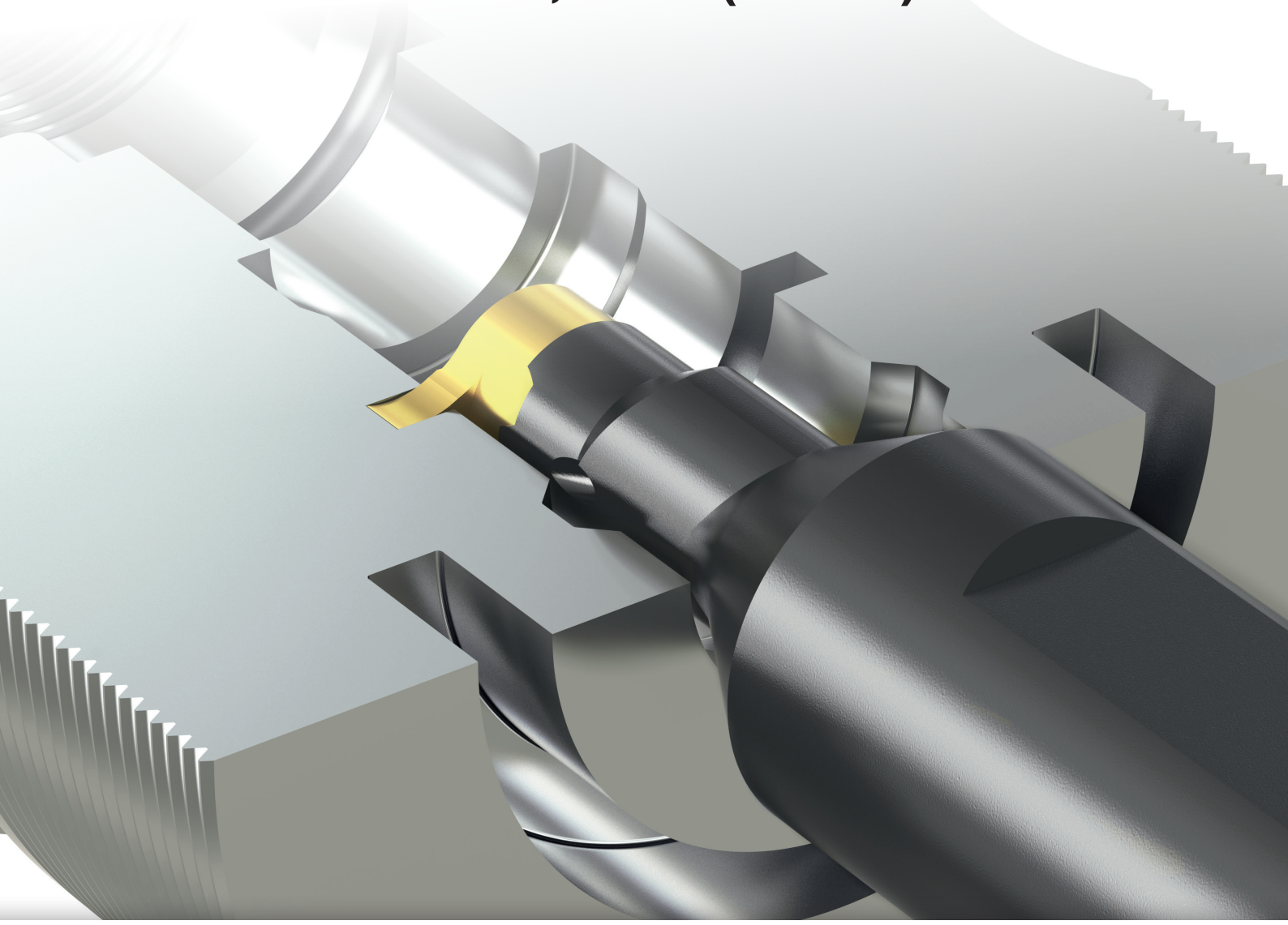
SIMTEK

Tools for
highest
expectations

Great **performance** in bores as of **Ø 7,0 mm (0.276")**



simturn DX

SIMTEK Small Part Machining Type DX

Part Catalog
R20 US-Edition

SIMTEK

Tools for
highest
expectations

Contact

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The Tool System Overview

Great **performance** in bores **as of Ø 7,0 mm (0.276")**

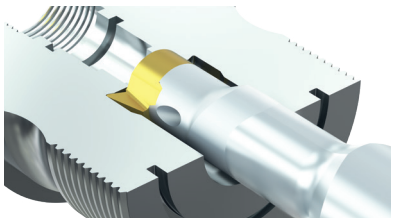
Choice of Applications

Boring · Copying · Chamfering · Back Boring · Grooving · Pre-Part-Off · Threading · Face Grooving

Overview of all applications as of page 7

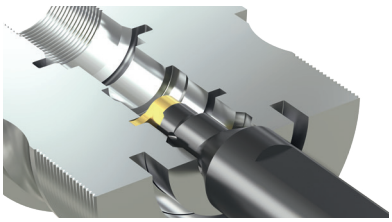
Main Applications

Boring



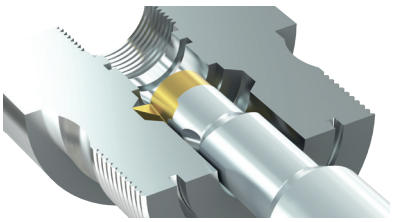
Boring applications as of bore diameter Ø 7,0 mm (0.276“). Available with special chip former as well as with CBN-grades for hard part turning.

Grooving

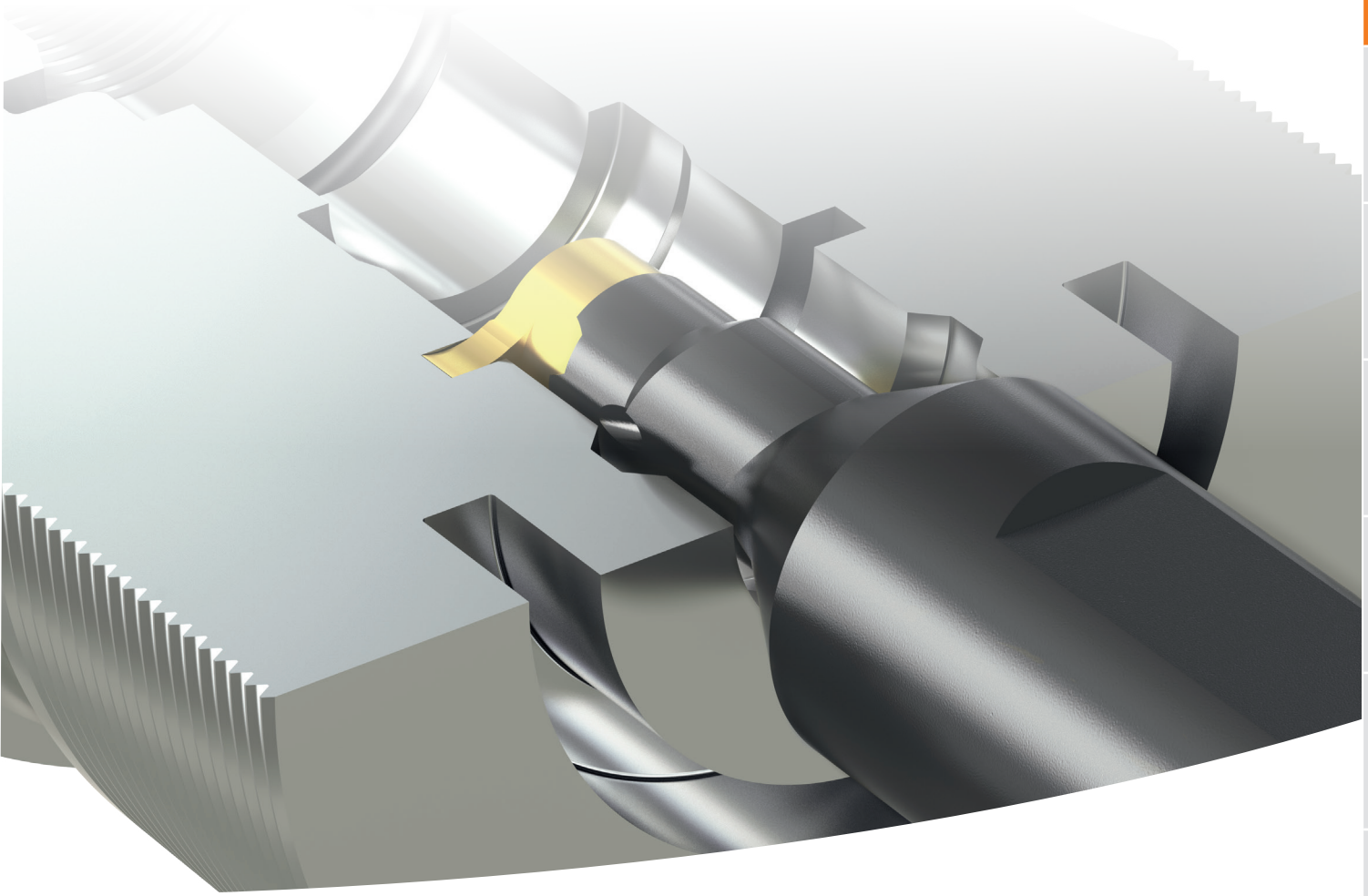


Wide range of tools for general grooving as well as for circlip ring grooving. Great variety in different tools sizes and cutting edge widths.

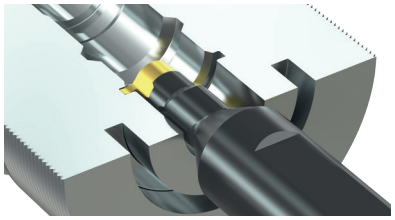
Copying



Optimally designed tools for copying and profiling in bores between Ø 7,0 mm (0.276“) and Ø 24,0 mm (0.945“). Available in all sizes of the system simturn DX.

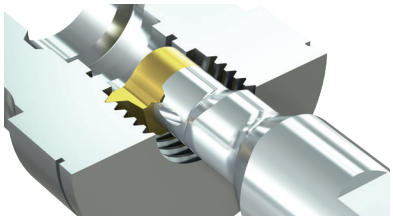


Grooving and Profiling



Tools for grooving and profiling. Besides the machining of a complex groove, the groove flanks can be profiled with the same tool.

