM4F	X800 GT42	3,5	5,8	17,7	3	UD09.0	
0.047“	0.094“	0.709“	**U18.0012.24 V**	A1J5	X800 GT42	0.138“	0.228“	0.697“	3	UD09.0	inch
1,5	3,0	18,0	**U18.0015.30 V**	AEDU	X800 GT42	3,5	5,8	17,7	3	UD09.0	

Order example: **U18.0015.30 V X800** (X800 = Grade)

simmill UX
SIMTEK Milling Tools Type UX

Thread milling, metric ISO-Thread, full profile

Thread milling of metric ISO-thread, full profile.

Cutting parameters (start)		
fzm **0,03 mm**	hmax **0,04 mm**	Vc **Page 192**

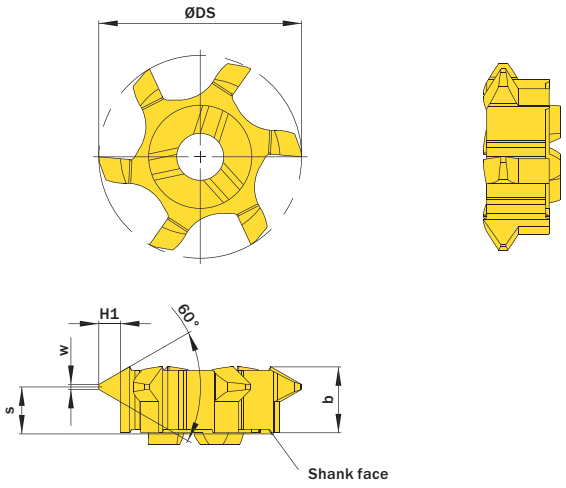
Suitable toolholders on page
86, 87, 88, 89, 90

Similar tools on page
33

Please read add. notes
ALL (Page 199), H03 (Page 201), H05 (Page 202)

SP HM Legend **203**

Scan QR-Code Or Visit **www.simtek.info/cp/876**



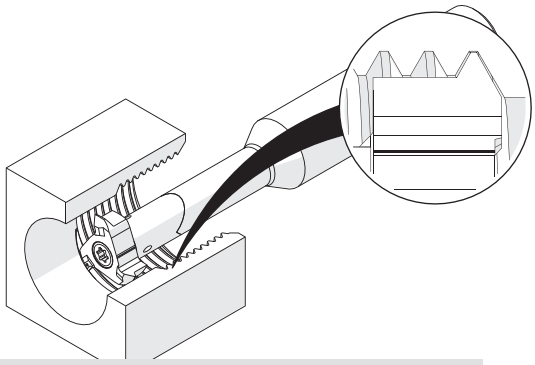


Image shows exemplary application possibility with similar tool.

Drawing shows: U06.1835.02.18 M

As of thread size	Pitch (as of)	Part number	Webcode www.simtek.com/webcode	Our first choice	b	S	H1	ØDS	w	Number of cutting edges	Connectcode www.simtek.com/ccode
	mm			P M K N S	mm	mm	mm	mm	mm		
M22	1,5	**U06.0815.02.18 M**	ASZ9	X800 GT42	5,85	5,0	0,81	17,7	0,19	6	UD09.0|UD12.0|UD13.0
M22	2,0	**U06.1020.02.18 M**	AS0G	X800 GT42	5,85	4,8	1,083	17,7	0,25	6	UD09.0|UD12.0|UD13.0
M27	3,0	**U06.1630.02.18 M**	AS0J	X800 GT42	5,85	4,6	1,62	17,7	0,38	6	UD09.0|UD12.0|UD13.0
M27	3,5	**U06.1835.02.18 M**	AS0H	X800 GT42	5,85	4,0	1,89	17,7	0,44	6	UD09.0|UD12.0|UD13.0

Order example: **U06.1020.02.18 M X800** (X800 = Grade)

simmill UX
SIMTEK Milling Tools Type UX

Thread milling, metric ISO-Thread, full profile

Thread milling of metric ISO-threads, full profile.

Cutting parameters (start)		
fzm **0,03 mm**	hmax **0,04 mm**	Vc **Page 192**

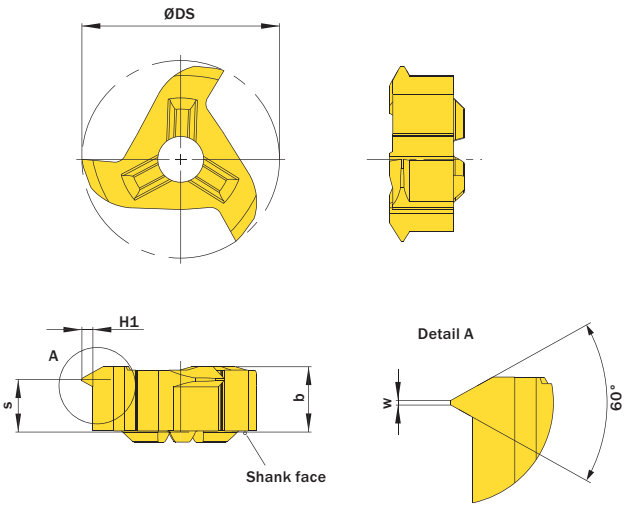
Suitable toolholders on page
86, 87, 88, 89, 90

Similar tools on page
33

Please read add. notes
ALL (Page 199), H03 (Page 201)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/415**



Drawing shows: U18.0917.02 M

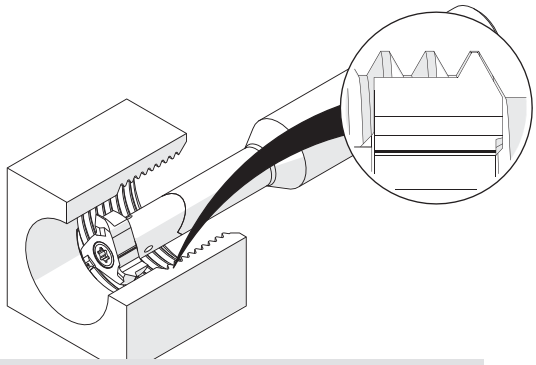


Image shows exemplary application possibility with similar tool.

As of thread size	H1 mm	Pitch (as of) mm	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	b mm	S mm	w mm	ØDS mm	Number of cutting edges	Connectcode www.simtek.com/ccode
M22	0,81	1,5	**U18.0815.02 M**	AHK3	X800 GT42	5,85	4,8	0,18	17,7	3	UD09.0|UD12.0|UD13.0
M22	0,95	1,75	**U18.0917.02 M**	AK07	X800 GT42	5,85	4,7	0,2	17,7	3	UD09.0|UD12.0|UD13.0
M22	1,08	2,0	**U18.1020.02 M**	AE0E	X800 GT42	5,85	4,6	0,25	17,7	3	UD09.0|UD12.0|UD13.0
M24	1,35	2,5	**U18.1325.02 M**	AJY6	X800 GT42	5,85	4,4	0,31	17,7	3	UD09.0|UD12.0|UD13.0
M27	1,62	3,0	**U18.1630.02 M**	AJYF	X800 GT42	5,85	4,3	0,37	17,7	3	UD09.0|UD12.0|UD13.0
M27	1,895	3,5	**U18.1835.02 M**	AN9W	X800 GT42	5,85	4,0	0,43	17,7	3	UD09.0|UD12.0|UD13.0

Order example: **U18.1630.02 M X800** (X800 = Grade)

simmill UX
SIMTEK Milling Tools Type UX

Thread milling, metric ISO-Thread, partial profile

Multi-purpose milling inserts. The given „Pitch (as of)“ is conforming to standards. The „Pitch (up to)“ is possible too at the expense of conformity. Please read additional notes.

Cutting parameters (start)		
fzm **0,03 mm**	hmax **0,04 mm**	Vc **Page 192**

Suitable toolholders on page
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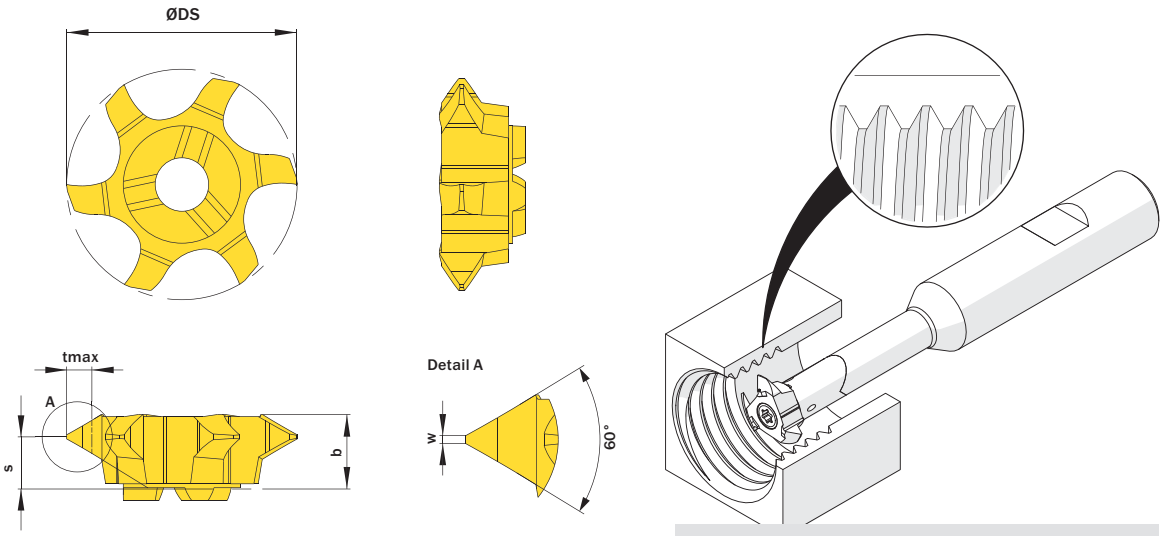
Similar tools on page
32

Please read add. notes
ALL (Page 199), H03 (Page 201), H04 (Page 202), H05 (Page 202)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/394**



Drawing shows: U06.2535.01.18 M

Image shows exemplary application possibility with similar tool.

As of thread size	Pitch (as of) mm	Pitch (up to) mm	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	b mm	S mm	w mm	tmax mm	ØDS mm	Number of cutting edges	Connectcode www.simtek.com/ccode
M22	1,0	2,0	**U06.0720.01.18 M**	AE99	X800 GT42	5,85	4,6	0,12	1,19	17,7	6	UD09.0|UD12.0|UD13.0
M24	2,0	4,0	**U06.2535.01.18 M**	APNP	X800 GT42	5,85	4,0	0,25	2,57	17,7	6	UD09.0|UD12.0

Order example: **U06.2535.01.18 M X800** (X800 = Grade)

Please read the additional notes mentioned in the information area on the top right corner of this page.
The mentioned thread size „As of thread size“ is based on the starting pitch.

simmill UX
SIMTEK Milling Tools Type UX

Thread milling, metric ISO-Thread, partial profile

Multi-purpose milling inserts. The given „Pitch (as of)“ is conforming to standards. The „Pitch (up to)“ is possible too at the expense of conformity. Please read additional notes.

Cutting parameters (start)		
fzm **0,03 mm**	hmax **0,04 mm**	Vc **Page 192**

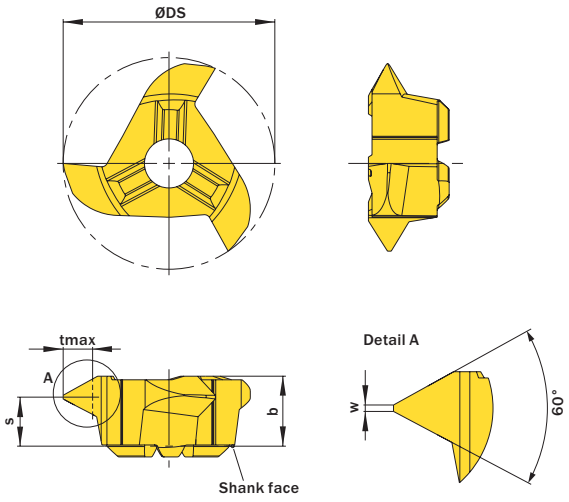
Suitable toolholders on page
86, 87, 88, 89, 90

Similar tools on page
32

Please read add. notes
ALL (Page 199), H02 (Page 200), H03 (Page 201), H04 (Page 202)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/395**



Drawing shows: U18.2535.01 M

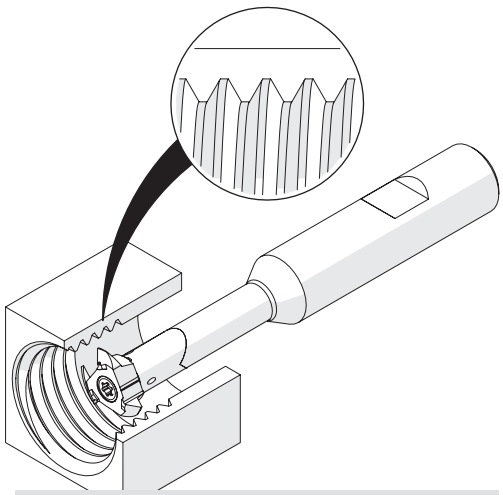


Image shows exemplary application possibility with similar tool.

As of thread size	Pitch (as of) mm	Pitch (up to) mm	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	b mm	S mm	w mm	tmax mm	ØDS mm	Number of cutting edges	Connectcode www.simtek.com/ccode
M22	1,0	1,75	**U18.0510.01 M**	ADHC	X800 GT42	5,85	5,0	0,12	1,03	17,7	3	UD09.0|UD12.0|UD13.0
M22	1,0	2,0	**U18.0720.01 M**	AA8M	X800 GT42	5,85	4,7	0,12	1,19	17,7	3	UD09.0|UD12.0|UD13.0
M22	1,5	2,75	**U18.0815.01 M**	AM2Q	X800 GT42	5,85	4,6	0,19	1,62	17,7	3	UD09.0|UD12.0|UD13.0
M24	2,0	3,75	**U18.1020.01 M**	AN1S	X800 GT42	5,85	4,2	0,25	2,22	17,7	3	UD09.0|UD12.0|UD13.0
M24	2,0	3,0	**U18.1325.01 M**	AAUQ	X800 GT42	5,85	4,4	0,25	1,73	17,7	3	UD09.0|UD12.0|UD13.0
M24	2,5	5,0	**U18.1630.01 M**	AH9G	X800 GT42	5,85	3,8	0,31	2,98	17,7	3	UD09.0
M24	3,0	5,5	**U18.1835.01 M**	ADW6	X800 GT42	5,85	3,6	0,38	3,25	17,7	3	UD09.0
M24	2,0	4,0	**U18.2535.01 M**	APTV	X800 GT42	5,85	4,2	0,25	2,57	17,7	3	UD09.0|UD12.0

Order example: **U18.2535.01 M X800** (X800 = Grade)

Please read the additional notes mentioned in the information area on the top right corner of this page.
The mentioned thread size „As of thread size“ is based on the starting pitch.

More information about the **multi-purpose thread milling tools** and the **thread size suitability** can be found on page 204

Thread milling, UN Full Profile

Thread milling of UN-threads, full profile.

Cutting parameters (start)		
fzm **0,03 mm**	hmax **0,04 mm**	Vc **Page 192**

Suitable toolholders on page
86, 87, 88, 89, 90

Please read add. notes
ALL (Page 199), H03 (Page 201), H05 (Page 202)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/877**

This page contains inch tools! These tools are indicated by **inch** on the right hand side.

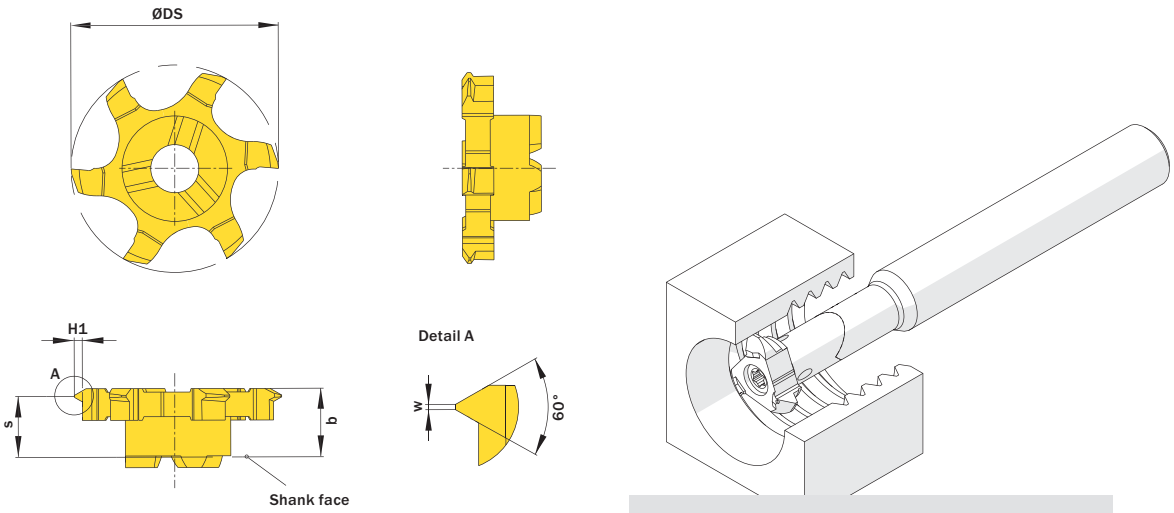


Image shows exemplary application possibility with similar tool.

Drawing shows: U06.UN20.02.18 M

Threads/Inch	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	b inch	H1 inch	S inch	ØDS inch	w inch	Number of cutting edges	Connectcode www.simtek.com/ccode	
8	**U06.UN08.02.18 M**	AS0V	X800 GT42	0.230“	0.068“	0.173“	0.697“	0.016“	6	UD09.0|UD12.0|UD13.0	inch
10	**U06.UN10.02.18 M**	AS0U	X800 GT42	0.230“	0.054“	0.189“	0.697“	0.013“	6	UD09.0|UD12.0|UD13.0	inch
11	**U06.UN11.02.18 M**	AS0T	X800 GT42	0.230“	0.049“	0.189“	0.697“	0.011“	6	UD09.0|UD12.0|UD13.0	inch
12	**U06.UN12.02.18 M**	AS0S	X800 GT42	0.230“	0.045“	0.189“	0.697“	0.011“	6	UD09.0|UD12.0|UD13.0	inch
14	**U06.UN14.02.18 M**	AS0Q	X800 GT42	0.230“	0.039“	0.197“	0.697“	0.009“	6	UD09.0|UD12.0|UD13.0	inch
16	**U06.UN16.02.18 M**	AS0P	X800 GT42	0.230“	0.034“	0.197“	0.697“	0.008“	6	UD09.0|UD12.0|UD13.0	inch
18	**U06.UN18.02.18 M**	AS0N	X800 GT42	0.230“	0.030“	0.197“	0.697“	0.007“	6	UD09.0|UD12.0|UD13.0	inch
20	**U06.UN20.02.18 M**	AS0M	X800 GT42	0.230“	0.027“	0.197“	0.697“	0.006“	6	UD09.0|UD12.0|UD13.0	inch
24	**U06.UN24.02.18 M**	AS0K	X800 GT42	0.230“	0.022“	0.205“	0.697“	0.005“	6	UD09.0|UD12.0|UD13.0	inch

Order example: **U06.UN20.02.18 M X800** (X800 = Grade)

More information about the **multi-purpose thread milling tools** and the **thread size suitability** can be found on page 204

simmill UX
SIMTEK Milling Tools Type UX

Thread milling, UN Full Profile

Thread milling of UN-threads, full profile.

Cutting parameters (start)		
fzm **0,03 mm**	hmax **0,04 mm**	Vc **Page 192**

Suitable toolholders on page
86, 87, 88, 89, 90

Please read add. notes
ALL (Page 199), H03 (Page 201)

SP HM Legend **203**

Scan QR-Code Or Visit **www.simtek.info/cp/880**

This page contains inch tools! These tools are indicated by **inch** on the right hand side.

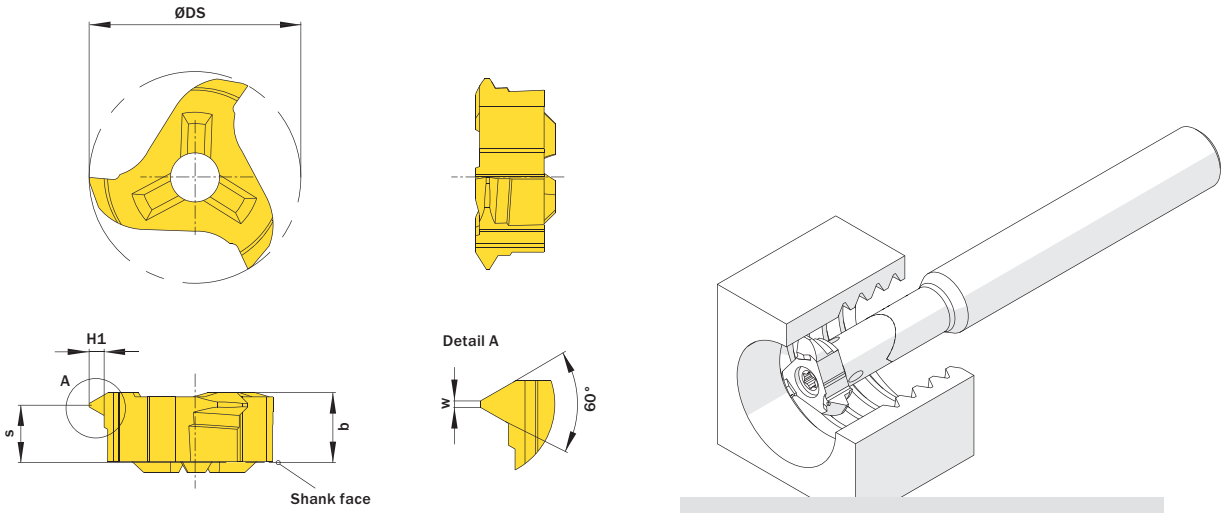


Image shows exemplary application possibility with similar tool.

Drawing shows: U18.UN11.02 M

Threads/Inch	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	b inch	H1 inch	S inch	ØDS inch	w inch	Number of cutting edges	Connectcode www.simtek.com/ccode	
6	**U18.UN06.02 M**	AS7Q	X800 GT42	0.230“	0.090“	0.165“	0.697“	0.021“	3	UD09.0|UD12.0|UD13.0	inch
7	**U18.UN07.02 M**	A4YF	X800 GT42	0.230“	0.077“	0.165“	0.697“	0.018“	3	UD09.0|UD12.0|UD13.0	inch
8	**U18.UN08.02 M**	AS04	X800 GT42	0.230“	0.068“	0.173“	0.697“	0.016“	3	UD09.0|UD12.0|UD13.0	inch
10	**U18.UN10.02 M**	AS03	X800 GT42	0.230“	0.054“	0.181“	0.697“	0.013“	3	UD09.0|UD12.0|UD13.0	inch
11	**U18.UN11.02 M**	AS02	X800 GT42	0.230“	0.049“	0.189“	0.697“	0.011“	3	UD09.0|UD12.0|UD13.0	inch
12	**U18.UN12.02 M**	AS01	X800 GT42	0.230“	0.045“	0.189“	0.697“	0.011“	3	UD09.0|UD12.0|UD13.0	inch
14	**U18.UN14.02 M**	AS00	X800 GT42	0.230“	0.039“	0.197“	0.697“	0.009“	3	UD09.0|UD12.0|UD13.0	inch
16	**U18.UN16.02 M**	AS0Z	X800 GT42	0.230“	0.034“	0.197“	0.697“	0.008“	3	UD09.0|UD12.0|UD13.0	inch
18	**U18.UN18.02 M**	AS0Y	X800 GT42	0.230“	0.030“	0.197“	0.697“	0.007“	3	UD09.0|UD12.0|UD13.0	inch
20	**U18.UN20.02 M**	AS0X	X800 GT42	0.230“	0.027“	0.205“	0.697“	0.006“	3	UD09.0|UD12.0|UD13.0	inch
24	**U18.UN24.02 M**	AS0W	X800 GT42	0.230“	0.023“	0.205“	0.697“	0.005“	3	UD09.0|UD12.0|UD13.0	inch

Order example: **U18.UN08.02 M X800** (X800 = Grade)

simmill UX
SIMTEK Milling Tools Type UX

Whitworth Pipe Thread Milling, full profile

Whitworth pipe thread milling, full profile.

Cutting parameters (start)		
fzm **0,03 mm**	hmax **0,04 mm**	Vc **Page 192**

Suitable toolholders on page
86, 87, 88, 89, 90

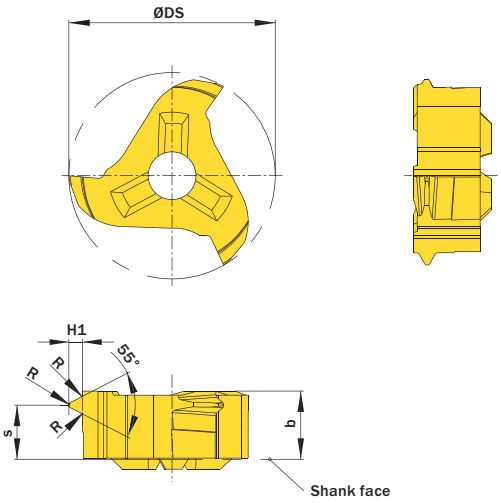
Similar tools on page
34

Please read add. notes
ALL (Page 199), H03 (Page 201)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/878**

This page contains inch tools! These tools are indicated by **inch** on the right hand side.



Drawing shows: U18.BS14.02 M

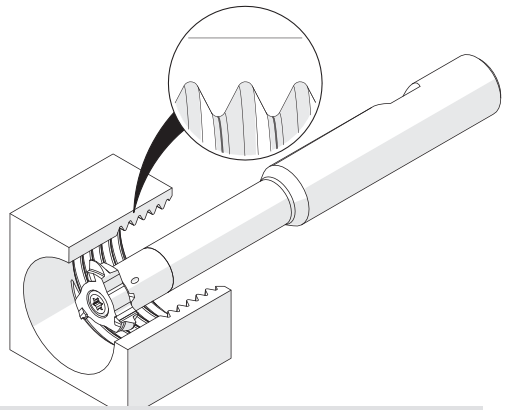


Image shows exemplary application possibility with similar tool.

Threads/inch	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	b inch	R inch	S inch	H1 inch	ØDS inch	As of thread size	Alternativ as of nominal diameter inch	Number of cutting edges	Connectcode www.simtek.com/ccode	
11	**U18.BS11.02 M**	AS07	X800 GT42	0.230“	0.013“	0.173“	0.058“	0.697“	G 1“	1.008“	3	UD09.0|UD12.0|UD13.0	inch
14	**U18.BS14.02 M**	AS06	X800 GT42	0.230“	0.010“	0.181“	0.046“	0.697“	G 3/4“	0.945“	3	UD09.0|UD12.0|UD13.0	inch
19	**U18.BS19.02 M**	AS05	X800 GT42	0.230“	0.007“	0.193“	0.034“	0.697“	-	0.898“	3	UD09.0|UD12.0|UD13.0	inch

Order example: **U18.BS11.02 M X800** (X800 = Grade)

simmill UX
SIMTEK Milling Tools Type UX

Chamfering

Chamfering on both sides. For use in bores as of minimum bore diameter 15,0 mm.

utting parameters (start)		
fzm **0,03 mm**	hmax **0,04 mm**	Vc **Page 192**

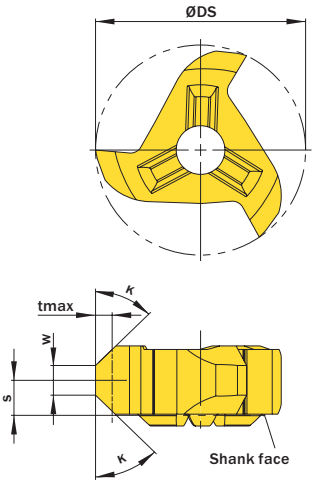
Suitable toolholders on page
86, 87, 88, 89, 90

Similar tools on page
35

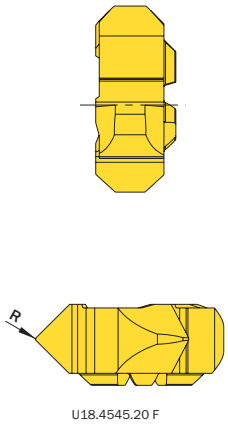
Please read add. notes
ALL (Page 199), H02 (Page 200)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/407**



Drawing shows: U18.4545.58 F



U18.4545.20 F

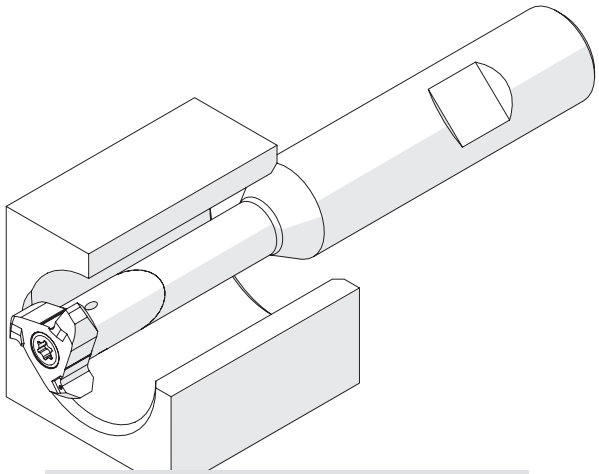


Image shows exemplary application possibility with similar tool.

κ	ØDmin (min. bore)	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	tmax	S	ØDS	w	Number of cutting edges	Connectcode www.simtek.com/ccode
	mm				mm	mm	mm	mm		
45°	15,0	**U15.4545.58 F**	AGQF	X800 GT42	2,5	3,0	14,7	0,2	3	UD09.0
45°	18,0	**U18.4545.20 F**	AHA2	X800 GT42	2,5	3,0	17,7	0,2	3	UD09.0 | UD12.0 | UD13.0
45°	18,0	**U18.4545.58 F**	ACKW	X800 GT42	1,4	3,0	17,7	2,5	3	UD09.0 | UD12.0 | UD13.0

Order example: **U18.4545.20 F X800** (X800 = Grade)

simmill UX
SIMTEK Milling Tools Type UX

Chamfering

Chamfering on both sides. For use in bores as of minimum bore diameter 15,0 mm.

Cutting parameters (start)		
fzm **0,03 mm**	hmax **0,04 mm**	Vc **Page 192**

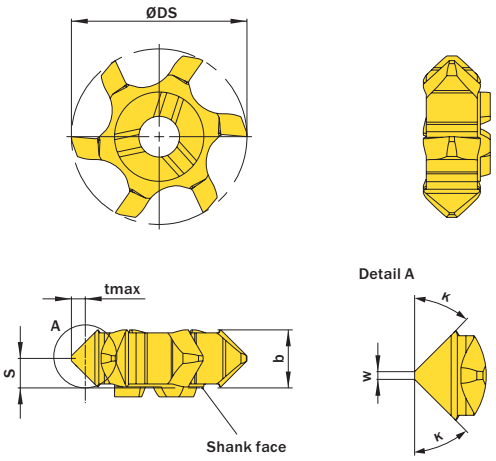
Suitable toolholders on page
86, 87, 88, 89, 90

Similar tools on page
35

Please read add. notes
ALL (Page 199), H05 (Page 202)

SP HM Legend **203**

Scan QR-Code Or Visit **www.simtek.info/cp/409**



Drawing shows: U06.4545.020.18 F

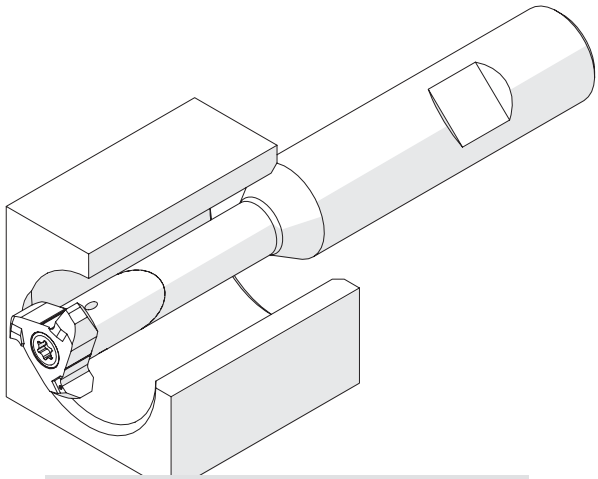


Image shows exemplary application possibility with similar tool.

K	w	ØDmin (min. bore)	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	S	b	tmax	ØDS	Number of cutting edges	Connectcode www.simtek.com/ccode
	mm	mm				mm	mm	mm	mm		
▼ ØDmin (min. bore) = 15,0 mm											
45°	0,5	15,0	**U06.4545.050.15 F**	AQWM	X800 GT42	3,0	5,75	1,6	14,7	6	UD09.0
▼ ØDmin (min. bore) = 18,0 mm											
30°	0,2	18,0	**U06.3030.020.18 F**	AZT8	X800 GT42	3,0	5,85	1,5	17,7	6	UD09.0 | UD12.0 | UD13.0
45°	0,2	18,0	**U06.4545.020.18 F**	AK5Y	X800 GT42	3,0	5,75	2,2	17,7	6	UD09.0 | UD12.0 | UD13.0

Order example: **U06.4545.020.18 F X800** (X800 = Grade)

simmill UX
SIMTEK Milling Tools Type UX

Face Milling

Tool diameter of 17,7 mm with 6 cutting edges.

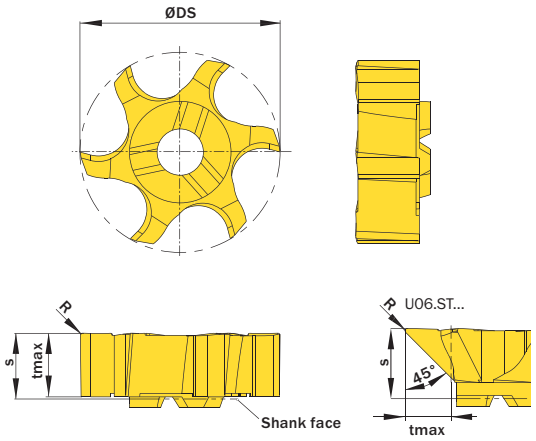
Cutting parameters (start)		
fzm **0,03 mm**	hmax **0,04 mm**	Vc **Page 192**

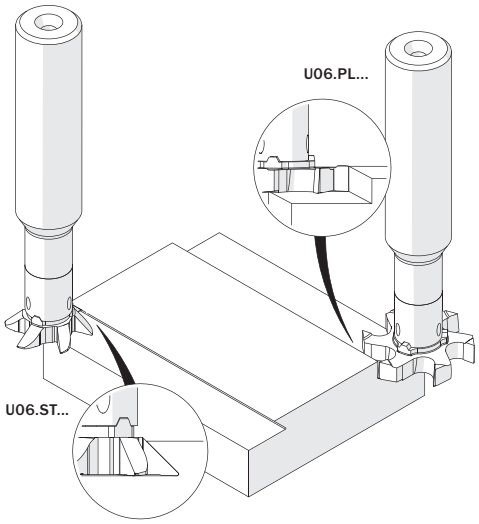
Suitable toolholders on page
86, 87, 88, 89, 90

Similar tools on page
37

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/1214**





Drawing shows: U06.PL55.020.18 Y

tmax mm	R mm	ØDmin (min. bore) mm	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	S mm	ØDS mm	Number of cutting edges	Connectcode www.simtek.com/ccode
5,5	0,2	18,0	**U06.PL55.020.18 Y**	AZUD	X800 GT42	5,8	17,7	6	UD09.0 | UD12.0 | UD13.0
4,0	0,2	18,0	**U06.ST40.020.18 Y**	A03G	X800 GT42	5,8	17,7	6	UD09.0

Order example: **U06.PL55.020.18 Y X800** (X800 = Grade)

simmill VX
SIMTEK Milling Tools Type VX

As of page 27 Application overview

Milling cutter shank, cylindrical (DIN 6535 HA)

Anti-vibration solid carbide type with through coolant and shank according to DIN 6535 HA.

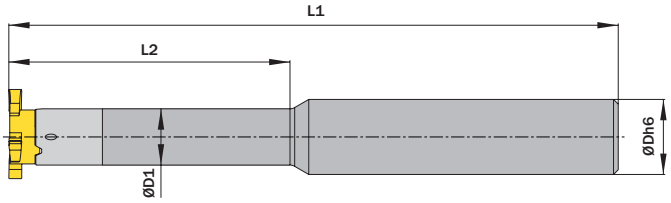
Tightening torque (screw)
7,0 Nm

VSimilar tools on page
39

Please read add. notes
ALL (Page 199)

TW HM | Legend **203**

Scan **QR-Code** | Or Visit **www.simtek.info/cp/274**



ØDh6 mm	ØD1 mm	L2 mm	Part number	Webcode www.simtek.com/iwebcode	L1 mm	Screw	Screw driver	Connectcode www.simtek.com/ccode
▼ ØDh6 = 12,0 mm								
12,0	12,0	42,0	**V22.1212.42 A HM**	ABVM	100,0	VM5x12 T20T	T20T	VD12.0
12,0	12,0	60,0	**V22.1212.60 A HM**	AP4C	130,0	VM5x12 T20T	T20T	VD12.0
▼ ØDh6 = 16,0 mm								
16,0	11,5	30,0	**V22.1611.30 A HM**	AMKQ	90,0	VM5x12 T20T	T20T	VD11.5
16,0	12,0	42,0	**V22.1612.42 A HM**	AAJW	100,0	VM5x12 T20T	T20T	VD12.0
16,0	12,0	60,0	**V22.1612.60 A HM**	AEYP	130,0	VM5x12 T20T	T20T	VD12.0
16,0	12,0	85,0	**V22.1612.85 A HM**	AJS8	160,0	VM5x12 T20T	T20T	VD12.0
16,0	14,3	42,0	**V28.1614.42 A HM**	AGNA	100,0	VM5x12 T20T	T20T	VD14.3
16,0	14,3	60,0	**V28.1614.60 A HM**	AFWJ	130,0	VM5x12 T20T	T20T	VD14.3
16,0	14,3	85,0	**V28.1614.85 A HM**	ANDA	160,0	VM5x12 T20T	T20T	VD14.3
16,0	9,0	33,0	**V33.1609.33 A HM**	AAWZ	100,0	VM5x12 T20T	T20T	VD09.0
▼ ØDh6 = 20,0 mm								
20,0	16,0	45,0	**V22.2016.45 A HM**	AF6W	110,0	VM5x12 T20T	T20T	VD16.0
20,0	16,0	65,0	**V22.2016.65 A HM**	ACHN	130,0	VM5x12 T20T	T20T	VD16.0
20,0	13,5	35,0	**V28.2013.35 A HM**	AE3N	104,0	VM5x12 T20T	T20T	VD13.5
20,0	14,3	85,0	**V28.2014.85 A HM**	AFNT	160,0	VM5x12 T20T	T20T	VD14.3

Order example: **V22.1612.42 A HM**

Milling Cutter Shank, cylindrical (DIN 6535 HA)

Anti-vibration solid carbide type with through coolant and shank according to DIN 6535 HA.

Tightening torque (screw)
7,0 Nm

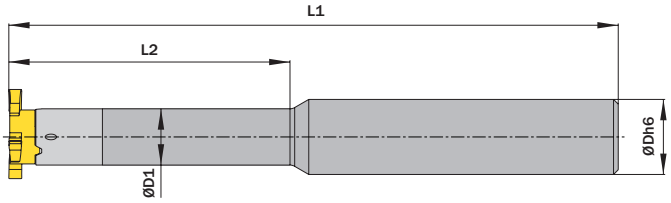
Similar tools on page
39

Please read add. notes
ALL (Page 199)

TW HM | Legend **203**

Scan **QR-Code** | Or Visit **www.simtek.info/cp/428**

This page contains inch tools! These tools are indicated by **inch** on the right hand side.



ØDh6 inch	ØD1 inch	L2 inch	Part number	Webcode www.simtek.com/iwebcode	L1 inch	Screw	Screw driver	Connectcode www.simtek.com/ccode	
▼ ØDh6 = 0.500“									
0.500“	0.500“	1.654“	**V22.0.500.13.42 A HM**	AHBS	3.937“	V M5x12 T20T	T20T	VD12.7	inch
0.500“	0.500“	2.362“	**V22.0.500.13.60 A HM**	AGT2	5.118“	V M5x12 T20T	T20T	VD12.7	inch
▼ ØDh6 = 0.625“									
0.625“	0.453“	1.181“	**V22.0.625.11.30 A HM**	AJ9X	3.543“	V M5x12 T20T	T20T	VD11.5	inch
0.625“	0.472“	1.654“	**V22.0.625.12.42 A HM**	APKM	3.937“	V M5x12 T20T	T20T	VD12.0	inch
0.625“	0.472“	2.362“	**V22.0.625.12.60 A HM**	AMEX	5.118“	V M5x12 T20T	T20T	VD12.0	inch
0.625“	0.472“	3.346“	**V22.0.625.12.85 A HM**	AAG1	6.299“	V M5x12 T20T	T20T	VD12.0	inch
0.625“	0.563“	1.654“	**V28.0.625.14.42 A HM**	AD3T	3.937“	V M5x12 T20T	T20T	VD14.3	inch
0.625“	0.563“	2.362“	**V28.0.625.14.60 A HM**	AK1F	5.118“	V M5x12 T20T	T20T	VD14.3	inch
0.625“	0.563“	3.346“	**V28.0.625.14.85 A HM**	AD9S	6.299“	V M5x12 T20T	T20T	VD14.3	inch

Order example: **V22.0.625.12.85 A HM**

Milling cutter shank, cylindrical (DIN 1835 A)

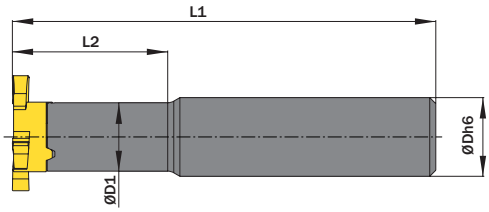
Steel type with shank according to DIN 1835 A.