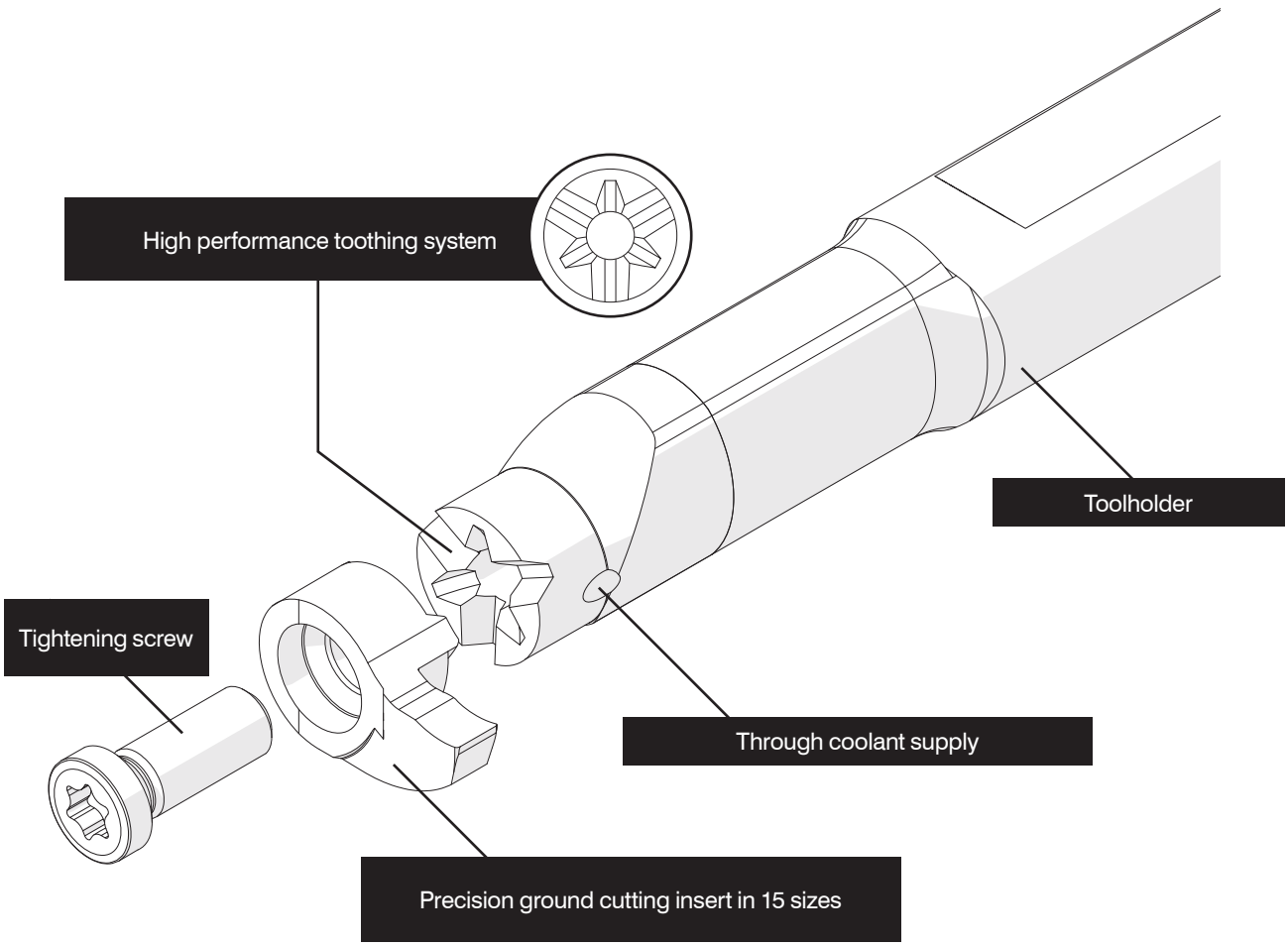
Threading



simturn DX inserts for the machining of all major internal thread types. Different pitches, threads/inch and sizes available.

The System Details

Please read the general instructions for use on page 75



Wide range of carbide cutting inserts, fixed with a screw on the toolholder front side. Available in 15 different sizes, for best results in bores between Ø 7,0 mm (0.276“) and Ø 24,0 mm (0.945“).

Anti-vibration carbide and steel toolholders are available for a variety of applications.

More than 2.000 standard items provide the right answer for almost every internal turning application.

Comparison of Cutting Insert Sizes

D07...07

Ø Dmin mm/inch	tmax mm/inch
7,0 (0.276“)	1,0 (0.039“)

D07...08

Ø Dmin mm/inch	tmax mm/inch
7,8 (0.307“)	2,0 (0.079“)

D08

Ø Dmin mm/inch	tmax mm/inch
7,8 (0.307“)	1,0 (0.039“)

D09...09

Ø Dmin mm/inch	tmax mm/inch
9,0 (0.354“)	1,8 (0.071“)

D09...10

Ø Dmin mm/inch	tmax mm/inch
10,0 (0.394“)	2,8 (0.110“)

D10...10

Ø Dmin mm/inch	tmax mm/inch
10,0 (0.394“)	1,8 (0.071“)

D10...11

Ø Dmin mm/inch	tmax mm/inch
11,0 (0.433“)	2,8 (0.110“)

D11

Ø Dmin mm/inch	tmax mm/inch
11,0 (0.433“)	2,3 (0.091“)

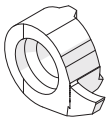
D10...12

Ø Dmin mm/inch	tmax mm/inch
12,0 (0.472“)	3,4 (0.134“)

D14

Ø Dmin mm/inch	tmax mm/inch
14,0 (0.551“)	4,0 (0.157“)

D16



Ø Dmin mm/inch	tmax mm/inch
16,0 (0.630“)	4,3 (0.169“)

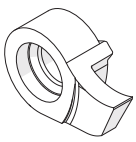
D14...16

Ø Dmin mm/inch	tmax mm/inch
16,0 (0.630“)	5,5 (0.217“)

D14...17

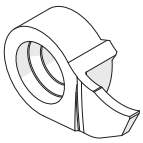
Ø Dmin mm/inch	tmax mm/inch
17,0 (0.669“)	6,5 (0.256“)

D18...18



Ø Dmin mm/inch	tmax mm/inch
18,0 (0.709“)	6,0 (0.236“)

D18...20

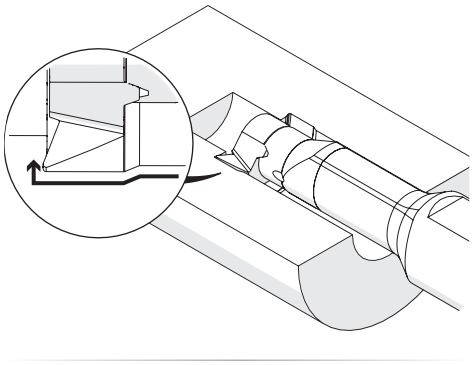


Ø Dmin mm/inch	tmax mm/inch
20,0 (0.787“)	8,0 (0.315“)

ØDmin Suitable as of bore diameter
tmax Possible cutting depths

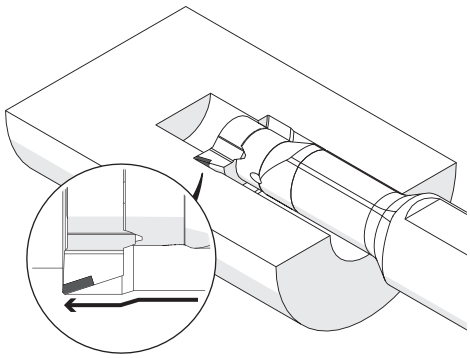
Standard Applications

As of page 26



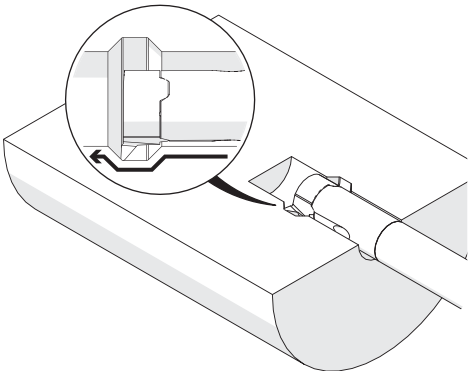
Boring

Page 28



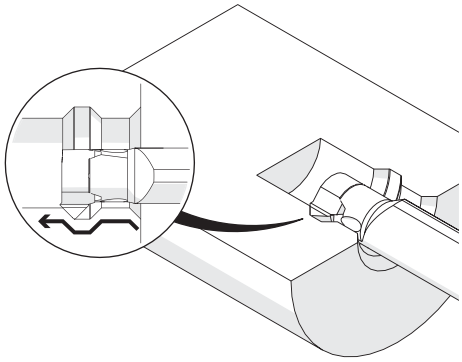
Boring, Hard Part Turning

Page 29



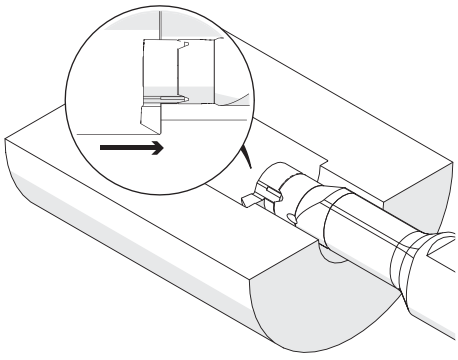
Copying and Profiling

Page 30



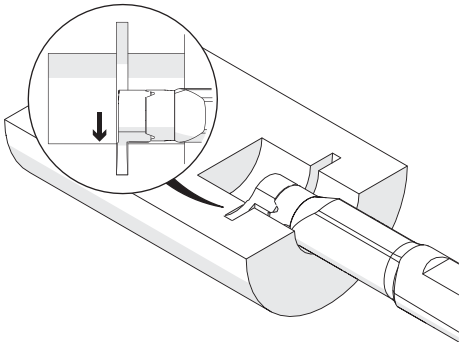
Boring and Chamfering

Page 31



Back Boring

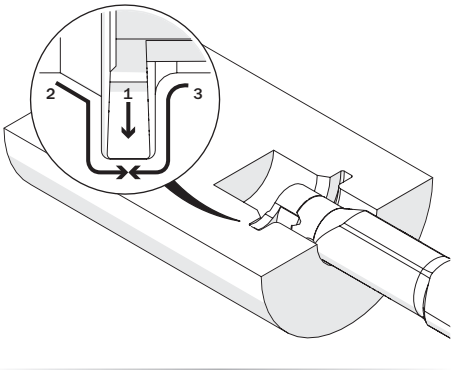
As of page 33



Grooving

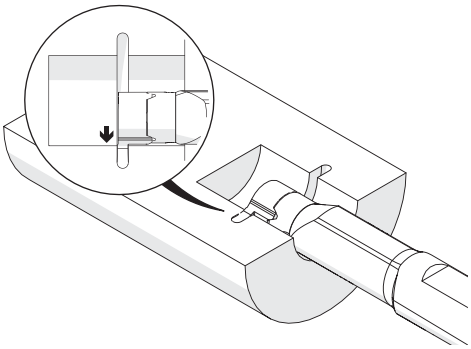
Standard Applications

As of page 46



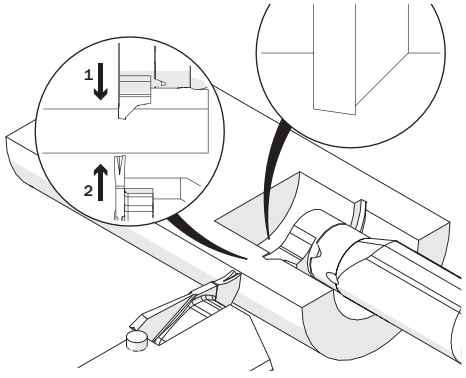
Grooving and Profiling

As of page 49



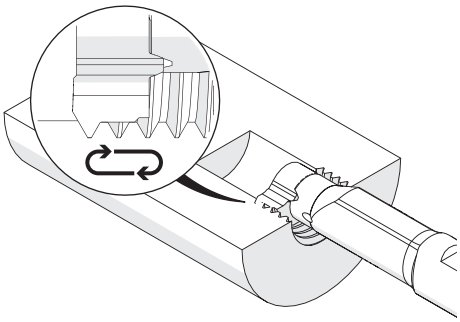
Full Radius Grooving

Page 51



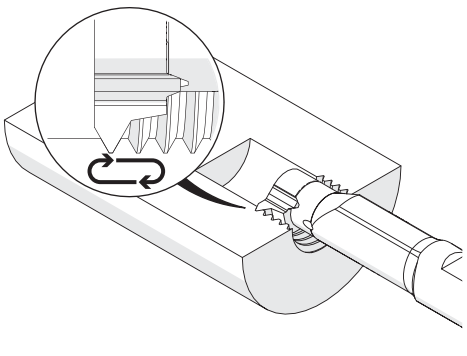
Pre-Part-Off and Chamfering

As of page 52



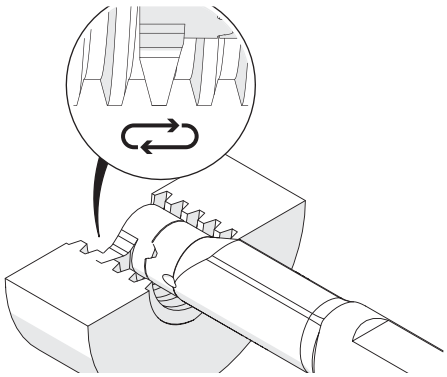
Threading: Metric ISO, Full Profile

As of page 54



Threading: Metric ISO, Partial Profile

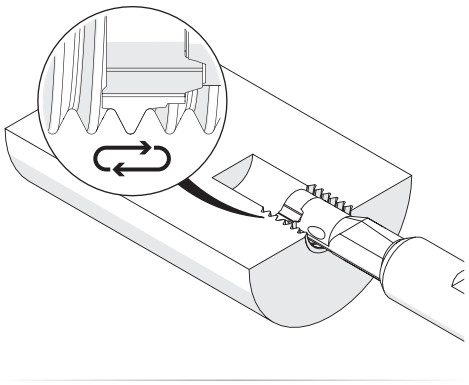
Page 56



Threading: Trapezoidal Thread, Partial Profile

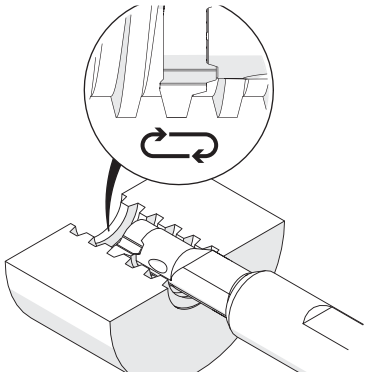
Standard Applications

Page 57



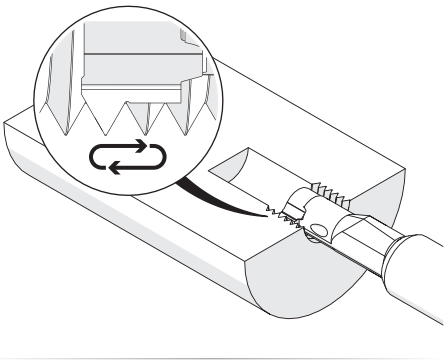
Threading: BSW / BSF, Full Profile

Page 58



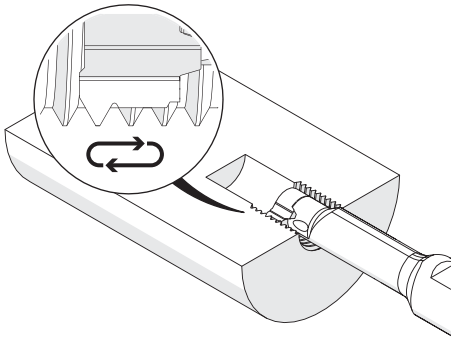
Threading: ACME / STUB ACME, Partial Profile

Page 59



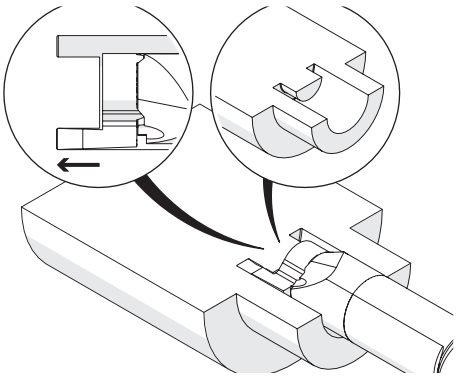
Threading: NPT, Full Profile

Page 60



Threading: UNC/UNF, Full Profile

As of page 61



Face Grooving

Toolholder, For Internal Applications

Anti-vibration solid carbide round shank toolholder with through coolant.

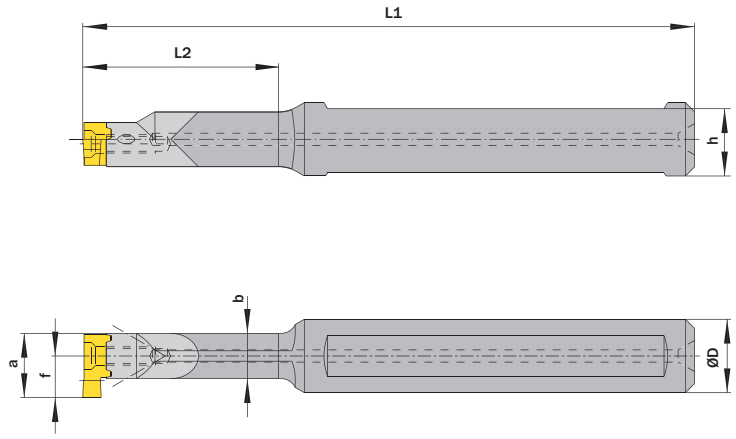
Tightening torque (screw)
1,2 Nm

Please read add. notes
MASTER (Page 65)

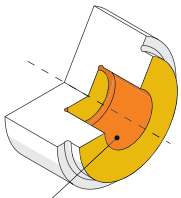
TW HM | Legend **66**

Scan QR-Code | Or Visit **www.simtek.info/cp/979**

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



Dimensions „a“, „f“ and tmax depend on used carbide inserts.



Mainly designed for these surfaces

Also possible depending on insert type

ØD h6 mm/inch	L2 mm/inch	Part number	Webcode www.simtek.com/webcode	b mm/inch	h mm/inch	L1 mm/inch	Screw	Screw driver	Connectcode www.simtek.com/ccode	
▼ ØD = 12,0 mm										
12,0	21,0	**D07.0012.21 HM**	AU5Y	4,8	11,0	80,0	D M2x7,5 T7F	T7F	D07	
12,0	30,0	**D07.0012.30 HM**	AU50	4,8	11,0	90,0	D M2x7,5 T7F	T7F	D07	
12,0	42,0	**D07.0012.42 HM**	AU51	4,8	11,0	100,0	D M2x7,5 T7F	T7F	D07	
▼ ØD = 0.500“										
0.500“	0.830“	**D07.0.500.21 HM**	A264	0.189“	0.461“	3.150“	D M2x7,5 T7F	T7F	D07	inch
0.500“	1.181“	**D07.0.500.30 HM**	A265	0.189“	0.461“	3.543“	D M2x7,5 T7F	T7F	D07	inch
0.500“	1.654“	**D07.0.500.42 HM**	A266	0.189“	0.461“	3.937“	D M2x7,5 T7F	T7F	D07	inch

Related Items can be found on the following page as well! Continued Table

Order example: **D07.0012.21 HM**

Toolholder, For Internal Applications

Anti-vibration solid carbide round shank toolholder with through coolant.

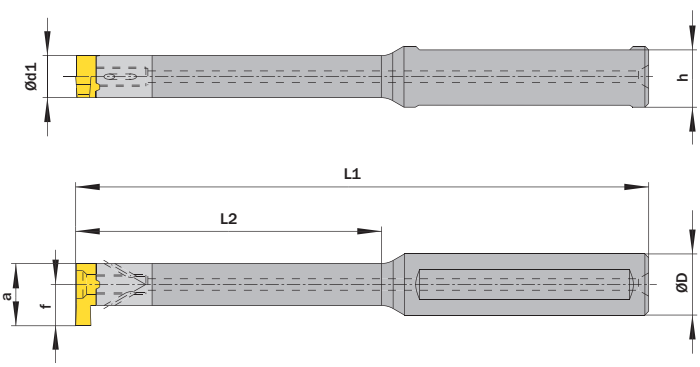
Tightening torque (screw)
1,2 Nm

Please read add. notes
MASTER (Page 65)

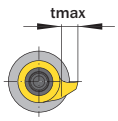
TW HM | Legend **66**

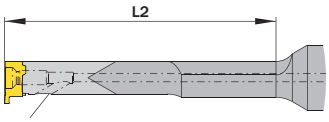
Scan **QR-Code** | Or Visit **www.simtek.info/cp/808**

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

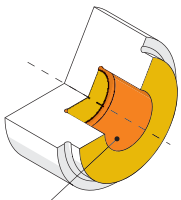


Dimensions „a“, „f“ and “tmax” depend on used carbide inserts.





D08.0012.50 HM
One through coolant supply.



Mainly designed for these surfaces

Also possible depending on insert type

ØD h6 mm/inch	L2 mm/inch	Part number	Webcode www.simtek.com/webcode	Ød1 mm/inch	h mm/inch	L1 mm/inch	Screw	Screw driver	Connectcode www.simtek.com/ccode	
◀ Continued Table		**Related Items can be found on the previous page as well!**								
▼ ØD = 12,0 mm										
12,0	21,0	**D08.0012.21 HM**	AF03	6,0	11,5	80,0	D M2,6x8 T8F	T8F	D08	
12,0	30,0	**D08.0012.30 HM**	AB7V	6,0	11,5	90,0	D M2,6x8 T8F	T8F	D08	
12,0	42,0	**D08.0012.42 HM**	AAVA	6,0	11,5	100,0	D M2,6x8 T8F	T8F	D08	
12,0	50,0	**D08.0012.50 HM**	AA9E	6,0	11,5	115,0	D M2,6x8 T8F	T8F	D08	
▼ ØD = 0.500“										
0.500“	0.830“	**D08.0.500.21 HM**	AF99	0.236“	0.480“	3.150“	D M2,6x8 T8F	T8F	D08	inch
0.500“	1.181“	**D08.0.500.30 HM**	AEZK	0.236“	0.480“	3.543“	D M2,6x8 T8F	T8F	D08	inch
0.500“	1.654“	**D08.0.500.42 HM**	AHCK	0.236“	0.480“	3.937“	D M2,6x8 T8F	T8F	D08	inch
0.500“	1.969“	**D08.0.500.50 HM**	A5T1	0.236“	0.480“	4.528“	D M2,6x8 T8F	T8F	D08	inch

Related Items can be found on the following page as well! Continued Table ▶

Order example: **D08.0012.30 HM**

Toolholder, For Internal Applications

Anti-vibration solid carbide round shank toolholder with through coolant.