Tightening torque (screw)
7,0 Nm
Similar tools on page
40
Please read add. notes
ALL (Page 199)

TW ST Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/275**

This page contains inch tools! These tools are indicated by **inch** on the right hand side.



ØDh6 mm/inch	ØD1 mm/inch	L2 mm/inch	Part number	Webcode www.simtek.com/webcode	With through coolant supply	L1 mm/inch	Screw	Screw driver	Connectcode www.simtek.com/ccode	
▼ ØDh6 = 10,0 mm										
10,0	11,3	10,7	**V22.1011.10 A ST**	ABCX	No	60,0	VM5x12T20T	T20T	VD11.3	
▼ ØDh6 = 13,0 mm										
13,0	11,3	25,7	**V22.1311.25 A ST**	ACUJ	No	70,0	VM5x12T20T	T20T	VD11.3	
13,0	14,0	10,7	**V28.1314.10 A ST**	AB44	No	70,0	VM5x12T20T	T20T	VD14.0	
▼ ØDh6 = 0.625“										
0.625“	0.472“	0.945“	**V22.0.625.12.24 A ST**	AN3S	Yes	3.150“	VM5x12T20T	T20T	VD12.0	inch
▼ ØDh6 = 16,0 mm										
16,0	12,0	24,0	**V22.1612.24 A ST**	AHC0	Yes	80,0	VM5x12T20T	T20T	VD12.0	
▼ ØDh6 = 0.750“										
0.750“	0.551“	1.406“	**V28.0.750.14.35 A ST**	A4NV	Yes	3.937“	VM5x12T20T	T20T	VD14.0	inch
▼ ØDh6 = 20,0 mm										
20,0	14,0	35,7	**V28.2014.35 A ST**	AEWT	Yes	100,0	VM5x12T20T	T20T	VD14.0	

Order example: **V22.1612.24 A ST**

Milling cutter shank, Weldon (DIN 6535 HB)

Anti-vibration solid carbide type with through coolant and shank according to DIN 6535 HB.

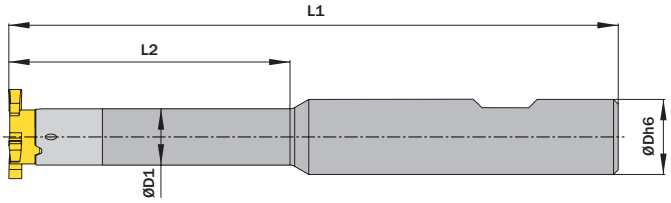
Tightening torque (screw)
7,0 Nm

Similar tools on page
41

Please read add. notes
ALL (Page 199)

TW HM | Legend **203**

Scan **QR-Code** | Or Visit **www.simtek.info/cp/276**



ØDh6 mm	ØD1 mm	L2 mm	Part number	Webcode www.simtek.com/iwebcode	L1 mm	Screw	Screw driver	Connectcode www.simtek.com/ccode
▼ ØDh6 = 12,0 mm								
12,0	12,0	42,0	**V22.1212.42 B HM**	APJA	100,0	VM5x12T20T	T20T	VD12.0
12,0	12,0	60,0	**V22.1212.60 B HM**	AJ81	130,0	VM5x12T20T	T20T	VD12.0
▼ ØDh6 = 16,0 mm								
16,0	11,5	30,0	**V22.1611.30 B HM**	AKP6	90,0	VM5x12T20T	T20T	VD11.5
16,0	12,0	42,0	**V22.1612.42 B HM**	AHES	100,0	VM5x12T20T	T20T	VD12.0
16,0	12,0	60,0	**V22.1612.60 B HM**	AD03	130,0	VM5x12T20T	T20T	VD12.0
16,0	12,0	85,0	**V22.1612.85 B HM**	APYY	160,0	VM5x12T20T	T20T	VD12.0
16,0	14,3	42,0	**V28.1614.42 B HM**	ANNZ	100,0	VM5x12T20T	T20T	VD14.3
16,0	14,3	60,0	**V28.1614.60 B HM**	AJ23	130,0	VM5x12T20T	T20T	VD14.3
16,0	14,3	85,0	**V28.1614.85 B HM**	AGBC	160,0	VM5x12T20T	T20T	VD14.3
16,0	9,0	33,0	**V33.1609.33 B HM**	APSS	100,0	VM5x12T20T	T20T	VD09.0
▼ ØDh6 = 20,0 mm								
20,0	16,0	45,0	**V22.2016.45 B HM**	AG2G	110,0	VM5x12T20T	T20T	VD16.0
20,0	16,0	65,0	**V22.2016.65 B HM**	AHNF	130,0	VM5x12T20T	T20T	VD16.0
20,0	13,5	35,0	**V28.2013.35 B HM**	ACWW	104,0	VM5x12T20T	T20T	VD13.5
20,0	14,3	85,0	**V28.2014.85 B HM**	AF3D	160,0	VM5x12T20T	T20T	VD14.3

Order example: **V22.1612.42 B HM**

Milling Cutter Shank, Weldon (DIN 6535 HB)

Anti-vibration solid carbide type with through coolant and shank according to DIN 6535 HB.

Tightening torque (screw)
7,0 Nm

Similar tools on page
41

Please read add. notes
ALL (Page 199)

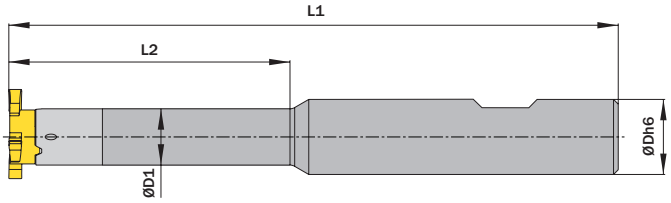
TW HM TW SM

Legend 203

Scan QR-Code Or Visit **www.simtek.info/cp/429**

This page contains inch tools! These tools are indicated by inch on the right hand side.

Whistle-Notch fixation available upon request.



ØDh6 inch	ØD1 inch	L2 inch	Part number	Webcode www.simtek.com/iwebcode	L1 inch	Screw	Screw driver	Connectcode www.simtek.com/ccode	
▼ ØDh6 = 0.500“									
0.500“	0.500“	1.654“	**V22.0.500.13.42 B HM**	AH67	3.937“	V M5x12 T20T	T20T	VD12.7	inch
0.500“	0.500“	2.362“	**V22.0.500.13.60 B HM**	AKZA	5.118“	V M5x12 T20T	T20T	VD12.7	inch
▼ ØDh6 = 0.625“									
0.625“	0.453“	1.181“	**V22.0.625.11.30 B HM**	AG3Z	3.543“	V M5x12 T20T	T20T	VD11.5	inch
0.625“	0.472“	1.654“	**V22.0.625.12.42 B HM**	AC12	3.937“	V M5x12 T20T	T20T	VD12.0	inch
0.625“	0.472“	2.362“	**V22.0.625.12.60 B HM**	ACUX	5.118“	V M5x12 T20T	T20T	VD12.0	inch
0.625“	0.472“	3.346“	**V22.0.625.12.85 B HM**	ABYS	6.299“	V M5x12 T20T	T20T	VD12.0	inch
0.625“	0.563“	1.654“	**V28.0.625.14.42 B HM**	AFE3	3.937“	V M5x12 T20T	T20T	VD14.3	inch
0.625“	0.563“	2.362“	**V28.0.625.14.60 B HM**	AB65	5.118“	V M5x12 T20T	T20T	VD14.3	inch
0.625“	0.563“	3.346“	**V28.0.625.14.85 B HM**	AKGV	6.299“	V M5x12 T20T	T20T	VD14.3	inch
0.625“	0.354“	1.299“	**V33.0.625.09.33 B HM**	A28K	3.937“	V M5x12 T20T	T20T	VD09.0	inch

Order example: **V22.0.500.13.42 B HM**

Milling Cutter Shank, Weldon (DIN 1835 B)

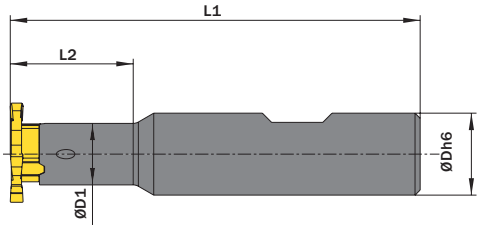
Steel type with through coolant and shank according to DIN 1835 B.

Tightening torque (screw)	**7,0 Nm**
Similar tools on page	**42**
Please read add. notes	**ALL (Page 199)**

TW ST Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/423**

This page contains inch tools! These tools are indicated by **inch** on the right hand side.



ØDh6 mm/inch	ØD1 mm/inch	L2 mm/inch	Part number	Webcode www.simtek.com/iwebcode	L1 mm/inch	Screw	Screw driver	Connectcode www.simtek.com/ccode	
▼ **ØDh6 = 0.625“**									
0.625“	0.472“	0.945“	**V22.0.625.12.24 B ST**	AD8N	3.150“	VM5x12T20T	T20T	VD12.0	inch
0.625“	0.354“	0.787“	**V33.0.625.09.20 B ST**	A28J	3.150“	VM5x12T20T	T20T	VD09.0	inch
▼ **ØDh6 = 16,0 mm**									
16,0	12,0	24,0	**V22.1612.24 B ST**	AFWU	80,0	VM5x12T20T	T20T	VD12.0	
16,0	9,0	20,0	**V33.1609.20 B ST**	AB46	80,0	VM5x12T20T	T20T	VD09.0	
▼ **ØDh6 = 20,0 mm**									
20,0	14,0	35,7	**V28.2014.35 B ST**	AE05	100,0	VM5x12T20T	T20T	VD14.0	

Order example: **V22.1612.24 B ST**

Milling cutter shank, for collet chucks (DIN6499)

For collet chucks according to DIN6499-A.

Tightening torque (screw)
7,0 Nm

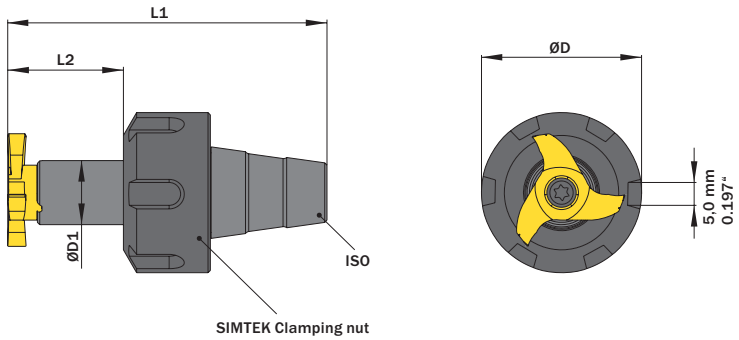
Similar tools on page
38

Please read add. notes
ALL (Page 199)

TW ST Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/456**

Whistle-Notch fixation available upon request.



Milling cutter shank is only available together with clamping nut.
Clamping nut is available as a spare part.

For collet chuck	ØD1 mm	L2 mm	Part number	Webcode www.simtek.com/webcode	Clamping nut	Thread clamping nut	ØD mm	L1 mm	Screw	Screw driver	Connectcode www.simtek.com/ccode
▼ For collet chuck = ER16											
ER16	12,0	30,0	**V22.ER16.12.30**	AD5W	VER16.18.32	M22x1,5	32,0	60,0	VM5x12T20T	T20T	**VD12.0**
ER16	12,0	30,0	**V22.ER16.12.30.B**	AVMX	VER16.18.22	M19x1,0	22,0	60,0	VM5x12T20T	T20T	**VD12.0**
ER16	12,0	30,0	**V22.ER16.12.30.C**	AVMY	VER16.18.25	M19x1,0	25,0	60,0	VM5x12T20T	T20T	**VD12.0**
▼ For collet chuck = ER20											
ER20	12,0	30,0	**V22.ER20.12.30**	APJ7	VER20.19.35	M25x1,5	35,0	65,65	VM5x12T20T	T20T	**VD12.0**
ER20	12,0	30,0	**V22.ER20.12.30.B**	AVM1	VER20.19.28	M24x1,0	28,0	65,65	VM5x12T20T	T20T	**VD12.0**
ER20	14,0	35,0	**V28.ER20.14.35**	ABJC	VER20.19.35	M25x1,5	35,0	69,5	VM5x12T20T	T20T	**VD14.0**
ER20	14,0	35,0	**V28.ER20.14.35.B**	AVM2	VER20.19.28	M24x1,0	28,0	69,5	VM5x12T20T	T20T	**VD14.0**
▼ For collet chuck = ER25											
ER25	12,0	30,0	**V22.ER25.12.30**	AESQ	VER25.20.42	M32x1,5	42,0	68,0	VM5x12T20T	T20T	**VD12.0**
ER25	12,0	30,0	**V22.ER25.12.30.B**	AVM4	VER25.20.35	M30x1,0	35,0	68,0	VM5x12T20T	T20T	**VD12.0**
ER25	14,0	19,0	**V22.ER25.14.19**	AMP6	VER25.20.42	M32x1,5	42,0	63,0	VM5x12T20T	T20T	**VD14.0**
ER25	14,0	19,0	**V22.ER25.14.19.B**	AVM5	VER25.20.35	M30x1,0	35,0	63,0	VM5x12T20T	T20T	**VD14.0**
ER25	14,0	35,0	**V28.ER25.14.35**	APAS	VER25.20.42	M32x1,5	42,0	73,0	VM5x12T20T	T20T	**VD14.0**
ER25	14,0	35,0	**V28.ER25.14.35.B**	AVM6	VER25.20.35	M30x1,0	35,0	73,0	VM5x12T20T	T20T	**VD14.0**
▼ For collet chuck = ER32											
ER32	12,0	30,0	**V22.ER32.12.30**	AFVA	VER32.23.50	M40x1,5	50,0	74,0	VM5x12T20T	T20T	**VD12.0**
ER32	14,0	19,0	**V22.ER32.14.19**	AKXJ	VER32.23.50	M40x1,5	50,0	63,0	VM5x12T20T	T20T	**VD14.0**
ER32	14,0	35,0	**V28.ER32.14.35**	AC0B	VER32.23.50	M40x1,5	50,0	79,0	VM5x12T20T	T20T	**VD14.0**

Order example: **V22.ER25.14.19**

SIMTEK Milling Cutter

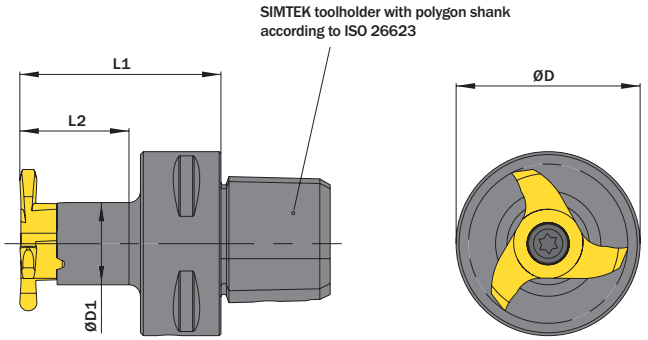
SIMTEK toolholder with polygon shank according to ISO 26623.

Tightening torque (screw)
7,0 Nm

Please read add. notes
ALL (Page 199)

TW ST Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/950**



Drawing shows: V22.C312.18

Polygon shank size	ØD1 mm	L2 mm	Part number	Webcode www.simtek.com/webcode	L1 mm	ØD mm	ØDS mm	Screw	Screw driver	Connectcode www.simtek.com/ccode
C3	12,0	18,5	**V22.C312.18**	AUP4	35,0	32,0	21,7	V M5x12 T20T	T20T	VD12.0

Order example: **V22.C312.18**

simmill VX
SIMTEK Milling Tools Type VX

Circlip Ring Groove Milling, internal

Circlip ring groove milling in bores as of bore diameter 22,0 mm. For use in all materials.

Cutting parameters (start)		
fzm **0,04 mm**	hmax **0,05 mm**	Vc **Page 192**

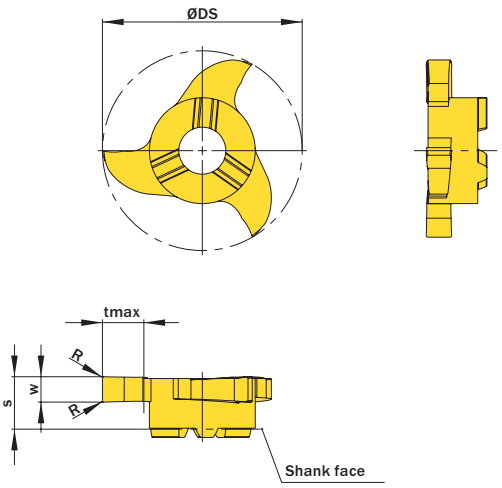
Suitable toolholders on page
113, 114, 115, 116, 117, 118, 119, 120

Similar tools on page
29

Please read add. notes
ALL (Page 199), H01 (Page 200)

SP HM Legend **203**

Scan QR-Code Or Visit **www.simtek.info/cp/371**



Drawing shows: V22.0265.02 G

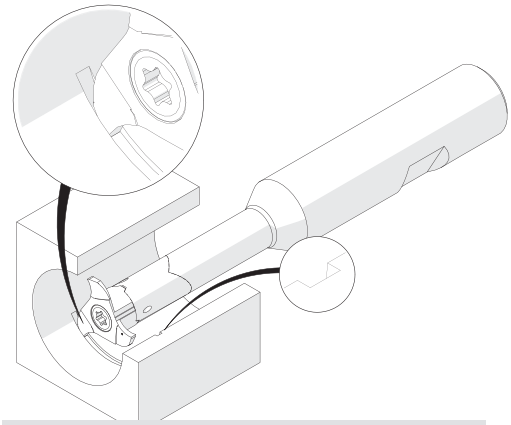


Image shows exemplary application possibility with similar tool.

w -0,02 mm	Nominal width of groove mm	R mm	ØDmin (min. bore) mm	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	tmax mm	S mm	ØDS mm	Number of cutting edges	Connectcode www.simtek.com/ccode
0,74	0,7	-	22,0	**V22.0070.00 Z**	ABDX	X808 X408	1,5	5,6	21,7	3	VD12.0
0,84	0,8	-	22,0	**V22.0080.00 Z**	AP3G	X808 X408	1,7	5,6	21,7	3	VD12.0
0,94	0,9	-	22,0	**V22.0090.00 Z**	AJMH	X808 X408	1,9	5,6	21,7	3	VD12.0
1,04	1,0	-	22,0	**V22.0100.00 Z**	AMB0	X808 X408	2,1	5,6	21,7	3	VD12.0
1,21	1,1	-	22,0	**V22.0110.00 Z**	APJY	X808 X408	2,5	5,7	21,7	3	VD12.0
1,41	1,3	0,1	22,0	**V22.0130.01 G**	ACS5	X800 GT42	4,5	5,7	21,7	3	VD12.0
1,71	1,6	0,1	22,0	**V22.0160.01 G**	ABJ5	X800 GT42	4,5	5,7	21,7	3	VD12.0
1,96	1,85	0,2	22,0	**V22.0185.02 G**	AGKU	X800 GT42	4,5	5,7	21,7	3	VD12.0
2,26	2,15	0,2	22,0	**V22.0215.02 G**	AFGW	X800 GT42	4,5	5,7	21,7	3	VD12.0
2,76	2,65	0,2	22,0	**V22.0265.02 G**	ADKF	X800 GT42	4,5	5,7	21,7	3	VD12.0
3,26	3,15	0,2	22,0	**V22.0315.02 G**	AMP1	X800 GT42	4,5	5,7	21,7	3	VD12.0
4,26	4,15	0,2	22,0	**V22.0415.02 G**	AE13	X800 GT42	4,5	5,7	21,7	3	VD12.0
5,26	5,15	0,2	22,0	**V22.0515.02 G**	AEK1	X800 GT42	4,5	5,7	21,7	3	VD12.0
5,26	5,15	0,4	22,0	**V22.0515.04 G**	AAG9	X800 GT42	4,5	5,7	21,7	3	VD12.0

Order example: **V22.0515.04 G X800** (X800 = Grade)

simtek individual | V22. w, 1/100 mm, 4 Digits . R, 1/100 mm, 3 Digits Tolerance

Example Part number: **V22.0179.030 XG**

simmill VX
SIMTEK Milling Tools Type VX

Circlip Ring Groove Milling, internal

Circlip ring groove milling in bores as of bore diameter 22,0 mm. Highpositive rake angle for use in light alloys.

Cutting parameters (start)		
fzm **0,04 mm**	hmax **0,05 mm**	Vc **Page 192**

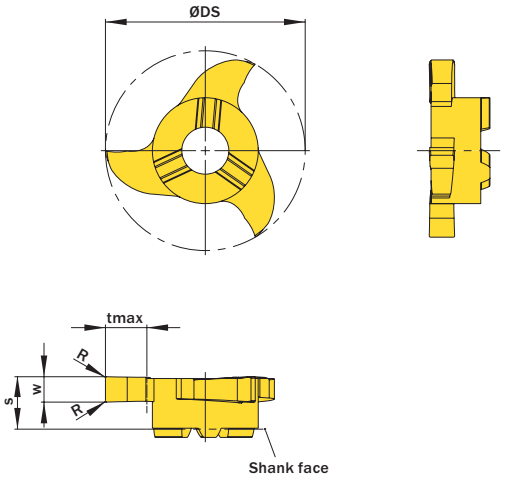
Suitable toolholders on page
113, 114, 115, 116, 117, 118, 119, 120

Similar tools on page
29

Please read add. notes
ALL (Page 199), H01 (Page 200)

SP HM LM Legend **203**

Scan QR-Code Or Visit **www.simtek.info/cp/372**



Drawing shows: V22.0265.42 C

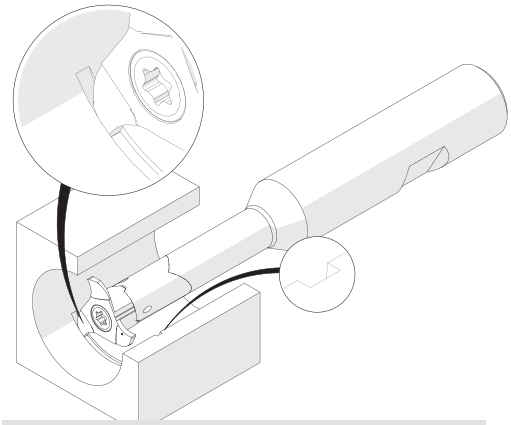


Image shows exemplary application possibility with similar tool.

w -0,02 mm	Nominal width of groove mm	R mm	ØDmin (min. bore) mm	Part number	Webcode www.simtek.com/webcode	Our first choice N	tmax mm	S mm	ØDS mm	Number of cutting edges	Connectcode www.simtek.com/ccode
1,41	1,3	0,1	22,0	**V22.0130.41 C**	AKE5	HF25	4,5	5,7	21,7	3	VD12.0
1,71	1,6	0,1	22,0	**V22.0160.41 C**	AKCG	HF25	4,5	5,7	21,7	3	VD12.0
1,96	1,85	0,2	22,0	**V22.0185.42 C**	AF6X	HF25	4,5	5,7	21,7	3	VD12.0
2,26	2,15	0,2	22,0	**V22.0215.42 C**	APU4	HF25	4,5	5,7	21,7	3	VD12.0
2,76	2,65	0,2	22,0	**V22.0265.42 C**	AG8P	HF25	4,5	5,7	21,7	3	VD12.0
3,26	3,15	0,2	22,0	**V22.0315.42 C**	AHWH	HF25	4,5	5,7	21,7	3	VD12.0
4,26	4,15	0,2	22,0	**V22.0415.42 C**	AJYP	HF25	4,5	5,7	21,7	3	VD12.0
5,26	5,15	0,2	22,0	**V22.0515.42 C**	ANZF	HF25	4,5	5,7	21,7	3	VD12.0

Order example: **V22.0130.41 C X808** (X808 = Grade)

simtek individual | V22. w, 1/100 mm, 4 Digits . R, 1/100 mm , 3 Digits Tolerance C

Example Part number: **V22.0179.030 XG C**

simmill VX
SIMTEK Milling Tools Type VX

General Groove Milling

General groove milling. For use in bores as of minimum bore diameter 22,0 mm.

Cutting parameters (start)		
fzm **0,04 mm**	hmax **0,05 mm**	Vc **Page 192**

Suitable toolholders on page
113, 114, 115, 116, 117, 118, 119, 120

Similar tools on page
27

Please read add. notes
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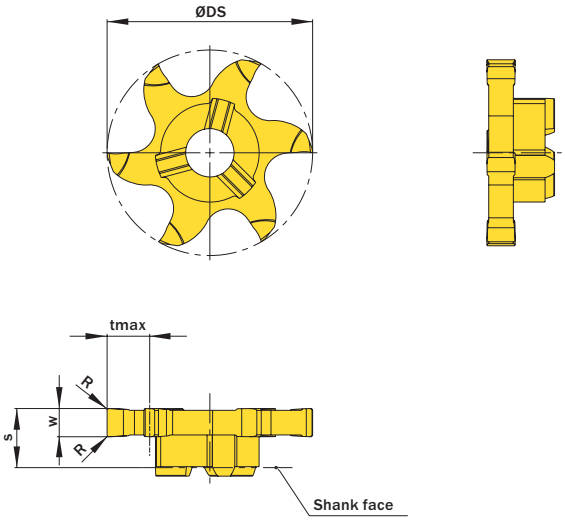
SP HM Legend **203**

Scan QR-Code Or Visit **www.simtek.info/cp/380**



Drawing shows: V06.0300.020.22 G

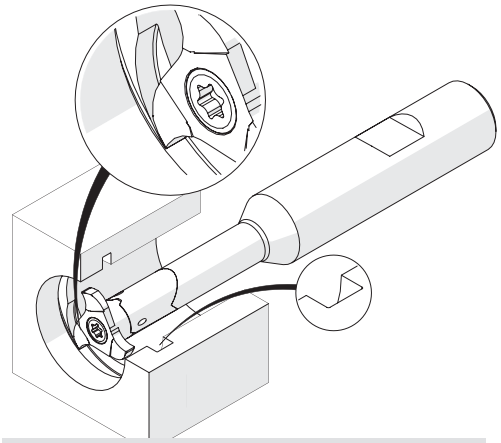


Image shows exemplary application possibility with similar tool.

w +0,02 mm	Nominal width of groove mm	R mm	ØDmin (min. bore) mm	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	tmax mm	S mm	ØDS mm	Number of cutting edges	Connectcode www.simtek.com/ccode
1,0	-	0,1	22,0	**V06.0100.010.22 G**	AGZW	X800 GT42	4,5	5,8	21,7	6	VD12.0
1,5	-	0,1	22,0	**V06.0150.010.22 G**	AGY6	X800 GT42	4,5	6,2	21,7	6	VD12.0
2,0	-	0,2	22,0	**V06.0200.020.22 G**	AFJQ	X800 GT42	4,5	6,2	21,7	6	VD12.0
2,5	-	0,2	22,0	**V06.0250.020.22 G**	AKJ5	X800 GT42	4,5	6,2	21,7	6	VD12.0
3,0	-	0,2	22,0	**V06.0300.020.22 G**	AFBB	X800 GT42	4,5	6,2	21,7	6	VD12.0
4,0	-	0,2	22,0	**V06.0400.020.22 G**	APZW	X800 GT42	4,5	6,2	21,7	6	VD12.0

Order example: **V06.0200.020.22 G X800** (X800 = Grade)

simtek individual | V06. | w, 1/100 mm, 4 Digits | . | R, 1/100 mm , 3 SDigits | .22 | Tolerance

Example Part number: **V06.0179.030.22 XG**

simmill VX
SIMTEK Milling Tools Type VX

General Groove Milling

General groove milling. For use in bores as of minimum bore diameter 22,0 mm (0.787“).

Cutting parameters (start)		
fzm **0,04 mm**	hmax **0,05 mm**	Vc **Page 192**

Suitable toolholders on page
113, 114, 115, 116, 117, 118, 119, 120

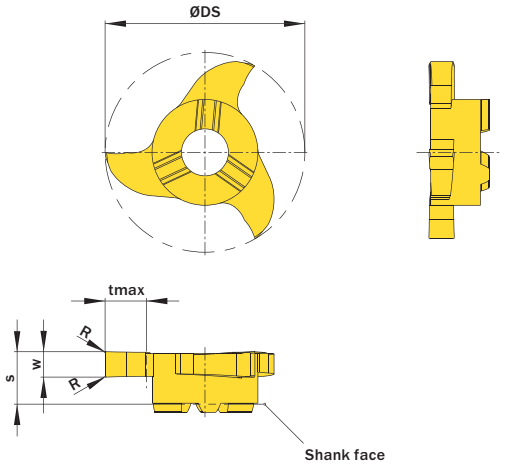
Similar tools on page
27

Please read add. notes
ALL (Page 199), H01 (Page 200)

SP HM Legend **203**

Scan QR-Code Or Visit **www.simtek.info/cp/373**

This page contains inch tools! These tools are indicated by **inch** on the right hand side.



Drawing shows: V22.0250.02 G

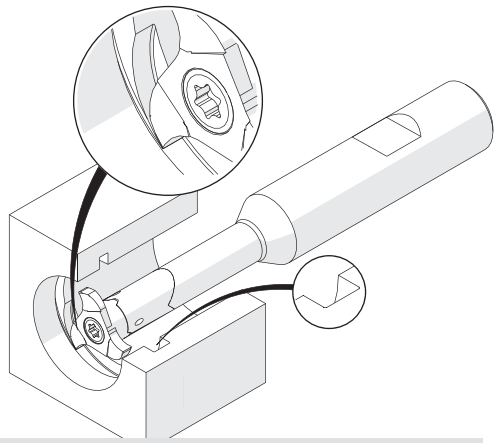


Image shows exemplary application possibility with similar tool.

w +0,02mm / 0.001“ mm/inch	Nominal width of groove mm/inch	R mm/inch	ØDmin (min. bore) mm/inch	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	tmax mm/inch	S mm/inch	ØDS mm/inch	Number of cutting edges	Connectcode www.simtek.com/ccode	
1,0	-	0,1	22,0	**V22.0100.01 G**	AEQM	X800 GT42	4,5	5,7	21,7	3	VD12.0	
1,5	-	0,2	22,0	**V22.0150.02 G**	AHH9	X800 GT42	4,5	5,7	21,7	3	VD12.0	
0.062“	-	0.008“	0.866“	**V22.0157.02 G**	ANQX	X800 GT42	0.177“	0.224“	0.854“	3	VD12.0	inch
2,0	-	0,2	22,0	**V22.0200.02 G**	ADNU	X800 GT42	4,5	5,7	21,7	3	VD12.0	
0.094“	-	0.008“	0.866“	**V22.0239.02 G**	AHMN	X800 GT42	0.177“	0.224“	0.854“	3	VD12.0	inch
2,5	-	0,2	22,0	**V22.0250.02 G**	AKKF	X800 GT42	4,5	5,7	21,7	3	VD12.0	
3,0	-	0,2	22,0	**V22.0300.02 G**	ABXX	X800 GT42	4,5	5,7	21,7	3	VD12.0	
0.125“	-	0.008“	0.866“	**V22.0318.02 G**	AK1S	X800 GT42	0.177“	0.224“	0.854“	3	VD12.0	inch
0.125“	-	0.016“	0.866“	**V22.0318.04 G**	AB1P	X800 GT42	0.177“	0.224“	0.854“	3	VD12.0	inch
3,5	-	0,2	22,0	**V22.0350.02 G**	AM6N	X800 GT42	4,5	5,7	21,7	3	VD12.0	
0.140“	-	0.008“	0.866“	**V22.0356.02 G**	AD90	X800 GT42	0.177“	0.224“	0.854“	3	VD12.0	inch
4,0	-	0,2	22,0	**V22.0400.02 G**	AF5N	X800 GT42	4,5	5,7	21,7	3	VD12.0	
4,0	-	0,4	22,0	**V22.0400.04 G**	AGMH	X800 GT42	4,5	5,7	21,7	3	VD12.0	
0.172“	-	0.008“	0.866“	**V22.0437.02 G**	AHBP	X800 GT42	0.177“	0.224“	0.854“	3	VD12.0	inch
0.172“	-	0.016“	0.866“	**V22.0437.04 G**	AEPH	X800 GT42	0.177“	0.224“	0.854“	3	VD12.0	inch
4,75	-	0,2	22,0	**V22.0475.02 G**	ADF7	X800 GT42	4,5	5,7	21,7	3	VD12.0	
5,0	-	0,2	22,0	**V22.0500.02 G**	AZCE	X800 GT42	4,5	5,7	21,7	3	VD12.0	
6,35	-	0,2	22,0	**V22.0635.02 G**	A1JU	X800 GT42	4,5	9,3	21,7	3	VD12.0	

Order example: **V22.0300.02 G X800** (X800 = Grade)

simtek individual | V22. w, 1/100 mm, 4 Digits . R, 1/100 mm, 3 Digits Tolerance

Example Part number: **V22.0179.030 XG**

simmill VX
SIMTEK Milling Tools Type VX

General Groove Milling, for smooth cuts

General groove milling. With a new cutting edge geometry for very smooth cuts and better surface quality. For use in bores as of minimum bore diameter 22,0 mm.

Cutting parameters (start)		
fzm **0,04 mm**	hmax **0,05 mm**	Vc **Page 192**

Suitable toolholders on page
113, 114, 115, 116, 117, 118, 119, 120

Similar tools on page
27

Please read add. notes
ALL (Page 199), H01 (Page 200), H05 (Page 202)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/1124**

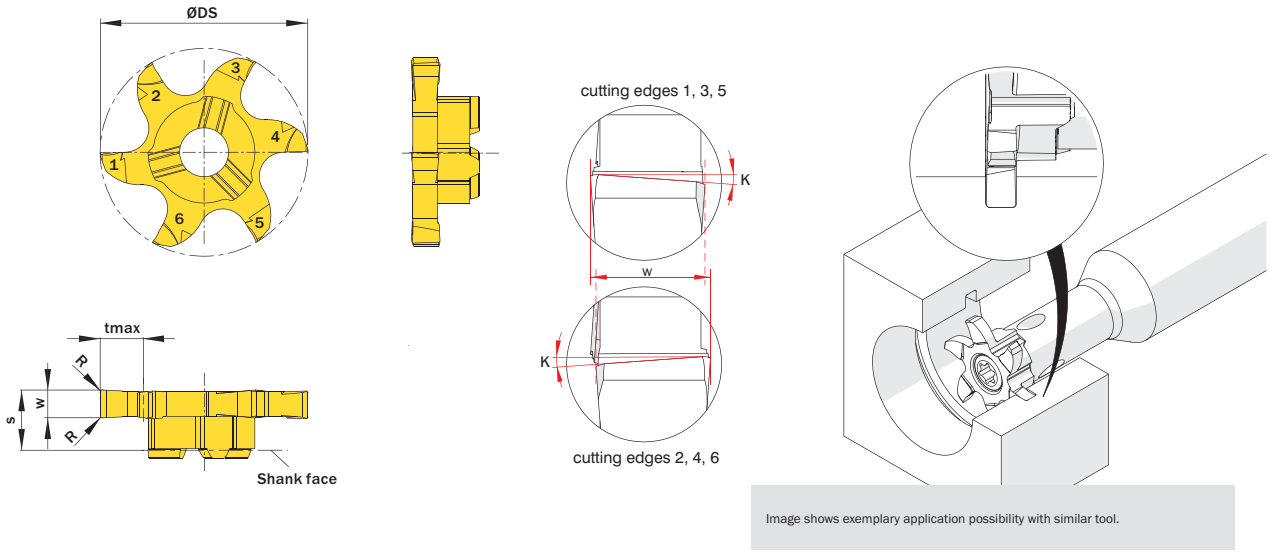


Image shows exemplary application possibility with similar tool.

Drawing shows: V06.0300.020.22 GY

w +0,02 mm	Nominal width of groove mm	R mm	ØDmin (min. bore) mm	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	tmax mm	S mm	ØDS mm	Number of cutting edges	Connectcode www.simtek.com/ccode
2,0	-	0,2	22,0	**V06.0200.020.22 GY**	A0ZB	X800 GT42	4,5	6,2	21,7	6	VD12.0
2,5	-	0,2	22,0	**V06.0250.020.22 GY**	AYFX	X800 GT42	4,5	6,2	21,7	6	VD12.0
3,0	-	0,2	22,0	**V06.0300.020.22 GY**	AYFY	X800 GT42	4,5	6,2	21,7	6	VD12.0
4,0	-	0,2	22,0	**V06.0400.020.22 GY**	AYFZ	X800 GT42	4,5	6,2	21,7	6	VD12.0

Order example: **V06.0250.020.22 GY X800** (X800 = Grade)

simmill VX
SIMTEK Milling Tools Type VX

General Groove Milling, for smooth cuts

General groove milling. With a new cutting edge geometry for very smooth cuts and better surface quality. For use in bores as of minimum bore diameter 25,0 mm.

Cutting parameters (start)		
fzm **0,04 mm**	hmax **0,05 mm**	Vc **Page 192**

Suitable toolholders on page
113, 114, 115, 116, 117, 118, 119

Similar tools on page
27

Please read add. notes
ALL (Page 199), H01 (Page 200), H05 (Page 202)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/1135**

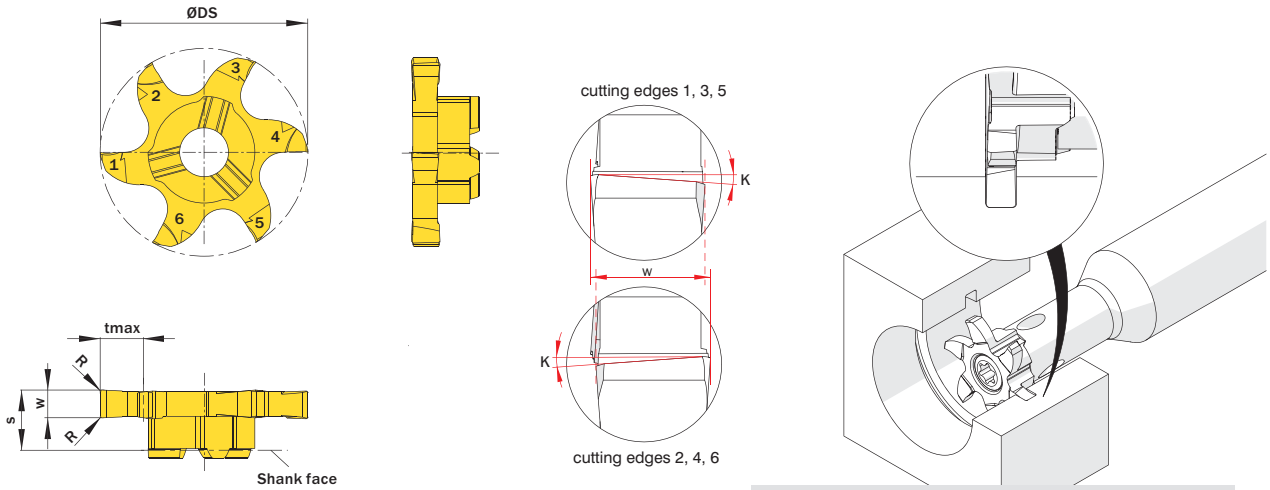


Image shows exemplary application possibility with similar tool.

Drawing shows: V06.0300.020.22 GY

w +0,02	Nominal width of groove	R	ØDmin (min. bore)	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	tmax	S	ØDS	Number of cutting edges	Connectcode www.simtek.com/ccode
mm	mm	mm	mm				mm	mm	mm		
▼ØDmin (min. bore) = 25,0 mm											
2,5	-	0,2	25,0	**V06.0250.020.25 GY**	AZD0	X800 GT42	5,0	6,4	24,8	6	VD14.0|VD14.3
2,76	2,65	0,2	25,0	**V06.0265.020.25 GY**	AZD1	X800 GT42	5,0	6,4	24,8	6	VD14.0|VD14.3
3,0	-	0,2	25,0	**V06.0300.020.25 GY**	AZD2	X800 GT42	5,0	6,4	24,8	6	VD14.0|VD14.3
4,0	-	0,2	25,0	**V06.0400.020.25 GY**	AZD3	X800 GT42	5,0	6,4	24,8	6	VD14.0|VD14.3
5,0	-	0,2	25,0	**V06.0500.020.25 GY**	AZD4	X800 GT42	5,0	6,4	24,8	6	VD14.0|VD14.3
6,0	-	0,2	25,0	**V06.0600.020.25 GY**	AZD5	X800 GT42	5,0	6,4	24,8	6	VD14.0|VD14.3
▼ ØDmin (min. bore) = 28,0 mm											
1,6	-	0,1	28,0	**V06.0160.010.28 GY**	A4XZ	X800 GT42	6,5	6,2	27,7	6	VD14.0|VD14.3
2,0	-	0,2	28,0	**V06.0200.020.28 GY**	A4X1	X800 GT42	6,5	6,2	27,7	6	VD14.0|VD14.3
2,5	-	0,2	28,0	**V06.0250.020.28 GY**	AYJC	X800 GT42	6,5	6,2	27,7	6	VD14.0|VD14.3
2,76	2,65	0,2	28,0	**V06.0265.020.28 GY**	AYF8	X800 GT42	6,5	6,2	27,7	6	VD14.0|VD14.3
3,0	-	0,2	28,0	**V06.0300.020.28 GY**	AYF9	X800 GT42	6,5	6,2	27,7	6	VD14.0|VD14.3
3,5	-	0,2	28,0	**V06.0350.020.28 GY**	A36F	X800 GT42	6,5	6,2	27,7	6	VD14.0|VD14.3
4,0	-	0,2	28,0	**V06.0400.020.28 GY**	AYGA	X800 GT42	6,5	6,2	27,7	6	VD14.0|VD14.3
5,0	-	0,2	28,0	**V06.0500.020.28 GY**	AYGB	X800 GT42	6,5	6,2	27,7	6	VD14.0|VD14.3
6,0	-	0,2	28,0	**V06.0600.020.28 GY**	AYGC	X800 GT42	6,5	6,2	27,7	6	VD14.0|VD14.3

Order example: **V06.0400.020.28 GY X800** (X800 = Grade)

simmill VX
SIMTEK Milling Tools Type VX

General Groove Milling, for smooth cuts

General groove milling. With a new cutting edge geometry for very smooth cuts and better surface quality. For use in bores as of minimum bore diameter 35,0 mm.