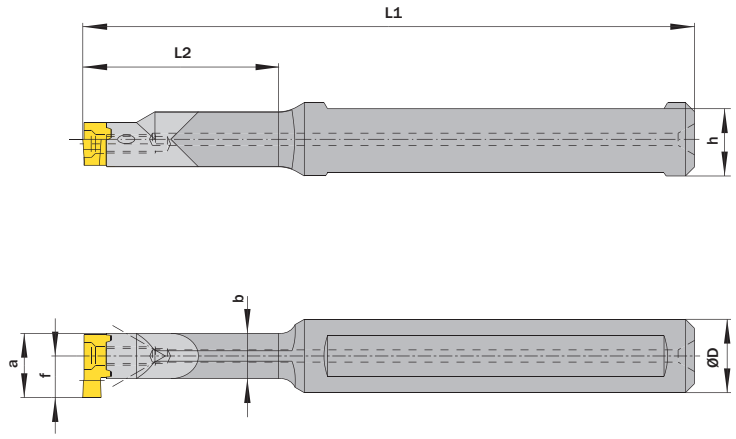
Tightening torque (screw)
1,2 Nm

Please read add. notes
MASTER (Page 65)

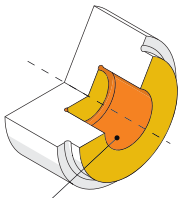
TW HM | Legend **66**

Scan QR-Code | Or Visit **www.simtek.info/cp/989**

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



Dimensions „a“, „f“ and tmax depend on used carbide inserts.



Mainly designed for these surfaces

Also possible depending on insert type

ØD h6 mm/inch	L2 mm/inch	Part number	Webcode www.simtek.com/webcode	b mm/inch	h mm/inch	L1 mm/inch	Screw	Screw driver	Connectcode www.simtek.com/ccode	
Continued Table		**Related Items can be found on the previous page as well!**								
▼ ØD = 12,0 mm										
12,0	22,0	**D09.0012.22 HM**	AWFD	6,6	11,0	90,0	D M2,6x8 T8F	T8F	D09	
12,0	30,0	**D09.0012.30 HM**	AWFC	6,6	11,0	98,0	D M2,6x8 T8F	T8F	D09	
12,0	42,0	**D09.0012.42 HM**	AWFB	6,6	11,0	110,0	D M2,6x8 T8F	T8F	D09	
12,0	56,0	**D09.0012.56 HM**	AWFA	6,6	11,0	122,0	D M2,6x8 T8F	T8F	D09	
▼ ØD = 0.500“										
0.500“	0.866“	**D09.0.500.22 HM**	A23Z	0.260“	0.461“	3.543“	D M2,6x8 T8F	T8F	D09	inch
0.500“	1.181“	**D09.0.500.30 HM**	A230	0.260“	0.461“	3.858“	D M2,6x8 T8F	T8F	D09	inch
0.500“	1.654“	**D09.0.500.42 HM**	A231	0.260“	0.461“	4.331“	D M2,6x8 T8F	T8F	D09	inch
0.500“	2.205“	**D09.0.500.56 HM**	A5T3	0.260“	0.461“	4.803“	D M2,6x8 T8F	T8F	D09	inch
		Related Items can be found on the following page as well!							Continued Table	

Order example: **D09.0012.30 HM**

Toolholder, For Internal Applications

Anti-vibration solid carbide round shank toolholder with through coolant.

Tightening torque (screw)
2,1 Nm

Please read add. notes
MASTER (Page 65)

TW HM | Legend **66**

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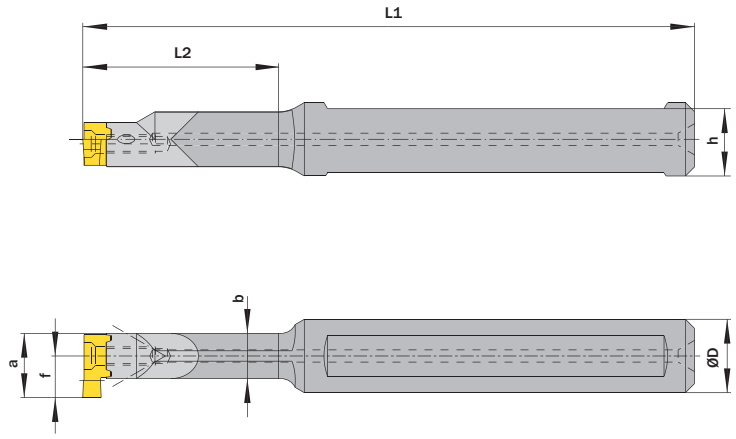
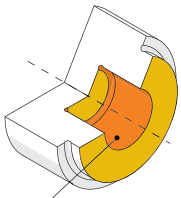


Dimensions „a“, „f“ and tmax depend on used carbide inserts.



Mainly designed for these surfaces

Also possible depending on insert type

ØD h6 mm/inch	L2 mm/inch	Part number	Webcode www.simtek.com/webcode	b mm/inch	h mm/inch	L1 mm/inch	Screw	Screw driver	Connectcode www.simtek.com/ccode	
Continued Table		**Related Items can be found on the previous page as well!**								
▼ ØD = 12,0 mm										
12,0	24,0	**D10.0012.24 HM**	AKMV	7,4	11,0	92,0	D M3x9 T9F	T9F	D10	
12,0	32,0	**D10.0012.32 HM**	AJJ7	7,4	11,0	100,0	D M3x9 T9F	T9F	D10	
12,0	48,0	**D10.0012.48 HM**	AHP2	7,4	11,0	115,0	D M3x9 T9F	T9F	D10	
12,0	64,0	**D10.0012.64 HM**	ACB2	7,4	11,0	130,0	D M3x9 T9F	T9F	D10	
▼ ØD = 0.500“										
0.500“	0.866“	**D10.0.500.22 HM**	A0Y7	0.291“	0.461“	3.543“	D M3x9 T9F	T9F	D10	inch
0.500“	1.260“	**D10.0.500.32 HM**	AB32	0.291“	0.461“	3.937“	D M3x9 T9F	T9F	D10	inch
0.500“	1.890“	**D10.0.500.48 HM**	APKH	0.291“	0.461“	4.528“	D M3x9 T9F	T9F	D10	inch
0.500“	2.520“	**D10.0.500.64 HM**	ADFU	0.291“	0.461“	5.118“	D M3x9 T9F	T9F	D10	inch

Related Items can be found on the following page as well! Continued Table

Order example: **D10.0012.32 HM**

Toolholder, For Internal Applications

Anti-vibration solid carbide round shank toolholder with through coolant.

Tightening torque (screw)
3,0 Nm

Please read add. notes
MASTER (Page 65)

TW HM | Legend **66**

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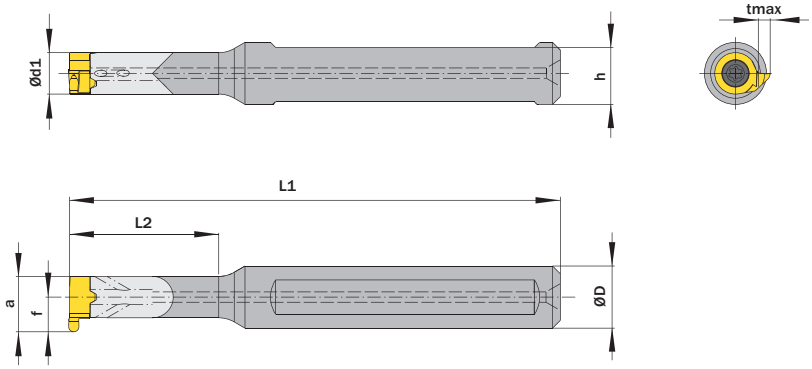
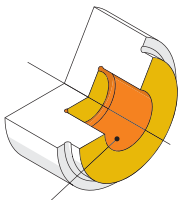


Dimensions „a“, „f“ and “tmax” depend on used carbide inserts.



Mainly designed for these surfaces

Also possible depending on insert type

Drawing shows: D11.0012.29 HM

ØD h6 mm/inch	L2 mm/inch	Part number	Webcode www.simtek.com/webcode	Ød1 mm/inch	h mm/inch	L1 mm/inch	Screw	Screw driver	Connectcode www.simtek.com/ccode	
Continued Table		**Related Items can be found on the previous page as well!**								
▼ ØD = 12,0 mm										
12,0	29,0	**D11.0012.29 HM**	AHJ1	8,0	11,0	95,0	DM3,5x10T10F	T10F	D11	
12,0	42,0	**D11.0012.42 HM**	AG9S	8,0	11,0	110,0	DM3,5x10T10F	T10F	D11	
12,0	56,0	**D11.0012.56 HM**	AHEF	8,0	11,0	120,0	DM3,5x10T10F	T10F	D11	
12,0	64,0	**D11.0012.64 HM**	ABD8	8,0	11,0	130,0	DM3,5x10T10F	T10F	D11	
▼ ØD = 0.500“										
0.500“	1.142“	**D11.0.500.29 HM**	AGZ0	0.315“	0.461“	3.740“	DM3,5x10T10F	T10F	D11	inch
0.500“	1.654“	**D11.0.500.42 HM**	ABCD	0.315“	0.461“	4.330“	DM3,5x10T10F	T10F	D11	inch
0.500“	2.205“	**D11.0.500.56 HM**	AHP0	0.315“	0.461“	4.724“	DM3,5x10T10F	T10F	D11	inch
0.500“	2.520“	**D11.0.500.64 HM**	A5T5	0.315“	0.461“	5.118“	DM3,5x10T10F	T10F	D11	inch

Related Items can be found on the following page as well! **Continued Table**

Order example: **D11.0012.29 HM**

Toolholder, For Internal Applications

Anti-vibration solid carbide round shank toolholder with through coolant.

Tightening torque (screw)
4,5 Nm

Please read add. notes
MASTER (Page 65)

TW HM | Legend **66**

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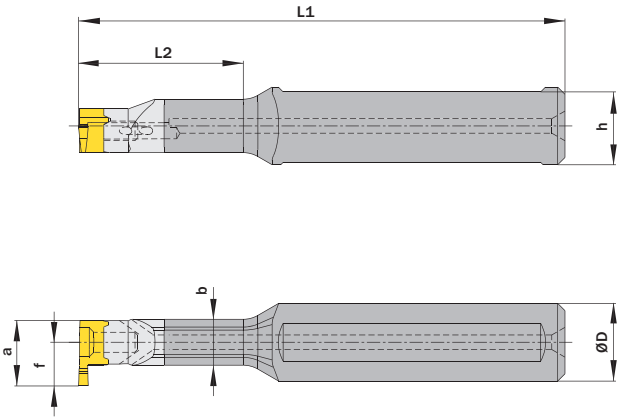
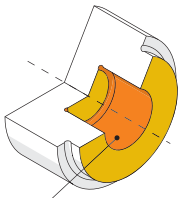


Dimensions „a“, „f“ and “tmax” depend on used carbide inserts.