Cutting parameters (start)		
fzm **0,04 mm**	hmax **0,05 mm**	Vc **Page 192**

Suitable toolholders on page
113, 114, 115, 116, 117, 118, 119, 120

Similar tools on page
27

Please read add. notes
ALL (Page 199), H01 (Page 200), H05 (Page 202)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/1136**

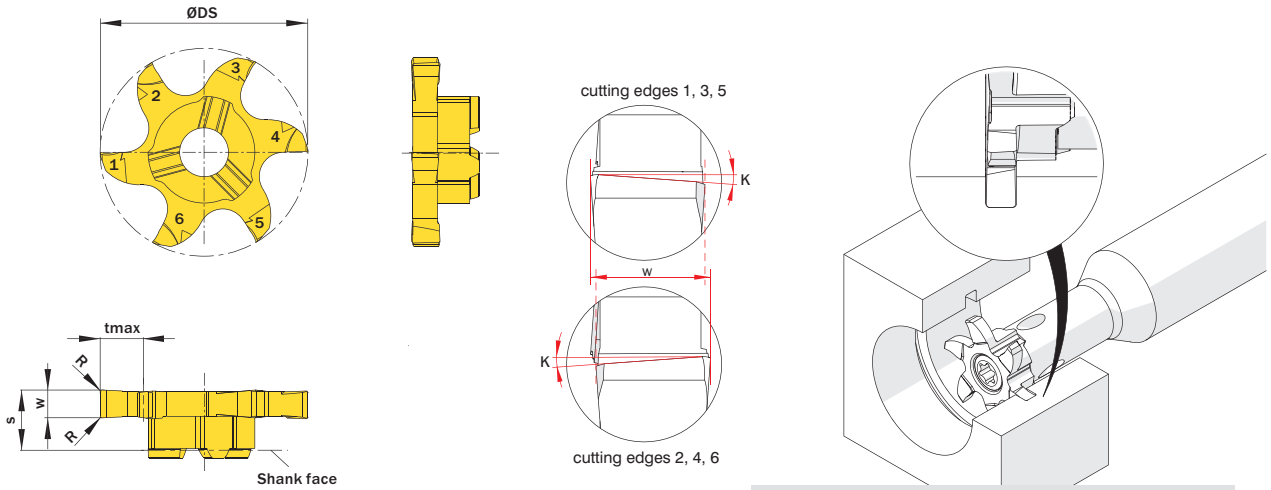


Image shows exemplary application possibility with similar tool.

Drawing shows: V06.0300.020.22 GY

w ±0.02 mm	Nominal width of groove mm	R mm	ØDmin (min. bore) mm	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	tmax mm	S ±0.02 mm	ØDS mm	Number of cutting edges	Connectcode www.simtek.com/ccode
▼ ØDmin (min. bore) = 35,0 mm											
2,0	-	0,2	35,0	**V06.0200.020.35 GY**	AYF5	X800 GT42	10,0	6,2	34,7	6	VD14.0|VD14.3
2,5	-	0,2	35,0	**V06.0250.020.35 GY**	AYF6	X800 GT42	10,0	6,2	34,7	6	VD14.0|VD14.3
3,0	-	0,2	35,0	**V06.0300.020.35 GY**	AYF7	X800 GT42	10,0	6,2	34,7	6	VD14.0|VD14.3
▼ ØDmin (min. bore) = 37,0 mm											
1,5	-	0,1	37,0	**V06.0150.010.37 GY**	AZDZ	X800 GT42	12,0	6,2	36,7	6	VD12.0
2,0	-	0,2	37,0	**V06.0200.020.37 GY**	AX0H	X800 GT42	12,0	6,2	36,7	6	VD12.0

Order example: **V06.0300.020.35 GY X800** (X800 = Grade)

Circlip Ring Groove Milling with chamfering

Circlip ring groove milling with chamfering. For use in minimum bore diameter 22,0 mm.

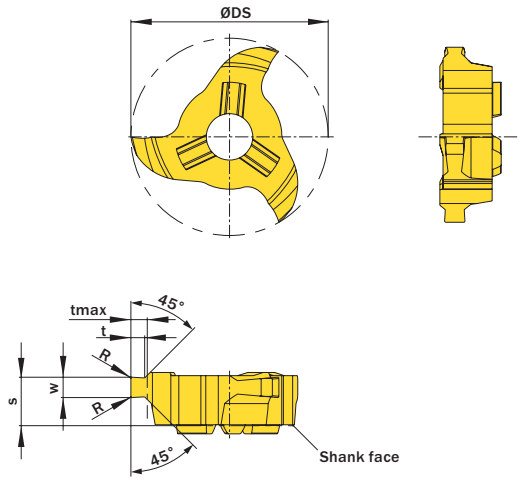
Cutting parameters (start)		
fzm **0,04 mm**	hmax **0,05 mm**	Vc **Page 192**

Suitable toolholders on page
113, 114, 115, 116, 117, 118, 119, 120

Please read add. notes
ALL (Page 199), H01 (Page 200)

SP HM Legend **203**

Scan QR-Code Or Visit **www.simtek.info/cp/419**



Drawing shows: V22.2215.35 F

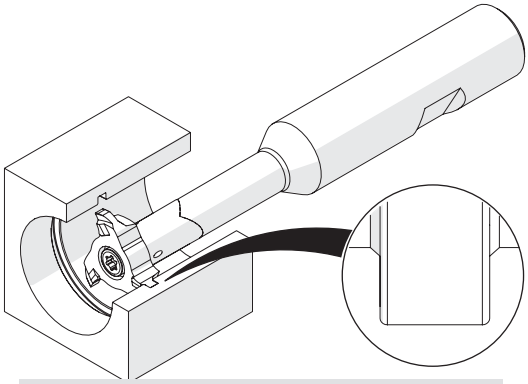


Image shows exemplary application possibility with similar tool.

w -0,02	Nominal width of groove	R	ØDmin (min. bore)	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	t	tmax	S	ØDS	Number of cutting edges	Connectcode www.simtek.com/ccode
mm	mm	mm	mm				mm	mm	mm	mm		
1,21	1,1	-	22,0	**V22.1105.30 F**	ADTP	X800 GT42	0,49	0,5	5,0	21,7	3	
1,41	1,3	-	22,0	**V22.1307.30 F**	AJDV	X800 GT42	0,67	0,7	5,2	21,7	3	
1,41	1,3	-	22,0	**V22.1308.30 F**	ADZF	X800 GT42	0,83	0,85	5,2	21,7	3	
1,71	1,6	-	22,0	**V22.1609.35 F**	AKYN	X800 GT42	0,83	0,85	5,0	21,7	3	
1,71	1,6	-	22,0	**V22.1610.35 F**	AKAE	X800 GT42	0,97	1,0	5,0	21,7	3	
1,96	1,85	0,15	22,0	**V22.1812.35 F**	AA3W	X800 GT42	1,23	1,25	5,2	21,7	3	VD11.3 | VD11.5 | VD12.0
2,26	2,15	0,15	22,0	**V22.2215.35 F**	APWV	X800 GT42	1,47	1,5	5,3	21,7	3	VD12.7 | VD13.5 | VD14.0
2,76	2,65	0,15	22,0	**V22.2616.45 F**	AAAZ	X800 GT42	1,47	1,5	5,0	21,7	3	VD14.3 | VD15.0 | VD16.0
2,76	2,65	0,15	22,0	**V22.2617.45 F**	AEW7	X800 GT42	1,72	1,75	5,0	21,7	3	
3,26	3,15	0,2	22,0	**V22.3118.45 F**	AFJ7	X800 GT42	1,72	1,75	5,3	21,7	3	
4,26	4,15	0,2	22,0	**V22.4120.55 F**	AD5S	X800 GT42	1,97	2,0	5,3	21,7	3	
4,26	4,15	0,2	22,0	**V22.4125.55 F**	AE8V	X800 GT42	2,47	2,5	5,3	21,7	3	

Order example: **V22.1609.35 F X800** (X800 = Grade)

simmill VX
SIMTEK Milling Tools Type VX

General Groove Milling in light alloys

General groove milling in bores as of bore diameter 22,0 mm. Highpositive rake angle for use in light alloys.

Cutting parameters (start)		
fzm **0,04 mm**	hmax **0,05 mm**	Vc **Page 192**

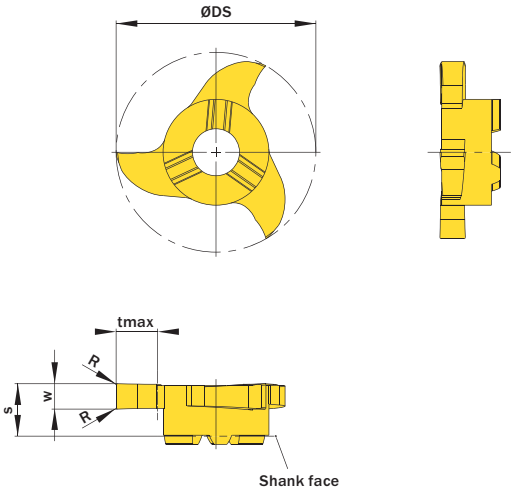
Suitable toolholders on page
113, 114, 115, 116, 117, 118, 119, 120

Similar tools on page
28

Please read add. notes
ALL (Page 199), H01 (Page 200)

SP HM LM Legend **203**

Scan QR-Code Or Visit **www.simtek.info/cp/374**



Drawing shows: V22.0250.42 C

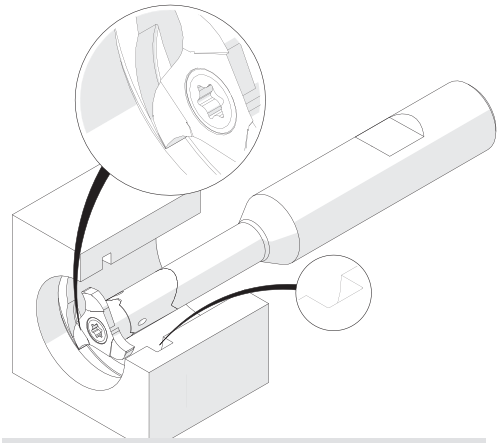


Image shows exemplary application possibility with similar tool.

w +0,02 mm	Nominal width of groove mm	R mm	ØDmin (min. bore) mm	Part number	Webcode www.simtek.com/webcode	Our first choice N	tmax mm	S mm	ØDS mm	Number of cutting edges	Connectcode www.simtek.com/ccode
1,5	-	0,2	22,0	**V22.0150.42 C**	ANDN	HF25	4,5	5,7	21,7	3	VD12.0
2,0	-	0,2	22,0	**V22.0200.42 C**	ANC3	HF25	4,5	5,7	21,7	3	VD12.0
2,5	-	0,2	22,0	**V22.0250.42 C**	AH0W	HF25	4,5	5,7	21,7	3	VD12.0
3,0	-	0,2	22,0	**V22.0300.42 C**	AHME	HF25	4,5	5,7	21,7	3	VD12.0
4,0	-	0,2	22,0	**V22.0400.42 C**	ABUK	HF25	4,5	5,7	21,7	3	VD12.0

Order example: **V22.0300.42 C X808** (X808 = Grade)

simtek individual | V22. w, 1/100 mm, 4 Digits . R, 1/100 mm , 3 Digits Tolerance C

Example Part number: **V22.0179.030 XG C**

simmill VX
SIMTEK Milling Tools Type VX

Full Radius Groove Milling

Full radius groove milling. For use in bores as of minimum bore diameter 22,0 mm (0.866“).

Cutting parameters (start)		
fzm **0,04 mm**	hmax **0,05 mm**	Vc **Page 192**

Suitable toolholders on page
113, 114, 115, 116, 117, 118, 119, 120

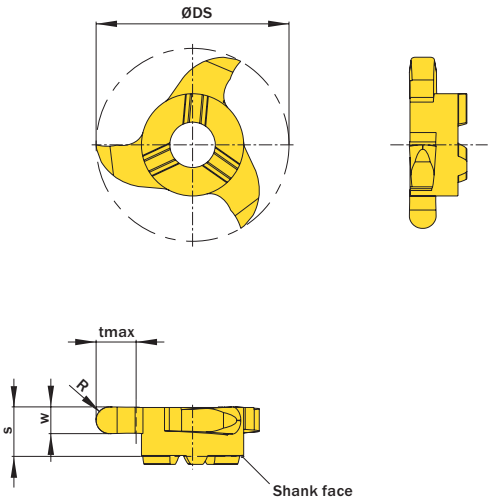
Similar tools on page
31

Please read add. notes
ALL (Page 199), H01 (Page 200)

SP HM Legend **203**

Scan QR-Code Or Visit **www.simtek.info/cp/403**

This page contains inch tools! These tools are indicated by **inch** on the right hand side.



Drawing shows: V22.0015.30 V

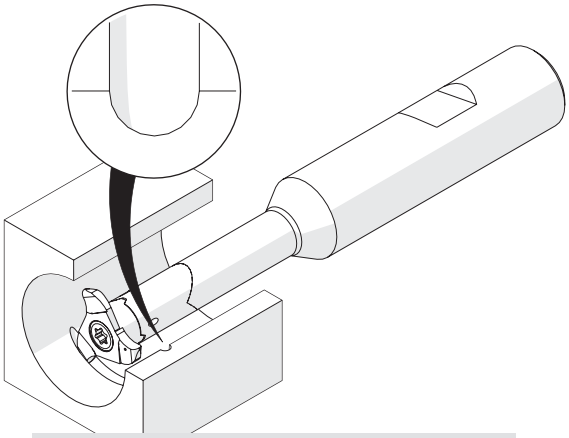


Image shows exemplary application possibility with similar tool.

R mm/inch	w +0.03mm / 0.001“ mm/inch	ØDmin (min. bore) mm/inch	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	tmax mm/inch	S mm/inch	ØDS mm/inch	Number of cutting edges	Connectcode www.simtek.com/ccode	
0,5	1,0	22,0	**V22.0005.10 V**	AD2W	X800 GT42	4,5	5,8	21,7	3	VD12.0	
0,8	1,6	22,0	**V22.0008.16 V**	AFEE	X800 GT42	4,5	5,8	21,7	3	VD12.0	
1,0	2,0	22,0	**V22.0010.20 V**	ABHY	X800 GT42	4,5	5,8	21,7	3	VD12.0	
1,2	2,4	22,0	**V22.0012.24 V**	ACH9	X800 GT42	4,5	5,8	21,7	3	VD12.0	
1,4	2,8	22,0	**V22.0014.28 V**	ADDY	X800 GT42	4,5	5,8	21,7	3	VD12.0	
1,5	3,0	22,0	**V22.0015.30 V**	AF96	X800 GT42	4,5	5,8	21,7	3	VD12.0	
2,0	4,0	22,0	**V22.0020.40 V**	ACC4	X800 GT42	4,5	5,8	21,7	3	VD12.0	
2,2	4,4	22,0	**V22.0022.44 V**	AC2Y	X800 GT42	4,5	5,8	21,7	3	VD12.0	
0.094“	0.187“	0.866“	**V22.0024.48 V**	A38X	X800 GT42	0.177“	0.228“	0.854“	3	VD12.0	inch
2,5	5,0	22,0	**V22.0025.50 V**	AH32	X800 GT42	4,5	5,8	21,7	3	VD12.0	
3,2	6,4	22,0	**V22.0032.64 V**	A1E0	X800 GT42	4,5	9,3	21,7	3	VD12.0	
0.063“	0.125“	0.866“	**V22.0062.12 V**	A3T5	X800 GT42	0.177“	0.228“	0.854“	3	VD12.0	inch

Order example: **V22.0014.28 V X800** (X800 = Grade)

simmill VX
SIMTEK Milling Tools Type VX

Thread milling, metric ISO-Thread, full profile

Thread milling of metric ISO-threads, full profile.

Cutting parameters (start)		
fzm **0,04 mm**	hmax **0,05 mm**	Vc **Page 192**

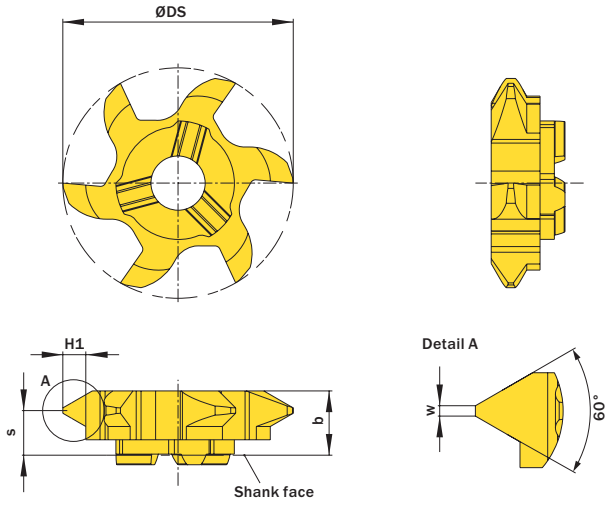
PSuitable toolholders on page
113, 114, 115, 116, 117, 118, 119, 120

Similar tools on page
33

Please read add. notes
ALL (Page 199), H03 (Page 201), H05 (Page 202)

SP HM Legend **203**

Scan QR-Code Or Visit **www.simtek.info/cp/417**



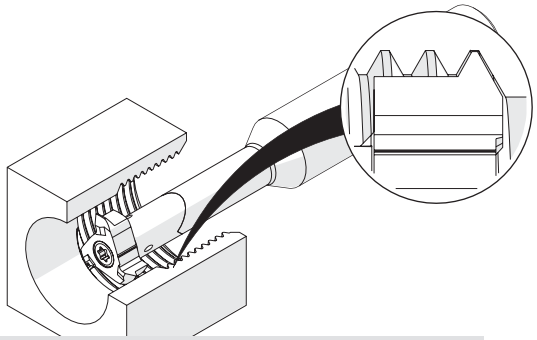


Image shows exemplary application possibility with similar tool.

Drawing shows: V06.2140.02.22 M

As of thread size	H1 mm	Pitch (as of) mm	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	b mm	S mm	w mm	ØDS mm	Number of cutting edges	Connectcode www.simtek.com/ccode
M24	0,81	1,5	**V06.0815.02.22 M**	AQ1C	X800 GT42	6,2	5,3	0,19	21,7	6	
M27	0,95	1,75	**V06.0917.02.22 M**	AQ1D	X800 GT42	6,2	5,2	0,22	21,7	6	VD11.3 | VD11.5 | VD12.0
M27	1,08	2,0	**V06.1020.02.22 M**	AQ1E	X800 GT42	6,2	5,0	0,25	21,7	6	VD12.7 | VD13.5 | VD14.0
M30	1,62	3,0	**V06.1630.02.22 M**	AQ1F	X800 GT42	6,2	4,8	0,37	21,7	6	VD14.3 | VD15.0 | VD16.0
M33	2,16	4,0	**V06.2140.02.22 M**	AQ1G	X800 GT42	6,2	4,4	0,5	21,7	6	

Order example: **V06.2140.02.22 M X800** (X800 = Grade)

simmill VX
SIMTEK Milling Tools Type VX

Thread milling, metric ISO-Thread, full profile

Thread milling of metric ISO-threads, full profile.

Cutting parameters (start)		
fzm **0,04 mm**	hmax **0,05 mm**	Vc **Page 192**

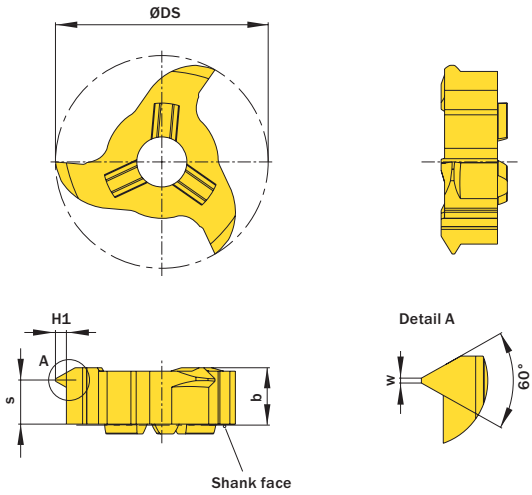
Suitable toolholders on page
113, 114, 115, 116, 117, 118, 119, 120

Similar tools on page
33

Please read add. notes
ALL (Page 199)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/416**



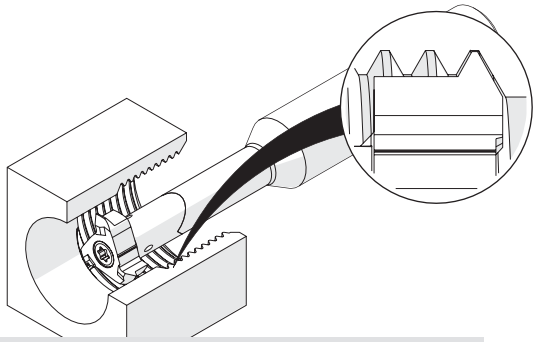


Image shows exemplary application possibility with similar tool.

Drawing shows: V22.1020.02 M

As of thread size	H1 mm	Pitch (as of) mm	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	b mm	S mm	w mm	ØDS mm	Number of cutting edges	Connectcode www.simtek.com/ccode
M24	0,81	1,5	**V22.0815.02 M**	AA28	X800 GT42	5,85	4,8	0,19	21,7	3	
M27	0,95	1,75	**V22.0917.02 M**	AD26	X800 GT42	5,85	4,7	0,22	21,7	3	
M27	1,08	2,0	**V22.1020.02 M**	APM9	X800 GT42	5,85	4,6	0,25	21,7	3	VD11.3 | VD11.5 | VD12.0
M30	1,62	3,0	**V22.1630.02 M**	ADAA	X800 GT42	5,85	4,3	0,37	21,7	3	VD12.7 | VD13.5 | VD14.0
M30	1,89	3,5	**V22.1835.02 M**	AHUY	X800 GT42	5,85	4,0	0,43	21,7	3	VD14.3 | VD15.0 | VD16.0
M33	2,16	4,0	**V22.2140.02 M**	AD70	X800 GT42	5,85	3,9	0,5	21,7	3	
M33	2,43	4,5	**V22.2445.02 M**	AEFA	X800 GT42	5,85	3,7	0,56	21,7	3	

Order example: **V22.2445.02 M X800** (X800 = Grade)

simmill VX
SIMTEK Milling Tools Type VX

Thread milling, metric ISO-Thread, partial profile

Multi-purpose milling inserts. The given „Pitch (as of)“ is conforming to standards. The „Pitch (up to)“ is possible too at the expense of conformity. Please read additional notes.

Cutting parameters (start)		
fzm **0,04 mm**	hmax **0,05 mm**	Vc **Page 192**

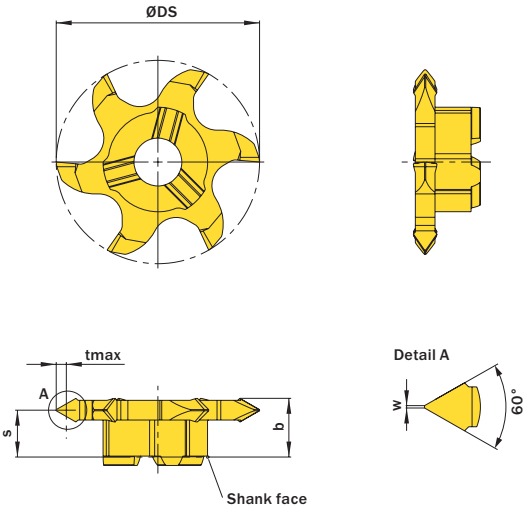
Suitable toolholders on page
113, 114, 115, 116, 117, 118, 119, 120

Similar tools on page
32

Please read add. notes
ALL (Page 199), H03 (Page 201), H04 (Page 202), H05 (Page 202)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/397**



Drawing shows: V06.0720.01.22 M

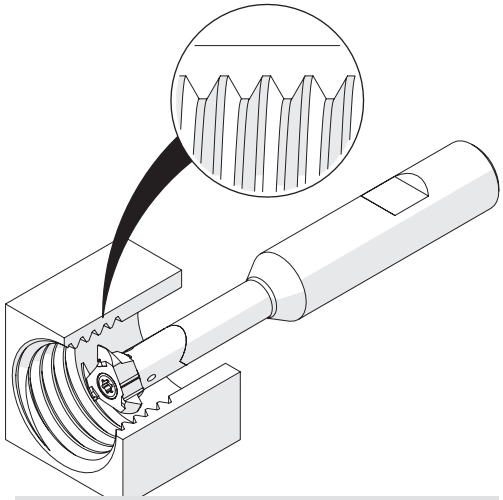


Image shows exemplary application possibility with similar tool.

As of thread size	Pitch (as of) mm	Pitch (up to) mm	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	b mm	S mm	w mm	tmax mm	ØDS mm	Number of cutting edges	Connectcode www.simtek.com/ccode
M27	1,0	2,0	**V06.0720.01.22 M**	AJ2A	X800 GT42	6,2	5,0	0,12	1,25	21,7	6	VD11.3 VD11.5 VD12.0 VD12.7 VD13.5 VD14.0 VD14.3 VD15.0 VD16.0
M27	2,0	4,5	**V06.2545.01.22 M**	AM1S	X800 GT42	6,05	4,2	0,25	2,7	21,7	6	

Order example: **V06.2545.01.22 M X800** (X800 = Grade)

Please read the additional notes mentioned in the information area on the top right corner of this page.
The mentioned thread size „As of thread size“ is based on the starting pitch.

Groove Milling
simmill VX > Cutting Tool

simmill VX
SIMTEK Milling Tools Type VX

Multi-purpose milling inserts. The given „Pitch (as of)“ is conforming to standards. The „Pitch (up to)“ is possible too at the expense of conformity. Please read additional notes.

Cutting parameters (start)		
fzm **0,04 mm**	hmax **0,05 mm**	Vc **Page 192**

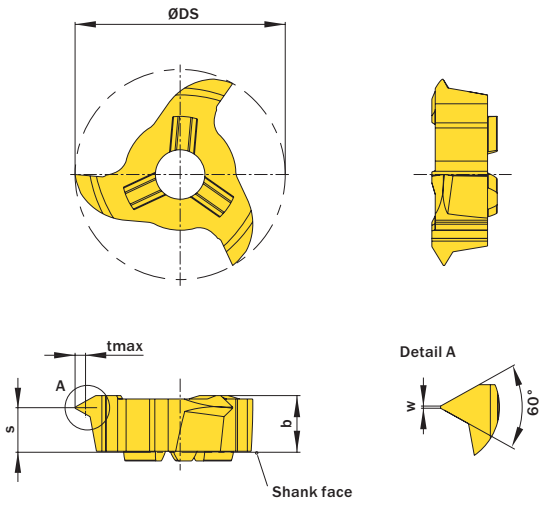
Suitable toolholders on page
113, 114, 115, 116, 117, 118, 119, 120

Similar tools on page
32

Please read add. notes
ALL (Page 199), H03 (Page 201), H04 (Page 202)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/396**



Drawing shows: V22.0720.01 M

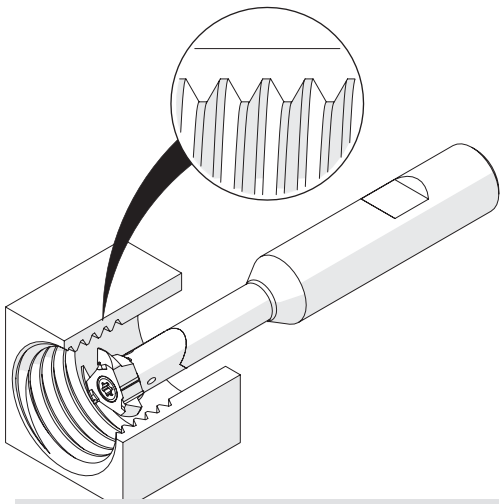


Image shows exemplary application possibility with similar tool.

As of thread size	Pitch (as of) mm	Pitch (up to) mm	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	b mm	S mm	w mm	tmax mm	ØDS mm	Number of cutting edges	Connectcode www.simtek.com/ccode
M27	1,0	2,0	**V22.0720.01 M**	ABS8	X800 GT42	5,85	4,6	0,12	1,19	21,7	3	VD11.3 | VD11.5 | VD12.0
M27	1,5	2,75	**V22.0815.01 M**	AA9K	X800 GT42	5,85	4,5	0,18	1,62	21,7	3	VD12.7 | VD13.5 | VD14.0
M27	2,0	3,75	**V22.1020.01 M**	ADZU	X800 GT42	5,85	4,2	0,25	2,22	21,7	3	VD14.3 | VD15.0 | VD16.0
M30	2,5	5,0	**V22.1630.01 M**	AF00	X800 GT42	5,85	3,8	0,31	2,98	21,7	3	VD12.0
M30	3,5	6,0	**V22.2140.01 M**	AF72	X800 GT42	5,85	3,4	0,44	3,52	21,7	3	VD12.0
M30	3,5	6,5	**V22.2445.01 M**	ABAF	X800 GT42	5,85	3,2	0,44	3,84	21,7	3	VD12.0
M27	2,5	4,5	**V22.2545.01 M**	AEAA	X800 GT42	5,85	3,7	0,31	2,7	21,7	3	VD12.0

Order example: **V22.2545.01 M X800** (X800 = Grade)

Please read the additional notes mentioned in the information area on the top right corner of this page.
The mentioned thread size „As of thread size“ is based on the starting pitch.

More information about the **multi-purpose thread milling tools** and the **thread size suitability** can be found on page 204

Thread milling, metric ISO-Thread, external, full profile

Thread milling of metric ISO-threads, full profile.

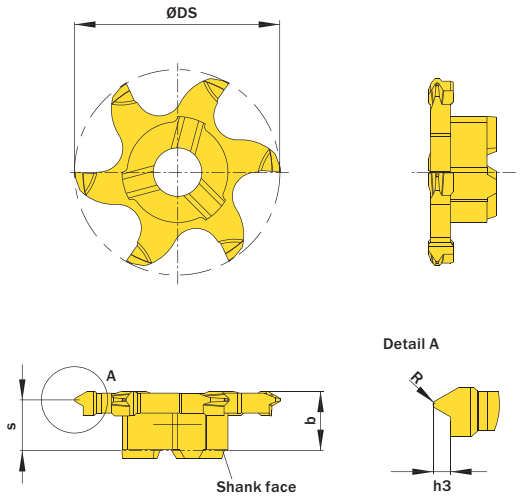
Cutting parameters (start)		
fzm **0,04 mm**	hmax **0,05 mm**	Vc **Page 192**

Suitable toolholders on page
113, 114, 115, 116, 117, 118, 119, 120

Please read add. notes
ALL (Page 199)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/1175**



Drawing shows: V06.0815.02.22 EM

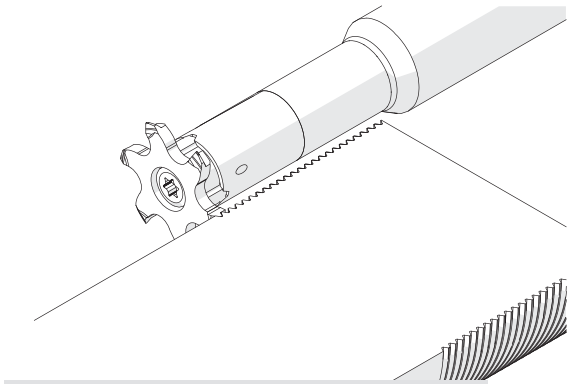


Image shows exemplary application possibility with similar tool.

h3 mm	Pitch (as of) mm	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	b mm	R mm	S mm	ØDS mm	Number of cutting edges	Connectcode www.simtek.com/ccode
0,92	1,5	**V06.0815.02.22 EM**	AZB9	X800 GT42	6,25	0,22	5,4	21,7	6	
1,07	1,75	**V06.0917.02.22 EM**	AZCA	X800 GT42	6,25	0,25	5,2	21,7	6	VD11.3 | VD11.5 | VD12.0
1,23	2,0	**V06.1020.02.22 EM**	AZCB	X800 GT42	6,25	0,29	5,0	21,7	6	VD12.7 | VD13.5 | VD14.0
1,84	3,0	**V06.1630.02.22 EM**	AZCC	X800 GT42	6,05	0,43	4,5	21,7	6	VD14.3 | VD15.0 | VD16.0
2,45	4,0	**V06.2140.02.22 EM**	AZCD	X800 GT42	6,05	0,58	4,0	21,7	6	

Order example: **V06.0815.02.22 EM X800** (X800 = Grade)

More information about the **multi-purpose thread milling tools** and the **thread size suitability** can be found on page 204

simmill VX
SIMTEK Milling Tools Type VX

Whitworth Pipe Thread Milling, full profile

Whitworth pipe thread milling, full profile with six cutting edges and tooldiameter of 21,7 mm (0.854“).

Cutting parameters (start)		
fzm **0,04 mm**	hmax **0,05 mm**	Vc **Page 192**

Suitable toolholders on page
113, 114, 115, 116, 117, 118, 119, 120

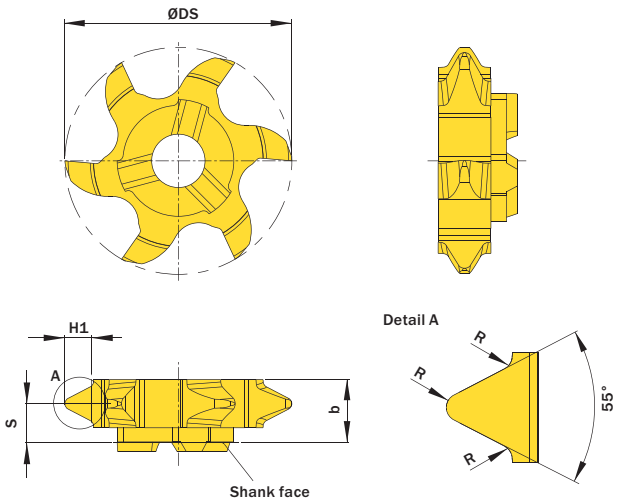
Similar tools on page
34

Please read add. notes
ALL (Page 199), H03 (Page 201)

SP HM Legend **203**

Scan QR-Code Or Visit **www.simtek.info/cp/1061**

This page contains inch tools! These tools are indicated by **inch** on the right hand side.



Drawing shows: V06.5506.02.22 M

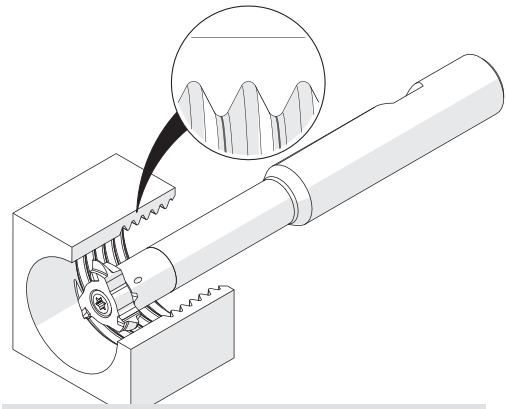


Image shows exemplary application possibility with similar tool.

H1 inch	Pitch (as of) inch	Threads/Inch	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	R inch	b inch	S inch	ØDS inch	As of thread size	Alternativ as of nominal diameter inch	Number of cutting edges	Connectcode www.simtek.com/ccode	
0.107“	0.167“	6	**V06.5506.02.22 M**	AVKN	X800 GT42	0.023“	0.238“	0.150“	0.854“	BSW 11/2	1.508“	6	VD11.3 | VD11.5 | VD12.0	inch
0.080“	0.125“	8	**V06.5508.02.22 M**	AVKP	X800 GT42	0.017“	0.248“	0.165“	0.854“	-	1.287“	6	VD12.7 | VD13.5 | VD14.0	inch
0.058“	0.091“	11	**V06.5511.02.22 M**	AVKQ	X800 GT42	0.012“	0.250“	0.189“	0.854“	G1“	1.181“	6	VD14.3 | VD15.0 | VD16.0	inch

Order example: **V06.5511.02.22 M X800** (X800 = Grade)

simmill VX
SIMTEK Milling Tools Type VX

Whitworth Pipe Thread Milling, full profile

Witworth pipe thread milling, full profile with three cutting edges and tooldiameter of 21,7 mm (0.854“).

Cutting parameters (start)		
fzm **0,04 mm**	hmax **0,05 mm**	Vc **Page 192**

Suitable toolholders on page
113, 114, 115, 116, 117, 118, 119, 120

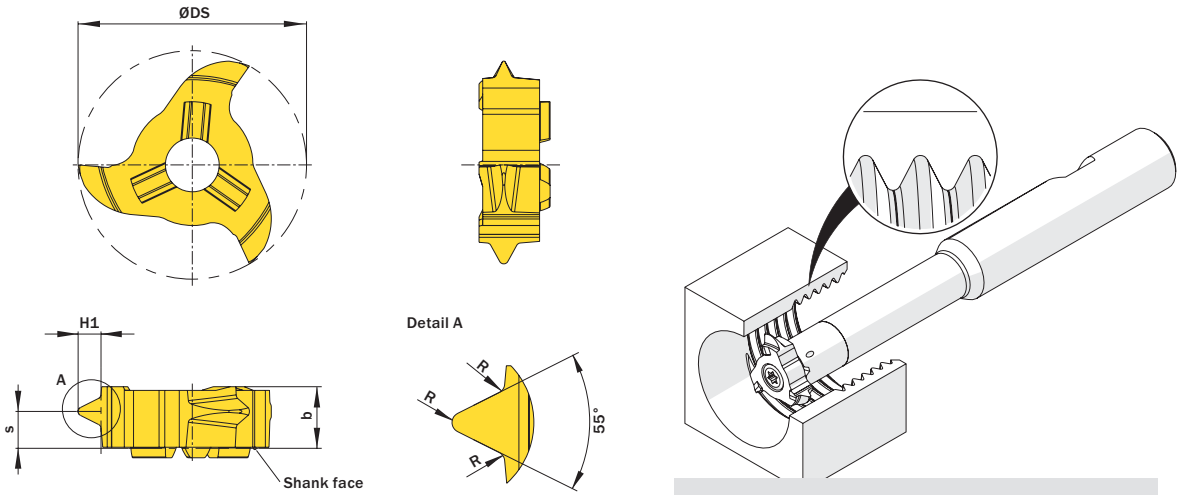
Similar tools on page
34

Please read add. notes
ALL (Page 199), H03 (Page 201)

SP HM Legend **203**

Scan QR-Code Or Visit **www.simtek.info/cp/414**

This page contains inch tools! These tools are indicated by **inch** on the right hand side.



Drawing shows: V22.5508.02 M

Image shows exemplary application possibility with similar tool.

H1 inch	Pitch (as of) inch	Threads/Inch	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S		R inch	b inch	S inch	ØDS inch	As of thread size	Alternativ as of nominal diameter inch	Number of cutting edges	Connectcode www.simtek.com/ccode	
0.107“	0.167“	6	**V22.5506.02 M**	AMJF	X800	GT42	0.023“	0.230“	0.122“	0.854“	BSW 1 1/2“	1.508“	3	VD11.3 | VD11.5 | VD12.0	inch
0.080“	0.125“	8	**V22.5508.02 M**	ANNK	X800	GT42	0.017“	0.230“	0.138“	0.854“	-	1.287“	3	VD12.7 | VD13.5 | VD14.0	inch
0.058“	0.091“	11	**V22.5511.02 M**	ADVP	X800	GT42	0.012“	0.230“	0.157“	0.854“	G 1“	1.181“	3	VD14.3 | VD15.0 | VD16.0	inch

Order example: **V22.5511.02 M X800** (X800 = Grade)

simmill VX
SIMTEK Milling Tools Type VX

Chamfering

Chamfering on both sides. For use in bores as of minimum bore diameter 22,0 mm.

Cutting parameters (start)		
fzm **0,04 mm**	hmax **0,05 mm**	Vc **Page 192**

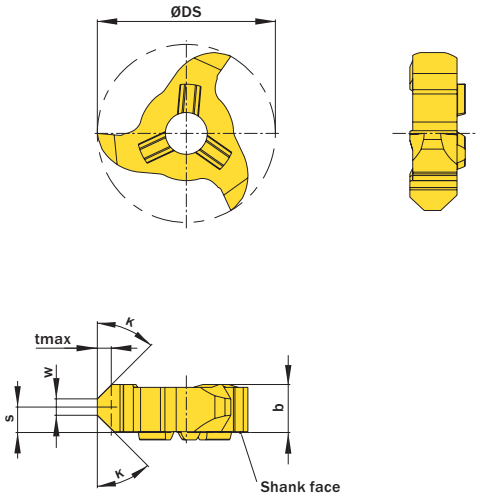
Suitable toolholders on page
113, 114, 115, 116, 117, 118, 119, 120

Similar tools on page
35

Please read add. notes
ALL (Page 199), H02 (Page 200)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/408**



Drawing shows: V22.4545.58 F

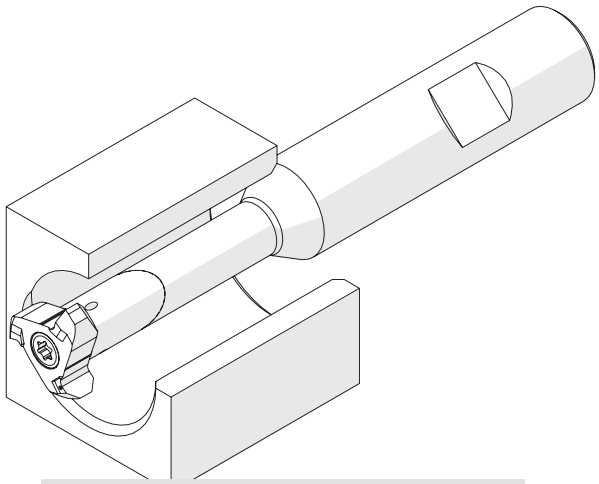


Image shows exemplary application possibility with similar tool.

κ	w	ØDmin (min. bore)	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	tmax	b	S	ØDS	Number of cutting edges	Connectcode www.simtek.com/ccode
	mm	mm				mm	mm	mm	mm		
45°	2,0	22,0	**V22.4545.58 F**	ADU1	X800 GT42	1,7	5,85	3,0	21,7	3	VD11.3 VD11.5 VD12.0 VD12.7 VD13.5 VD14.0 VD14.3 VD15.0 VD16.0
45°	3,0	22,0	**V22.4545.94 F**	AH71	X800 GT42	3,0	9,4	4,8	21,7	3	

Order example: **V22.4545.58 F X800** (X800 = Grade)

For using the cutting tool „V22.4545.94 F“, the longer screw „V M5x16 T20T“ is needed.

simmill VX
SIMTEK Milling Tools Type VX

Chamfering

Chamfering on both sides. For use in bores as of minimum bore diameter 22,0 mm.

Cutting parameters (start)		
fzm **0,04 mm**	hmax **0,05 mm**	Vc **Page 192**

Suitable toolholders on page
113, 114, 115, 116, 117, 118, 119, 120

Similar tools on page
35

Please read add. notes
ALL (Page 199), H05 (Page 202)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/410**

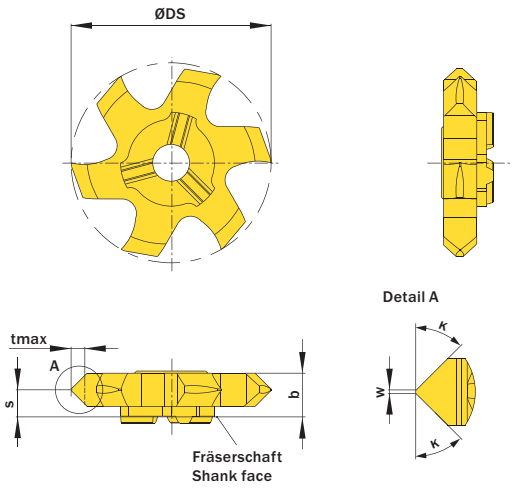


Abbildung zeigt / Drawing shows: V06.4545.020.28 F

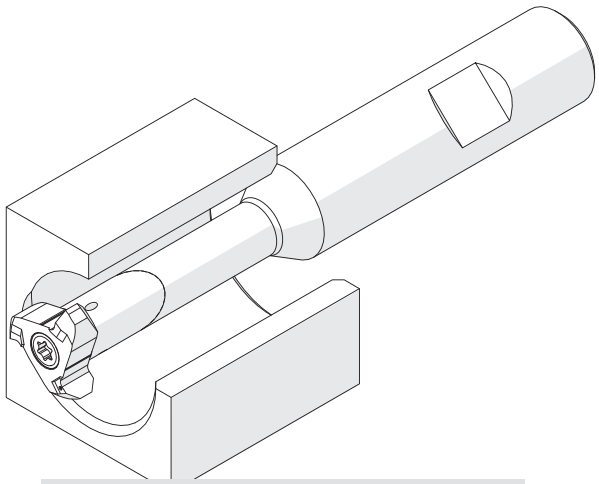


Illustration zeigt beispielhafte Anwendungsmöglichkeit mit ähnlichem Werkzeug.
Image shows exemplary application possibility with similar tool.

κ	w	ØDmin (min. bore)	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	tmax	b	S	ØDS	Number of cutting edges	Connectcode www.simtek.com/ccode
	mm	mm				mm	mm	mm	mm		
45°	0,2	22,0	**V06.4545.020.22 F**	AE4P	X800 GT42	2,0	6,05	3,8	21,7	6	VD11.3 VD11.5 VD12.0 VD12.7 VD13.5 VD14.0 VD14.3 VD15.0 VD16.0
45°	0,2	28,0	**V06.4545.020.28 F**	AT86	X800 GT42	2,0	6,5	3,8	27,7	6	

Order example: **V06.4545.020.22 F X800** (X800 = Grade)

simmill VX
SIMTEK Milling Tools Type VX

Corner Rounding (Deburing)

Quadrant milling insert for corner rounding. For use in bores as of minimum bore diameter 22,0 mm when rounding bore corners.

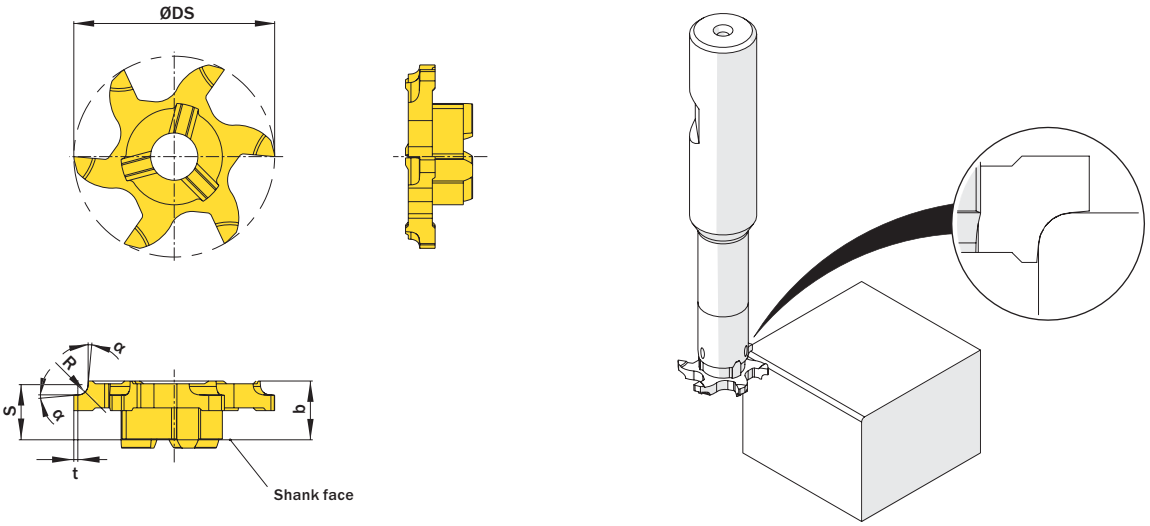
Cutting parameters (start)		
fzm **0,04 mm**	hmax **0,05 mm**	Vc **Page 192**

Suitable toolholders on page
113, 114, 115, 116, 117, 118, 119, 120

Please read add. notes
ALL (Page 199)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/411**



Drawing shows: V06.R100.22 F

R mm	ØDmin (min. bore) mm	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	b mm	S mm	t mm	α	ØDS mm	Number of cutting edges	Connectcode www.simtek.com/ccode
0,2	22,0	**V06.R020.22 F**	AA2K	X800 GT42	6,35	5,8	0,5	5°	21,7	6	VD12.0
0,5	22,0	**V06.R050.22 F**	AHJG	X800 GT42	6,35	5,8	0,5	5°	21,7	6	VD12.0
0,6	22,0	**V06.R060.22 F**	AKDK	X800 GT42	6,35	5,8	0,5	5°	21,7	6	VD12.0
0,8	22,0	**V06.R080.22 F**	AMYF	X800 GT42	6,35	5,8	0,5	5°	21,7	6	VD12.0
1,0	22,0	**V06.R100.22 F**	AMU5	X800 GT42	6,35	5,8	0,5	5°	21,7	6	VD12.0
1,25	22,0	**V06.R125.22 F**	AKP3	X800 GT42	6,35	5,8	0,5	5°	21,7	6	VD12.0
1,5	22,0	**V06.R150.22 F**	AKVS	X800 GT42	6,05	5,6	0,5	5°	21,7	6	VD12.0
2,0	22,0	**V06.R200.22 F**	AHG3	X800 GT42	6,05	5,6	0,5	5°	21,7	6	VD12.0
2,25	22,0	**V06.R225.22 F**	ABG4	X800 GT42	6,05	5,6	0,5	5°	21,7	6	VD12.0
2,5	22,0	**V06.R250.22 F**	ABDT	X800 GT42	6,05	5,6	0,5	5°	21,7	6	VD12.0
3,0	22,0	**V06.R300.22 F**	AB8E	X800 GT42	6,05	5,6	0,5	5°	21,7	6	VD12.0

Order example: **V06.R300.22 F X800** (X800 = Grade)

simmill VX
SIMTEK Milling Tools Type VX

Face Milling

Tool diameter of 19,7 mm with 6 cutting edges.

Cutting parameters (start)		
fzm **0,04 mm**	hmax **0,05 mm**	Vc **Page 192**

Suitable toolholders on page
113, 114, 115, 116, 117, 118, 119, 120

Similar tools on page
37

Please read add. notes
ALL (Page 199)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/412**

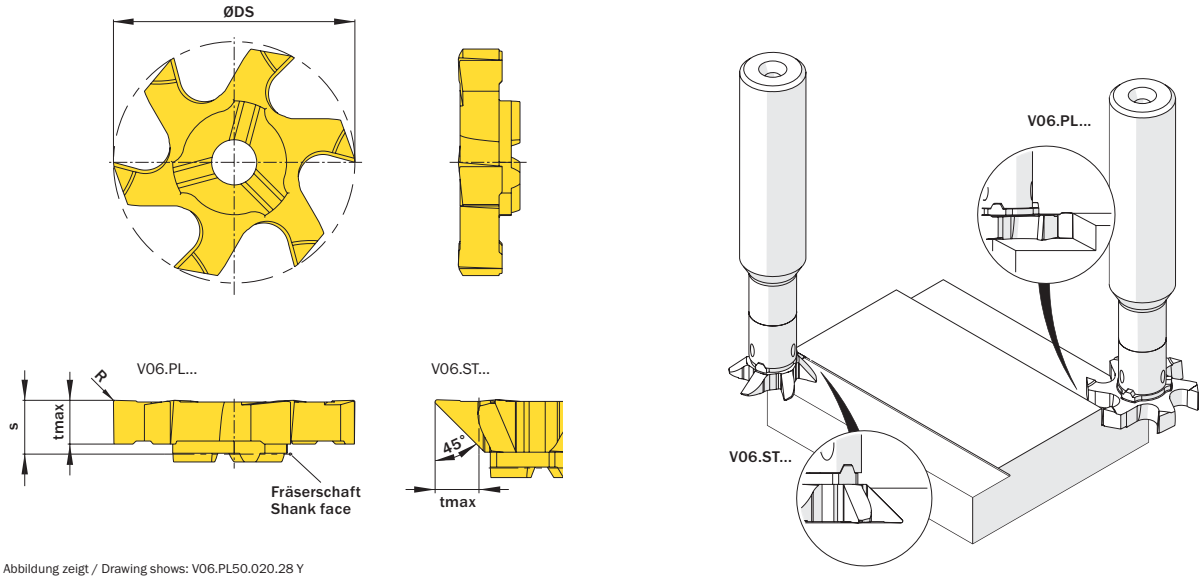


Abbildung zeigt / Drawing shows: V06.PL50.020.28 Y

tmax mm	R mm	ØDmin (min. bore) mm	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	S mm	ØDS mm	Number of cutting edges	Connectcode www.simtek.com/ccode
5,0	0,2	20,0	**V06.PL50.020.20 Y**	AVJ0	X800 GT42	6,2	19,7	6	VD11.3 VD11.5 VD12.0
5,0	0,2	28,0	**V06.PL50.020.28 Y**	AGFH	X800 GT42	6,2	27,7	6	VD12.7 VD13.5 VD14.0
4,0	0,2	22,0	**V06.ST40.020.22 Y**	A03F	X800 GT42	6,2	21,7	6	VD14.3 VD15.0 VD16.0

Order example: **V06.PL50.020.20 Y X800** (X800 = Grade)

simmill VX
SIMTEK Milling Tools Type VX

General Groove Milling

General groove milling. For use in bores as of minimum bore diameter 25,0 mm (0.984“).

Cutting parameters (start)		
fzm **0,04 mm**	hmax **0,05 mm**	Vc **Page 192**

PSuitable toolholders on page
113, 114, 115, 116, 117, 118, 119

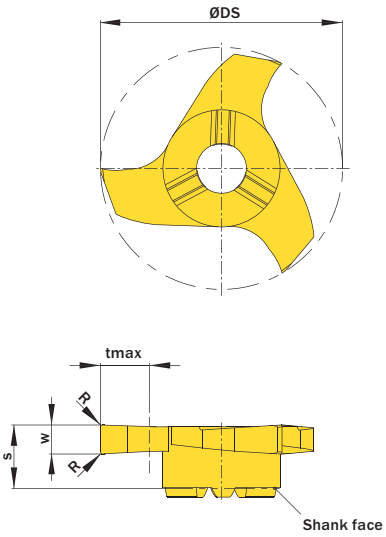
Similar tools on page
27

Please read add. notes
ALL (Page 199), H01 (Page 200)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/375**

This page contains inch tools! These tools are indicated by **inch** on the right hand side.



Drawing shows: V25.0300.02 G

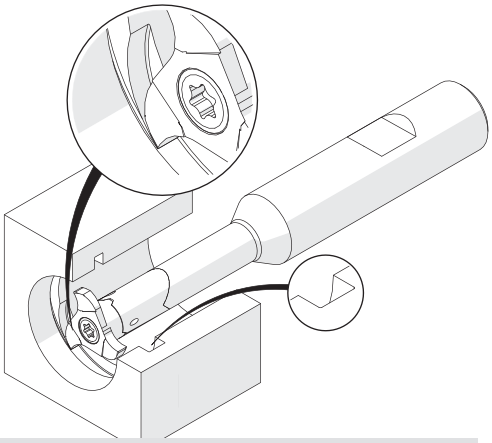


Image shows exemplary application possibility with similar tool.

w +0,02mm / 0.001“ mm/inch	Nominal width of groove mm/inch	R mm/inch	ØDmin (min. bore) mm/inch	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	tmax mm/inch	S mm/inch	ØDS mm/inch	Number of cutting edges	Connectcode www.simtek.com/ccode	
2,0	-	0,2	25,0	**V25.0200.02 G**	AHS7	X800 GT42	5,0	6,6	24,8	3	VD14.0|VD14.3	
0.094“	-	0.008“	0.984“	**V25.0239.02 G**	APTW	X800 GT42	0.197“	0.260“	0.976“	3	VD14.0|VD14.3	inch
2,5	-	0,2	25,0	**V25.0250.02 G**	ACG1	X800 GT42	5,0	6,6	24,8	3	VD14.0|VD14.3	
3,0	-	0,2	25,0	**V25.0300.02 G**	AFPB	X800 GT42	5,0	6,6	24,8	3	VD14.0|VD14.3	
0.125“	-	0.008“	0.984“	**V25.0318.02 G**	AAZ4	X800 GT42	0.197“	0.260“	0.976“	3	VD14.0|VD14.3	inch
3,5	-	0,2	25,0	**V25.0350.02 G**	AKG8	X800 GT42	5,0	6,6	24,8	3	VD14.0|VD14.3	
4,0	-	0,2	25,0	**V25.0400.02 G**	AA9X	X800 GT42	5,0	6,6	24,8	3	VD14.0|VD14.3	
4,75	-	0,2	25,0	**V25.0475.02 G**	AMMV	X800 GT42	5,0	6,6	24,8	3	VD14.0|VD14.3	
5,0	-	0,2	25,0	**V25.0500.02 G**	AZCF	X800 GT42	5,0	6,6	24,8	3	VD14.0|VD14.3	

Order example: **V25.0300.02 G X800** (X800 = Grade)

simtek individual | V25. w, 1/100 mm, 4 Digits . R, 1/100 mm , 3 Digits Tolerance

Example Part number: **V25.0179.030 XG**

simmill VX
SIMTEK Milling Tools Type VX

General Groove Milling

General groove milling. For use in bores as of minimum bore diameter 28,0 mm.

Cutting parameters (start)		
fzm **0,04 mm**	hmax **0,05 mm**	Vc **Page 192**

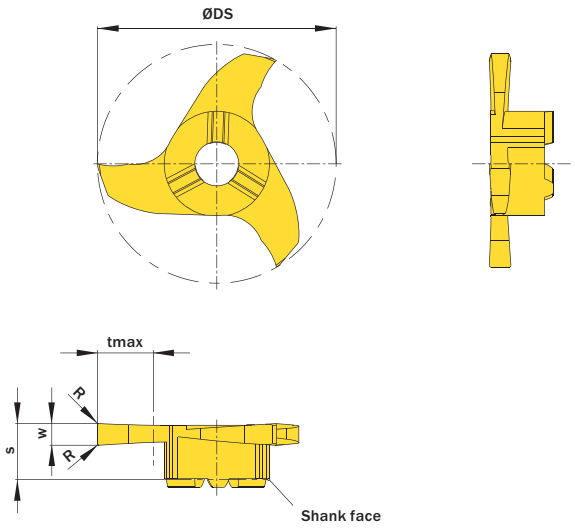
Suitable toolholders on page
113, 114, 115, 116, 117, 118, 119

Similar tools on page
27

Please read add. notes
ALL (Page 199), H01 (Page 200), H02 (Page 200)

SP HM Legend **203**

Scan QR-Code Or Visit **www.simtek.info/cp/376**



Drawing shows: V28.0250.02 G

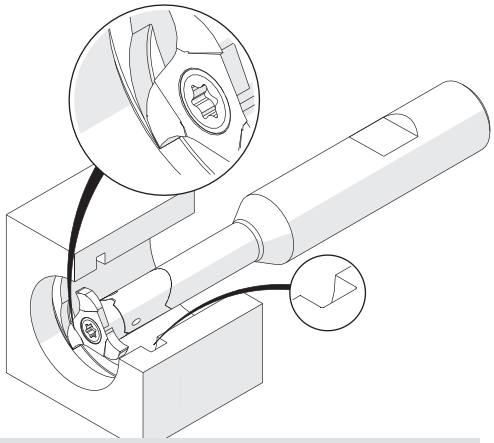


Image shows exemplary application possibility with similar tool.

w +0,02 mm	Nominal width of groove mm	R mm	ØDmin (min. bore) mm	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	tmax mm	S mm	ØDS mm	Number of cutting edges	Connectcode www.simtek.com/ccode
1,5	-	0,2	28,0	**V28.0150.02 G**	AN4A	X800 GT42	6,5	6,6	27,7	3	VD14.0|VD14.3
2,0	-	0,2	28,0	**V28.0200.02 G**	AG3V	X800 GT42	6,5	6,6	27,7	3	VD14.0|VD14.3
2,5	-	0,2	28,0	**V28.0250.02 G**	AECZ	X800 GT42	6,5	6,6	27,7	3	VD14.0|VD14.3
3,0	-	0,2	28,0	**V28.0300.02 G**	ADQJ	X800 GT42	6,5	6,6	27,7	3	VD14.0|VD14.3
3,5	-	0,2	28,0	**V28.0350.02 G**	AP0W	X800 GT42	6,5	6,6	27,7	3	VD14.0|VD14.3
4,0	-	0,2	28,0	**V28.0400.02 G**	AGNX	X800 GT42	6,5	6,6	27,7	3	VD14.0|VD14.3
5,0	-	0,2	28,0	**V28.0500.02 G**	APST	X800 GT42	6,5	6,6	27,7	3	VD14.0|VD14.3
6,0	-	0,2	28,0	**V28.0600.02 G**	APNV	X800 GT42	6,5	6,6	27,7	3	VD14.0|VD14.3
6,35	-	0,2	28,0	**V28.0635.02 G**	A20E	X800 GT42	6,5	6,6	27,7	3	VD14.0|VD14.3
10,0	-	0,2	28,0	**V28.1000.02 G**	AXXP	X800 GT42	6,5	10,0	27,7	3	VD14.0|VD14.3

Order example: **V28.0400.02 G X800** (X800 = Grade)

For using the cutting tool „V28.1000.02 G“, the longer screw „V M5x16 T20T“ is needed. Limited suitability for the use in some materials due to the high cutting width.

simtek individual | V28. w, 1/100 mm, 4Digits . R, 1/100 mm , 3 Digits Tolerance

Example Part number: **V28.0179.030 XG**

simmill VX
SIMTEK Milling Tools Type VX

General Groove Milling

General groove milling. For use in bores as of minimum bore diameter 28,3 mm.

Cutting parameters (start)		
fzm **0,01 mm**	hmax **0,02 mm**	Vc **Page 192**

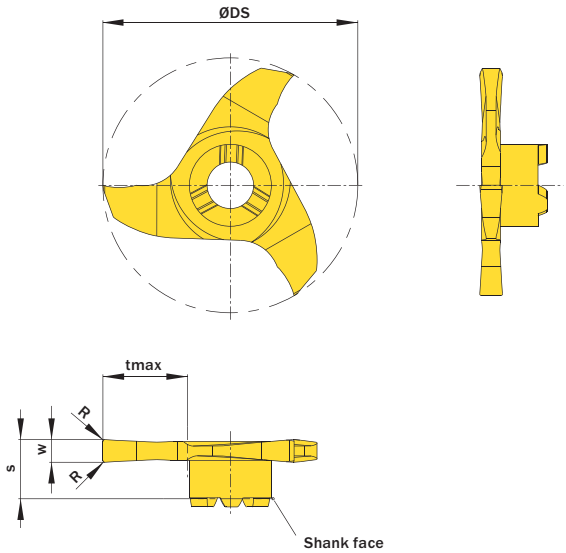
Suitable toolholders on page
113, 116, 117, 118

Similar tools on page
27

Please read add. notes
ALL (Page 199), H01 (Page 200)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/377**



Drawing shows: V28.0250.02.09 G

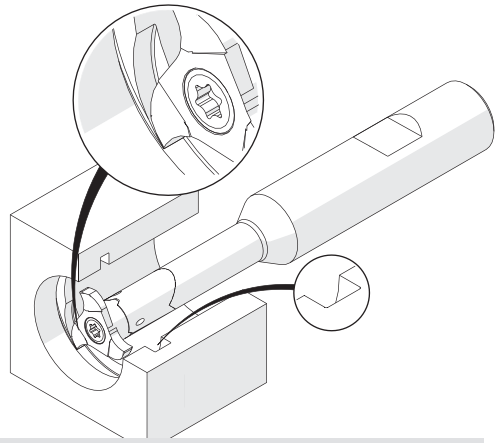


Image shows exemplary application possibility with similar tool.

w -0,02	Nominal width of groove	R	ØDmin (min. bore)	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	tmax	S	ØDS	Number of cutting edges	Connectcode www.simtek.com/ccode
mm	mm	mm	mm				mm	mm	mm		
1,5	-	0,2	28,3	**V28.0150.02.09 G**	AC15	X800 GT42	9,3	6,5	28,0	3	VD09.0
2,0	-	0,2	28,3	**V28.0200.02.09 G**	AM94	X800 GT42	9,3	6,5	28,0	3	VD09.0
2,5	-	0,2	28,3	**V28.0250.02.09 G**	AD74	X800 GT42	9,3	6,5	28,0	3	VD09.0

Order example: **V28.0200.02.09 G X800** (X800 = Grade)

simmill VX
SIMTEK Milling Tools Type VX

General Groove Milling

General groove milling. For use in bores as of minimum bore diameter 28,3 mm.

Cutting parameters (start)		
fzm **0,04 mm**	hmax **0,05 mm**	Vc **Page 192**

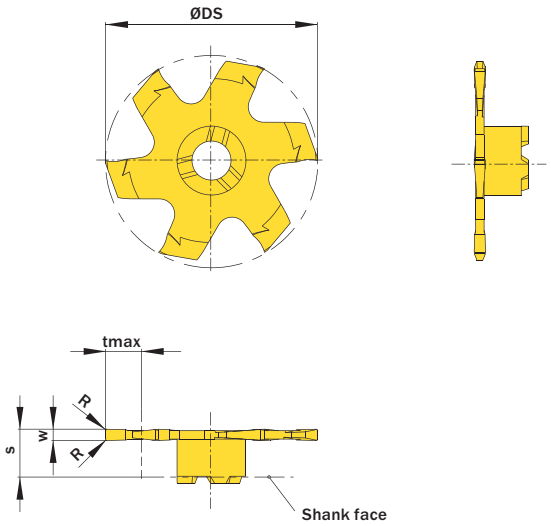
Suitable toolholders on page
113, 116, 117, 118

Similar tools on page
27

Please read add. notes
ALL (Page 199), H01 (Page 200), H05 (Page 202)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/1003**



Drawing shows: V06.0150.020.28.09 G

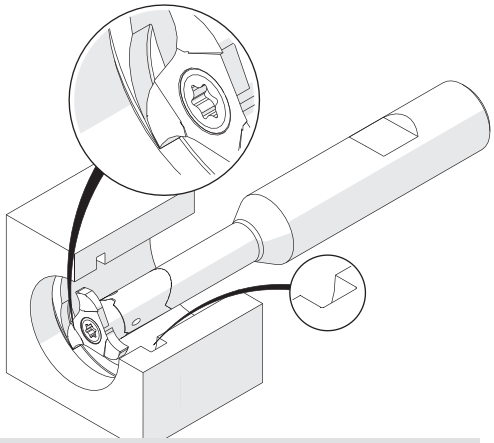


Image shows exemplary application possibility with similar tool.

w +0,02 mm	Nominal width of groove mm	R mm	ØDmin (min. bore) mm	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	tmax mm	S mm	ØDS mm	Number of cutting edges	Connectcode www.simtek.com/ccode
1,2	-	0,2	28,3	**V06.0120.020.28.09 G**	A3DT	X800 GT42	9,3	6,2	28,0	6	VD09.0
1,5	-	0,2	28,3	**V06.0150.020.28.09 G**	AV93	X800 GT42	9,3	6,2	28,0	6	VD09.0
2,4	-	0,2	28,3	**V06.0240.020.28.09 G**	AXXN	X800 GT42	9,3	6,2	28,0	6	VD09.0

Order example: **V06.0240.020.28.09 G X800** (X800 = Grade)

simmill VX
SIMTEK Milling Tools Type VX

General Groove Milling

General groove milling. For use in bores as of minimum bore diameter 28,0 mm.

Cutting parameters (start)		
fzm **0,04 mm**	hmax **0,05 mm**	Vc **Page 192**

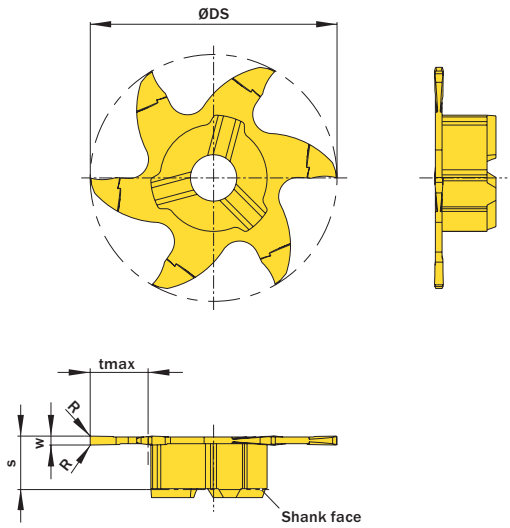
Suitable toolholders on page
113, 114, 115, 116, 117, 118, 119

Similar tools on page
27

Please read add. notes
ALL (Page 199), H01 (Page 200), H05 (Page 202)

SP HM Legend **203**

Scan QR-Code Or Visit **www.simtek.info/cp/381**



Drawing shows: V06.0100.010.28 G

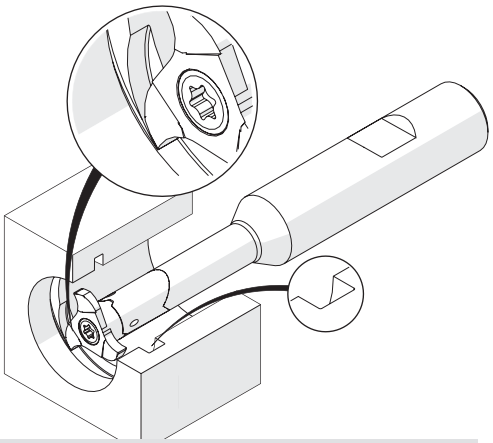


Image shows exemplary application possibility with similar tool.

w +0,02 mm	Nominal width of groove mm	R mm	ØDmin (min. bore) mm	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	tmax mm	S mm	ØDS mm	Number of cutting edges	Connectcode www.simtek.com/ccode
1,0	-	0,1	28,0	**V06.0100.010.28 G**	AASZ	X800 GT42	6,5	6,0	27,7	6	VD14.0|VD14.3
1,2	-	0,1	28,0	**V06.0120.010.28 G**	AKEZ	X800 GT42	6,5	6,0	27,7	6	VD14.0|VD14.3
1,5	-	0,1	28,0	**V06.0150.010.28 G**	AD7U	X800 GT42	6,5	6,4	27,7	6	VD14.0|VD14.3
2,0	-	0,2	28,0	**V06.0200.020.28 G**	AN7K	X800 GT42	6,5	6,4	27,7	6	VD14.0|VD14.3
2,5	-	0,2	28,0	**V06.0250.020.28 G**	AH3Y	X800 GT42	6,5	6,4	27,7	6	VD14.0|VD14.3
3,0	-	0,2	28,0	**V06.0300.020.28 G**	APW3	X800 GT42	6,5	6,4	27,7	6	VD14.0|VD14.3
4,0	-	0,2	28,0	**V06.0400.020.28 G**	AP00	X800 GT42	6,5	6,4	27,7	6	VD14.0|VD14.3
5,0	-	0,2	28,0	**V06.0500.020.28 G**	AP9Z	X800 GT42	6,5	6,4	27,7	6	VD14.0|VD14.3
6,0	-	0,2	28,0	**V06.0600.020.28 G**	AP90	X800 GT42	6,5	6,4	27,7	6	VD14.0|VD14.3

Order example: **V06.0400.020.28 G X800** (X800 = Grade)

simtek individual | V06. w, 1/100 mm, 4 Digits . R, 1/100 mm , 3 Digits .28 Tolerance

Example Part number: **V06.0179.030.28 XG**

simmill VX
SIMTEK Milling Tools Type VX

Circlip Ring Groove Milling, internal

Circlip Ring Groove Milling in bores as of bore diameter 28,0 mm. For use in all materials.

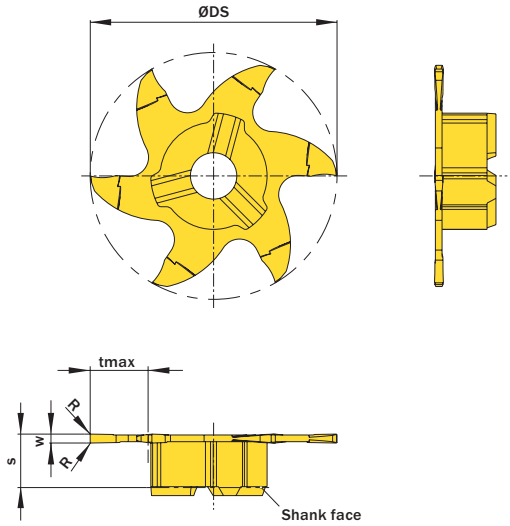
Cutting parameters (start)		
fzm **0,04 mm**	hmax **0,05 mm**	Vc **Page 192**

Suitable toolholders on page
113, 114, 115, 116, 117, 118, 119

Please read add. notes
ALL (Page 199), H01 (Page 200), H05 (Page 202)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/1254**



Drawing shows: V06.0100.010.28 G

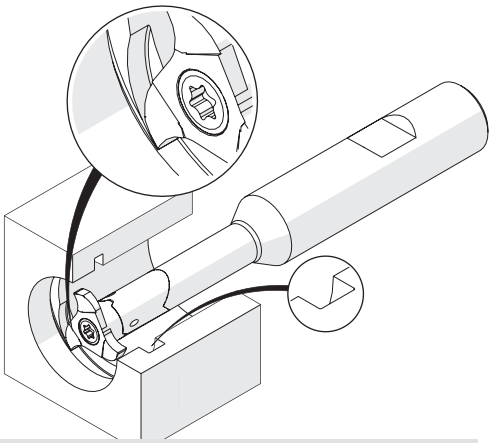


Image shows exemplary application possibility with similar tool.

w -0,02	Nominal width of groove	R	ØDmin (min. bore)	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	tmax	S	ØDS	Number of cutting edges	Connectcode www.simtek.com/ccode
mm	mm	mm	mm				mm	mm	mm		
▼ w = 1,96 mm											
1,96	1,85	0,15	28,0	**V06.0185.020.28 G**	AZEP	X800 GT42	6,5	6,4	27,7	6	VD14.0|VD14.3
▼ w = 2,26 mm											
2,26	2,15	0,15	28,0	**V06.0215.020.28 G**	APE9	X800 GT42	6,5	6,2	27,7	6	VD14.0|VD14.3

Order example: **V06.0215.020.28 G X800** (X800 = Grade)

simmill VX
SIMTEK Milling Tools Type VX

General Groove Milling in light alloys

General groove milling in bores as of bore diameter 28,0 mm. Highpositive rake angle for use in light alloys.

Cutting parameters (start)		
fzm **0,04 mm**	hmax **0,05 mm**	Vc **Page 192**

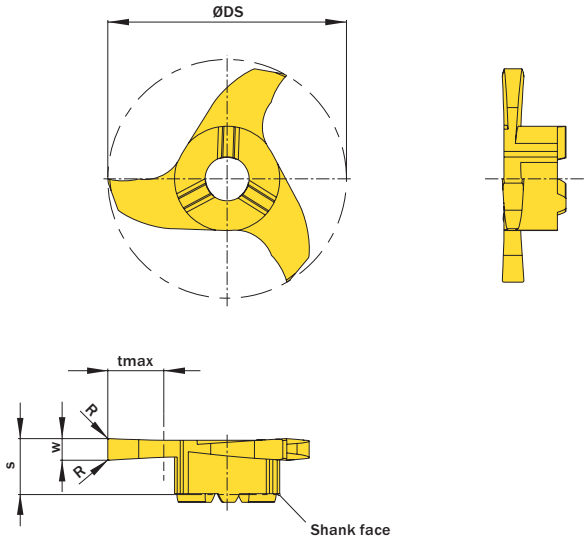
Suitable toolholders on page
113, 114, 115, 116, 117, 118, 119

Similar tools on page
28

Please read add. notes
ALL (Page 199), H01 (Page 200)

SP HM LM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/378**



Drawing shows: V28.0250.42 C

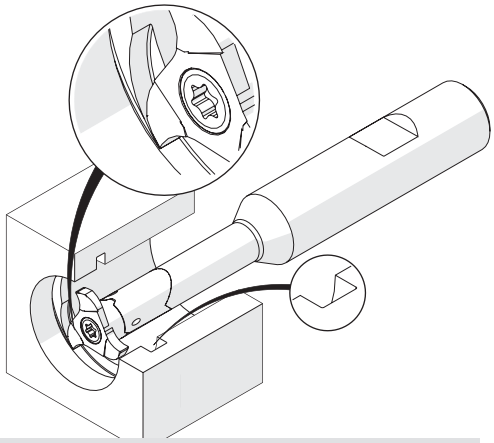


Image shows exemplary application possibility with similar tool.

w +0,02	Nominal width of groove	R	ØDmin (min. bore)	Part number	Webcode www.simtek.com/webcode	Our first choice	tmax	S	ØDS	Number of cutting edges	Connectcode www.simtek.com/ccode
mm	mm	mm	mm			N	mm	mm	mm		
2,0	-	0,2	28,0	**V28.0200.42 C**	AFTT	HF25	6,5	6,5	27,7	3	VD14.0|VD14.3
2,5	-	0,2	28,0	**V28.0250.42 C**	ANF5	HF25	6,5	6,5	27,7	3	VD14.0|VD14.3
3,0	-	0,2	28,0	**V28.0300.42 C**	ADPF	HF25	6,5	6,5	27,7	3	VD14.0|VD14.3
3,5	-	0,2	28,0	**V28.0350.42 C**	APHB	HF25	6,5	6,5	27,7	3	VD14.0|VD14.3
4,0	-	0,2	28,0	**V28.0400.42 C**	AGPH	HF25	6,5	6,5	27,7	3	VD14.0|VD14.3

Order example: **V28.0400.42 C HF25** (HF25 = Grade)

simtek individual | V28. w, 1/100 mm, 4 Digits . R, 1/100 mm , 3 Digits Tolerance C

Example Part number: **V28.0179.030 XG C**

simmill VX
SIMTEK Milling Tools Type VX

Thread milling, metric ISO-Thread, Partial profile

Multi-purpose milling inserts. The given „Pitch (as of)“ is conforming to standards. The „Pitch (up to)“ is possible too at the expense of conformity. Please read additional notes.

Cutting parameters (start)		
fzm **0,04 mm**	hmax **0,05 mm**	Vc **Page 192**

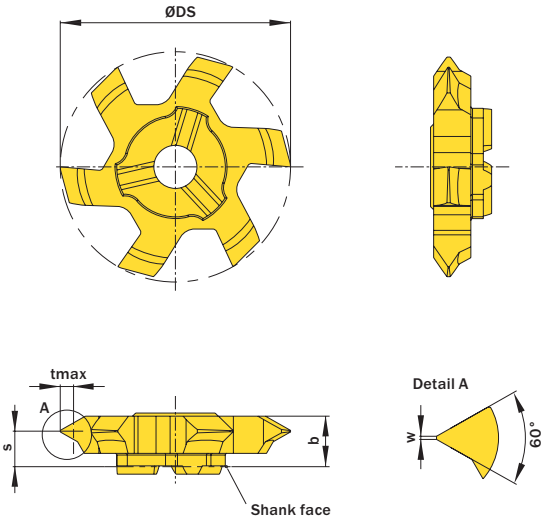
Suitable toolholders on page
113, 114, 115, 116, 117, 118, 119, 120

Similar tools on page
32

Please read add. notes
ALL (Page 199), H03 (Page 201), H04 (Page 202), H05 (Page 202)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/398**



Drawing shows: V06.1525.01.28 M

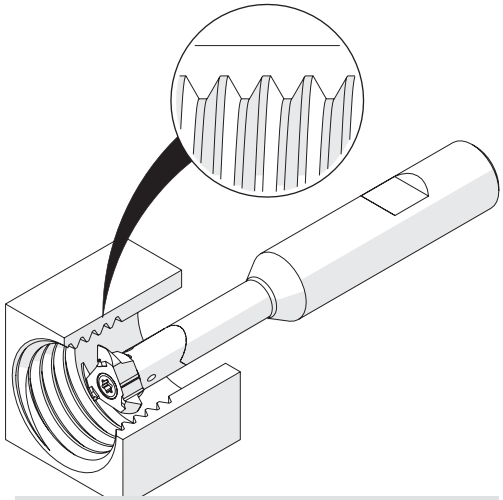


Image shows exemplary application possibility with similar tool.

As of thread size	Pitch (as of) mm	Pitch (up to) mm	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	b mm	S mm	w mm	tmax mm	ØDS mm	Number of cutting edges	Connectcode www.simtek.com/ccode
M33	1,5	2,5	**V06.1525.01.28 M**	AEDF	X800 GT42	6,5	5,0	0,19	1,6	27,7	6	VD11.3 VD11.5 VD12.0 VD12.7 VD13.5 VD14.0 VD14.3 VD15.0 VD16.0
M36	2,5	5,0	**V06.3050.01.28 M**	AN8W	X800 GT42	6,1	3,9	0,38	2,93	27,7	6	

Order example: **V06.3050.01.28 M X800** (X800 = Grade)

Please read the additional notes mentioned in the information area on the top right corner of this page.
The mentioned thread size „As of thread size“ is based on the starting pitch.

simmill VX
SIMTEK Milling Tools Type VX

Thread milling, metric ISO-Thread, Partial profile

Multi-purpose milling inserts. The given „Pitch (as of)“ is conforming to standards. The „Pitch (up to)“ is possible too at the expense of conformity. Please read additional notes.