Drawing shows: D14.0016.34 HM



Mainly designed for these surfaces

Also possible depending on insert type

ØD h6 mm/inch	L2 mm/inch	Part number	Webcode www.simtek.com/webcode	b mm/inch	h mm/inch	L1 mm/inch	Screw	Screw driver	Connectcode www.simtek.com/ccode	
Continued Table		**Related Items can be found on the previous page as well!**								
▼ ØD = 12,0 mm										
12,0	20,0	**D14.0012.20 HM**	A089	9,5	11,0	75,0	DM4x12T15F	T15F	D14	
12,0	34,0	**D14.0012.34 HM**	AMQ7	9,5	11,0	100,0	DM4x12T15F	T15F	D14	
12,0	45,0	**D14.0012.45 HM**	AMYJ	9,5	11,0	110,0	DM4x12T15F	T15F	D14	
12,0	64,0	**D14.0012.64 HM**	AEQA	9,5	11,0	130,0	DM4x12T15F	T15F	D14	
▼ ØD = 0.500“										
0.500“	0.787“	**D14.0.500.20 HM**	A5T7	0.374“	0.461“	2.953“	DM4x12T15F	T15F	D14	inch
0.500“	1.339“	**D14.0.500.34 HM**	AEBY	0.374“	0.461“	3.937“	DM4x12T15F	T15F	D14	inch
0.500“	1.772“	**D14.0.500.45 HM**	AEZJ	0.374“	0.461“	4.331“	DM4x12T15F	T15F	D14	inch
0.500“	2.520“	**D14.0.500.64 HM**	AAEN	0.374“	0.461“	5.118“	DM4x12T15F	T15F	D14	inch
▼ ØD = 0.625“										
0.625“	1.339“	**D14.0.625.34 HM**	AG7B	0.374“	0.586“	3.937“	DM4x12T15F	T15F	D14	inch
0.625“	1.772“	**D14.0.625.45 HM**	AB11	0.374“	0.586“	4.331“	DM4x12T15F	T15F	D14	inch
0.625“	2.520“	**D14.0.625.64 HM**	AAMU	0.374“	0.586“	5.118“	DM4x12T15F	T15F	D14	inch
0.625“	2.953“	**D14.0.625.75 HM**	AEUU	0.374“	0.586“	5.512“	DM4x12T15F	T15F	D14	inch
▼ ØD = 16,0 mm										
16,0	34,0	**D14.0016.34 HM**	AFP8	9,5	15,0	100,0	DM4x12T15F	T15F	D14	
16,0	45,0	**D14.0016.45 HM**	AA1H	9,5	15,0	110,0	DM4x12T15F	T15F	D14	
16,0	64,0	**D14.0016.64 HM**	AB99	9,5	15,0	130,0	DM4x12T15F	T15F	D14	
16,0	75,0	**D14.0016.75 HM**	AFD1	9,5	15,0	140,0	DM4x12T15F	T15F	D14	

Related Items can be found on the following page as well! Continued Table

Order example: **D14.0016.34 HM**

Toolholder, For Internal Applications

Anti-vibration solid carbide round shank toolholder with through coolant.

Tightening torque (screw)
7,0 Nm

Please read add. notes
MASTER (Page 65)

TW HM | Legend **66**

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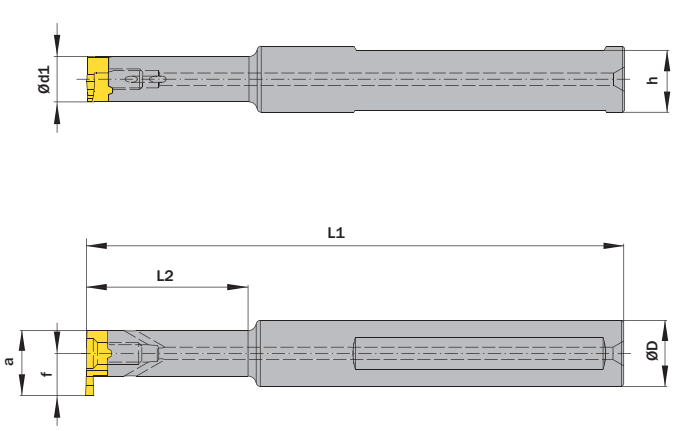
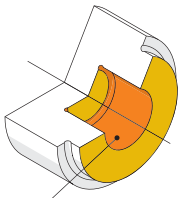


Dimensions „a“, „f“ and “tmax” depend on used carbide inserts.

Drawing shows: D16.0016.40 HM



Mainly designed for these surfaces

Also possible depending on insert type

ØD h6 mm/inch	L2 mm/inch	Part number	Webcode www.simtek.com/webcode	Ød1 mm/inch	h mm/inch	L1 mm/inch	Screw	Screw driver	Connectcode www.simtek.com/ccode	
◀ Continued Table		**Related Items can be found on the previous page as well!**								
▼ ØD = 12,0 mm										
12,0	40,0	**D16.0012.40 HM**	AESE	11,0	11,0	130,0	D M5x12 T20T	T20T	D16	
12,0	56,0	**D16.0012.56 HM**	ABY7	11,0	11,0	130,0	D M5x12 T20T	T20T	D16	
12,0	80,0	**D16.0012.80 HM**	AAYX	11,0	11,0	150,0	D M5x12 T20T	T20T	D16	
▼ ØD = 0.500“										
0.500“	1.575“	**D16.0.500.40 HM**	AK10	0.433“	0.461“	5.118“	D M5x12 T20T	T20T	D16	inch
0.500“	2.205“	**D16.0.500.56 HM**	AKTU	0.433“	0.461“	5.118“	D M5x12 T20T	T20T	D16	inch
0.500“	3.150“	**D16.0.500.80 HM**	APXA	0.433“	0.461“	5.906“	D M5x12 T20T	T20T	D16	inch
▼ ØD = 0.625“										
0.625“	1.575“	**D16.0.625.40 HM**	APM8	0.433“	0.586“	5.118“	D M5x12 T20T	T20T	D16	inch
0.625“	2.205“	**D16.0.625.56 HM**	ADJ3	0.433“	0.586“	5.118“	D M5x12 T20T	T20T	D16	inch
0.625“	3.150“	**D16.0.625.80 HM**	AFSY	0.433“	0.586“	5.906“	D M5x12 T20T	T20T	D16	inch
▼ ØD = 16,0 mm										
16,0	40,0	**D16.0016.40 HM**	ACA6	11,0	15,0	130,0	D M5x12 T20T	T20T	D16	
16,0	56,0	**D16.0016.56 HM**	ABJH	11,0	15,0	130,0	D M5x12 T20T	T20T	D16	
16,0	80,0	**D16.0016.80 HM**	AEF9	11,0	15,0	150,0	D M5x12 T20T	T20T	D16	

Related Items can be found on the following page as well! Continued Table ▶

Order example: **D16.0016.40 HM**

Toolholder, For Internal Applications

Anti-vibration solid carbide round shank toolholder with through coolant.

Tightening torque (screw)
7,0 Nm

Please read add. notes
MASTER (Page 65)

TW HM | Legend **66**

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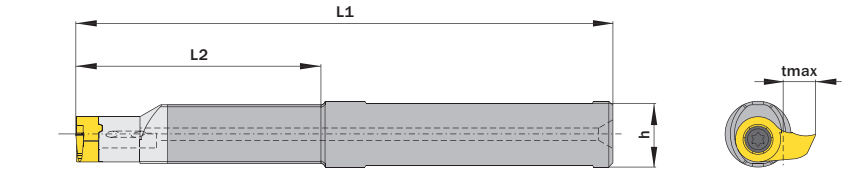
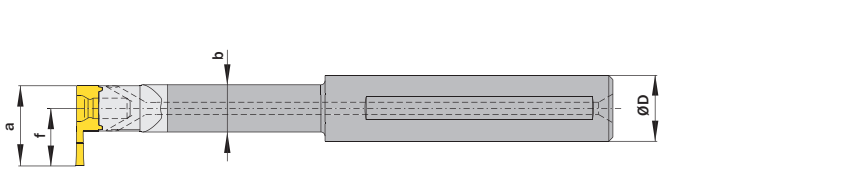
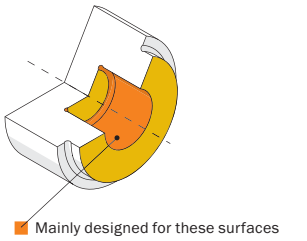




Dimensions „a“, „f“ and “tmax” depend on used carbide inserts.



Mainly designed for these surfaces

Also possible depending on insert type

Drawing shows: D18.0016.60 HM

ØD h6 mm/inch	L2 mm/inch	Part number	Webcode www.simtek.com/webcode	b mm/inch	h mm/inch	L1 mm/inch	Screw	Screw driver	Connectcode www.simtek.com/ccode	
Continued Table		**Related Items can be found on the previous page as well!**								
▼ ØD = 0.625“										
0.625“	1.654“	**D18.0.625.42 HM**	AVW3	0.452“	0.586“	3.937“	D M5x12 T20T	T20T	D18	inch
0.625“	2.362“	**D18.0.625.60 HM**	AVW4	0.452“	0.586“	5.118“	D M5x12 T20T	T20T	D18	inch
0.625“	3.346“	**D18.0.625.85 HM**	AVW5	0.452“	0.586“	6.299“	D M5x12 T20T	T20T	D18	inch
▼ ØD = 16,0 mm										
16,0	42,0	**D18.0016.42 HM**	AEP1	11,5	15,0	100,0	D M5x12 T20T	T20T	D18	
16,0	60,0	**D18.0016.60 HM**	AJFC	11,5	15,0	130,0	D M5x12 T20T	T20T	D18	
16,0	85,0	**D18.0016.85 HM**	AF5G	11,5	15,0	160,0	D M5x12 T20T	T20T	D18	
▼ ØD = 0.750“										
0.750“	3.346“	**D18.0.750.85 HM**	AVW6	0.452“	0.711“	6.299“	D M5x12 T20T	T20T	D18	inch
▼ ØD = 20,0 mm										
20,0	85,0	**D18.0020.85 HM**	AG1A	11,5	19,0	160,0	D M5x12 T20T	T20T	D18	

Order example: **D18.0016.42 HM**

Length Adjustable Toolholder, Internal Applications, Round Shank, „ME“

Steel round shank, equipped with our ME-clamping system. The ME-system provides force-fitted clamping along with higher precision and stability. Infinitely variable length can be realized as required.