Cutting parameters (start)		
fzm **0,04 mm**	hmax **0,05 mm**	Vc **Page 192**

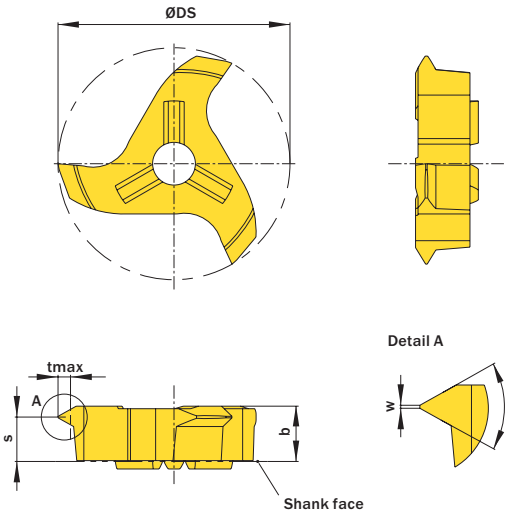
Suitable toolholders on page
113, 114, 115, 116, 117, 118, 119, 120

Similar tools on page
32

Please read add. notes
ALL (Page 199), H03 (Page 201), H04 (Page 202)

SP HM Legend **203**

Scan QR-Code Or Visit **www.simtek.info/cp/399**



Drawing shows: V28.1525.01 M

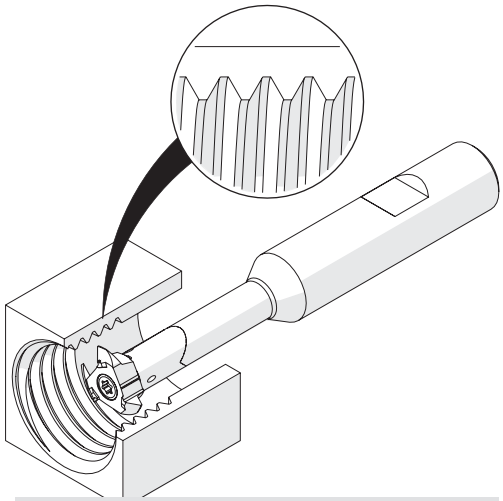


Image shows exemplary application possibility with similar tool.

As of thread size	Pitch (as of) mm	Pitch (up to) mm	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	b mm	S mm	w mm	tmax mm	ØDS mm	Number of cutting edges	Connectcode www.simtek.com/ccode
M33	1,0	2,0	**V28.0720.01 M**	AGS9	X800 GT42	6,6	4,6	0,12	1,2	27,7	3	
M33	1,5	2,5	**V28.1525.01 M**	AD0Y	X800 GT42	6,6	4,3	0,18	1,49	27,7	3	VD11.3 | VD11.5 | VD12.0 VD12.7 | VD13.5 | VD14.0 VD14.3 | VD15.0 | VD16.0
M36	2,5	5,0	**V28.3050.01 M**	ANX4	X800 GT42	6,6	4,0	0,37	2,93	27,7	3	
M39	4,0	6,0	**V28.5060.01 M**	AJVY	X800 GT42	6,6	3,6	0,5	4,6	27,7	3	

Order example: **V28.5060.01 M X800** (X800 = Grade)

Please read the additional notes mentioned in the information area on the top right corner of this page.
The mentioned thread size „As of thread size“ is based on the starting pitch.

More information about the **multi-purpose thread milling tools** and the **thread size suitability** can be found on page 204

simmill VX
SIMTEK Milling Tools Type VX

General Groove Milling

General groove milling. For use in bores as of minimum bore diameter 32,0 mm.

Cutting parameters (start)		
fzm **0,04 mm**	hmax **0,05 mm**	Vc **Page 192**

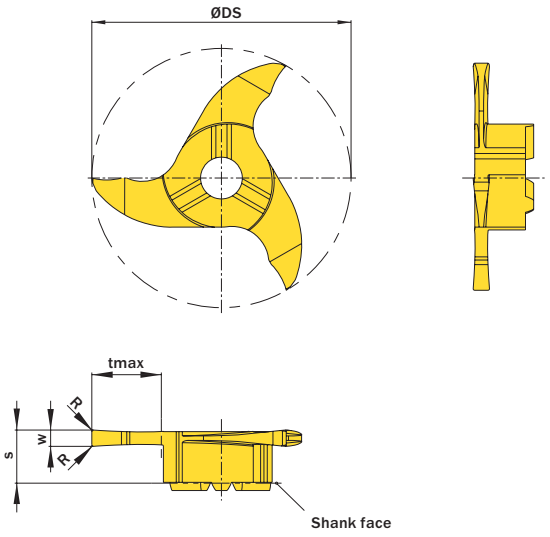
Suitable toolholders on page
113, 114, 115, 116, 117, 118, 119

Similar tools on page
27

Please read add. notes
ALL (Page 199), H01 (Page 200)

SP HM Legend **203**

Scan QR-Code Or Visit **www.simtek.info/cp/430**



Drawing shows: V32.0200.02 G

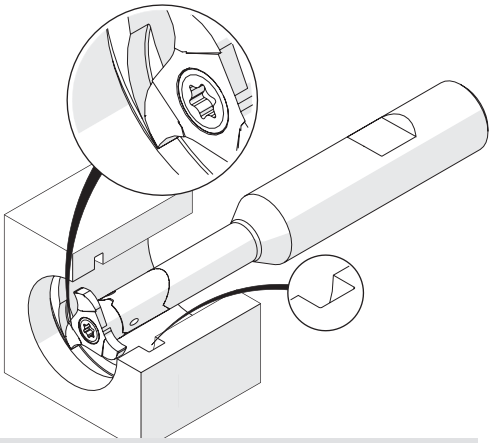


Image shows exemplary application possibility with similar tool.

w +0,02 mm	Nominal width of groove mm	R mm	ØDmin (min. bore) mm	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	tmax mm	S mm	ØDS mm	Number of cutting edges	Connectcode www.simtek.com/ccode
1,5	-	0,2	32,0	**V32.0150.02.11 G**	A3U5	X800 GT42	10,0	6,5	31,7	3	VD11.3|VD11.5
1,6	-	0,2	32,0	**V32.0160.02.11 G**	A3U7	X800 GT42	10,0	6,5	31,7	3	VD11.3|VD11.5
2,0	-	0,2	32,0	**V32.0200.02 G**	AE2X	X800 GT42	8,5	6,5	31,7	3	VD14.0|VD14.3
2,0	-	0,2	32,0	**V32.0200.02.11 G**	AX0G	X800 GT42	10,0	6,5	31,7	3	VD11.3|VD11.5
2,5	-	0,2	32,0	**V32.0250.02 G**	AAPW	X800 GT42	8,5	6,5	31,7	3	VD14.0|VD14.3
3,0	-	0,2	32,0	**V32.0300.02 G**	ACYJ	X800 GT42	8,5	6,5	31,7	3	VD14.0|VD14.3
3,0	-	0,2	32,0	**V32.0300.02.11 G**	A0ZA	X800 GT42	10,0	6,5	31,7	3	VD11.3|VD11.5

Order example: **V32.0300.02 G X800** (X800 = Grade)

simtek individual | V32. w, 1/100 mm, 4 Digits . R, 1/100 mm , 3 Digits Tolerance

Example Part number: **V32.0179.030 XG**

simmill VX
SIMTEK Milling Tools Type VX

General Groove Milling in light alloys

General groove milling in bores as of bore diameter 32,0 mm. Highpositive rake angle for use in light alloys.

Cutting parameters (start)		
fzm **0,03 mm**	hmax **0,04 mm**	Vc **Page 192**

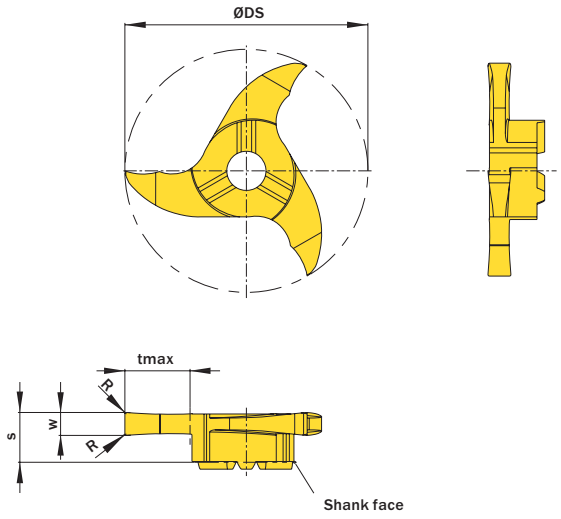
Suitable toolholders on page
113, 114, 115, 116, 117, 118, 119

Similar tools on page
28

Please read add. notes
ALL (Page 199), H01 (Page 200)

SP HM LM Legend **203**

Scan QR-Code Or Visit **www.simtek.info/cp/379**



Drawing shows: V32.0300.42 C

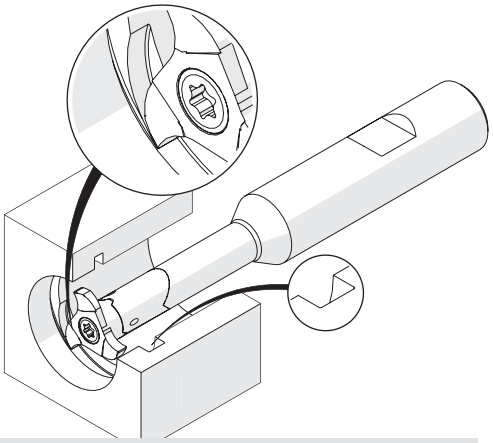


Image shows exemplary application possibility with similar tool.

w +0,02	Nominal width of groove	R	ØDmin (min. bore)	Part number	Webcode www.simtek.com/webcode	Our first choice	tmax	S	ØDS	Number of cutting edges	Connectcode www.simtek.com/ccode
mm	mm	mm	mm			N	mm	mm	mm		
2,0	-	0,2	32,0	**V32.0200.42 C**	AGWK	HF25	8,5	6,5	31,7	3	VD14.0|VD14.3
2,5	-	0,2	32,0	**V32.0250.42 C**	AC45	HF25	8,5	6,5	31,7	3	VD14.0|VD14.3
3,0	-	0,2	32,0	**V32.0300.42 C**	ACQ3	HF25	8,5	6,5	31,7	3	VD14.0|VD14.3
6,0	-	0,2	32,0	**V32.0600.42 C**	ADHB	HF25	8,5	6,5	31,7	3	VD14.0|VD14.3

Order example: **V32.0600.42 C X808** (X808 = Grade)

simtek individual | V32. w, 1/100 mm, 4 Digits . R, 1/100 mm , 3 Digits Tolerance C

Example Part number: **V32.0179.030 XG C**

simmill VX
SIMTEK Milling Tools Type VX

General Groove Milling in light alloys

General groove milling in bores as of bore diameter 33,0 mm. Highpositive rake angle for use in light alloys.

Cutting parameters (start)		
fzm **0,01 mm**	hmax **0,02 mm**	Vc **Page 192**

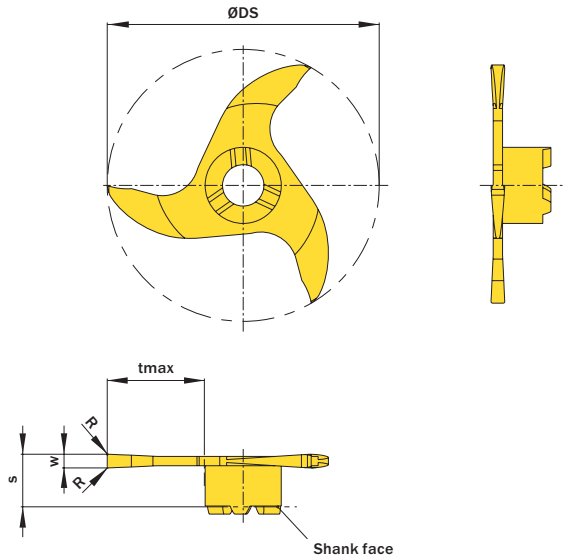
Suitable toolholders on page
113, 114, 115, 116, 117, 118, 119, 120

Similar tools on page
28

Please read add. notes
ALL (Page 199), H01 (Page 200)

SP HM LM Legend **203**

Scan QR-Code Or Visit **www.simtek.info/cp/431**



Drawing shows: V33.0170.42.10 C

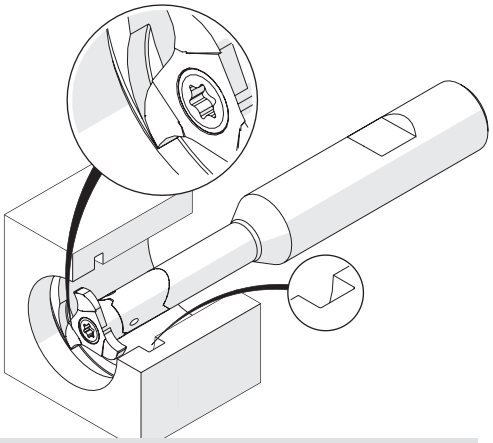


Image shows exemplary application possibility with similar tool.

w -0,02	Nominal width of groove	R	ØDmin (min. bore)	Part number	Webcode www.simtek.com/webcode	Our first choice	tmax	S	ØDS	Number of cutting edges	Connectcode www.simtek.com/ccode
mm	mm	mm	mm			N	mm	mm	mm		
▼ tmax = 10,0 mm											
1,1	-	0,2	33,0	**V33.0110.42.10 C**	AE5V	HF25	10,0	6,5	32,7	3	VD12.0
1,2	-	0,2	33,0	**V33.0120.42.10 C**	AFJN	HF25	10,0	6,5	32,7	3	VD12.0
1,32	-	0,2	33,0	**V33.0132.42.10 C**	AEKN	HF25	10,0	6,5	32,7	3	VD12.0
1,5	-	0,2	33,0	**V33.0150.42.10 C**	AHVT	HF25	10,0	6,5	32,7	3	VD12.0
1,6	-	0,2	33,0	**V33.0160.42.10 C**	AB3H	HF25	10,0	6,5	32,7	3	VD12.0
1,7	-	0,2	33,0	**V33.0170.42.10 C**	ABQM	HF25	10,0	6,5	32,7	3	VD12.0
2,0	-	0,2	33,0	**V33.0200.42.10 C**	AN1P	HF25	10,0	6,5	32,7	3	VD12.0
2,5	-	0,2	33,0	**V33.0250.42.10 C**	AB9V	HF25	10,0	6,5	32,7	3	VD12.0
▼ tmax = 12,0 mm											
1,7	-	0,2	33,9	**V33.0170.42.12 C**	ANBT	HF25	12,0	6,5	33,6	3	VD09.0
2,0	-	0,2	33,9	**V33.0200.42.12 C**	AY6T	HF25	12,0	6,5	33,6	3	VD09.0
2,5	-	0,2	33,9	**V33.0250.42.12 C**	APCK	HF25	12,0	6,5	33,6	3	VD09.0

Order example: **V33.0170.42.12 C X808** (X808 = Grade)

simmill VX
SIMTEK Milling Tools Type VX

General Groove Milling

General groove milling. For use in bores as of minimum bore diameter 35,0 mm.

Cutting parameters (start)		
fzm **0,03 mm**	hmax **0,04 mm**	Vc **Page 192**

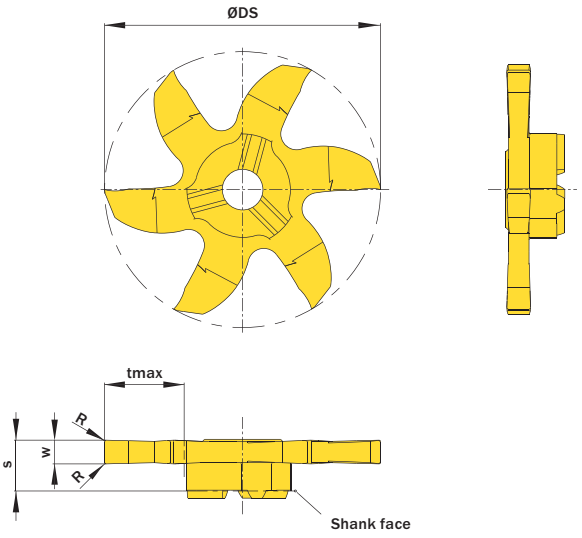
Suitable toolholders on page
113, 114, 115, 116, 117, 118, 119

Similar tools on page
27

Please read add. notes
ALL (Page 199), H01 (Page 200), H05 (Page 202)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/382**



Drawing shows: V06.0300.020.35 G

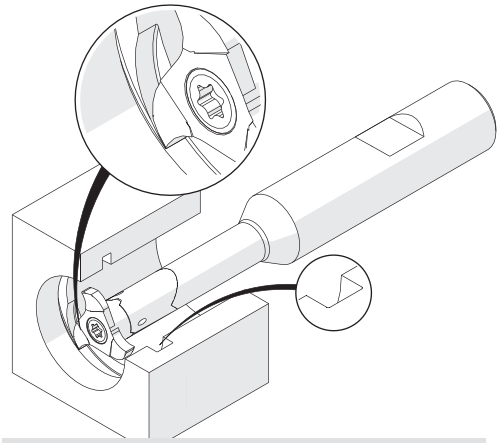


Image shows exemplary application possibility with similar tool.

w +0,02 mm	Nominal width of groove mm	R mm	ØDmin (min. bore) mm	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	tmax mm	S mm	ØDS mm	Number of cutting edges	Connectcode www.simtek.com/ccode
1,5	-	0,1	35,0	**V06.0150.010.35 G**	AHDS	X800 GT42	10,0	6,2	34,7	6	VD14.0|VD14.3
2,0	-	0,2	35,0	**V06.0200.020.35 G**	AGDQ	X800 GT42	10,0	6,2	34,7	6	VD14.0|VD14.3
2,5	-	0,2	35,0	**V06.0250.020.35 G**	AF56	X800 GT42	10,0	6,2	34,7	6	VD14.0|VD14.3
3,0	-	0,2	35,0	**V06.0300.020.35 G**	AMN1	X800 GT42	10,0	6,2	34,7	6	VD14.0|VD14.3

Order example: **V06.0300.020.35 G X800** (X800 = Grade)

simtek individual | V06. w, 1/100 mm, 4 Digits . R, 1/100 mm , 3 Digits .35 Tolerance
Example Part number: **V06.0179.030.35 XG**

simmill VX
SIMTEK Milling Tools Type VX

General Groove Milling

General groove milling. For use in bores as of minimum bore diameter 37,0 mm.

Cutting parameters (start)		
fzm **0,03 mm**	hmax **0,04 mm**	Vc **Page 192**

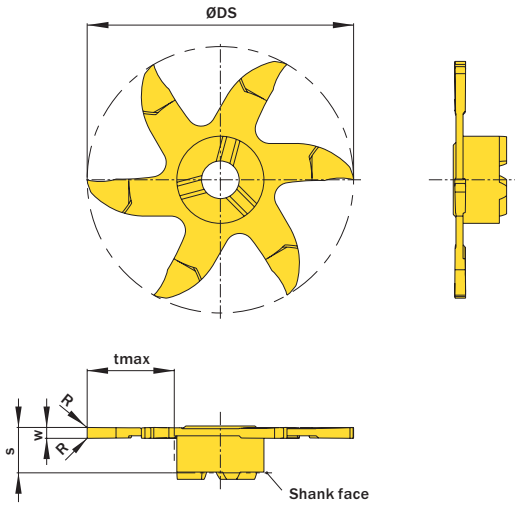
Suitable toolholders on page
113, 114, 115, 116, 117, 118, 119, 120

Similar tools on page
27

Please read add. notes
ALL (Page 199), H01 (Page 200), H05 (Page 202)

SP HM Legend **203**

Scan QR-Code Or Visit **www.simtek.info/cp/383**



Drawing shows: V06.0150.010.37 G

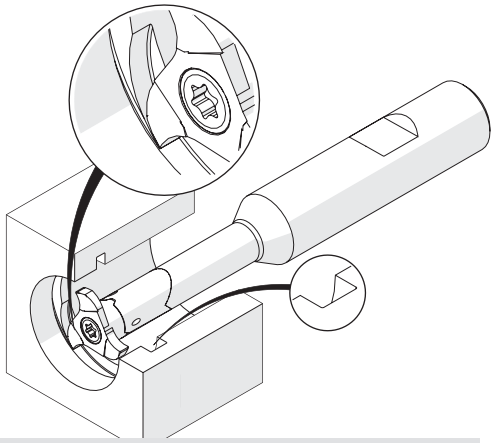


Image shows exemplary application possibility with similar tool.

w +0,02 mm	Nominal width of groove mm	R mm	ØDmin (min. bore) mm	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	tmax mm	S mm	ØDS mm	Number of cutting edges	Connectcode www.simtek.com/ccode
▼ ØDmin (min. bore) = 37,0 mm											
1,0	-	0,1	37,0	**V06.0100.010.37 G**	AJ2K	X800 GT42	12,0	6,2	36,7	6	VD12.0
1,5	-	0,1	37,0	**V06.0150.010.37 G**	AFW6	X800 GT42	12,0	6,2	36,7	6	VD12.0
▼ ØDmin (min. bore) = 40,0 mm											
1,0	-	0,1	40,0	**V06.0100.010.40 G**	AWX9	X800 GT42	13,5	6,2	39,7	6	VD12.0
1,5	-	0,1	40,0	**V06.0150.010.40 G**	AWX8	X800 GT42	13,5	6,2	39,7	6	VD12.0

Order example: **V06.0100.010.37 G X800** (X800 = Grade)

simtek individual | V06. w, 1/100 mm, 4 Digits . R, 1/100 mm, 3 SDigits .37 Tolerance
Example Part number: **V06.0179.030.37 XG**

simmill VX
SIMTEK Milling Tools Type VX

Groove and Key Way Milling

General groove milling. For use in bores as of minimum bore diameter 37,0 mm.

Cutting parameters (start)		
fzm **0,01 mm**	hmax **0,02 mm**	Vc **Page 192**

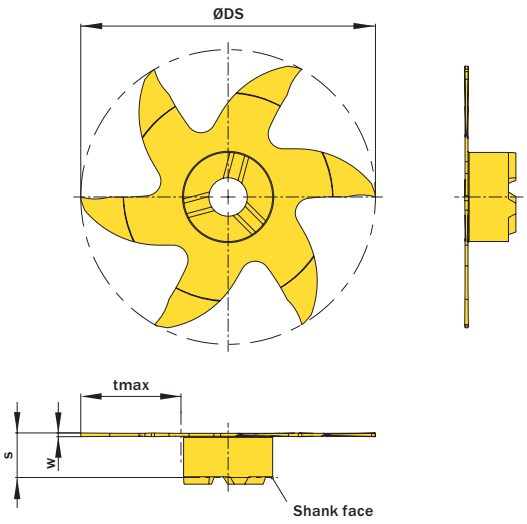
Suitable toolholders on page
113, 114, 115, 116, 117, 118, 119, 120

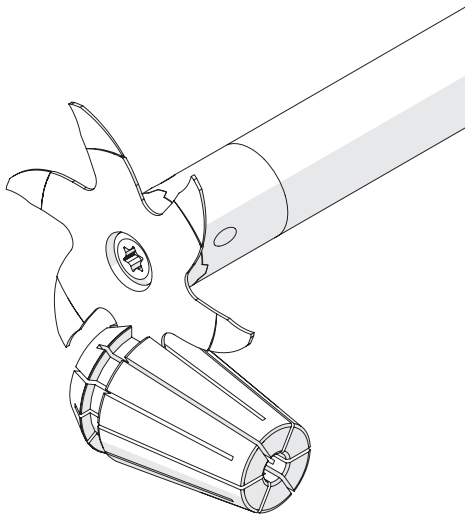
Similar tools on page
27

Please read add. notes
ALL (Page 199), H01 (Page 200), H05 (Page 202)

SP HM Legend **203**

Scan QR-Code Or Visit **www.simtek.info/cp/384**





Drawing shows: V06.0050.000.40 G

w +0,05 mm	Nominal width of groove mm	R mm	ØDmin (min. bore) mm	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	tmax mm	S mm	ØDS mm	Number of cutting edges	Connectcode www.simtek.com/ccode
▼ w = 0,4 mm											
0,4	-	-	40,0	**V06.0040.000.40 G**	AWAG	X800 GT42	13,5	6,0	39,7	6	VD12.0
▼ w = 0,5 mm											
0,5	-	-	37,0	**V06.0050.000.37 G**	AA60	X800 GT42	12,0	6,0	36,7	6	VD12.0
0,5	-	-	40,0	**V06.0050.000.40 G**	AXBF	X800 GT42	13,5	6,0	39,7	6	VD12.0
▼ w = 0,6 mm											
0,6	-	-	37,0	**V06.0060.000.37 G**	AA5V	X800 GT42	12,0	5,7	36,7	6	VD12.0
0,6	-	-	40,0	**V06.0060.000.40 G**	AXBG	X800 GT42	13,5	5,7	39,7	6	VD12.0
▼ w = 0,8 mm											
0,8	-	-	37,0	**V06.0080.000.37 G**	AN39	X800 GT42	12,0	6,0	36,7	6	VD12.0
0,8	-	-	40,0	**V06.0080.000.40 G**	AXBH	X800 GT42	13,5	6,0	39,7	6	VD12.0

Order example: **V06.0080.000.37 G X800** (X800 = Grade)

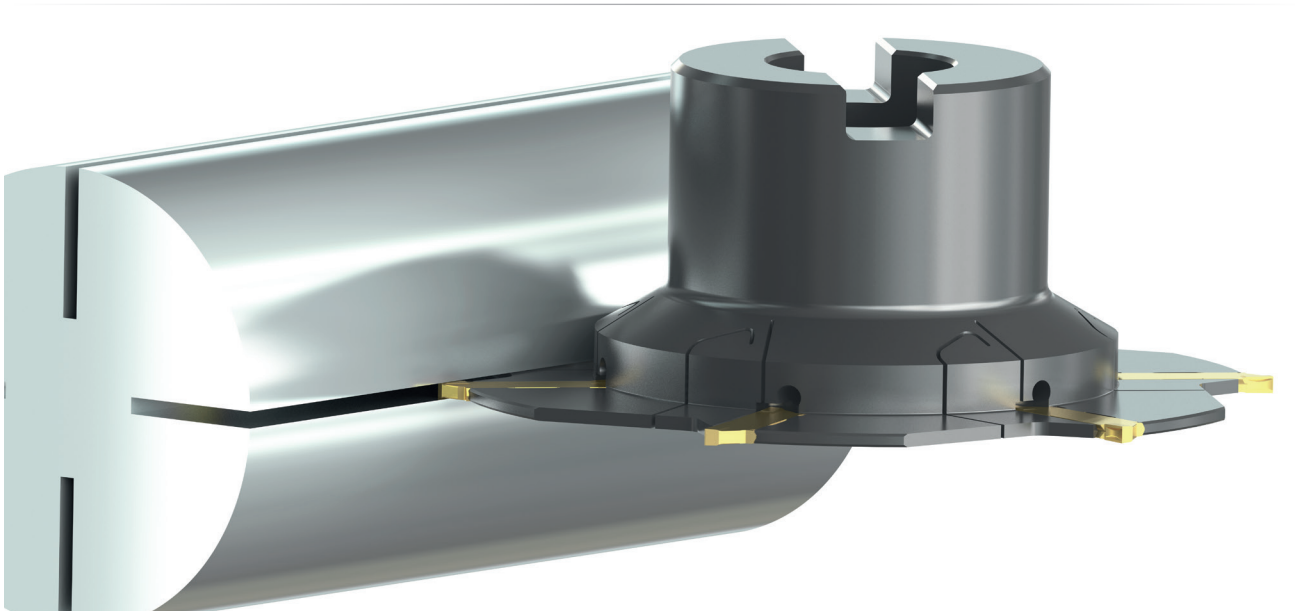
simtek individual | V06. | w, 1/100 mm, 4 Digits | . | R, 1/100 mm, 3 SDigits | .37 | Tolerance

Example Part number: **V06.0179.030.37 XG**

simmill H2
SIMTEK Milling Tools Type H2

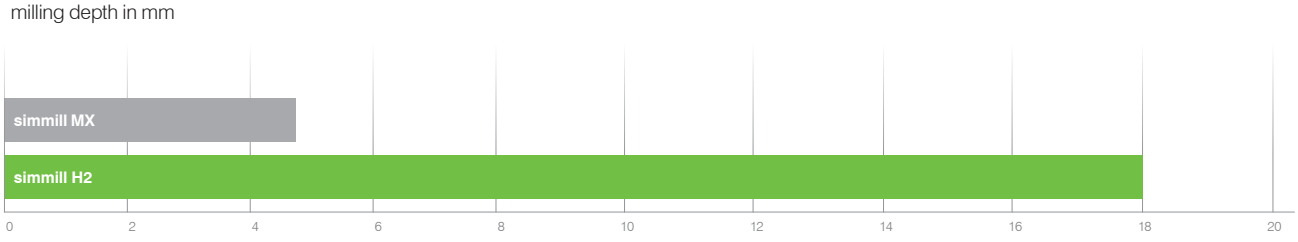
The Tool System simmill H2

Active and easy-to-use clamping system for 3,6 times higher cutting depths* and high process reliability.



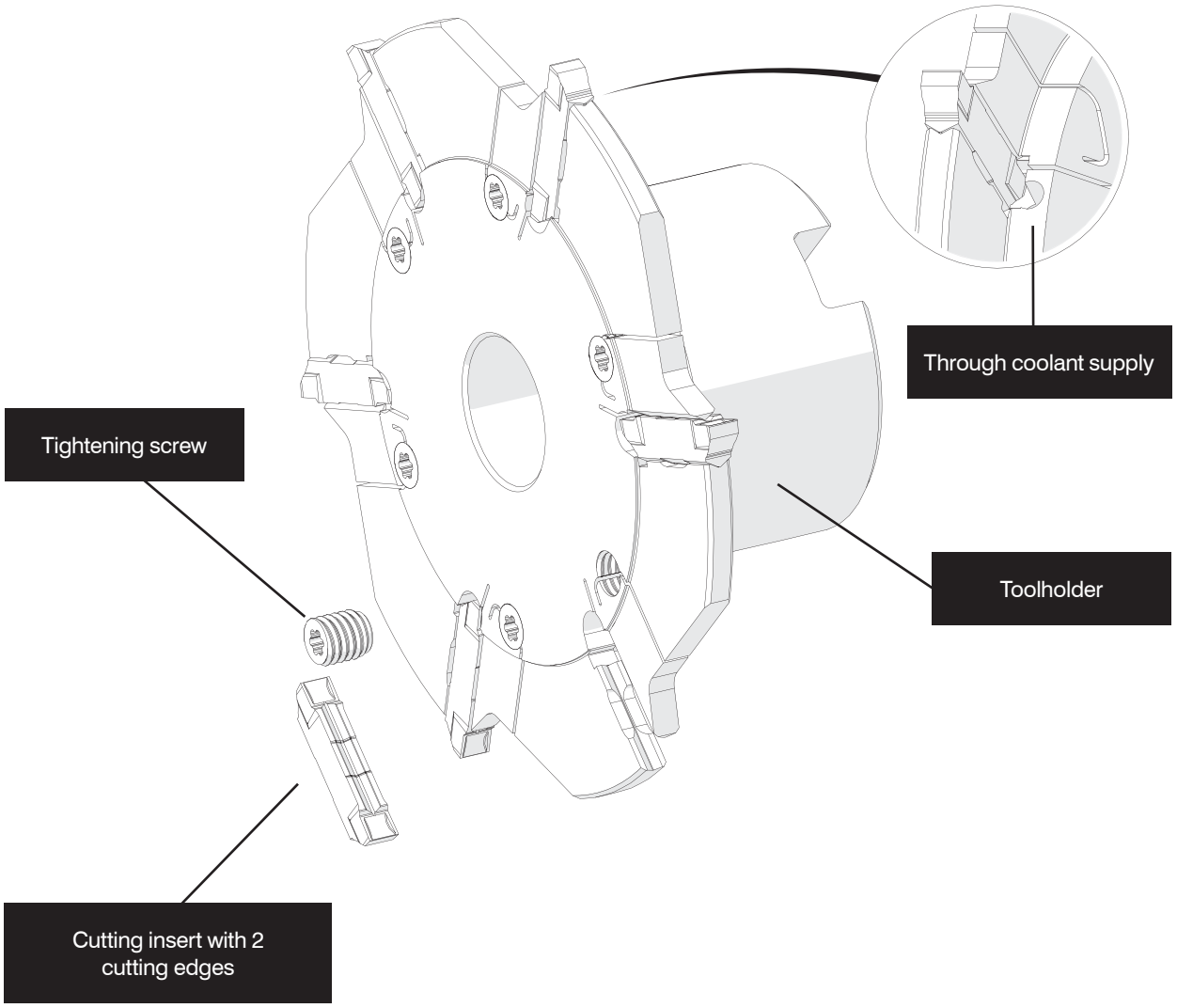
simmill H2 provides very high process reliability and tight axial and radial runout tolerances thanks to precision ground two-edged indexable cutting inserts in combination with an active and easy-to-use clamping system. The stable clamping system provides up to 3,6 times higher cutting depths* as of cutting edge width 1,3 mm (0.051“).

· Precision ground cutting edges as of cutting edge width 1,3 mm (0.051“)
· Maximum cutting depth of 18,0 mm (0.709“)
· Cutting diameter of 100,0 mm (3.937“)



*Compared to simmill MX

The Tool System in Detail



Slotting Cutter

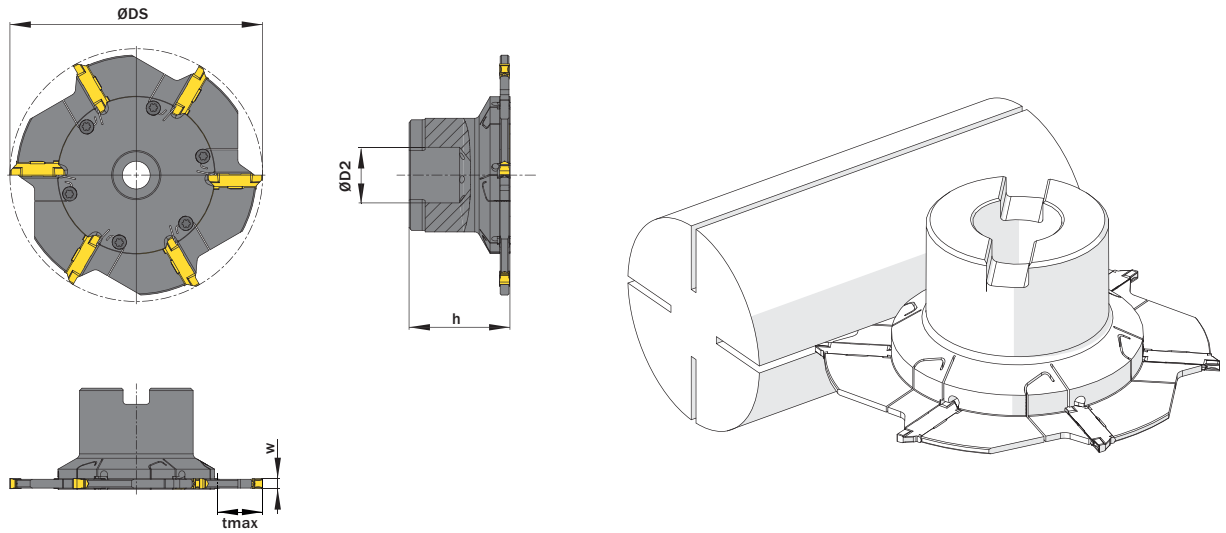
Milling arbor fixation.

Tightening torque (screw)
3,0 Nm

Please read add. notes
ALL (Page 199)

TW ST | R | Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/1279**



Drawing shows: MH2.80.0100.06.40.IC R

ØDS mm	ØD2 mm	Part number	Webcode www.simtek.com/webcode	Number of insert seats	h mm	tmax mm	w ≥ mm	w ≤ mm	Screw	Screw driver	Connectcode www.simtek.com/ccode
100,0	22,0	**MH2.80.0100.06.15.IC R**	A206	6	40,0	18,0	-	1,9	MH2.S.06.65 T15F	T15F	MH2.15
100,0	22,0	**MH2.80.0100.06.20.IC R**	A207	6	40,0	18,0	1,91	2,4	MH2.S.06.65 T15F	T15F	MH2.20
100,0	22,0	**MH2.80.0100.06.25.IC R**	A208	6	40,0	18,0	2,41	2,9	MH2.S.06.65 T15F	T15F	MH2.25
100,0	22,0	**MH2.80.0100.06.30.IC R**	A209	6	40,0	18,0	2,91	3,8	MH2.S.06.65 T15F	T15F	MH2.30
100,0	22,0	**MH2.80.0100.06.40.IC R**	A21A	6	40,0	18,0	3,81	5,0	MH2.S.06.65 T15F	T15F	MH2.40

Order example: **MH2.80.0100.06.15.IC R** (R = Right hand version)

Groove and slot milling

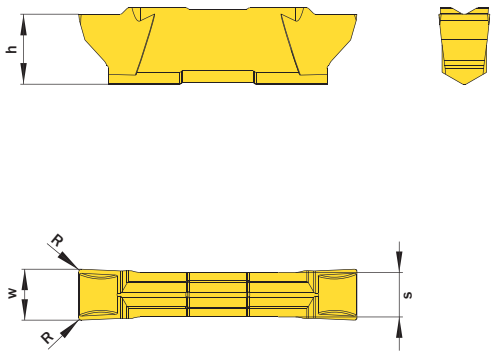
Two-edged indexable cutting inserts for general groove milling and slot milling with cutting edge widths as of 1,5 mm.

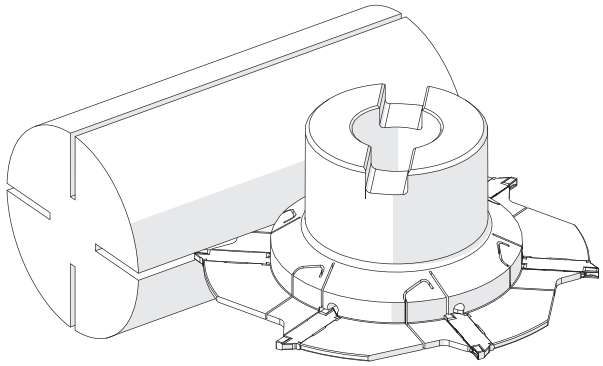
Suitable toolholders on page
159

Please read add. notes
ALL (Page 199)

SP HM Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/1280**





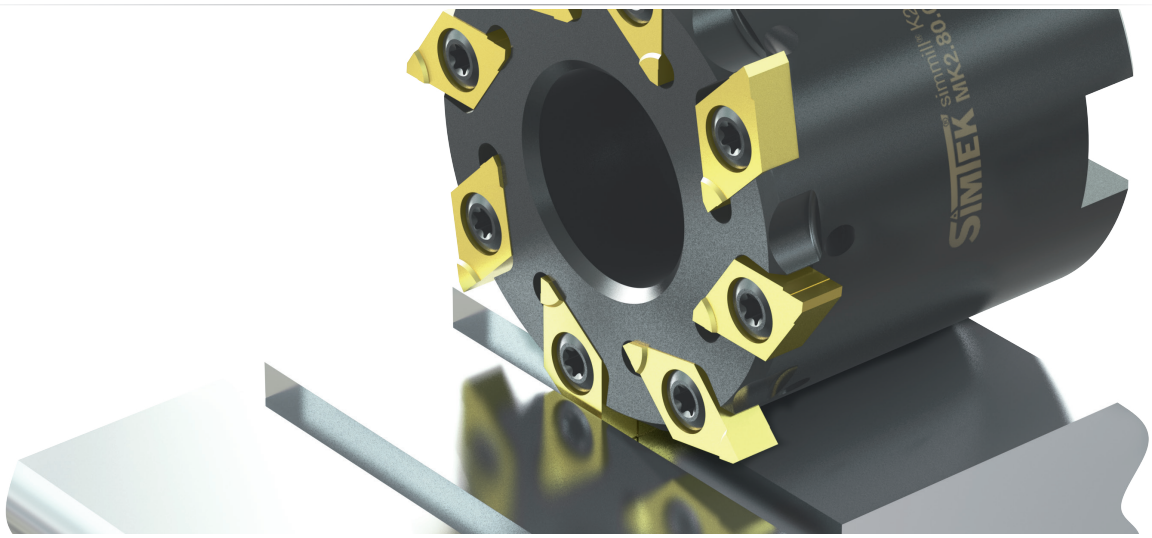
Drawing shows: MH2.400.020 GG

w -0,02 mm	R mm	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	h mm	S mm	Connectcode www.simtek.com/ccode
▼ R = 0,05 mm							
1,5	0,05	**MH2.150.005 GG**	A2DM	X800 GT42	5,5	1,2	MH2.15
2,0	0,05	**MH2.200.005 GG**	A2DN	X800 GT42	5,5	1,6	MH2.20
2,5	0,05	**MH2.250.005 GG**	A2DP	X800 GT42	5,5	2,1	MH2.25
3,0	0,05	**MH2.300.005 GG**	A2DQ	X800 GT42	5,5	2,6	MH2.30
▼ R = 0,2 mm							
1,5	0,2	**MH2.150.020 GG**	A2DS	X800 GT42	5,5	1,2	MH2.15
2,0	0,2	**MH2.200.020 GG**	A2DT	X800 GT42	5,5	1,6	MH2.20
2,5	0,2	**MH2.250.020 GG**	A2DU	X800 GT42	5,5	2,1	MH2.25
3,0	0,2	**MH2.300.020 GG**	A2DV	X800 GT42	5,5	2,6	MH2.30
3,5	0,2	**MH2.350.020 GG**	A2DW	X800 GT42	5,5	2,6	MH2.30
4,0	0,2	**MH2.400.020 GG**	A2DX	X800 GT42	5,5	3,5	MH2.40
5,0	0,2	**MH2.500.020 GG**	A2DY	X800 GT42	5,5	3,5	MH2.40
▼ R = 0,4 mm							
3,0	0,4	**MH2.300.040 GG**	A2DZ	X800 GT42	5,5	2,6	MH2.30
3,5	0,4	**MH2.350.040 GG**	A2D0	X800 GT42	5,5	2,6	MH2.30
4,0	0,4	**MH2.400.040 GG**	A2D1	X800 GT42	5,5	3,5	MH2.40
5,0	0,4	**MH2.500.040 GG**	A2D2	X800 GT42	5,5	3,5	MH2.40

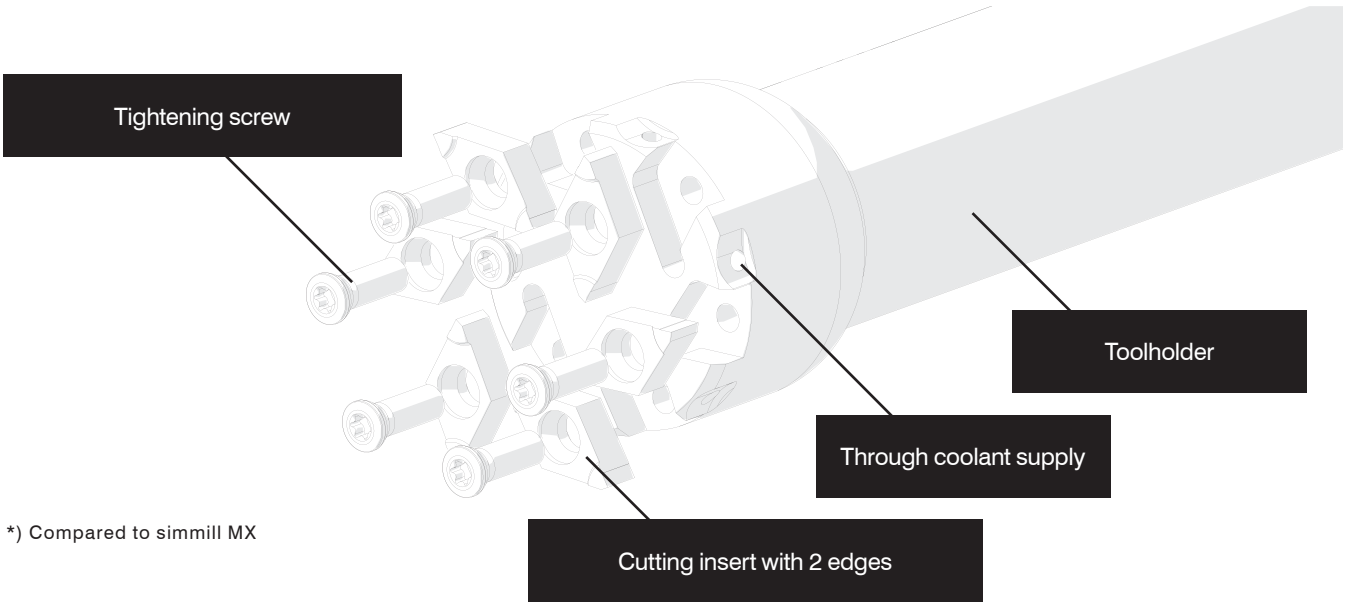
Order example: **MH2.150.020 GG X800** (X800 = Grade)

The Tool System simmill K2

Up to 3 times more cutting edges on equal cutting diameters.*



System of milling cutter shank, milling cutter or disc milling cutter and indexable carbide cutting inserts with 2 cutting edges. Usable in bores as of diameter 39,0 mm (1.535“)



*) Compared to simmill MX

Milling Cutter Shank (DIN 1835 - B25)

Weldon fixation according to DIN 1835 - B25.

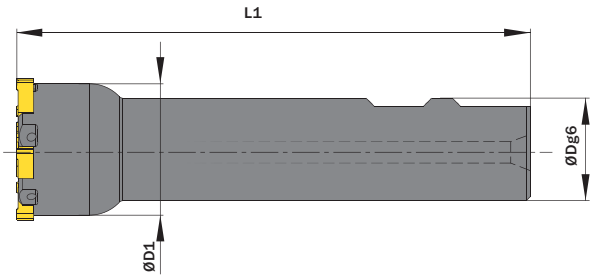
Tightening torque (screw)
3,0 Nm

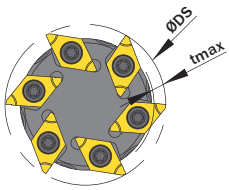
Please read add. notes
ALL (Page 199)

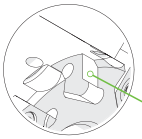
TW ST | R | Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/1016**

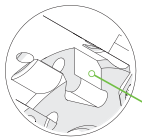
This page contains inch tools! These tools are indicated by **inch** on the right hand side.







Connectcode MK2A.R.4.1
Depth of insert seat 4,1 mm



Connectcode MK2A.R.6.1
Depth of insert seat 6,1 mm. See info below!

Drawing shows: MK2.A.80.2539.06.04.IC R

ØDg6 mm/inch	ØDS mm/inch	Number of insert seats	Part number	Webcode www.simtek.com/webcode	With through coolant supply	ØD1 mm/inch	L1 mm/inch	tmax mm/inch	Screw	Screw driver	Connectcode www.simtek.com/ccode	
1.000“	1.535“	6	**MK2.A.80.1039.06.04.IC R**	A4UD	Yes	1.260“	4.921“	0.118“	M M3,5x11 T10F	T10F	MK2A.R.4.1	inch
25,0	39,0	6	**MK2.A.80.2539.06.04 R**	AYSS	No	32,0	125,0	3,0	M M3,5x11 T10F	T10F	MK2A.R.4.1	
25,0	39,0	6	**MK2.A.80.2539.06.04.IC R**	AW0E	Yes	32,0	125,0	3,0	M M3,5x11 T10F	T10F	MK2A.R.4.1	
25,0	39,0	6	**MK2.A.80.2539.06.06 R**	AYST	No	32,0	125,0	3,0	M M3,5x11 T10F	T10F	MK2A.R.6.1	
25,0	39,0	6	**MK2.A.80.2539.06.06.IC R**	AW0F	Yes	32,0	125,0	3,0	M M3,5x11 T10F	T10F	MK2A.R.6.1	

Order example: **MK2.A.80.2539.06.04.IC R** (R = Right hand version)

Toolholder with Connectcode „MK2.R.6.1“ are provided for customized cutting tools.

Milling Cutter

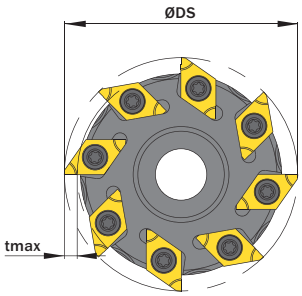
Milling arbor fixation.

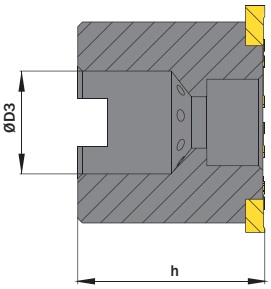
Tightening torque (screw)
3,0 Nm

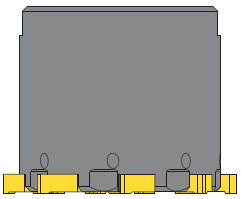
Please read add. notes
ALL (Page 199)

TW ST | R | Legend **203**

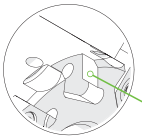
Scan **QR-Code** | Or Visit **www.simtek.info/cp/1015**



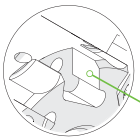




Drawing shows: MK2.A.80.0050.08.04.IC R



Connectcode MK2A.R.4.1
Depth of insert seat 4,1 mm



Connectcode MK2A.R.6.1
Depth of insert seat 6,1 mm. See info below!

ØDS mm	Number of insert seats	Part number	Webcode www.simtek.com/webcode	With through coolant supply	ØD3 mm	h mm	tmax mm	Screw	Screw driver	Connectcode www.simtek.com/ccode
39,0	6	**MK2.A.80.0039.06.04 R**	AYSM	No	16,0	36,0	3,0	M M3,5x11 T10F	T10F	**MK2A.R.4.1**
39,0	6	**MK2.A.80.0039.06.04.IC R**	AW0J	Yes	16,0	36,0	3,0	M M3,5x11 T10F	T10F	**MK2A.R.4.1**
39,0	6	**MK2.A.80.0039.06.06 R**	AYSN	No	16,0	36,0	3,0	M M3,5x11 T10F	T10F	**MK2A.R.6.1**
39,0	6	**MK2.A.80.0039.06.06.IC R**	AW0K	Yes	16,0	36,0	3,0	M M3,5x11 T10F	T10F	**MK2A.R.6.1**
50,0	8	**MK2.A.80.0050.08.04 R**	AYSP	No	22,0	40,0	3,0	M M3,5x11 T10F	T10F	**MK2A.R.4.1**
50,0	8	**MK2.A.80.0050.08.04.IC R**	AW0G	Yes	22,0	40,0	3,0	M M3,5x11 T10F	T10F	**MK2A.R.4.1**
50,0	8	**MK2.A.80.0050.08.06 R**	AYSQ	No	22,0	40,0	3,0	M M3,5x11 T10F	T10F	**MK2A.R.6.1**
50,0	8	**MK2.A.80.0050.08.06.IC R**	AW0H	Yes	22,0	40,0	3,0	M M3,5x11 T10F	T10F	**MK2A.R.6.1**

Order example: **MK2.A.80.0050.08.04.IC R** (R = Right hand version)

Toolholder with Connectcode „MK2.R.6.1“ are provided for customized cutting tools.

Disc Milling Cutter

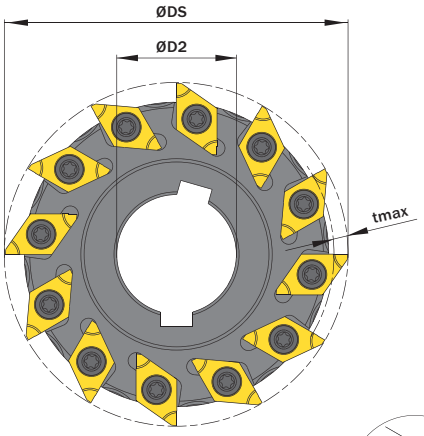
Bore with keyway.

Tightening torque (screw)
3,0 Nm

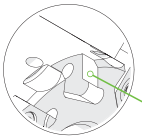
Please read add. notes
ALL (Page 199)

TW ST R Legend **203**

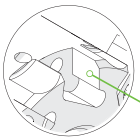
Scan **QR-Code** Or Visit **www.simtek.info/cp/1017**



Drawing shows: MK2.A.81.0063.12.04 R



Connectcode MK2A.R.4.1
Depth of insert seat 4,1 mm



Connectcode MK2A.R.6.1
Depth of insert seat 6,1 mm. See info below!

ØDS mm	Number of insert seats	Part number	Webcode www.simtek.com/webcode	ØD2 mm	h mm	tmax mm	Screw	Screw driver	Connectcode www.simtek.com/ccode
63,0	12	**MK2.A.81.0063.12.04 R**	AW0B	22,0	14,0	3,0	M M3,5x11 T10F	T10F	**MK2A.R.4.1**
63,0	12	**MK2.A.81.0063.12.06 R**	AXWP	22,0	14,0	3,0	M M3,5x11 T10F	T10F	**MK2A.R.6.1**
80,0	16	**MK2.A.81.0080.16.04 R**	AW0C	27,0	16,0	3,0	M M3,5x11 T10F	T10F	**MK2A.R.4.1**
80,0	16	**MK2.A.81.0080.16.06 R**	AXWQ	27,0	16,0	3,0	M M3,5x11 T10F	T10F	**MK2A.R.6.1**
100,0	20	**MK2.A.81.0100.20.04 R**	AW0D	32,0	20,0	3,0	M M3,5x11 T10F	T10F	**MK2A.R.4.1**
100,0	20	**MK2.A.81.0100.20.06 R**	AXWS	32,0	20,0	3,0	M M3,5x11 T10F	T10F	**MK2A.R.6.1**

Order example: **MK2.A.81.0100.20.06 R** (R = Right hand version)

Toolholder with Connectcode „MK2.R.6.1“ are provided for customized cutting tools.

Circlip Ring Groove Milling

Circlip ring groove milling. For use in all materials.

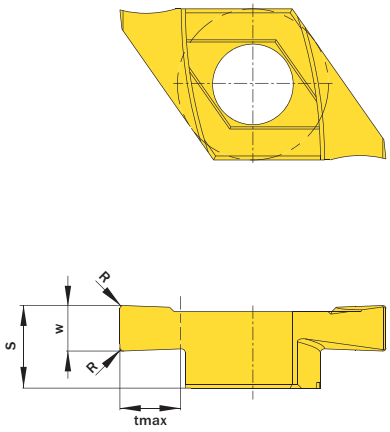
Cutting parameters (start)		
fzm **0,04 mm**	hmax **0,05 mm**	Vc **Page 192**

Suitable toolholders on page
162, 163, 164

Please read add. notes
ALL (Page 199)

SP HM R Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/1014**



Drawing shows: MK2.A.0215.02 GR

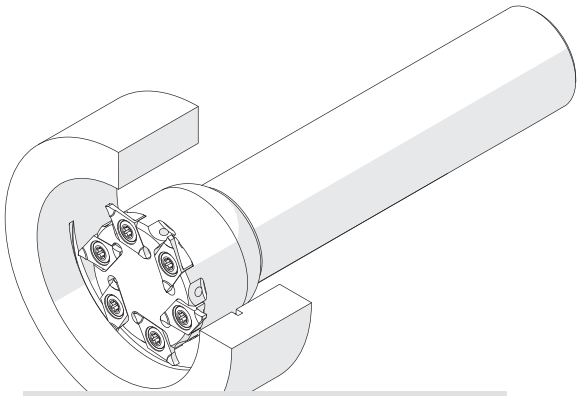


Image shows exemplary application possibility with similar tool.

w -0,02 mm	Nominal width of groove mm	R mm	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	S mm	tmax mm	Number of cutting edges	Connectcode www.simtek.com/ccode
1,21	1,1	0,1	**MK2.A.0110.01 GR**	AW0N	X808 HT42	4,0	3,0	2	MK2A.R.4.1
1,41	1,3	0,1	**MK2.A.0130.01 GR**	AW0P	X808 HT42	4,0	3,0	2	MK2A.R.4.1
1,71	1,6	0,1	**MK2.A.0160.01 GR**	AW0Q	X808 HT42	4,0	3,0	2	MK2A.R.4.1
1,96	1,85	0,2	**MK2.A.0185.02 GR**	AXB6	X808 HT42	4,0	3,0	2	MK2A.R.4.1
2,26	2,15	0,2	**MK2.A.0215.02 GR**	AW0S	X808 HT42	4,0	3,0	2	MK2A.R.4.1
2,76	2,65	0,2	**MK2.A.0265.02 GR**	AW0T	X808 HT42	4,0	3,0	2	MK2A.R.4.1
3,26	3,15	0,2	**MK2.A.0315.02 GR**	AW0U	X808 HT42	4,0	3,0	2	MK2A.R.4.1

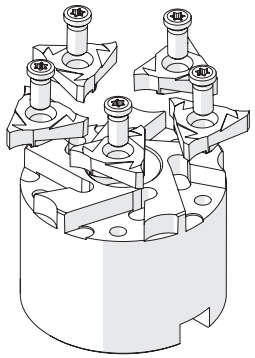
Order example: **MK2.A.0215.02 GR X808** (R = Right hand version, X808 = Grade)

Info

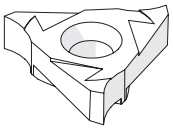
The Tool System simmill MX

simmill MX
SIMTEK Milling Tools Type MX

+ System of milling cutter shank, milling cutter or disc milling cutter



and three edged indexable milling insert



+ High precision and stability

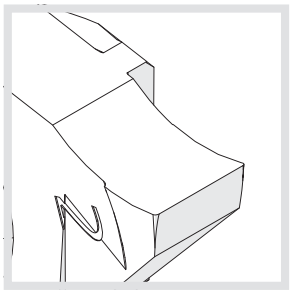
+ For bores as of Ø 39,0 mm (1.535“)

+ Toolholder with up to 20 insert seats

simmill MX
SIMTEK Milling Tools Type MX

Milling cutter shanks, milling cutters and disc milling cutters as of page 168

Circlip ring grooves



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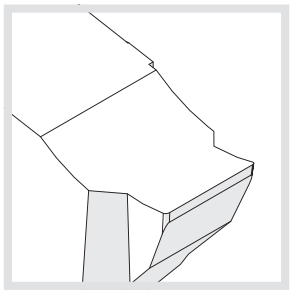
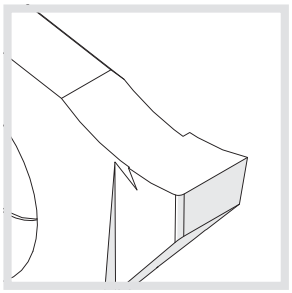
As of page...

Circlip ring grooves with chamfering



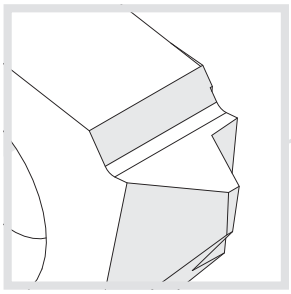
175
On page...

Groove milling



182
On page...

Thread milling



177
As of page...

P.	Available thread profiles
177	Metric ISO-thread, external, partial profile
178	Metric ISO-thread, external, full profile
179	Metric ISO-thread, internal, full profile
180	UN-thread, external, full profile
181	UN-thread, internal, full profile

Milling Cutter Shank (DIN1835 - B25)

Weldon fixation according to DIN 1835 - B25.

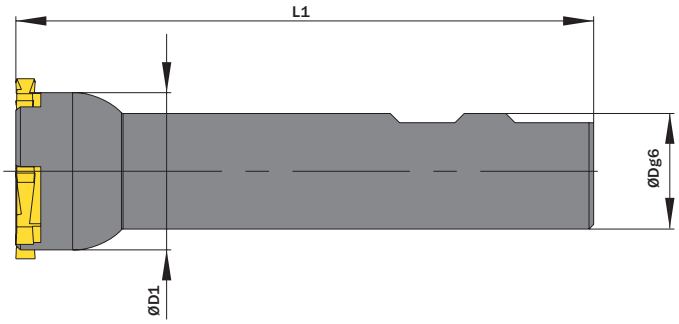
Tightening torque (screw)
"M M5x13 T20R": 6,0 Nm
"M M5x15 T20R": 6,0 Nm

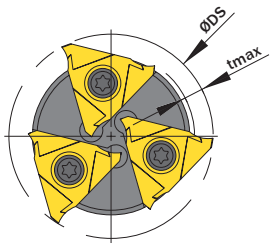
Please read add. notes
ALL (Page 199)

TW ST Legend **203**

Scan QR-Code Or Visit **www.simtek.info/cp/433**

This page contains inch tools! These tools are indicated by **inch** on the right hand side.





Drawing shows: M80.2544.03

ØDg6 mm/inch	ØDS mm/inch	Number of insert seats	Part number	Webcode www.simtek.com/webcode	With through coolant supply	ØD1 mm/inch	L1 mm/inch	tmax mm/inch	Screw	Screw driver	Connectcode www.simtek.com/ccode	
▼ ØDS = 39,0 mm												
25,0	39,0	2	**M80.2539.02**	AN3U	No	32,0	125,0	3,0	M M5x13 T20R	T20R	M14.R.6.0	
25,0	39,0	2	**M80.2539.02.07**	AW02	No	32,0	125,0	3,0	M M5x15 T20R	T20R	M14.R.7.0	
25,0	39,0	2	**M80.2539.02.IC**	AXE0	Yes	32,0	125,0	3,0	M M5x13 T20R	T20R	M14.R.6.0	
▼ ØDS = 44,0 mm / 1.732"												
1.000"	1.732"	3	**M80.1044.03.IC**	A4UZ	Yes	1.339"	4.921"	0.157"	M M5x13 T20R	T20R	M14.R.6.0	inch
25,0	44,0	3	**M80.2544.03**	AEPQ	No	34,0	125,0	4,0	M M5x13 T20R	T20R	M14.R.6.0	
25,0	44,0	3	**M80.2544.03.07**	AW03	No	34,0	125,0	4,0	M M5x15 T20R	T20R	M14.R.7.0	
25,0	44,0	3	**M80.2544.03.IC**	AXEZ	Yes	34,0	125,0	4,0	M M5x13 T20R	T20R	M14.R.6.0	

Order example: **M80.2544.03**

Milling Cutter

Milling arbor fixation.

Tightening torque (screw)

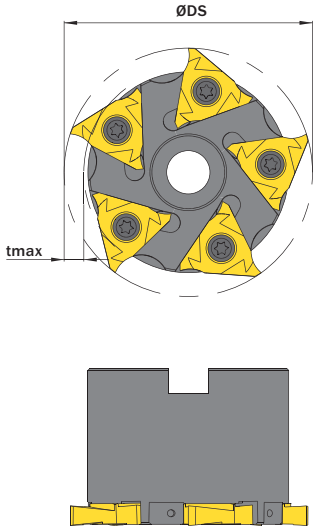
"M M5x13 T20R": 6,0 Nm
"M M5x15 T20R": 6,0 Nm

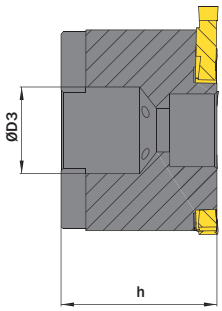
Please read add. notes
ALL (Page 199)

TW ST R Legend **203**

Scan QR-Code Or Visit **www.simtek.info/cp/434**

This page contains inch tools! These tools are indicated by **inch** on the right hand side.





Drawing shows: M80.0063.05.IC R

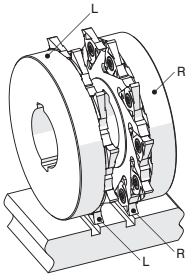


Image for illustration purpose of "Right and left hand tools"

ØDS mm/inch	Number of insert seats	Part number	Webcode www.simtek.com/webcode	With through coolant supply	ØD3 mm/inch	h mm/inch	tmax mm/inch	Screw	Screw driver	Connectcode www.simtek.com/ccode	
▼ ØDS = 63,0 mm / 2.480"											
63,0	5	**M80.0063.05 R/L**	R AHQX L AAKS	No	22,0	40,0	5,0	M M5x13T20R	T20R	R M14.R.6.0 L M14.L.6.0	
63,0	5	**M80.0063.05.07 R/L**	R AW0W L AW0V	No	22,0	40,0	5,0	M M5x15T20R	T20R	R M14.R.7.0 L M14.L.7.0	
63,0	5	**M80.0063.05.07.IC R/L**	R AW0Y L AW0X	Yes	22,0	40,0	5,0	M M5x15T20R	T20R	R M14.R.7.0 L M14.L.7.0	
63,0	5	**M80.0063.05.IC R/L**	R AUGS L AVEH	Yes	22,0	40,0	5,0	M M5x13T20R	T20R	R M14.R.6.0 L M14.L.6.0	
2.480"	5	**M80.2480.05 R/L**	R AB23 L AW4F	No	0.750"	1.575"	0.197"	M M5x13T20R	T20R	R M14.R.6.0 L M14.L.6.0	inch
2.480"	5	**M80.2480.05.07 R/L**	R AW01 L AW4G	No	0.750"	1.575"	0.197"	M M5x15T20R	T20R	R M14.R.7.0 L M14.L.7.0	inch
▼ ØDS = 80,0 mm											
80,0	8	**M80.0080.08 R/L**	R ADWY L AGDJ	No	27,0	32,0	5,0	M M5x13T20R	T20R	R M14.R.6.0 L M14.L.6.0	
80,0	8	**M80.0080.08.07 R/L**	R AW00 L AW0Z	No	27,0	32,0	5,0	M M5x15T20R	T20R	R M14.R.7.0 L M14.L.7.0	

Order example: **M80.0063.05 R** (R = Right hand version)

SIMTEK Milling Cutter with Polygon Shank

SIMTEK toolholder with polygon shank according to ISO 26623.

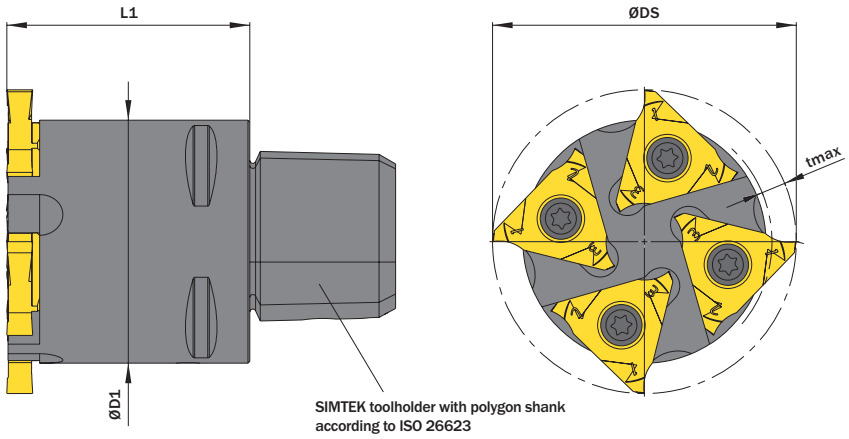
Tightening torque (screw)

"M M5x13 T20R": 6,0 Nm
"M M5x15 T20R": 6,0 Nm

Please read add. notes
ALL (Page 199)

TW ST Legend **203**

Scan QR-Code Or Visit **www.simtek.info/cp/435**



Drawing shows: M80.C450.40.04

Polygon shank size	ØDS mm	L1 mm	Number of insert seats	Part number	Webcode www.simtek.com/webcode	With through coolant supply	ØD1 mm	tmax mm	Screw	Screw driver	Connectcode www.simtek.com/ccode
▼ ØDS = 44,0 mm											
C3	44,0	60,0	3	**M80.C344.60.03**	AKV4	No	34,0	4,0	M M5x13 T20R	T20R	M14.R.6.0
C3	44,0	60,0	3	**M80.C344.60.03.07**	AW04	No	34,0	4,0	M M5x15 T20R	T20R	M14.R.7.0
C3	44,0	60,0	3	**M80.C344.60.03.07.IC**	AYH4	Yes	34,0	4,0	M M5x15 T20R	T20R	M14.R.7.0
C3	44,0	60,0	3	**M80.C344.60.03.IC**	AYH3	Yes	34,0	4,0	M M5x13 T20R	T20R	M14.R.6.0
▼ ØDS = 50,0 mm											
C4	50,0	40,0	4	**M80.C450.40.04**	AD5D	No	40,0	4,0	M M5x13 T20R	T20R	M14.R.6.0
C4	50,0	40,0	4	**M80.C450.40.04.07**	AW05	No	40,0	4,0	M M5x15 T20R	T20R	M14.R.7.0
C4	50,0	40,0	4	**M80.C450.40.04.07.IC**	AYH6	Yes	40,0	4,0	M M5x15 T20R	T20R	M14.R.7.0
C4	50,0	40,0	4	**M80.C450.40.04.IC**	AYH5	Yes	40,0	4,0	M M5x13 T20R	T20R	M14.R.6.0
▼ ØDS = 63,0 mm											
C5	63,0	40,0	5	**M80.C563.40.05**	AHED	No	50,0	5,0	M M5x13 T20R	T20R	M14.R.6.0
C5	63,0	40,0	5	**M80.C563.40.05.07**	AW06	No	50,0	5,0	M M5x15 T20R	T20R	M14.R.7.0
C5	63,0	40,0	5	**M80.C563.40.05.07.IC**	AYJA	Yes	50,0	5,0	M M5x15 T20R	T20R	M14.R.7.0
C5	63,0	40,0	5	**M80.C563.40.05.IC**	AYH9	Yes	50,0	5,0	M M5x13 T20R	T20R	M14.R.6.0
▼ ØDS = 75,0 mm											
C6	75,0	50,0	7	**M80.C675.50.07**	ASAC	No	63,0	5,0	M M5x13 T20R	T20R	M14.R.6.0
C6	75,0	50,0	7	**M80.C675.50.07.07**	AW07	No	63,0	5,0	M M5x15 T20R	T20R	M14.R.7.0
C6	75,0	50,0	7	**M80.C675.50.07.07.IC**	AYH8	Yes	63,0	5,0	M M5x15 T20R	T20R	M14.R.7.0
C6	75,0	50,0	7	**M80.C675.50.07.IC**	AYH7	Yes	63,0	5,0	M M5x13 T20R	T20R	M14.R.6.0

Order example: **M80.C450.40.04**

Disc Milling Cutter

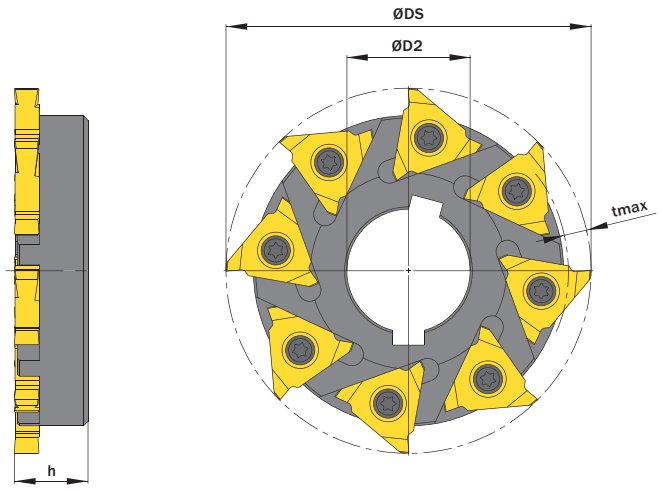
Bore with keyway.

Tightening torque (screw)
6,0 Nm

Please read add. notes
ALL (Page 199)

TW ST R Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/436**



Drawing shows: M81.0080.08 R

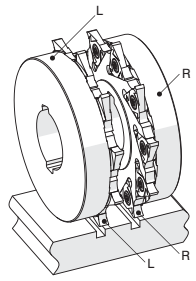


Image for illustration purpose of "Right and left hand tools"

ØDS mm	Number of insert seats	Part number	Webcode www.simtek.com/webcode	ØD2 mm	h mm	tmax mm	Screw	Screw driver	Connectcode www.simtek.com/ccode
63,0	5	**M81.0063.05 R/L**	R AC39 L AMS2	22,0	14,0	5,0	MM5x13T20R	T20R	R M14.R.6.0 L M14.L.6.0
80,0	8	**M81.0080.08 R/L**	R AJCW L ABK4	27,0	16,0	5,0	MM5x13T20R	T20R	R M14.R.6.0 L M14.L.6.0
100,0	10	**M81.0100.10 R/L**	R AB7G L AFKF	32,0	20,0	5,0	MM5x13T20R	T20R	R M14.R.6.0 L M14.L.6.0

Order example: **M81.0100.10 R** (R = Right hand version)

Slotting Cutter

Bore with keyway.

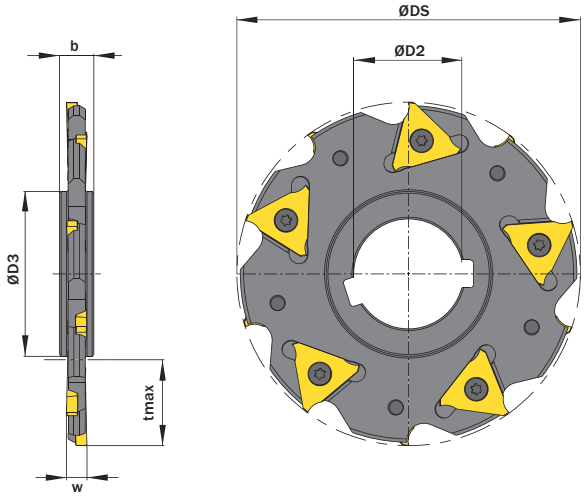
Tightening torque (screw)

"M M5x0,5x4,5 T15F": 6,0 Nm
"M M5x10,7 T20R ": 7,0 Nm
"M M5x4,5 T15F": 7,0 Nm
"M M5x7,5 T20R": 6,0 Nm
"M M5x9 T20R": 6,0 Nm

Please read add. notes
ALL (Page 199)

TW ST Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/1128**



Drawing shows: MM4.82.0100.32.06

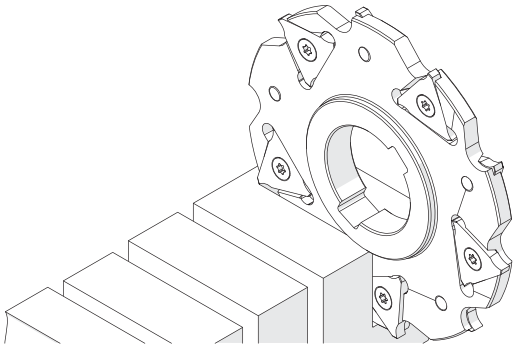


Image shows exemplary application possibility with similar tool.

ØDS mm	ØD2 mm	w ±0,04 mm	Part number	Webcode www.simtek.com/webcode	Number of insert seats	b mm	ØD3 mm	tmax mm	Screw	Screw driver	Connectcode www.simtek.com/ccode
▼ ØDS = 63,0 mm											
63,0	22,0	6,0	**MM4.82.0063.22.06**	AZP2	2xR + 2xL	10,0	34,0	14,0	M M5X0,5X4,5 T15F	T15F	MM4.82.3.2
▼ ØDS = 80,0 mm											
80,0	27,0	6,0	**MM4.82.0080.27.06**	AYJ1	4xR + 4xL	10,0	41,0	19,0	M M5x4,5 T15F	T15F	MM4.82.3.2
80,0	27,0	8,0	**MM4.82.0080.27.08**	AYJ2	4xR + 4xL	12,0	41,0	19,0	M M5x7,5 T20R	T20R	MM4.82.4.3
80,0	27,0	10,0	**MM4.82.0080.27.10**	AYJ3	4xR + 4xL	12,0	41,0	19,0	M M5x9 T20R	T20R	MM4.82.5.4
▼ ØDS = 100,0 mm											
100,0	32,0	6,0	**MM4.82.0100.32.06**	AYJ5	5xR + 5xL	10,0	47,0	26,0	M M5x4,5 T15F	T15F	MM4.82.3.2
100,0	32,0	8,0	**MM4.82.0100.32.08**	AYJ6	5xR + 5xL	12,0	47,0	26,0	M M5x7,5 T20R	T20R	MM4.82.4.3
100,0	32,0	10,0	**MM4.82.0100.32.10**	AYJ7	5xR + 5xL	12,0	47,0	26,0	M M5x9 T20R	T20R	MM4.82.5.4
▼ ØDS = 125,0 mm											
125,0	40,0	6,0	**MM4.82.0125.40.06**	AYJ9	6xR + 6xL	10,0	55,0	34,5	M M5x4,5 T15F	T15F	MM4.82.3.2
125,0	40,0	8,0	**MM4.82.0125.40.08**	AYKA	6xR + 6xL	12,0	55,0	34,5	M M5x7,5 T20R	T20R	MM4.82.4.3
125,0	40,0	10,0	**MM4.82.0125.40.10**	AYKB	6xR + 6xL	14,0	55,0	34,5	M M5x9 T20R	T20R	MM4.82.5.4
125,0	40,0	12,0	**MM4.82.0125.40.12**	AYKC	6xR + 6xL	14,0	55,0	34,5	M M5X10,7 T20R	T20R	MM4.82.6.5
▼ ØDS = 160,0 mm											
160,0	40,0	6,0	**MM4.82.0160.40.06**	AYKD	8xR + 8xL	10,0	55,0	50,0	M M5x4,5 T15F	T15F	MM4.82.3.2
160,0	40,0	8,0	**MM4.82.0160.40.08**	AYKE	8xR + 8xL	12,0	55,0	50,0	M M5x7,5 T20R	T20R	MM4.82.4.3
160,0	40,0	10,0	**MM4.82.0160.40.10**	AYDV	8xR + 8xL	14,0	55,0	50,0	M M5x9 T20R	T20R	MM4.82.5.4
160,0	40,0	12,0	**MM4.82.0160.40.12**	AYKF	8xR + 8xL	14,0	55,0	50,0	M M5x10,7 T20R	T20R	MM4.82.6.5
▼ ØDS = 200,0 mm											
200,0	50,0	6,0	**MM4.82.0200.50.06**	AYKG	10xR+10xL	10,0	69,0	65,0	M M5x4,5 T15F	T15F	MM4.82.3.2

Order example: **MM4.82.0080.27.06**

Slotting Cutter

Milling arbor fixation.

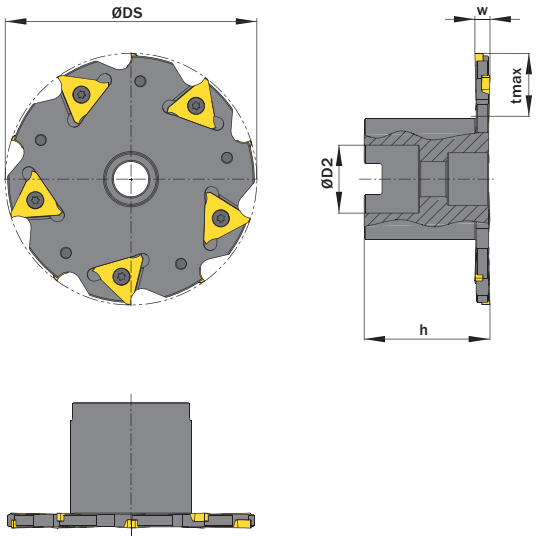
Tightening torque (screw)

"M M5X0,5X4,5 T15F": 6,0 Nm
"M M5x7,5 T20R": 6,0 Nm
"M M5x9 T20R": 6,0 Nm

Please read add. notes
ALL (Page 199)

TW ST R Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/1129**



Drawing shows: MM4.83.0100.27.06 R

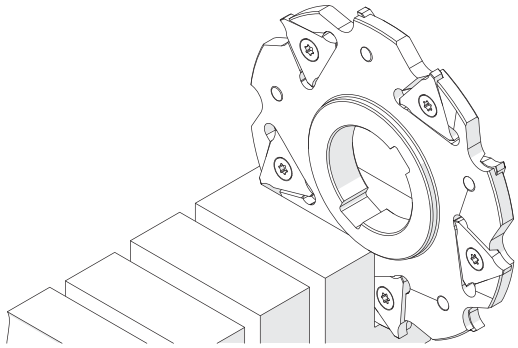


Image shows exemplary application possibility with similar tool.

ØDS mm	ØD2 mm	w ±0,04 mm	Part number	Webcode www.simtek.com/webcode	Number of insert seats	h mm	tmax mm	Screw	Screw driver	Connectcode www.simtek.com/ccode
100,0	27,0	6,0	**MM4.83.0100.27.06 R**	AYKH	5xR + 5xL	50,0	25,0	M M5X0,5X4,5 T15F	T15F	MM4.82.3.2
100,0	27,0	8,0	**MM4.83.0100.27.08 R**	AYKJ	5xR + 5xL	50,0	25,0	M M5x7,5 T20R	T20R	MM4.82.4.3
100,0	27,0	10,0	**MM4.83.0100.27.10 R**	AYKK	5xR + 5xL	50,0	25,0	M M5x9 T20R	T20R	MM4.82.5.4

Order example: **MM4.83.0100.27.10 R** (R = Right hand version)

Circlip Ring Groove Milling

Circlip ring groove milling. For use in all materials.

Cutting parameters (start)		
fzm **0,04 mm**	hmax **0,05 mm**	Vc **Page 192**

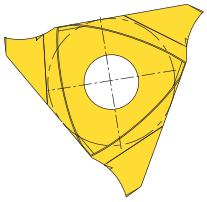
Suitable toolholders on page
168, 169, 170, 171

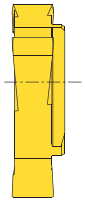
Please read add. notes
ALL (Page 199)

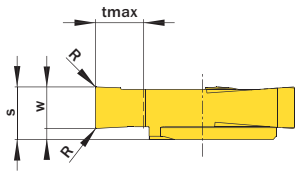
SP HM R Legend **203**

Scan QR-Code Or Visit **www.simtek.info/cp/438**

This page contains inch tools! These tools are indicated by **inch** on the right hand side.







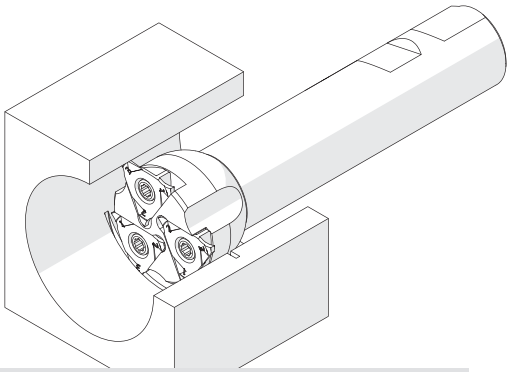


Image shows exemplary application possibility with similar tool.