Tightening torque (screw)
6,0 Nm - 10,0 Nm

Please read add. notes
MASTER (Page 65)

TW HM | ME | Legend 66

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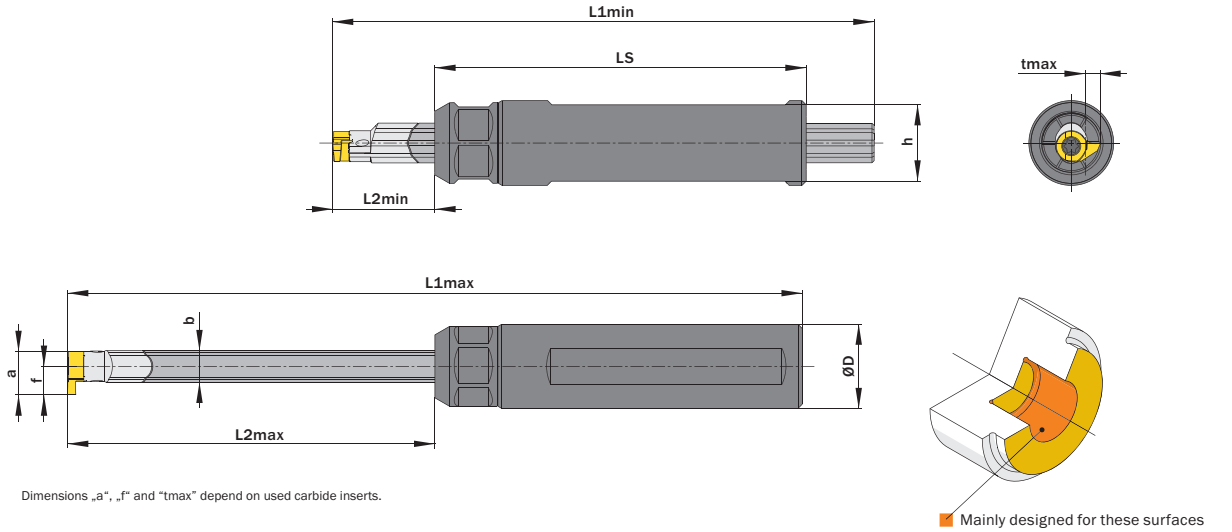

Dimensions „a“, „f“ and “tmax” depend on used carbide inserts.

Mainly designed for these surfaces

Also possible depending on insert type

Drawing shows: D10.0020.24.087 ME

ØD g6 mm/inch	L2min mm/inch	L2max mm/inch	Part number	Webcode www.simtek.com/webcode	b mm/inch	h mm/inch	LS ±0,5 mm/inch	L1min mm/inch	L1max mm/inch	Standard screw nut	Connectcode www.simtek.com/ccode	
20,0	31,0	87,5	**D10.0020.24.087 ME**	A2ZA	7,5	18,0	87,5	127,5	175,0	A00.K.19.15.138	D10	
20,0	42,0	124,0	**D14.0020.25.124 ME**	A2ZB	9,5	18,0	87,5	164,0	211,5	A00.K.19.15.138	D14	
0.750“	1.220“	3.445“	**D10.0.750.24.087 ME**	A5XH	0.295“	0.671“	3.445“	5.020“	6.890“	A00.K.19.15.138	D10	inch
0.750“	1.654“	4.882“	**D14.0.750.25.124 ME**	A5XK	0.374“	0.671“	3.445“	6.457“	8.327“	A00.K.19.15.138	D14	inch

Order example: **D10.0020.24.087 ME**

Toolholder / Adapter, For Internal Applications

Adapter for D07 inserts on A06 toolholder. Anti-vibration solid carbide round shank toolholder with through coolant.

Tightening torque (screw)
1,2 Nm

Please read add. notes
MASTER (Page 65)

TW HM | Legend **66**

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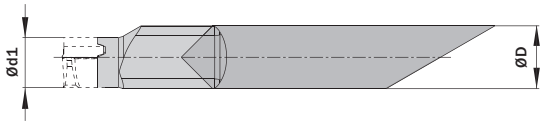

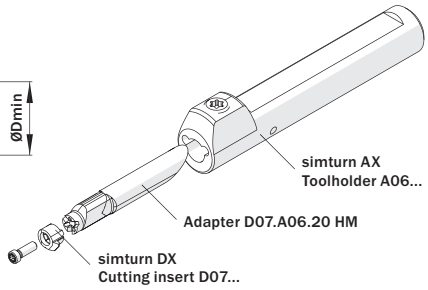

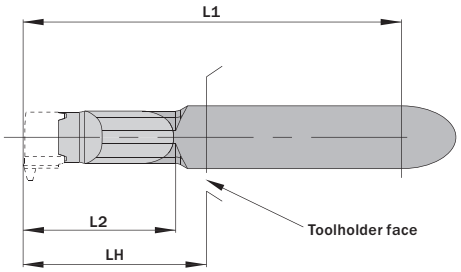

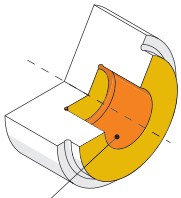

Mainly designed for these surfaces

Also possible depending on insert type

Drawing shows: D07.A06.20 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 = 20,0 mm										
6,0	20,0	**D07.A06.20 HM**	AHSC	4,8	7,0	42,25	23,0	D M2x7,5 T7F	T7F	D07
▼ L2 = 30,0 mm										
6,0	30,0	**D07.A06.30 HM**	AJ5U	4,8	7,0	52,25	33,0	D M2x7,5 T7F	T7F	D07
▼ L2 = 40,0 mm										
6,0	40,0	**D07.A06.40 HM**	AAVG	4,8	7,0	62,25	43,0	D M2x7,5 T7F	T7F	D07
▼ L2 = 50,0 mm										
6,0	50,0	**D07.A06.50 HM**	ACBT	4,8	7,0	72,25	53,0	D M2x7,5 T7F	T7F	D07
▼ L2 = 60,0 mm										
6,0	60,0	**D07.A06.60 HM**	AKSW	4,8	7,0	82,25	63,0	D M2x7,5 T7F	T7F	D07

Order example: **D07.A06.60 HM**

Toolholder, For Internal Applications

Steel round shank toolholder with through coolant.

Tightening torque (screw)

"D M2,6x8 T8F": 1,2 Nm
"D M3,5x10 T10F": 3,0 Nm
"D M5x12 T20T": 7,0 Nm

Please read add. notes
MASTER (Page 65)

TW ST Legend **66**

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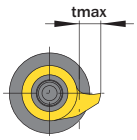

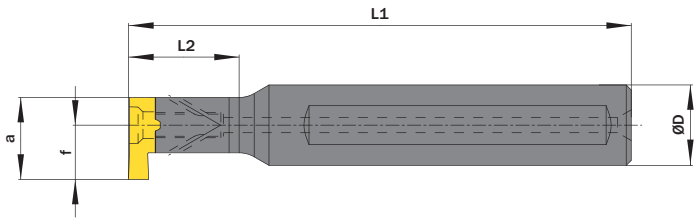

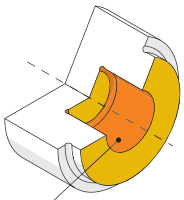

Mainly designed for these surfaces

Also possible depending on insert type

Dimensions „a", „f" and "tmax" depend on used carbide inserts.

Drawing shows: D16.0016.22 ST

ØD g6 mm/inch	L2 mm/inch	Part number	Webcode www.simtek.com/webcode	Ød1 mm/inch	h mm/inch	L1 mm/inch	Screw	Screw driver	Connectcode www.simtek.com/ccode	
▼ **Connectcode = D08**										
12,0	21,0	**D08.0012.21 ST**	AKHT	6,0	11,0	80,0	D M2,6x8 T8F	T8F	D08	
16,0	12,0	**D08.0016.12 ST**	AH2A	6,0	15,0	80,0	D M2,6x8 T8F	T8F	D08	
0.500"	0.472"	**D08.0.500.12 ST**	A22H	0.236"	0.480"	3.150"	D M2,6x8 T8F	T8F	D08	inch
0.625"	0.472"	**D08.0.625.12 ST**	ABT9	0.236"	0.586"	3.150"	D M2,6x8 T8F	T8F	D08	inch
▼ **Connectcode = D11**										
12,0	29,0	**D11.0012.29 ST**	AAV0	8,0	11,0	95,0	D M3,5x10 T10F	T10F	D11	
16,0	16,0	**D11.0016.16 ST**	ANMK	8,0	15,0	97,0	D M3,5x10 T10F	T10F	D11	
0.625"	0.630"	**D11.0.625.16 ST**	AGFE	0.315"	0.586"	3.819"	D M3,5x10 T10F	T10F	D11	inch
▼ **Connectcode = D16**										
16,0	22,0	**D16.0016.22 ST**	AEQC	11,0	15,0	100,0	D M5x12 T20T	T20T	D16	
0.625"	0.866"	**D16.0.625.22 ST**	ADXJ	0.433"	0.586"	3.937"	D M5x12 T20T	T20T	D16	inch

Order example: **D16.0016.22 ST**

Toolholder, For Internal Applications

Steel round shank toolholder with through coolant.

Tightening torque (screw)

"D M2,6x8 T8F": 1,2 Nm
"D M2x7,5 T7F": 1,2 Nm
"D M3x9 T9F": 2,1 Nm
"D M4x12 T15F": 4,5 Nm
"D M5x12 T20T": 7,0 Nm

Please read add. notes
MASTER (Page 65)

TW ST | Legend **66**

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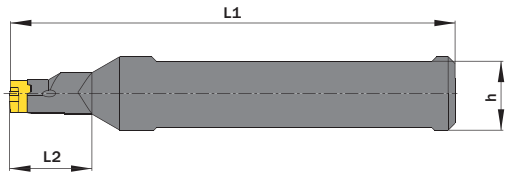
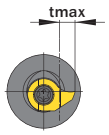
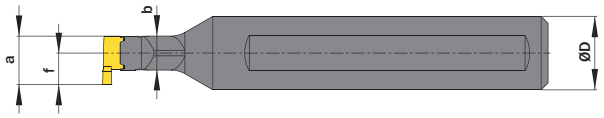
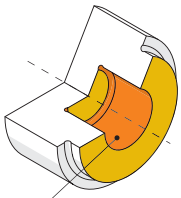






Dimensions „a", „f" and "tmax" depend on used carbide inserts.



Mainly designed for these surfaces

Also possible depending on insert type

Drawing shows: D10.0016.16 ST

ØD g6 mm/inch	L2 mm/inch	Part number	Webcode www.simtek.com/webcode	b mm/inch	h mm/inch	L1 mm/inch	Screw	Screw driver	Connectcode www.simtek.com/ccode	
▼ **Connectcode = D07**										
12,0	21,0	**D07.0012.21 ST**	AU5Z	4,8	11,0	80,0	D M2x7,5 T7F	T7F	D07	
16,0	12,0	**D07.0016.12 ST**	AU6A	4,8	15,0	80,0	D M2x7,5 T7F	T7F	D07	
0.500"	0.827"	**D07.0.500.21 ST**	A5T9	0.189"	0.461"	3.150"	D M2x7,5 T7F	T7F	D07	inch
0.625"	0.472"	**D07.0.625.12 ST**	A5UB	0.189"	0.586"	3.150"	D M2x7,5 T7F	T7F	D07	inch
▼ **Connectcode = D09**										
16,0	14,0	**D09.0016.14 ST**	AWFE	6,6	15,0	95,0	D M2,6x8 T8F	T8F	D09	
0.625"	0.551"	**D09.0.625.14 ST**	A3UH	0.260"	0.586"	3.740"	D M2,6x8 T8F	T8F	D09	inch
▼ **Connectcode = D10**										
16,0	16,0	**D10.0016.16 ST**	ACCJ	7,4	15,0	97,0	D M3x9 T9F	T9F	D10	
16,0	24,0	**D10.0016.24 ST**	A016	7,4	15,0	97,0	D M3x9 T9F	T9F	D10	
0.625"	0.630"	**D10.0.625.16 ST**	ABKU	0.291"	0.586"	3.819"	D M3x9 T9F	T9F	D10	inch
0.625"	0.945"	**D10.0.625.24 ST**	A017	0.291"	0.586"	4.134"	D M3x9 T9F	T9F	D10	inch
▼ **Connectcode = D14**										
16,0	20,0	**D14.0016.20 ST**	ANP6	9,5	15,0	100,0	D M4x12 T15F	T15F	D14	
16,0	30,0	**D14.0016.30 ST**	A005	9,5	15,0	100,0	D M4x12 T15F	T15F	D14	
0.625"	0.787"	**D14.0.625.20 ST**	ADZ8	0.374"	0.586"	3.937"	D M4x12 T15F	T15F	D14	inch
0.625"	1.181"	**D14.0.625.30 ST**	A5UD	0.374"	0.586"	3.937"	D M4x12 T15F	T15F	D14	inch
▼ **Connectcode = D18**										
20,0	25,0	**D18.0020.25 ST**	AAWH	11,5	19,0	95,0	D M5x12 T20T	T20T	D18	
20,0	40,0	**D18.0020.40 ST**	APH3	11,5	19,0	105,0	D M5x12 T20T	T20T	D18	
0.750"	0.984"	**D18.0.750.25 ST**	AVW1	0.452"	0.711"	3.740"	D M5x12 T20T	T20T	D18	inch
0.750"	1.575"	**D18.0.750.40 ST**	AVW2	0.452"	0.711"	4.134"	D M5x12 T20T	T20T	D18	inch

Order example: **D14.0016.20 ST**

Toolholder, Face Grooving Applications

Anti-vibration solid steel and carbide round shank with optimized through coolant for face grooving applications.

Tightening torque (screw)
"D M4x12 T15F": 4,5 Nm
"D M5x12 T20T": 7,0 Nm

Please read add. notes
MASTER (Page 65)

TW HM | TW ST | Legend 66

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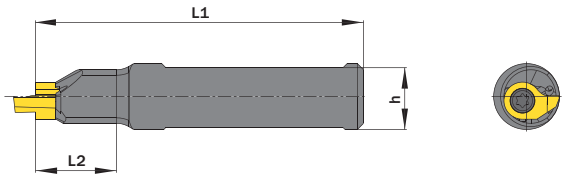
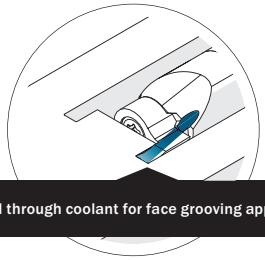
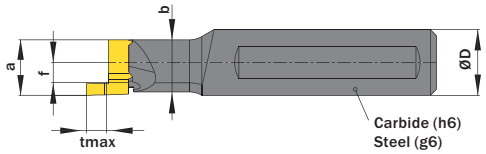
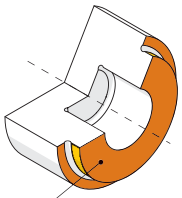






Dimensions „a", „f" and "tmax" depend on used carbide inserts.



Mainly designed for these surfaces

Also possible depending on insert type

Drawing shows: D14.A.0016.20 ST R

ØD mm/inch	L2 mm/inch	Part number	Webcode www.simtek.com/webcode	Steel	Carbide	b mm/inch	h mm/inch	L1 mm/inch	Screw	Screw driver	Connectcode www.simtek.com/ccode	
▼ **Connectcode = D14.A.R | D14.A.L**												
0.625"	1.654"	**D14.A.0.625.42 HM R/L**	R A4V9 L A4V7	-	x	0.500"	0.586"	3.937"	D M4x12 T15F	T15F	R D14.A.R L D14.A.L	inch
0.625"	0.787"	**D14.A.0.625.20 ST R/L**	R A4UH L A4UK	x	-	0.500"	0.586"	3.150"	D M4x12 T15F	T15F	R D14.A.R L D14.A.L	inch
0.625"	0.209"	**D14.A.0.625.05 ST R/L**	R A5UF L A5UH	x	-	-	0.586"	2.756"	D M4x12 T15F	T15F	R D14.A.R L D14.A.L	inch
▼ **Connectcode = D14.A.R / D14.A.L**												
16,0	5,3	**D14.A.0016.05 ST R/L**	R AB51 L AJ02	x	-	12,7	15,0	70,0	D M4x12 T15F	T15F	R D14.A.R L D14.A.L	
16,0	20,0	**D14.A.0016.20 ST R/L**	R AE7Z L AJ7N	x	-	12,7	15,0	80,0	D M4x12 T15F	T15F	R D14.A.R L D14.A.L	
16,0	42,0	**D14.A.0016.42 HM R/L**	R ABY3 L AKPP	-	x	12,7	15,0	100,0	D M4x12 T15F	T15F	R D14.A.R L D14.A.L	
16,0	62,0	**D14.A.0016.60 HM R/L**	R AQDY L AQDX	-	x	12,7	15,0	120,0	D M4x12 T15F	T15F	R D14.A.R L D14.A.L	
▼ **Connectcode = D18.16.A.R | D18.18.A.R / D18.16.A.L | D18.18.A.L**												
20,0	5,6	**D18.A.0020.05.18 ST R/L**	R AT09 L AVS0	x	-	-	19,0	85,0	D M5x12 T20T	T20T	R D18.16.A.R | D18.18.A.R L D18.16.A.L | D18.18.A.L	
0.750"	0.220"	**D18.A.0.750.05.18 ST R/L**	R A5UK L A5UN	x	-	-	0.711"	3.346"	D M5x12 T20T	T20T	R D18.16.A.R | D18.18.A.R L D18.16.A.L | D18.18.A.L	inch

Order example: **D14.A.0016.20 ST R** (R = Right hand version)

Toolholder, Face Grooving Applications

Steel square shank toolholder for face grooving applications.

Tightening torque (screw)
"D M4x12 T15F": 4,5 Nm
"D M5x12 T20T": 7,0 Nm

Please read add. notes
MASTER (Page 65)

TW ST Legend **66**

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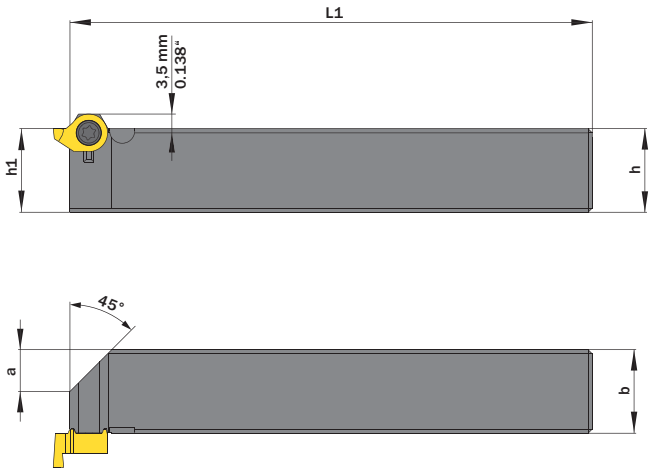
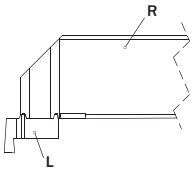
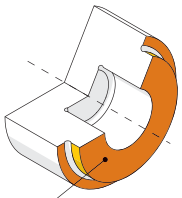


Drawing shows: D14.2020.ST R



Please use right hand toolholder with left hand insert and vice versa.



Mainly designed for these surfaces

Also possible depending on insert type

h mm	b mm	Part number	Webcode www.simtek.com/webcode				a mm	h1 mm	L1 mm	Screw	Screw driver	Connectcode www.simtek.com/ccode			
▼ **Connectcode = D14.A.L / D14.A.R**															
12,0	12,0	**D14.1212.ST R/L**	R	AB16	L	AB61	2,0	12,0	100,0	D M4x12 T15F	T15F	R	D14.A.L	L	D14.A.R
16,0	16,0	**D14.1616.ST R/L**	R	ABDB	L	APA7	6,0	16,0	125,0	D M4x12 T15F	T15F	R	D14.A.L	L	D14.A.R
20,0	20,0	**D14.2020.ST R/L**	R	APDC	L	AMY4	10,0	20,0	125,0	D M4x12 T15F	T15F	R	D14.A.L	L	D14.A.R
25,0	25,0	**D14.2525.ST R/L**	R	ANUG	L	ANQ0	15,0	25,0	150,0	D M4x12 T15F	T15F	R	D14.A.L	L	D14.A.R
▼ **Connectcode = D18.16.A.L|D18.18.A.L / D18.16.A.R|D18.18.A.R**															
20,0	20,0	**D18.2020.ST R/L**	R	AVS2	L	AT9W	10,0	20,0	125,0	D M5x12 T20T	T20T	R	D18.16.A.L|D18.18.A.L	L	D18.16.A.R|D18.18.A.R
25,0	25,0	**D18.2525.ST R/L**	R	AVGE	L	AVFZ	15,0	25,0	150,0	D M5x12 T20T	T20T	R	D18.16.A.L|D18.18.A.L	L	D18.16.A.R|D18.18.A.R

Order example: **D14.2525.ST R** (R = Right hand version)

Toolholder, Face Grooving Applications

Steel square shank toolholder, with offset, for face grooving applications.

Tightening torque (screw)
"D M4x12 T15F": 4,5 Nm
"D M5x12 T20T": 7,0 Nm

Please read add. notes
MASTER (Page 65)

TW ST Legend **66**

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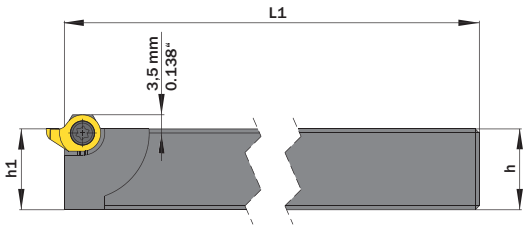
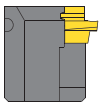
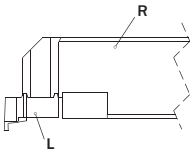
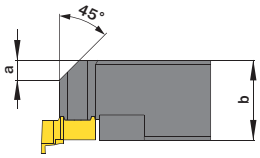


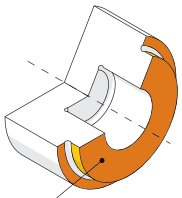




Please use right hand toolholder with left hand insert and vice versa.