Drawing shows: M14.0415.02 GR

w -0,02mm / 0.001"	Nominal width of groove	R	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	S	tmax	Number of cutting edges	Connectcode www.simtek.com/ccode	
mm/inch	mm/inch	mm/inch				mm/inch	mm/inch			
0.046“	-	0.004“	**M14.0117.01 GR/L**	R AMF9 L AW4J	X800 GT42	0.213“	0.197“	3	R M14.R.6.0 L M14.L.6.0	inch
1,41	1,3	0,1	**M14.0130.01 GR/L**	R AMMX L AKWB	X800 GT42	5,4	5,0	3	R M14.R.6.0 L M14.L.6.0	
0.062“	-	0.004“	**M14.0157.01 GR/L**	R AN5A L AW4K	X800 GT42	0.213“	0.197“	3	R M14.R.6.0 L M14.L.6.0	inch
1,71	1,6	0,1	**M14.0160.01 GR/L**	R AJE8 L ANFM	X800 GT42	5,4	5,0	3	R M14.R.6.0 L M14.L.6.0	
0.077“	0.073“	0.008“	**M14.0185.02 GR/L**	R AMGV L ABUJ	X800 GT42	0.213“	0.197“	3	R M14.R.6.0 L M14.L.6.0	inch
2,0	-	0,2	**M14.0200.02 GR/L**	R AYQ8 L AYQ9	X800 GT42	5,4	5,0	3	R M14.R.6.0 L M14.L.6.0	
2,26	2,15	0,2	**M14.0215.02 GR/L**	R ADKS L ANZX	X800 GT42	5,4	5,0	3	R M14.R.6.0 L M14.L.6.0	
0.094“	-	0.008“	**M14.0239.02 GR/L**	R AJNN L AW4M	X800 GT42	0.213“	0.197“	3	R M14.R.6.0 L M14.L.6.0	inch
2,5	-	0,2	**M14.0250.02 GR/L**	R AYSB L AYSA	X800 GT42	5,4	5,0	3	R M14.R.6.0 L M14.L.6.0	
2,76	2,65	0,2	**M14.0265.02 GR/L**	R AENW L ANYU	X800 GT42	5,4	5,0	3	R M14.R.6.0 L M14.L.6.0	
3,0	-	0,2	**M14.0300.02 GR/L**	R AYSC L AYSD	X800 GT42	5,4	5,0	3	R M14.R.6.0 L M14.L.6.0	
3,26	3,15	0,2	**M14.0315.02 GR/L**	R AA0V L AEJW	X800 GT42	5,4	5,0	3	R M14.R.6.0 L M14.L.6.0	
0.125“	-	0.008“	**M14.0318.02 GR/L**	R ANFA L AW4N	X800 GT42	0.213“	0.197“	3	R M14.R.6.0 L M14.L.6.0	inch
3,5	-	0,2	**M14.0350.02 GR/L**	R AYSF L AYSE	X800 GT42	5,4	5,0	3	R M14.R.6.0 L M14.L.6.0	
4,0	-	0,2	**M14.0400.02 GR/L**	R AGDU L AW4P	X800 GT42	5,4	5,0	3	R M14.R.6.0 L M14.L.6.0	
4,26	4,15	0,2	**M14.0415.02 GR/L**	R APFY L AJG2	X800 GT42	5,4	5,0	3	R M14.R.6.0 L M14.L.6.0	
0.172“	-	0.008“	**M14.0437.02 GR/L**	R AGN0 L AW4H	X800 GT42	0.213“	0.197“	3	R M14.R.6.0 L M14.L.6.0	inch
4,75	-	0,2	**M14.0475.02 GR/L**	R AKXF L AW4Q	X800 GT42	5,4	5,0	3	R M14.R.6.0 L M14.L.6.0	
5,26	5,15	0,2	**M14.0515.02 GR/L**	R ADWD L AGAK	X800 GT42	5,4	5,0	3	R M14.R.6.0 L M14.L.6.0	

Order example: **M14.0215.02 GR X800** (R = Right hand version, X800 = Grade)

simtek individual | M14. w, 1/100 mm, 4 Digits . R, 1/100 mm, 3 Digits Tolerance R/L

Example Part number: **M14.0179.030 X G R** or **M14.0179.030 X G L**

Circlip Ring Groove Milling with chamfering

Circlip ring groove milling with chamfering. For use in all materials.

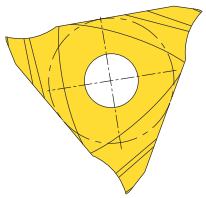
Cutting parameters (start)		
fzm **0,04 mm**	hmax **0,05 mm**	Vc **Page 192**

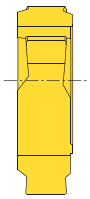
Suitable toolholders on page
168, 169, 170, 171

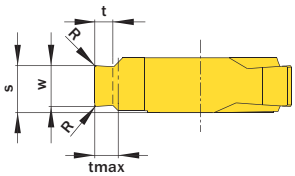
Please read add. notes
ALL (Page 199)

SP HM R Legend **203**

Scan QR-Code Or Visit **www.simtek.info/cp/440**







Drawing shows: M14.4120.54 FR

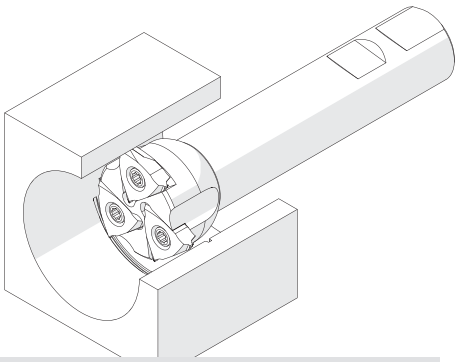


Image shows exemplary application possibility with similar tool.

Nominal width of groove	tmax	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	R	S	t	w -0,02	Number of cutting edges	Connectcode www.simtek.com/ccode
mm	mm				mm	mm	mm	mm		
1,1	0,5	**M14.1105.54 FR/L**	R AJ5S L AMX4	X800 GT42	0,1	4,4	0,49	1,21	3	R M14.R.6.0 L M14.L.6.0
1,3	0,7	**M14.1307.54 FR/L**	R AN4Y L ABTB	X800 GT42	0,1	4,5	0,67	1,41	3	R M14.R.6.0 L M14.L.6.0
1,3	0,85	**M14.1308.54 FR/L**	R AHBN L AM0J	X800 GT42	0,1	4,5	0,83	1,41	3	R M14.R.6.0 L M14.L.6.0
1,6	0,85	**M14.1609.54 FR/L**	R ABX1 L AJWH	X800 GT42	0,15	4,4	0,83	1,71	3	R M14.R.6.0 L M14.L.6.0
1,6	1,0	**M14.1610.54 FR/L**	R AKFG L AGZK	X800 GT42	0,15	4,4	0,97	1,71	3	R M14.R.6.0 L M14.L.6.0
1,85	1,25	**M14.1812.54 FR/L**	R AC89 L AAGW	X800 GT42	0,15	4,5	1,23	1,96	3	R M14.R.6.0 L M14.L.6.0
2,15	1,5	**M14.2115.54 FR/L**	R AMBF L AHMT	X800 GT42	0,15	4,7	1,47	2,26	3	R M14.R.6.0 L M14.L.6.0
2,65	1,5	**M14.2616.54 FR/L**	R ACAP L AFDE	X800 GT42	0,15	4,4	1,47	2,76	3	R M14.R.6.0 L M14.L.6.0
2,65	1,75	**M14.2617.54 FR/L**	R AFD5 L AGYX	X800 GT42	0,15	4,4	1,72	2,76	3	R M14.R.6.0 L M14.L.6.0
3,15	1,75	**M14.3118.54 FR/L**	R AF4S L APH2	X800 GT42	0,15	4,7	1,72	3,26	3	R M14.R.6.0 L M14.L.6.0
4,15	2,0	**M14.4120.54 FR/L**	R AKFU L ABZH	X800 GT42	0,15	4,9	1,97	4,26	3	R M14.R.6.0 L M14.L.6.0
4,15	2,5	**M14.4125.54 FR/L**	R AAXY L AC9D	X800 GT42	0,15	4,9	2,47	4,26	3	R M14.R.6.0 L M14.L.6.0
5,15	3,0	**M14.5130.61 FR/L**	R ABXB L ANC8	X800 GT42	0,15	5,8	2,97	5,26	3	R M14.R.6.0 L M14.L.6.0

Order example: **M14.2617.54 FR X800** (R = Right hand version, X800 = Grade)

Full Radius Groove Milling

Full radius groove milling.

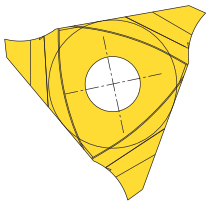
Cutting parameters (start)		
fzm **0,04 mm**	hmax **0,05 mm**	Vc **Page 192**

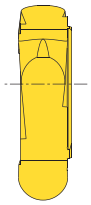
Suitable toolholders on page
168, 169, 170, 171

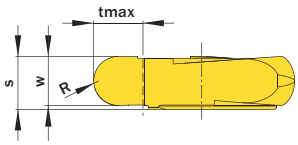
Please read add. notes
ALL (Page 199)

SP HM R Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/984**







Drawing shows: M14.0500.250 VR

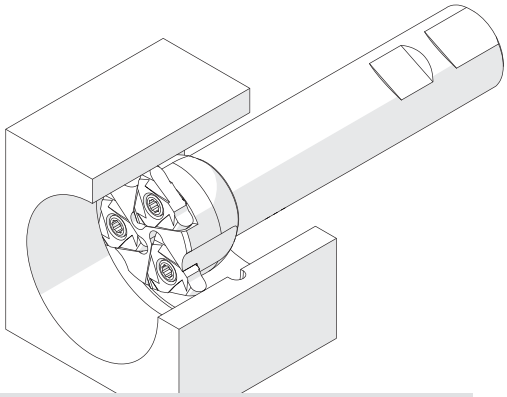


Image shows exemplary application possibility with similar tool.

w mm	R mm	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	S mm	tmax mm	Number of cutting edges	Connectcode www.simtek.com/ccode
2,5	1,25	**M14.0250.125 VR**	A2UN	X800 GT42	5,4	5,0	3	M14.R.6.0
3,0	1,5	**M14.0300.150 VR**	AP15	X800 GT42	5,4	5,0	3	M14.R.6.0
4,0	2,0	**M14.0400.200 VR**	ABPU	X800 GT42	5,4	5,0	3	M14.R.6.0
5,0	2,5	**M14.0500.250 VR**	AJ3G	X800 GT42	5,4	5,0	3	M14.R.6.0

Order example: **M14.0500.250 VR X800** (R = Right hand version, X800 = Grade)

Thread milling, metric ISO-Thread, partial profile, Internal

Multi-purpose milling inserts. The given „Pitch (as of)“ is conforming to standards. The „Pitch (up to)“ is possible too at the expense of conformity. Please read additional notes.

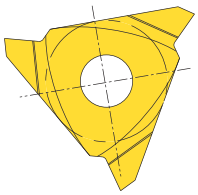
Cutting parameters (start)		
fzm **0,04 mm**	hmax **0,05 mm**	Vc **Page 192**

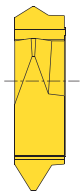
Suitable toolholders on page
168, 169, 170, 171

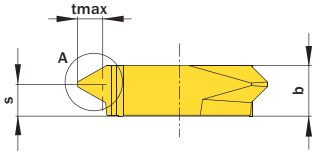
Please read add. notes
ALL (Page 199), H03 (Page 201)

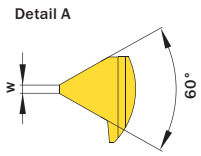
SP HM R Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/441**









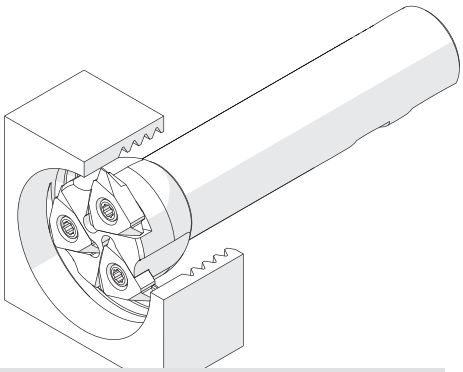


Image shows exemplary application possibility with similar tool.

Drawing shows: M14.2445.01 MR

Pitch (as of) mm	Pitch (up to) mm	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	b mm	S mm	w mm	tmax mm	Number of cutting edges	Connectcode www.simtek.com/ccode
1,5	1,5	**M14.0815.01 MR/L**	R AD3Z L AFKH	X800 GT42	5,4	4,6	0,19	0,81	3	R M14.R.6.0 L M14.L.6.0
2,0	2,0	**M14.1020.01 MR/L**	R AJBD L AFJJ	X800 GT42	5,4	4,4	0,25	1,08	3	R M14.R.6.0 L M14.L.6.0
1,5	3,5	**M14.1535.01 MR/L**	R AACV L ADSD	X800 GT42	5,4	3,9	0,18	1,89	3	R M14.R.6.0 L M14.L.6.0
3,5	4,0	**M14.2140.01 MR/L**	R AN7M L AKFW	X800 GT42	5,4	3,7	0,43	2,17	3	R M14.R.6.0 L M14.L.6.0
3,75	4,5	**M14.2445.01 MR/L**	R ANUB L AA3A	X800 GT42	5,4	3,4	0,47	2,44	3	R M14.R.6.0 L M14.L.6.0
4,0	5,0	**M14.2750.01 MR/L**	R AKBJ L AGFP	X800 GT42	5,4	3,4	0,5	2,7	3	R M14.R.6.0 L M14.L.6.0
4,5	6,0	**M14.3260.01 MR/L**	R AJ8M L AGUP	X800 GT42	5,4	3,0	0,56	3,25	3	R M14.R.6.0 L M14.L.6.0
3,5	6,0	**M14.4060.01 MR/L**	R AMA7 L ACPD	X800 GT42	5,25	2,6	0,44	3,65	3	R M14.R.6.0 L M14.L.6.0

Order example: **M14.4060.01 MR X800** (R = Right hand version, X800 = Grade)

Please read the additional notes mentioned in the information area on the top right corner of this page.

Thread milling, metric ISO-Thread, External, full profile

Thread milling of metric ISO-thread, full profile.

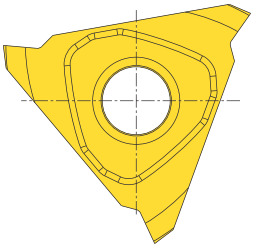
Cutting parameters (start)		
fzm **0,04 mm**	hmax **0,05 mm**	Vc **Page 192**

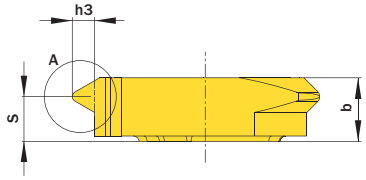
Suitable toolholders on page
168, 169, 170, 171

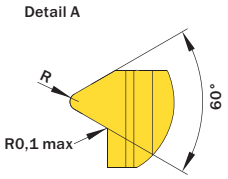
Please read add. notes
ALL (Page 199)

SP HM | R | Legend **203**

Scan QR-Code | Or Visit **www.simtek.info/cp/451**







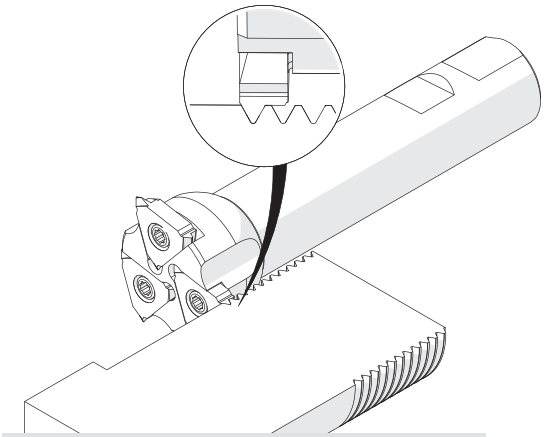


Image shows exemplary application possibility with similar tool.

Drawing shows: M14.MT30.02 EM R

Pitch (as of) mm	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	R mm	h3 mm	b mm	S mm	Number of cutting edges	Connectcode www.simtek.com/ccode
1,5	**M14.MT15.02 EM R**	AQ6A	X800 GT42	0,22	0,92	5,25	4,4	3	M14.R.6.0
2,0	**M14.MT20.02 EM R**	AQ6C	X800 GT42	0,29	1,23	5,25	4,2	3	M14.R.6.0
2,5	**M14.MT25.02 EM R**	AT90	X800 GT42	0,36	1,53	5,25	3,9	3	M14.R.6.0
3,0	**M14.MT30.02 EM R**	AQ6E	X800 GT42	0,43	1,84	5,25	3,7	3	M14.R.6.0
3,5	**M14.MT35.02 EM R**	ASZ5	X800 GT42	0,52	2,15	5,25	3,5	3	M14.R.6.0
4,0	**M14.MT40.02 EM R**	AQ6G	X800 GT42	0,58	2,45	5,25	3,3	3	M14.R.6.0
4,5	**M14.MT45.02 EM R**	AS0A	X800 GT42	0,65	2,76	5,25	3,1	3	M14.R.6.0
5,0	**M14.MT50.02 EM R**	AQ6K	X800 GT42	0,72	3,06	5,85	3,4	3	M14.R.6.0
5,5	**M14.MT55.02 EM R**	AS0B	X800 GT42	0,78	3,37	7,6	4,8	3	M14.R.7.0
6,0	**M14.MT60.02 EM R**	AS0C	X800 GT42	0,87	3,68	7,6	4,6	3	M14.R.7.0

Order example: **M14.MT50.02 EM R X800** (R = Right hand version, X800 = Grade)

More information about the **multi-purpose thread milling tools** and the **thread size suitability** can be found on page 204

Thread milling, metric ISO-Thread, internal, full profile

Thread milling of metric ISO-thread, full profile.

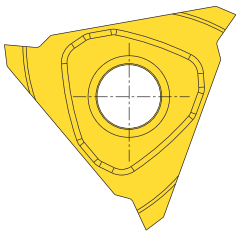
Cutting parameters (start)		
fzm **0,04 mm**	hmax **0,05 mm**	Vc **Page 192**

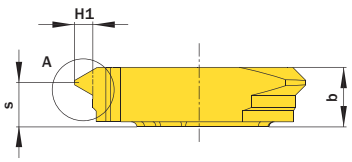
Suitable toolholders on page
168, 169, 170, 171

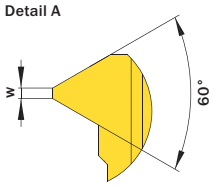
Please read add. notes
ALL (Page 199)

SP HM R Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/936**







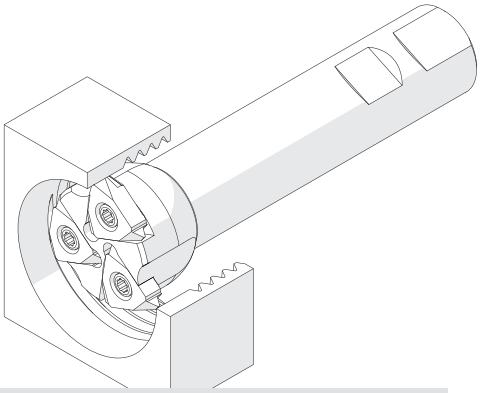


Image shows exemplary application possibility with similar tool.

Drawing shows: M14.MT30.02 IM R

Pitch (as of) mm	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	H1 mm	b mm	S mm	w mm	Number of cutting edges	Connectcode www.simtek.com/ccode
1,5	**M14.MT15.02 IM R**	AT6J	X800 GT42	0,81	5,25	4,4	0,19	3	M14.R.6.0
2,0	**M14.MT20.02 IM R**	AT6K	X800 GT42	1,08	5,25	4,2	0,25	3	M14.R.6.0
3,0	**M14.MT30.02 IM R**	AT6M	X800 GT42	1,62	5,25	3,9	0,38	3	M14.R.6.0
3,5	**M14.MT35.02 IM R**	AT6N	X800 GT42	1,89	5,25	3,7	0,44	3	M14.R.6.0
4,0	**M14.MT40.02 IM R**	AT6P	X800 GT42	2,17	5,35	3,5	0,5	3	M14.R.6.0
4,5	**M14.MT45.02 IM R**	AT6Q	X800 GT42	2,44	5,25	3,3	0,56	3	M14.R.6.0
5,0	**M14.MT50.02 IM R**	AT6S	X800 GT42	2,71	5,85	3,8	0,62	3	M14.R.6.0
5,5	**M14.MT55.02 IM R**	AT6T	X800 GT42	2,98	5,85	3,6	0,69	3	M14.R.6.0
6,0	**M14.MT60.02 IM R**	AT6U	X800 GT42	3,25	7,6	5,2	0,75	3	M14.R.7.0

Order example: **M14.MT60.02 IM R X800** (R = Right hand version, X800 = Grade)

simmill MX
SIMTEK Milling Tools Type MX

Thread milling, External applications, UN Full Profile

Thread milling of UN-threads, full profile, for external application.

Cutting parameters (start)		
fzm	hmax	Vc
0,04 mm	**0,05 mm**	**Page 192**

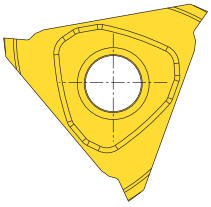
Suitable toolholders on page
168, 169, 170, 171

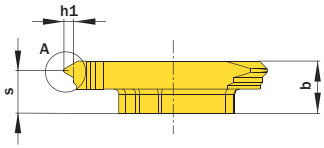
Please read add. notes
ALL (Page 199)

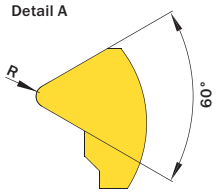
SP HM R Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/875**

This page contains inch tools! These tools are indicated by **inch** on the right hand side.







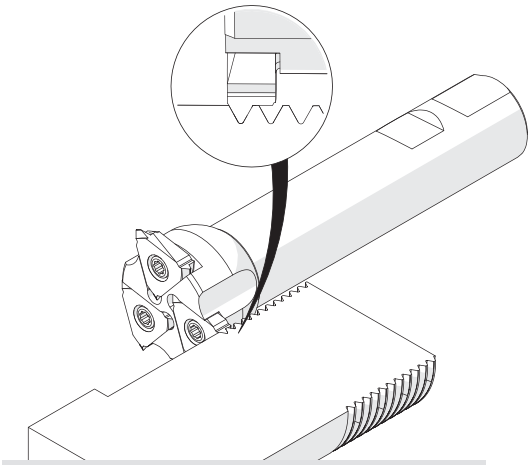


Image shows exemplary application possibility with similar tool.

Drawing shows: M14.UN16.02 MR

Threads/inch	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	b inch	h1 inch	R inch	S inch	Number of cutting edges	Connectcode www.simtek.com/ccode	
4	**M14.UN04.02 MR**	AS0F	X800 GT42	0.299“	0.154“	0.036“	0.173“	3	M14.R.7.0	inch
6	**M14.UN06.02 MR**	AS0E	X800 GT42	0.299“	0.102“	0.024“	0.209“	3	M14.R.7.0	inch
8	**M14.UN08.02 MR**	AS0D	X800 GT42	0.203“	0.077“	0.018“	0.134“	3	M14.R.6.0	inch
10	**M14.UN10.02 MR**	AS1D	X800 GT42	0.203“	0.061“	0.015“	0.142“	3	M14.R.6.0	inch
11	**M14.UN11.02 MR**	AS1C	X800 GT42	0.203“	0.056“	0.013“	0.154“	3	M14.R.6.0	inch
12	**M14.UN12.02 MR**	AS1B	X800 GT42	0.203“	0.051“	0.012“	0.154“	3	M14.R.6.0	inch
14	**M14.UN14.02 MR**	AS1A	X800 GT42	0.203“	0.044“	0.010“	0.157“	3	M14.R.6.0	inch
16	**M14.UN16.02 MR**	AS09	X800 GT42	0.203“	0.038“	0.009“	0.157“	3	M14.R.6.0	inch
18	**M14.UN18.02 MR**	AS08	X800 GT42	0.203“	0.034“	0.008“	0.165“	3	M14.R.6.0	inch
20	**M14.UN20.02 MR**	ASZ8	X800 GT42	0.203“	0.031“	0.007“	0.165“	3	M14.R.6.0	inch

Order example: **M14.UN12.02 MR X800** (R = Right hand version, X800 = Grade)

simmill MX
SIMTEK Milling Tools Type MX

Thread milling, Internal applications, UN Full Profile

Thread milling of UN-threads, full profile, for internal application.

Cutting parameters (start)		
fzm **0,04 mm**	hmax **0,05 mm**	Vc **Page 192**

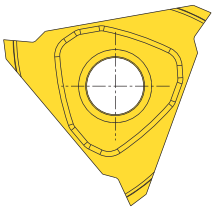
Suitable toolholders on page
168, 169, 170, 171

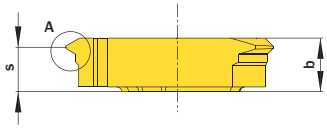
Please read add. notes
ALL (Page 199)

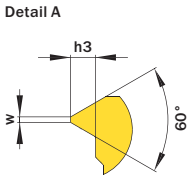
SP HM R Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/937**

This page contains inch tools! These tools are indicated by **inch** on the right hand side.







Drawing shows: M14.UN14.02 IM R

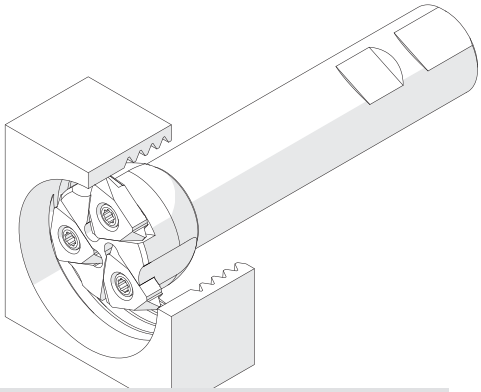


Image shows exemplary application possibility with similar tool.

Threads/inch	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	h3 inch	b inch	S inch	w inch	Number of cutting edges	Connectcode www.simtek.com/ccode	
4	**M14.UN04.02 IM R**	AT7A	X800 GT42	0.135“	0.299“	0.197“	0.031“	3	M14.R.7.0	inch
6	**M14.UN06.02 IM R**	AT7B	X800 GT42	0.090“	0.207“	0.134“	0.020“	3	M14.R.6.0	inch
8	**M14.UN08.02 IM R**	AT7C	X800 GT42	0.068“	0.215“	0.150“	0.015“	3	M14.R.6.0	inch
10	**M14.UN10.02 IM R**	AT7D	X800 GT42	0.054“	0.207“	0.157“	0.013“	3	M14.R.6.0	inch
11	**M14.UN11.02 IM R**	AT7E	X800 GT42	0.049“	0.207“	0.165“	0.011“	3	M14.R.6.0	inch
12	**M14.UN12.02 IM R**	AT7F	X800 GT42	0.045“	0.207“	0.165“	0.010“	3	M14.R.6.0	inch
14	**M14.UN14.02 IM R**	AT7G	X800 GT42	0.039“	0.207“	0.173“	0.009“	3	M14.R.6.0	inch
16	**M14.UN16.02 IM R**	AT7H	X800 GT42	0.034“	0.207“	0.173“	0.007“	3	M14.R.6.0	inch
18	**M14.UN18.02 IM R**	AT7J	X800 GT42	0.030“	0.207“	0.177“	0.007“	3	M14.R.6.0	inch
20	**M14.UN20.02 IM R**	AT7K	X800 GT42	0.027“	0.207“	0.181“	0.006“	3	M14.R.6.0	inch

Order example: **M14.UN12.02 IM R X800** (R = Right hand version, X800 = Grade)

General groove milling

General groove milling. For use in all materials.

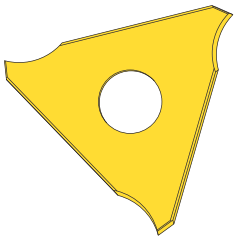
Suitable toolholders on page
172, 173

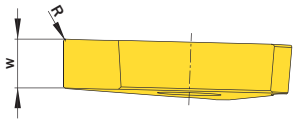
Please read add. notes
ALL (Page 199)

SP HM R Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/1130**

Compatible milling cutters can be found on pages **172** and **173**





Drawing shows: MM4.08.0430.02 GR

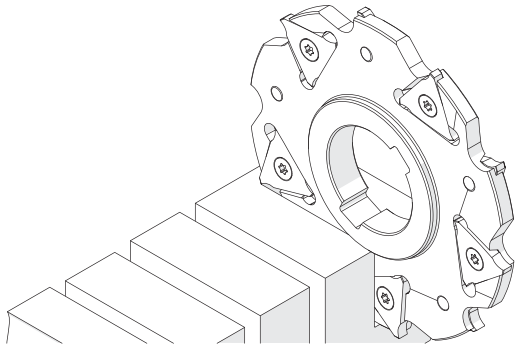


Image shows exemplary application possibility with similar tool.

w +0,02 mm	R mm	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	Number of cutting edges	Connectcode www.simtek.com/ccode
▼ w = 3,2 mm						
3,2	0,2	**MM4.06.0320.02 GR/L**	R AYKP L AYKN	X800 GT42	3	MM4.82.3.2
▼ w = 4,3 mm						
4,3	0,2	**MM4.08.0430.02 GR/L**	R AYKS L AYKQ	X800 GT42	3	MM4.82.4.3
▼ w = 5,45 mm						
5,45	0,2	**MM4.10.0545.02 GR/L**	R AYKU L AYKT	X800 GT42	3	MM4.82.5.4
▼ w = 6,5 mm						
6,5	0,2	**MM4.12.0650.02 GR/L**	R AYKW L AYKV	X800 GT42	3	MM4.82.6.5

Order example: **MM4.06.0320.02 GR X800** (R = Right hand version, X800 = Grade)

General groove milling

General groove milling. For use in all materials.

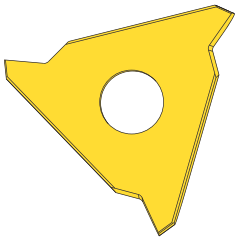
Suitable toolholders on page
172, 173

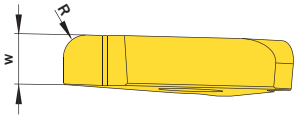
Please read add. notes
ALL (Page 199)

SP HM R Legend **203**

Scan QR-Code Or Visit **www.simtek.info/cp/1212**

Compatible milling cutters can be found on pages **172** and **173**





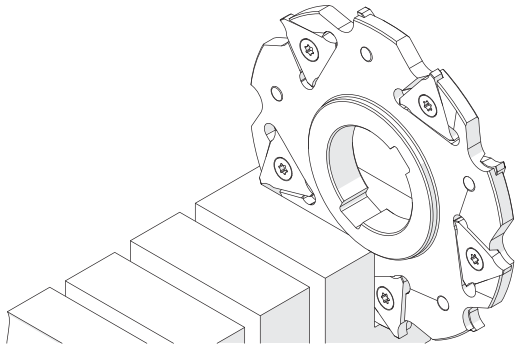


Image shows exemplary application possibility with similar tool.

Drawing shows: MM4.08.0430.20 G R

w mm	R mm	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	Number of cutting edges	Connectcode www.simtek.com/ccode
▼ w = 3,26 mm						
3,26	2,0	**MM4.06.0320.20 GR/L**	R AZN7 L AZN6	X800 GT42	3	MM4.82.3.2
▼ w = 4,36 mm						
4,36	2,0	**MM4.08.0430.20 GR/L**	R AZPB L AZPA	X800 GT42	3	MM4.82.4.3
▼ w = 4,38 mm						
4,38	2,5	**MM4.08.0430.25 GR/L**	R AZN9 L AZN8	X800 GT42	3	MM4.82.4.3
▼ w = 5,52 mm						
5,52	2,0	**MM4.10.0545.20 GR/L**	R AZPD L AZPC	X800 GT42	3	MM4.82.5.4
▼ w = 5,53 mm						
5,53	2,5	**MM4.10.0545.25 GR/L**	R AZPG L AZPE	X800 GT42	3	MM4.82.5.4
▼ w = 5,59 mm						
5,59	4,0	**MM4.10.0545.40 GR/L**	R AZPH L AZPJ	X800 GT42	3	MM4.82.5.4
▼ w = 6,59 mm						
6,59	2,5	**MM4.12.0650.25 GR/L**	R AZPM L AZPK	X800 GT42	3	MM4.82.6.5
▼ w = 6,65 mm						
6,65	4,0	**MM4.12.0650.40 GR/L**	R AZPP L AZPN	X800 GT42	3	MM4.82.6.5

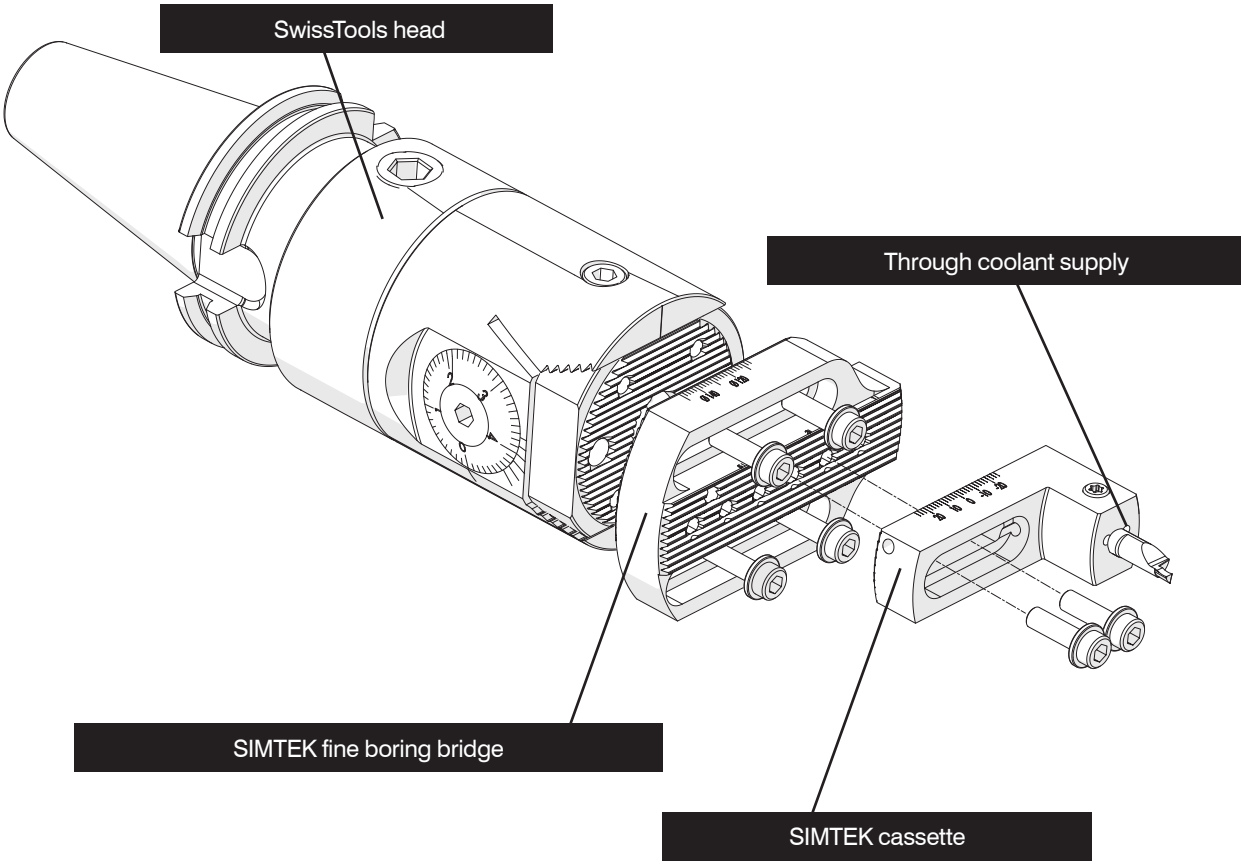
Order example: **MM4.10.0545.40 GR X800** (R = Right hand version, X800 = Grade)

simmill OS
SIMTEK Precision Fine Boring Tools Type OS

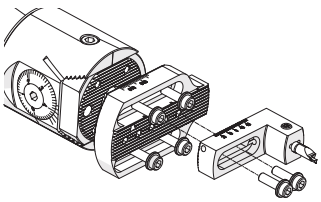
The Tool System Overview

Fine Boring as of Ø 0,3 mm (0.012“) and Face Grooving as of Ø 6,2 mm (0.244“).

The Tool System in Detail



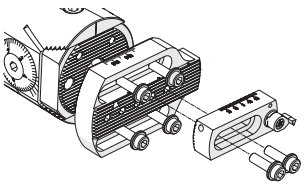
Available cassettes and applications



For simturn AX inserts

Diameter range: Ø 0,3 (0.012“) - Ø 149,0 mm (5.866“)
Connectcode: A06R

For simturn AX cutting tools with connectcode A04.R, A04C.R and A06.R, see Page **60 - 123**



For simturn DX inserts

Diameter range: Ø 14,0 (0.551“) - Ø 160,0 mm (6.299“)
Connectcode: D14 | D14.A.R

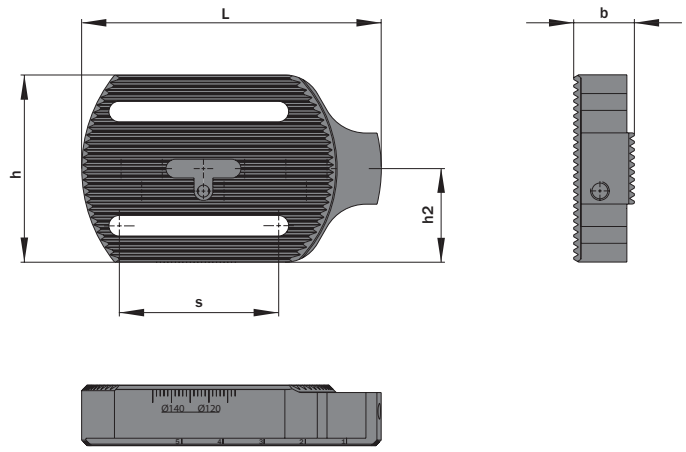
Cutting inserts on page:
26, 61, 62, 63, 64

Adaptor „SIMTEK/SwissTools“

Adaptor for SwissTools-Heads „B10...“.

TW ST Legend 203

Scan QR-Code Or Visit www.simtek.info/cp/961



Drawing shows: MOS.STA.B10.080

L	Part number	Webcode www.simtek.com/webcode	b	h	h2	S	Connectcode www.simtek.com/ccode
mm			mm	mm	mm	mm	
80,0	**MOS.STA.B10.080**	AU6X	16,2	50,0	25,0	42,5	MOS

Order example: **MOS.STA.B10.080**

Cassette „A04“ and „A06“

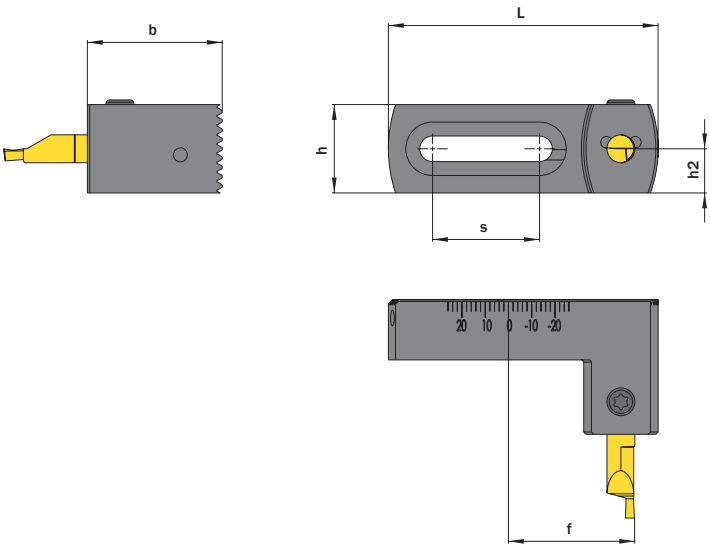
For simturn A04 and A06-cutting inserts.
Suitable adaptor: „MOS.STA...“.

Tightening torque (screw)
7,0 Nm

Please read add. notes
ALL (Page 199)

TW ST | Legend **203**

Scan **QR-Code** | Or Visit **www.simtek.info/cp/963**



Drawing shows: MOS.STK.A06.A

L mm	Part number	Webcode www.simtek.com/iwebcode	b mm	f mm	h mm	h2 mm	S mm	Screw	Screw driver	Connectcode www.simtek.com/ccode
58,0	**MOS.STK.A04.A**	AVFY	29,0	26,12	19,0	9,5	23,0	A M6x7,5 T15F	T15F	A04.R | A04C.R
58,0	**MOS.STK.A06.A**	AU6Y	29,0	27,13	19,0	9,5	23,0	A M6x7,5 T15F	T15F	A06.R

Order example: **MOS.STK.A06.A**

Cassette „D14“

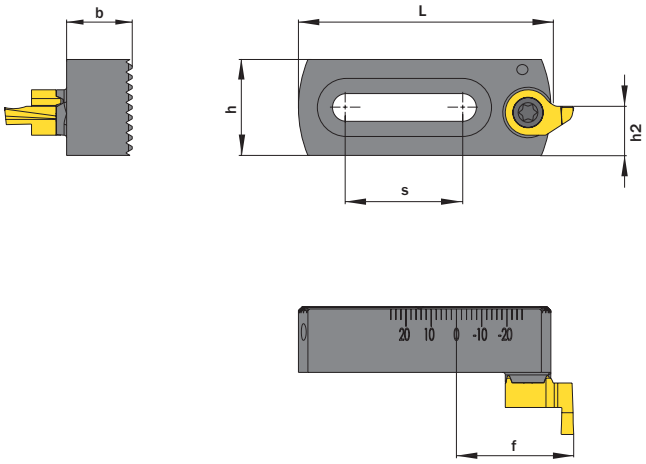
For simturn D14-cutting inserts. Suitable adaptor: „MOS.STA...“.

Tightening torque (screw)
6,0 Nm

Please read add. notes
ALL (Page 199)

TW ST | Legend **203**

Scan **QR-Code** | Or Visit **www.simtek.info/cp/962**



Drawing shows: MOS.STK.D14.A

L	Part number	Webcode www.simtek.com/iwebcode	b	f	h	h2	S	Screw	Screw driver	Connectcode www.simtek.com/ccode
mm			mm	mm	mm	mm	mm			
50,0	**MOS.STK.D14.A**	AU6Z	13,0	22,67	19,0	9,5	23,0	M M5x13 T20R	T20R	D14 | D14.A.R

Order example: **MOS.STK.D14.A**

Toolholder / Adapter, For Internal Applications

Adapter for simmill OS D07 or simmill OS D10 inserts on precium fine boring units. Anti-vibration solid carbide round shank toolholder with through coolant.

Tightening torque (screw)

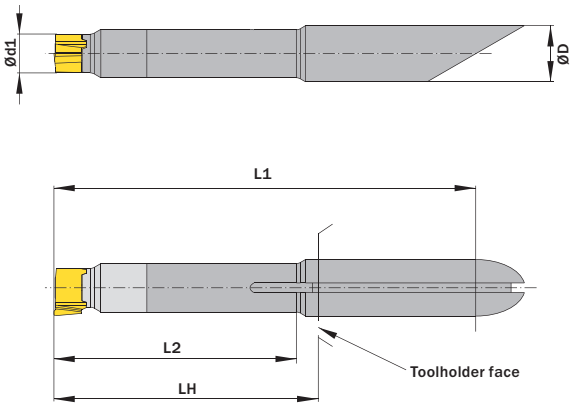
"D M2x7,5 T7F": 1,2 Nm
"D M3x9 T9F": 2,1 Nm

Please read add. notes
ALL (Page 199)

TW HM | Legend **203**

Scan **QR-Code** | Or Visit **www.simtek.info/cp/1059**

More information on www.precium.de



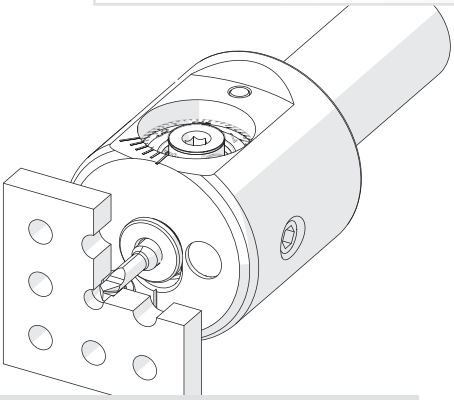


Image shows exemplary application possibility with similar tool.

Drawing shows: D07.A07.30 HM

ØD h6 mm	L2 mm	Part number	Webcode www.simtek.com/webcode	Ød1 mm	ØDmin (min. bore) mm	L1 mm	LH mm	Screw	Screw driver	Connectcode www.simtek.com/ccode
▼ L2 = 30,0 mm										
7,0	30,0	**D07.A07.30 HM**	AW1M	4,8	6,9	52,2	33,0	D M2x7,5 T7F	T7F	MOS.D07
▼ L2 = 35,0 mm										
7,0	35,0	**D10.A07.35 HM**	AW1S	7,0	9,9	57,2	38,0	D M3x9 T9F	T9F	MOS.D10
▼ L2 = 50,0 mm										
7,0	50,0	**D10.A07.50 HM**	AX0T	7,0	9,9	72,2	53,0	D M3x9 T9F	T9F	MOS.D10

Order example: **D10.A07.35 HM**

Fine Boring

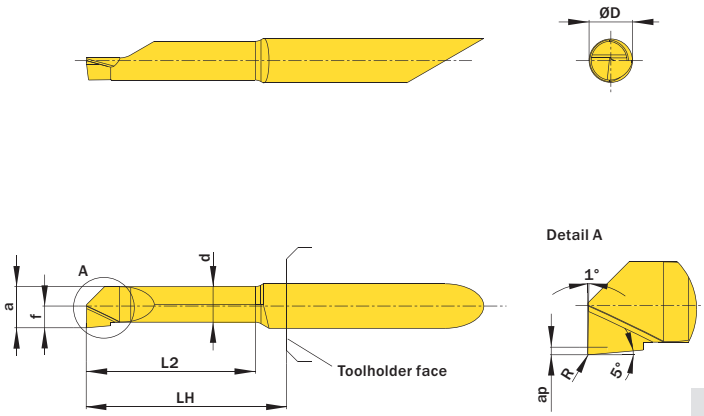
Fine boring on precium fine boring units.

Please read add. notes
ALL (Page 199)

SP HM | R | Legend 203

Scan QR-Code | Or Visit **www.simtek.info/cp/1009**

More information on www.precium.de



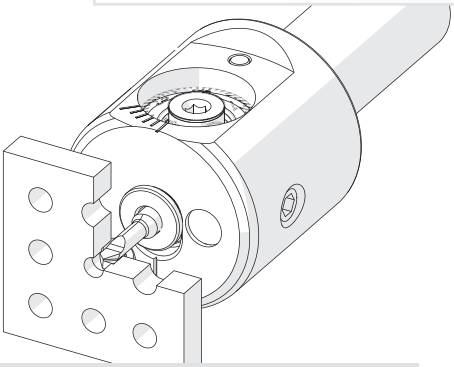


Image shows exemplary application possibility with similar tool.

Drawing shows: A04.0195.15.39.05 Y R

ØD mm	L2 mm	ØDmin (min. bore) mm	R mm	AXC	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	a mm	d mm	f mm	LH mm	ap mm	Connectcode www.simtek.com/ccode
▼ ØDmin (min. bore) = 0,3 mm													
4,0	1,2	0,3	-	0	**A04.0010.01.03.00 YR**	AW08	X800 GT42	0,25	0,19	0,15	13,0	0,03	MOS.A04.R
▼ ØDmin (min. bore) = 0,6 mm													
4,0	2,5	0,6	-	0	**A04.0025.02.06.00 YR**	AW09	X800 GT42	0,55	0,46	0,3	13,0	0,05	MOS.A04.R
▼ ØDmin (min. bore) = 1,0 mm													
4,0	4,0	1,0	0,05	0	**A04.0045.04.10.05 YR**	AW1A	X800 GT42	0,95	0,8	0,5	13,0	0,1	MOS.A04.R
4,0	6,0	1,0	0,05	0	**A04.0045.06.10.05 YR**	AX0U	X800 GT42	0,95	0,8	0,5	13,0	0,1	MOS.A04.R
▼ ØDmin (min. bore) = 2,2 mm													
4,0	6,0	2,2	0,05	1	**A04.0095.06.22.05 YR**	AW1B	X800 GT42	2,0	1,55	1,1	13,0	0,2	MOS.A04.R
4,0	9,0	2,2	0,05	1	**A04.0095.09.22.05 YR**	AX0V	X800 GT42	2,0	1,55	1,1	13,0	0,2	MOS.A04.R
▼ ØDmin (min. bore) = 3,2 mm													
4,0	10,2	3,2	0,05	1	**A04.0145.10.32.05 YR**	AW1C	X800 GT42	3,0	2,55	1,6	13,0	0,2	MOS.A04.R
4,0	15,2	3,2	0,05	1	**A04.0145.15.32.05 YR**	AX0W	X800 GT42	3,0	2,55	1,6	18,0	0,2	MOS.A04.R
4,0	20,3	3,2	0,05	1	**A04.0145.20.32.05 YR**	AX0X	X800 GT42	3,0	2,55	1,6	23,0	0,2	MOS.A04.R
▼ ØDmin (min. bore) = 3,9 mm													
4,0	15,2	3,9	0,05	1	**A04.0195.15.39.05 YR**	AW1D	X800 GT42	3,7	3,2	1,95	18,0	0,3	MOS.A04.R
4,0	20,3	3,9	0,05	1	**A04.0195.20.39.05 YR**	AX0Y	X800 GT42	3,7	3,2	1,95	23,0	0,3	MOS.A04.R
4,0	25,4	3,9	0,05	1	**A04.0195.25.39.05 YR**	AX0Z	X800 GT42	3,7	3,2	1,95	28,0	0,3	MOS.A04.R
▼ ØDmin (min. bore) = 5,2 mm													
7,0	20,3	5,2	0,05	1	**A07.0245.20.52.05 YR**	AW1E	X800 GT42	5,0	4,25	2,6	23,0	0,5	MOS.A07.R
7,0	25,4	5,2	0,05	1	**A07.0245.25.52.05 YR**	AX00	X800 GT42	5,0	4,25	2,6	28,0	0,5	MOS.A07.R
7,0	30,5	5,2	0,05	1	**A07.0245.30.52.05 YR**	AX01	X800 GT42	5,0	4,25	2,6	33,0	0,5	MOS.A07.R
▼ ØDmin (min. bore) = 6,2 mm													
7,0	20,3	6,2	0,05	1	**A07.0295.20.62.05 YR**	AW1F	X800 GT42	6,0	5,25	3,1	23,0	0,5	MOS.A07.R
7,0	25,4	6,2	0,05	1	**A07.0295.25.62.05 YR**	AX02	X800 GT42	6,0	5,25	3,1	28,0	0,5	MOS.A07.R
7,0	30,5	6,2	0,05	1	**A07.0295.30.62.05 YR**	AX03	X800 GT42	6,0	5,25	3,1	33,0	0,5	MOS.A07.R
▼ ØDmin (min. bore) = 6,9 mm													
7,0	25,4	6,9	0,2	1	**A07.0345.25.69.20 YR**	AW1G	X800 GT42	6,7	6,0	3,45	28,0	0,5	MOS.A07.R
7,0	30,5	6,9	0,2	1	**A07.0345.30.69.20 YR**	AX04	X800 GT42	6,7	6,0	3,45	33,0	0,5	MOS.A07.R
7,0	40,6	6,9	0,2	1	**A07.0345.40.69.20 YR**	AX05	X800 GT42	6,7	6,0	3,45	43,0	0,5	MOS.A07.R

Fine Boring

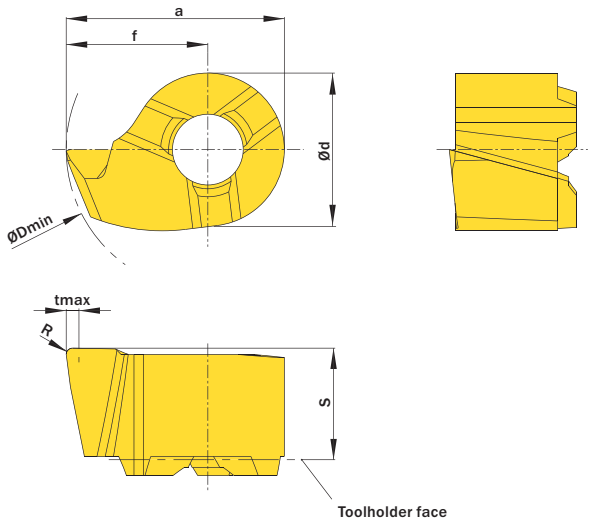
Fine boring on precium fine bore units.
Suitable adaptor on page 604.

Suitable toolholders on page
189

Please read add. notes
ALL (Page 199)

SP HM R Legend **203**

Scan **QR-Code** Or Visit **www.simtek.info/cp/1010**



Drawing shows: D07.0445.20.09 YR

More information on www.precium.de

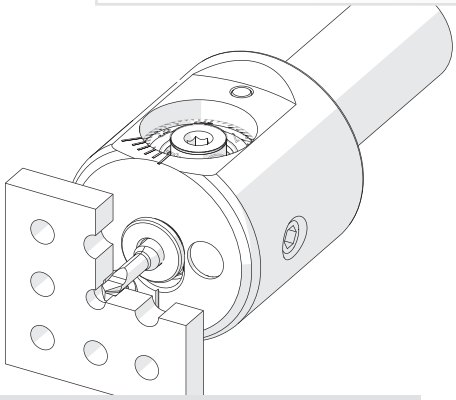


Image shows exemplary application possibility with similar tool.

f	R	ØDmin (min. bore)	Part number	Webcode www.simtek.com/webcode	Our first choice P M K N S	a	Ød	S	tmax	Connectcode www.simtek.com/ccode
mm	mm	mm				mm	mm	mm	mm	
▼ **ØDmin (min. bore) = 6,9 mm**										
3,45	0,2	6,9	**D07.0345.20.07 YR**	AW1H	X800 GT42	5,85	4,8	3,5	0,4	MOS.D07
▼ **ØDmin (min. bore) = 7,9 mm**										
3,95	0,2	7,9	**D07.0395.20.08 YR**	AW1J	X800 GT42	6,35	4,8	3,5	0,4	MOS.D07
▼ **ØDmin (min. bore) = 8,9 mm**										
4,45	0,2	8,9	**D07.0445.20.09 YR**	AW1K	X800 GT42	6,85	4,8	3,5	0,4	MOS.D07
▼ **ØDmin (min. bore) = 9,9 mm**										
4,95	0,2	9,9	**D10.0495.20.10 YR**	AW1N	X800 GT42	8,45	7,0	3,9	0,4	MOS.D10
▼ **ØDmin (min. bore) = 11,9 mm**										
5,95	0,2	11,9	**D10.0595.20.12 YR**	AW1P	X800 GT42	9,45	7,0	3,9	0,4	MOS.D10
▼ **ØDmin (min. bore) = 13,9 mm**										
6,95	0,2	13,9	**D10.0695.20.14 YR**	AW1Q	X800 GT42	10,45	7,0	3,9	0,4	MOS.D10

Order example: **D10.0695.20.14 YR X800** (R = Right hand version, X800 = Grade)

Appendix
TechData

Cutting speed recommendation

ISO-Group	Recommended Cutting Grade	Work piece material	Sub-group	Alternative cutting grade	Vc m/min (Start)
P	X800 X802 X804 X808	Steel, unalloyed	≤ 0,15 % C	*T57	300
			0,15 - 0,4 % C	*T57	270
			≥ 0,4 % C	*T57	250
		Steel, low alloyed (alloying elements ≤ 5%)	Non-hardened	*T57	240
			Hardened	*T57	140
		Steel, high alloyed (Alloying elements > 5%)	Annealed	*T57	160
			Hardened	*T57	130
		Castings	Unalloyed	*T57	220
			Low alloyed (Alloying elements ≤ 5%)	*T57	170
			High alloyed (Alloying elements > 5%)	*T57	130
M	X800 X802 X804 X808	Stainless Steel Ferritic/Martensitic	Non-hardened	*T57	210
			PH-hardened	*T57	150
			Hardened	*T57	150
		Stainless Steel Austenitic	Austenitic	*T57	200
			PH-hardened	*T57	140
			Super Austenitic	*T57	150
		Stainless Steel Austenitic-ferritic (Duplex)	Non-weldable ≥ 0,05 % C	*T57	170
			Weldable < 0,05 % C	*T57	140
		Stainless Steel (Cast) Ferritic/martensitic	Non-hardened	*T57	180
			PH-hardened	*T57	130
			Hardened	*T57	140
		Stainless Steel (Cast) Austenitic	Austenitic	*T57	190
			PH-gehärtet	*T57	130
		Stainless Steel (Cast) Austenitic-ferritic (Duplex)	Non-weldable ≥ 0,05 % C	*T57	160
			Weldable < 0,05 % C	*T57	130

Cutting speed recommendation

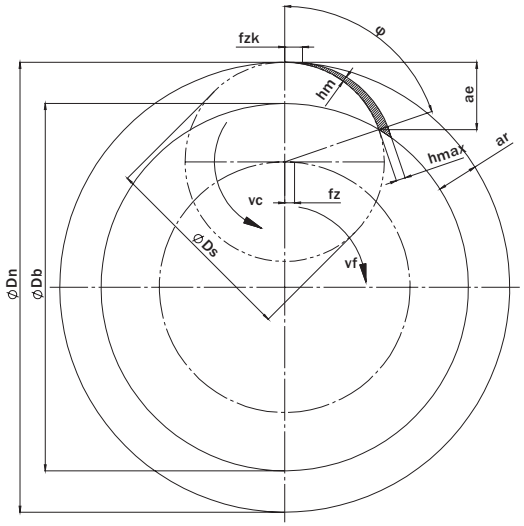
ISO-Group	Recommended Cutting Grade	Work piece material	Sub-group	Alternative cutting grade	Vc m/min (Start)
K	X800 X802 X804 X808	Malleable	Ferritic (short chipping)	*T57	250
			Pearlitic (long chipping)	*T57	210
		Grey Cast Iron	Low tensile strength	*T57	290
			High tensile strength	*T57	220
		Spheroidal Graphite cast iron	Ferritic	*T57	170
			Pearlitic	*T57	160
			Martensitic	*T57	110
N	X800 X802 X804 X808	Aluminium alloys, Whrought	Can not be hardened	*X17	840
			Can be hardened, hardened	*X17	750
		Aluminium alloys, Cast	Can not be hardened	*X17	840
			Can be hardened, hardened	*X17	750
		Aluminium alloys, Cast	< 16 % Si	PKD*	340
			≥ 16 % Si	PKD*	250
		Copper- and Copper Alloys	Free Cutting Alloys, ≥1 % Pb	*X17	420
			Brass, leaded bronzes, ≤ 1 % Pb	*X17	420
			Bronze, lead-free copper incl. electrolytic copper	*X17	300

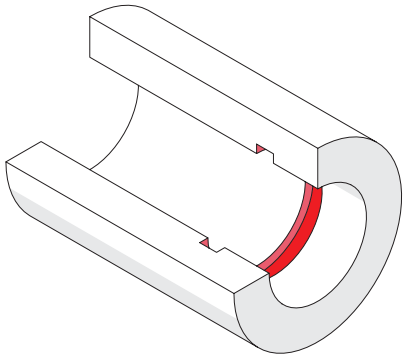
Cutting speed recommendation

ISO-Group	Recommended Cutting Grade	Work piece material	Sub-group	Alternative cutting grade	Vc m/min (Start)
S	GT42	Heat-resistant super alloys Fe-based	Annealed or solution treated	*T57	60
			Aged or solution treated and aged	*T57	40
		Heat-resistant super alloys Ni-based	Annealed or solution treated	*T57	50
			Aged or solution treated and aged	*T57	30
			Cast or Cast and aged	*T57	40
		Heat-resistant super alloys Co-based	Annealed or solution treated	*T57	20
			Solution treated and aged	*T57	15
			Cast or Cast and aged	*T57	15
		Titanium Alloys	Commercial pure (99,5 % Ti)	*T57	110
			α, near α and α + β alloys, annealed	*T57	60
			α+β Alloys in aged conditions as well as β alloys. Annealed or aged.	*T57	50
H	GT42	Tempered and hardened steel		*T91	70
		Chilled cast iron, cast or cast and aged		*T91	130

Info

Cutting data calculation for internal groove milling by circular interpolation





Calculating the actual depth of cut

$ae = (Dn^2 - Db^2)/4(Dn-Ds)$

Calculating the feed rate per cutting edge

$\varphi = \arccos(1-(2(ae/Ds)))$

$fz = (hmax*Ds*\pi*\varphi)/(720°*ae)$

Calculating the feed of tool center

$n = vc/(\pi*Ds)$

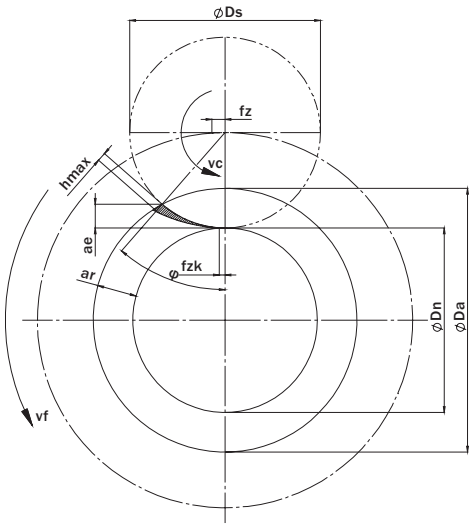
$vf = fz*z*n$

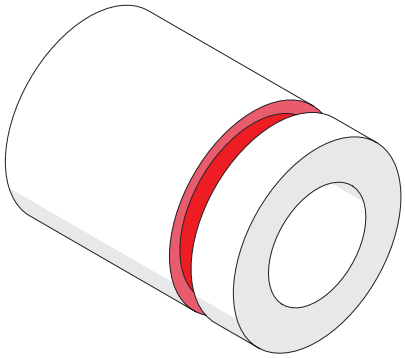
$vf_{eff} = (fz*z*n*Dn)/(Dn-Ds)$

$fzk = vf_{eff}/(z*n)$

ae Actual depth of cut
φ Angle of engagement
fz Feed per cutting edge
n Revolutions per minute
vf Feed rate of tool center
vf_{eff} Actual feed rate
fzk Feed per cutting edge on the groove bottom

Cutting data calculation for external groove milling by circular interpolation





Calculating the actual depth of cut

$$ae = (Da^2-Dn^2)/4(Da+Ds)$$

Calculating the feed rate per cutting edge

$$\varphi = \arccos(1-(2(ae/Ds)))$$

$$fz = (hmax*Ds*\pi*\varphi)/(720°*ae)$$

Calculating the feed of tool center

$$n = vc/(\pi*Ds)$$

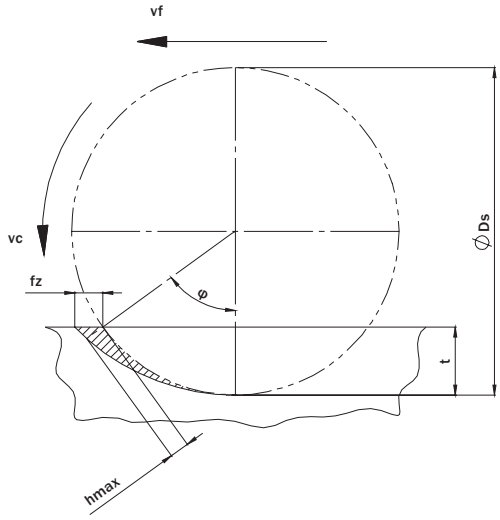
$$vf = fz*z*n$$

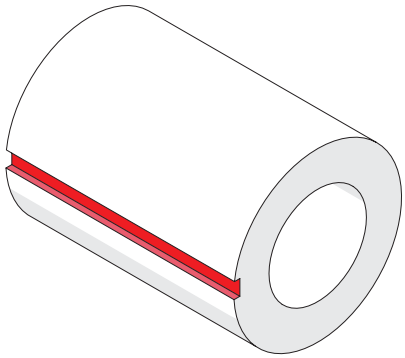
$$vf_{eff} = (fz*z*n*Dn)/(Dn+Ds)$$

$$fzk = vf_{eff}/(z*n)$$

ae	Actual depth of cut
φ	Angle of engagement
fz	Feed per cutting edge
n	Revolutions per minute
vf	Feed rate of tool center
vf_{eff}	Actual feed rate
fzk	Feed per cutting edge on the groove bottom

Cutting data calculation for linear groove milling





Calculating the feed rate per cutting edge

φ	=	arccos(1-(2(t/Ds)))
fz	=	(hmax*Ds*π*φ)/(720°*t)

Calculating the feed of tool center

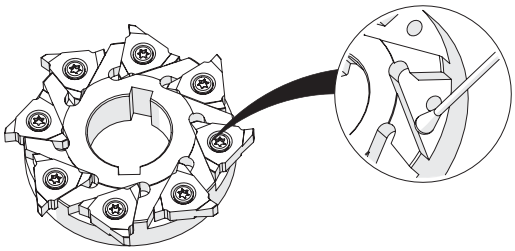
n	=	vc/(π*Ds)
vf	=	fz*z*n

φ	Angle of engagement
fz	Feed per cutting edge
n	Revolutions per minute
vf	Feed rate of tool center
hmax	Maximum chip thickness

Additional information

ALL

Cleaning



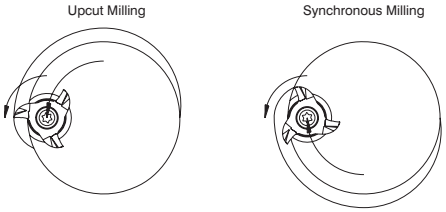
Please clean insert seat well before use.

Stock and price info

Available grades, stock and prices can be found up-to-date on www.simtek.com/webcode/ as well as in the latest price list.

Please use the webcode which is given on the catalog page.

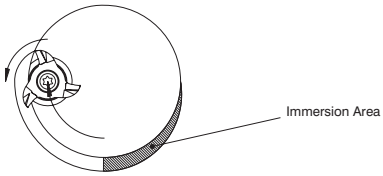
Milling method



Tool movement shown.

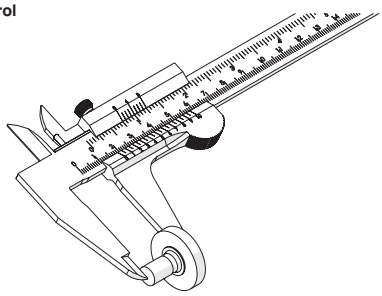
The **synchronous milling** method is the recommended milling method for SIMTEK milling tools.

Immersion Loop



We recommend to immerse the groove with an immersion loop between 45° and 180° until the maximum groove depth is reached.

Control



Please control your work pieces frequently.

Cutting parameters

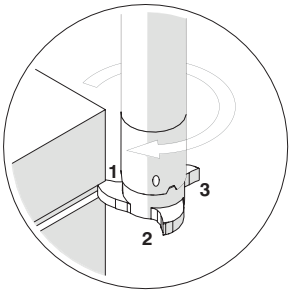
Cutting parameters (Start)	fzm *** mm	hmax *** mm	Vc Page ***

Given cutting parameters are ment as initial values.

The best values depend on a variety of criteria (for example the machine conditions) and can be higher or lower.

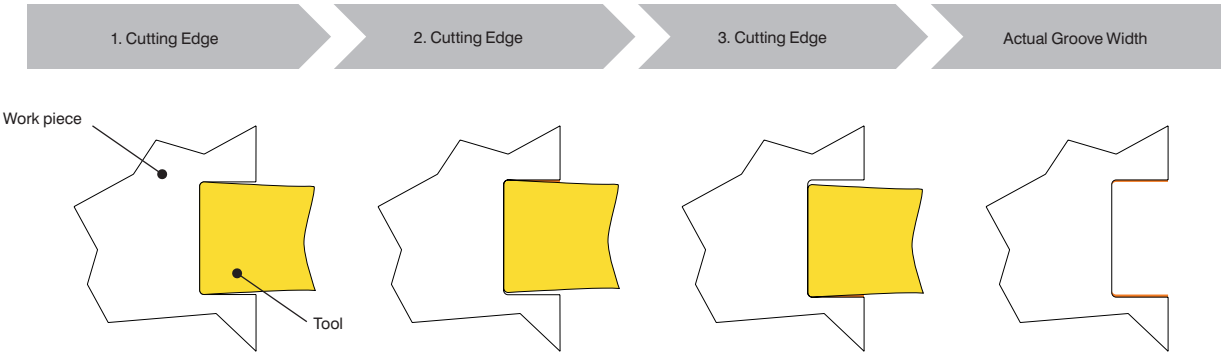
Additional information

H01



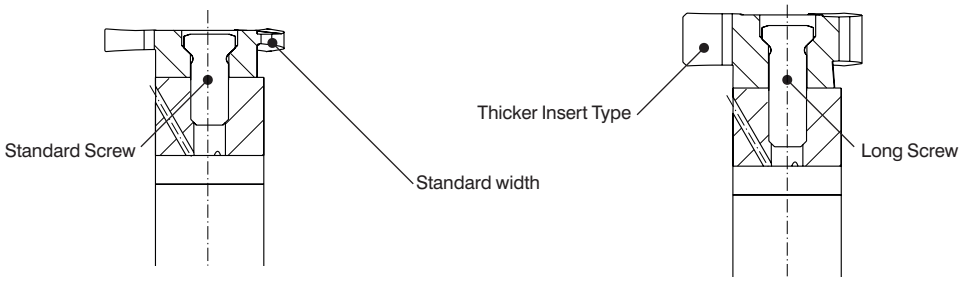
Please note that a design inherent circular run-out tolerance of up to 0,03 mm must be considered in addition to the given cutting edge width tolerance.

The actual groove width can be up to 0,03 mm wider than the given cutting edge width.



H02

The standard screw which is mounted on the standard milling cutter shanks is not long enough for this thicker insert type.
Please order the longer screw too in case of ordering this insert type.



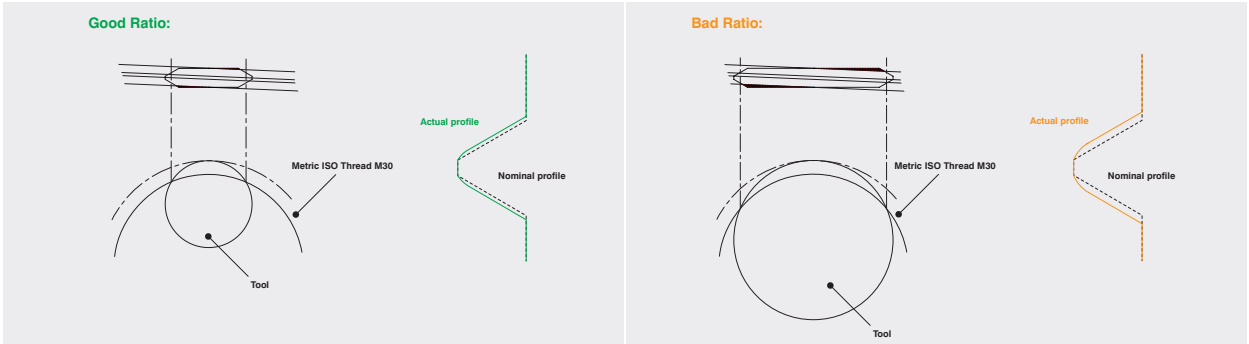
Connect code	Standard screw	Long screw
UD*	**U M4 x 12 T15F**	**U M4 x 16,6 T15F**
VD*	**V M5 x 12 T20T**	**V M5 x 16 T20T**

Additional information

H03

Thread milling by circular interpolation can cause thread profile violation. Please keep this possible profile violation in mind during the process of selecting a suitable tool. The tool diameter needs to be small enough compared to the core hole diameter. The pitch also needs to be considered here.

The following illustration shows a good ratio between core hole diameter and tool diameter on the left side and a bad ratio on the right side. The red areas indicate the profile violation. The left example would lead to an actual profile which is very close to the nominal profile:



Two general rules apply:
The bigger the core hole diameter is, the bigger the tool diam. can be.
The bigger the pitch is, the smaller the tool diam. should be.

The following table is an example showing the recommended maximum tool diameter in relation to the thread size and pitch:

		Metric ISO-Thread, partial profile										
		M12	M16	M20	M24	M27	M30	M36	M42	M48	M56	M60
Pitch	1	10,0	14,0	18,0	22,0	25,0	28,0	34,0	40,0	45,0	53,0	57,0
	1,5	8,0	12,0	16,0	20,0	24,0	26,0	32,0	37,0	43,0	51,0	55,0
	2	7,0	10,0	14,0	18,0	22,0	24,0	30,0	35,0	40,0	48,0	52,0
	2,5	6,0	8,0	12,0	16,0	20,0	22,0	28,0	32,0	37,0	45,0	48,0
	3	-	6,0	10,0	14,0	18,0	20,0	26,0	30,0	36,0	43,0	47,0
	3,5	-	-	-	12,0	16,0	18,0	24,0	29,0	35,0	42,0	46,0
	4	-	-	-	-	-	-	22,0	27,0	32,0	39,0	43,0
	4,5	-	-	-	-	-	-	-	24,0	30,0	37,0	40,0
	5	-	-	-	-	-	-	-	22,0	27,0	34,0	37,0
	5,5	-	-	-	-	-	-	-	20,0	25,0	31,0	35,0
	6	-	-	-	-	-	-	-	19,0	23,0	29,0	32,0

Values in mm.

A thread size recommendation is given on the catalog page next to every thread milling tool. In case of partial profile tools, this recommendation is based on the smaller pitch. The second (larger) pitch is possible in bigger diameters.

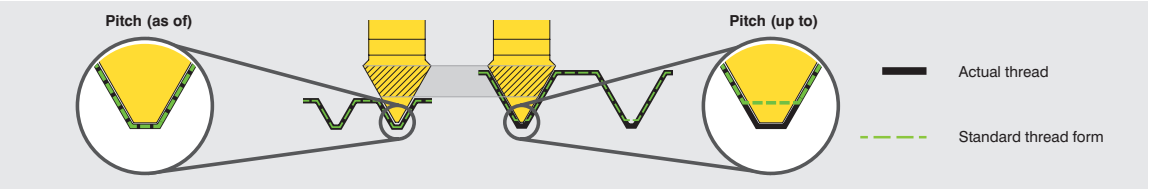
Additional information

H04

The simmill Groove Milling inserts with partial profile for metric ISO-threads are multi-purpose tools. This means that each insert is offering the possibility to machine different pitches.

The insert is always designed to meet the pitch given as
„Pitch (as of)“: Machining this pitch will result in a standard conform thread form.

The given „Pitch (up to)“ can be machined too with this insert at the expense of standard conformity: The resulting thread will be slightly deeper than the standard. The deeper thread is usually acceptable, but the application and use needs to be evaluated.

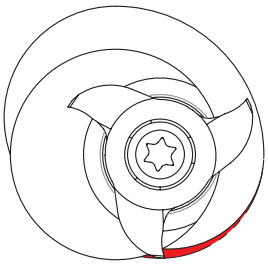


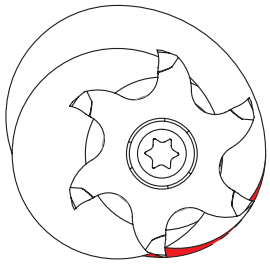
Example

H05

Please choose a good ratio between the diameter of the Milling insert and the workpiece bore diameter, when using milling inserts with 6 cutting edges. This can reduce the cutting pressure, depending on the application and work piece material. In case of doubt, the three edged model could be the best choice.

This example shows a three edged milling insert on the left side and a six edged milling insert on the right side - both with equal sizes and shown in the same bore diameter: The three edged model is permanently using 2 cutting edged while the six edged model is using up to 4 cutting edges at the same time.





Legend

SP HM **Carbide insert**

TW HM **Carbide toolholder**

TW SM **Heavy metal toolholder**

TW ST **Steel toolholder**

R **Right hand version shown, left hand version inversely**

Through coolant

LM **For light-alloys**

Only suitable for external applications

Only suitable for internal applications

Anti-vibration

Multi Purpose Thread Milling Tools

SIMTEK thread milling inserts with metric ISO partial profile are designed as multi-purpose-tools. This means that every tool is designed to provide standard conformity for one pitch and offers the possibility to machine higher pitches too at the expense of standard conformity: The thread will become slightly deeper than the standard. Please read notes H03 und H04.

This table shows the range of possible pitches for every item. The pitch with a green backbround indicates that the tool is designed for this pitch. Pitches with a dark grey background are machinable too. The table value indicates the recommended minimum nominal thread diameter (mm).

	Pitch (mm)																												
	0,50	0,60	0,70	0,80	0,90	1,00	1,10	1,20	1,25	1,30	1,40	1,50	1,60	1,70	1,75	1,80	1,90	2,00	2,50	2,75	3,00	3,50	3,75	4,00	4,50	5,00	5,50	6 ,00	6,50
MA3.MT15.01.15.06 M	>7,0	>7,5	>7,5	>8,0	>8,0	>8,0	>8,5	>8,5	>8,5	>8,5	>9,0	>9,0																	
MA3.MT15.01.25.08 M	>9,0	>9,5	>9,5	>10,0	>10,0	>10,0	>10,5	>10,5	>10,5	>11,0	>11,0	>11,0																	
MA3.MT20.01.25.08 M						>10,0	>10,5	>10,5	>10,5	>11,0	>11,0	>11,0	>11,5	>11,5	>11,5	>11,5	>11,5	>12,0											
MA3.MT15.01.15.250 M	>7,0	>7,5	>7,5	>8,0	>8,0	>8,0	>8,5	>8,5	>8,5	>8,5	>9,0	>9,0																	
MA3.MT15.01.25.312 M	>9,0	>9,5	>9,5	>10,0	>10,0	>10,0	>10,5	>10,5	>10,5	>11,0	>11,0	>11,0																	
MA3.MT20.01.25.312 M						>10,0	>10,5	>10,5	>10,5	>11,0	>11,0	>11,0	>11,5	>11,5	>11,5	>11,5	>11,5	>12,0											
P06.0510.01.10 M						>12,0	>13,0	>13,0	>13,0	>13,0	>13,0	>14,0	>14,0	>14,0	>14,0														
P06.0720.01.10 M						>13,0	>13,0	>13,0	>13,0	>13,0	>13,0	>14,0	>14,0	>14,0	>14,0	>14,0	>14,5	>15,0											
P06.0720.01.12 M						>14,0	>14,5	>14,5	>15,0	>15,0	>15,0	>15,0	>15,5	>15,5	>16,0	>16,0	>16,0	>16,0											
P06.0815.01.11 M												>15,0	>15,0	>15,0	>15,0	>15,0	>15,5	>16,0	>18,0	>18,0									
P06.2530.01.11 M																		>16,0	>18,0	>18,0	>19,0								
P12.0510.01 M						>14,0	>14,5	>14,5	>15,0	>15,0	>15,0	>15,0	>15,5	>15,5	>16,0														
P12.0720.01 M						>14,0	>14,5	>14,5	>15,0	>15,0	>15,0	>15,0	>15,5	>15,5	>16,0	>16,0	>16,0	>16,0											
P12.0815.01 M												>15,0	>15,5	>15,5	>16,0	>16,0	>16,0	>16,0	>17,0	>17,0									
P12.2530.01 M																		>16,0	>17,0	>17,0	>18,0								
S06.0510.01.12 M						>15,0	>15,0	>15,0	>15,0	>15,0	>15,5	>16,0	>16,0	>16,0	>16,0														
S06.0720.01.12 M						>15,0	>15,0	>15,0	>15,0	>15,5	>15,5	>16,0	>16,0	>16,0	>17,0	>17,0	>17,0	>17,0											
S06.0815.01.13 M												>17,0	>17,0	>17,0	>17,0	>17,5	>18,0	>18,0	>20,0	>21,0									
S06.2530.01.13 M																		>18,0	>20,0	>21,0	>21,0								
S16.0510.01 M						>18,0	>18,5	>19,0	>19,0	>19,0	>19,0	>20,0	>20,0	>20,0	>20,0														
S16.0720.01 M						>18,0	>18,5	>19,0	>19,0	>19,0	>19,0	>20,0	>20,0	>20,0	>20,0	>20,0	>20,0	>21,0											
S16.0815.01 M												>20,0	>20,0	>20,0	>20,0	>20,0	>20,0	>21,0	>21,0	>22,0									
S16.2530.01 M																			>21,0	>22,0	>22,0								
U06.0720.01.18 M						>20,5	>20,5	>21,0	>21,0	>21,0	>21,5	>21,5	>21,5	>22,0	>22,0	>22,0	>22,5	>22,5											
U06.2535.01.18 M																		>22,5	>23,5	>24,0	>24,0	>25,0							
U18.0510.01 M						>21,0	>21,0	>21,0	>21,0	>21,0	>22,0	>22,0	>22,0	>22,0	>22,0														
U18.0720.01 M						>21,0	>21,0	>21,0	>21,0	>21,0	>22,0	>22,0	>22,0	>22,0	>22,0	>22,0	>23,0	>23,0											
U18.0815.01 M												>22,0	>22,0	>22,0	>22,0	>22,0	>23,0	>23,0	>24,0	>24,0									
U18.1020.01 M																		>23,0	>24,0	>24,0	>24,0	>25,0	>26,0						
U18.1325.01 M																		>23,0	>24,0	>24,0	>24,0								
U18.1630.01 M																			>24,0	>24,0	>24,0	>25,0	>26,0	>26,0	>27,0	>28,0			
U18.1835.01 M																					>24,0	>25,0	>26,0	>26,0	>27,0	>28,0	>28,0		
U18.2535.01 M																		>23,0	>24,0	>24,0	>24,0	>25,0							
V06.0720.01.22 M						>25,0	>25,0	>25,0	>25,0	>25,0	>25,0	>25,0	>26,0	>26,0	>26,0	>27,0	>27,0	>27,0											
V06.2545.01.22 M																		>27,0	>28,0	>28,0	>29,0	>30,0	>30,0	>30,0	>31,0				
V06.1525.01.28 M												>32,0	>32,0	>32,0	>32,0	>33,0	>33,0	>33,0	>34,0										
V06.3050.01.28 M																			>34,0	>35,0	>35,0	>36,0	>36,0	>37,0	>38,0	>39,0			
V22.0720.01 M						>25,0	>25,0	>25,0	>25,0	>25,0	>26,0	>26,0	>26,0	>26,0	>26,0	>27,0	>27,0	>27,0											
V22.0815.01 M												>26,0	>26,0	>26,0	>26,0	>27,0	>27,0	>27,0	>28,0	>28,0									
V22.1020.01 M																		>27,0	>28,0	>28,0	>29,0	>30,0	>30,0						
V22.1630.01 M																			>28,0	>28,0	>29,0	>30,0	>30,0	>30,0	>31,0	>32,0			
V22.2140.01 M																						>30,0	>30,0	>30,0	>31,0	>32,0	>33,0	>34,0	
V22.2445.01 M																						>30,0	>30,0	>30,0	>31,0	>32,0	>33,0	>34,0	>34,0
V22.2545.01 M																			>28,0	>28,0	>29,0	>30,0	>30,0	>30,0	>31,0				
V28.0720.01 M						>31,0	>31,0	>31,0	>31,0	>31,0	>32,0	>32,0	>32,0	>32,0	>32,0	>33,0	>33,0	>33,0											
V28.1525.01 M												>32,0	>32,0	>32,0	>32,0	>33,0	>33,0	>33,0	>34,0										
V28.3050.01 M																			>34,0	>35,0	>35,0	>36,0	>36,0	>37,0	>38,0	>39,0			
V28.5060.01 M																								>37,0	>38,0	>39,0	>39,0	>40,0	

Multi-purpose milling inserts

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