Drawing shows: D14.2020.B.120 ST R



Mainly designed for these surfaces

Also possible depending on insert type

h mm/inch	b mm/inch	Part number	Webcode www.simtek.com/webcode	a mm/inch	h1 js14 mm/inch	L1 mm/inch	Screw	Screw driver	Connectcode www.simtek.com/ccode	
▼ **Connectcode = D14.A.L / D14.A.R**										
12,0	12,0	**D14.1212.B.100 ST R/L**	R ASEY L ASEX	4,0	12,0	100,0	D M4x12 T15F	T15F	R D14.A.L L D14.A.R	
0.500"	0.500"	**D14.0.500.S.B.100 ST R/L**	R AS38 L AS34	0.157"	0.500"	3.937"	D M4x12 T15F	T15F	R D14.A.L L D14.A.R	inch
0.625"	0.625"	**D14.0.625.S.B.120 ST R/L**	R AS39 L AS35	0.197"	0.625"	4.724"	D M4x12 T15F	T15F	R D14.A.L L D14.A.R	inch
16,0	16,0	**D14.1616.B.120 ST R/L**	R ASEU L ASET	5,0	16,0	120,0	D M4x12 T15F	T15F	R D14.A.L L D14.A.R	
0.750"	0.750"	**D14.0.750.S.B.120 ST R/L**	R AS4A L AS36	0.197"	0.750"	4.724"	D M4x12 T15F	T15F	R D14.A.L L D14.A.R	inch
20,0	20,0	**D14.2020.B.120 ST R/L**	R ASES L ASEQ	5,0	20,0	120,0	D M4x12 T15F	T15F	R D14.A.L L D14.A.R	
25,0	25,0	**D14.2525.B.150 ST R/L**	R ASEN L ASEP	9,0	25,0	150,0	D M4x12 T15F	T15F	R D14.A.L L D14.A.R	
1.000"	1.000"	**D14.1.000.S.B.150 ST R/L**	R AS4B L AS37	0.354"	1.000"	5.906"	D M4x12 T15F	T15F	R D14.A.L L D14.A.R	inch
▼ **Connectcode = D18.16.A.L | D18.18.A.L / D18.16.A.R | D18.18.A.R**										
20,0	20,0	**D18.2020.B.120 ST R/L**	R AVS1 L AT9Y	5,0	20,0	120,0	D M5x12 T20T	T20T	R D18.16.A.L | D18.18.A.L L D18.16.A.R | D18.18.A.R	
25,0	25,0	**D18.2525.B.120 ST R/L**	R AWDH L AVF0	9,0	25,0	120,0	D M5x12 T20T	T20T	R D18.16.A.L | D18.18.A.L L D18.16.A.R | D18.18.A.R	
0.750"	0.750"	**D18.0.750.B.120 ST R/L**	R A5UT L A5UQ	0.197"	0.750"	4.724"	D M5x12 T20T	T20T	R D18.16.A.L | D18.18.A.L L D18.16.A.R | D18.18.A.R	inch
1.000"	1.000"	**D18.1.000.B.120 ST R/L**	R A5UX L A5UV	0.354"	1.000"	4.724"	D M5x12 T20T	T20T	R D18.16.A.L | D18.18.A.L L D18.16.A.R | D18.18.A.R	inch

Order example: **D14.1616.B.120 ST R** (R = Right hand version)

Toolholder

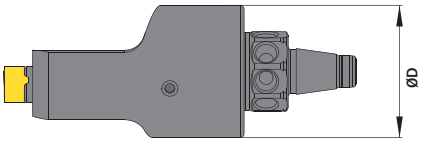
With WFB-adapter.

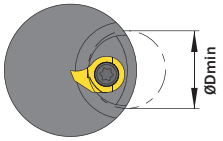
Tightening torque (screw)
4,5 Nm

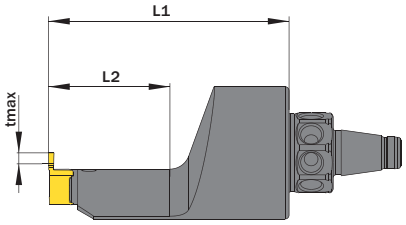
Please read add. notes
MASTER (Page 65)

TW ST | Legend **66**

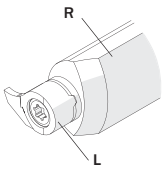
Scan **QR-Code** Or Visit **www.simtek.info/cp/1125**







Measure „tmax“ depends on cutting insert.



Please use right hand toolholder with left hand insert and vice versa.

Drawing shows: D14.WF33.60 R

ØD	L1	Part number	Webcode www.simtek.com/webcode	ØDmin (min. bore)	L2	Screw	Screw driver	Connectcode www.simtek.com/ccode
mm	mm			mm	mm			
33,0	60,0	**D14.WF33.60.12 R/L**	R AYGW L AYGV	20,0	30,0	D M4x12 T15F	T15F	D14

Order example: **D14.WF33.60.12 R** (R = Right hand version)

Boring

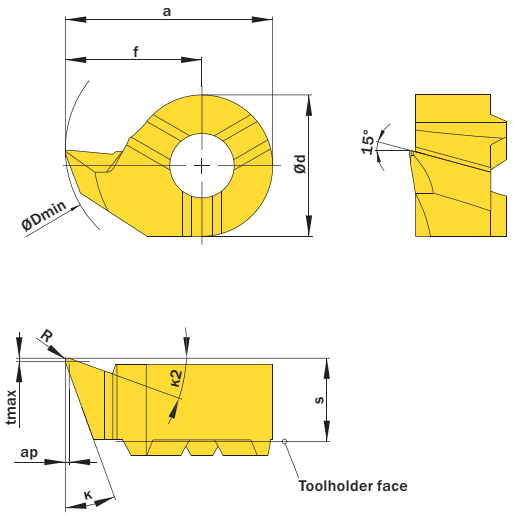
For use in bores as of minimum bore diameter 7,0 mm.

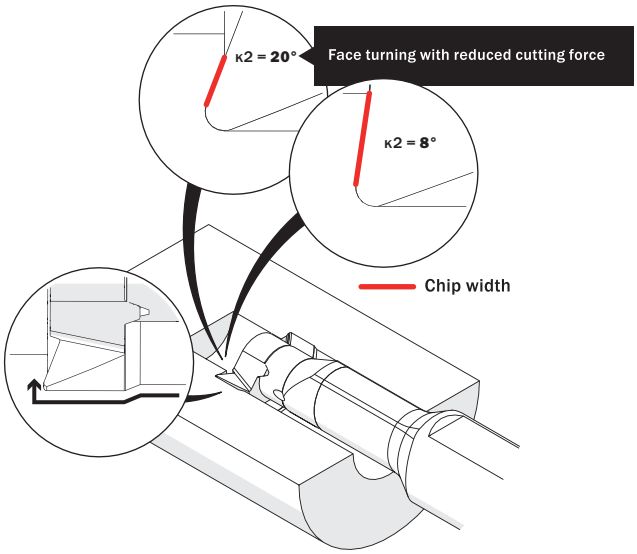
Cutting parameters (start)	
f **0,02 mm/U**	Vc **Page 71**

Suitable toolholders on page
10, 11, 12, 13, 14, 15, 16, 18, 19, 20, 21, 25

SP HM R Legend **66**

Scan QR-Code Or Visit **www.simtek.info/cp/813**





Drawing shows: D14.2087.02 YR

ØDmin (min. bore) mm	κ	κ2	f mm	R mm	Part number	Webcode www.simtek.com/webcode	Our first choice P K M N S	a mm	Ød mm	S mm	ap mm	tmax mm	Connectcode www.simtek.com/ccode
▼ ØDmin (min. bore) = 7,0 mm													
7,0	18°	8°	4,15	0,1	**D07.1841.01 YR/L**	R ANWE L AXA8	X800 X400	6,55	4,8	3,7	0,13	0,2	D07
7,0	18°	8°	4,15	0,2	**D07.1841.02 YR/L**	R AJZ7 L AXA9	X800 X400	6,55	4,8	3,7	0,25	0,2	D07
▼ ØDmin (min. bore) = 7,8 mm													
7,8	18°	8°	4,65	0,05	**D08.1846.005 YR/L**	R AS56 L AS55	X800 X400	7,65	6,0	3,5	0,07	0,2	D08
7,8	18°	8°	4,65	0,2	**D08.1846.02 YR/L**	R AMM3 L AC6Z	X800 X400	7,65	6,0	3,5	0,25	0,2	D08
7,8	20°	20°	4,65	0,2	**D08.2046.02 YR/L**	R AG7V L AFEB	X800 X400	7,65	6,0	3,5	0,25	0,2	D08
▼ØDmin (min. bore) = 9,0 mm													
9,0	18°	8°	5,5	0,2	**D09.1855.02.09 YR/L**	R AWGU L AWH7	X800 X400	8,6	6,2	3,6	0,25	0,2	D09
9,0	20°	20°	5,5	0,2	**D09.2055.02.09 YR/L**	R AWGV L AWH8	X800 X400	8,6	6,2	3,6	0,25	0,2	D09
▼ ØDmin (min. bore) = 9,8 mm													
9,8	18°	8°	5,5	0,2	**D11.1855.02 YR/L**	R AC65 L AHXM	X800 X400	9,5	8,0	4,2	0,25	0,2	D11
▼ ØDmin (min. bore) = 10,0 mm													
10,0	18°	8°	5,6	0,2	**D10.1856.02.10 YR/L**	R AN4S L AGF7	X800 X400	9,1	7,0	3,9	0,25	0,2	D10
10,0	20°	20°	5,6	0,2	**D10.2056.02.10 YR/L**	R AD7E L AB48	X800 X400	9,1	7,0	3,9	0,25	0,2	D10
▼ ØDmin (min. bore) = 11,0 mm													
11,0	18°	8°	6,6	0,2	**D10.1866.02.11 YR/L**	R AFCG L AW40	X800 X400	9,1	7,0	3,9	0,25	0,2	D10
11,0	18°	8°	6,7	0,2	**D11.1867.02 YR/L**	R ABXG L AF60	X800 X400	10,7	8,0	4,2	0,25	0,2	D11
11,0	20°	20°	6,7	0,2	**D11.2067.02 YR/L**	R APSF L AKP5	X800 X400	10,7	8,0	4,2	0,25	0,2	D11
▼ ØDmin (min. bore) = 13,8 mm													
13,8	18°	8°	8,7	0,2	**D14.1887.02 YR/L**	R AN1M L AGJY	X800 X400	13,2	9,0	5,3	0,25	0,2	D14
13,8	18°	8°	8,7	0,4	**D14.1887.04 YR/L**	R AZF7 L AZF8	X800 X400	13,2	9,0	5,3	0,5	0,2	D14
13,8	20°	20°	8,7	0,2	**D14.2087.02 YR/L**	R AG2U L AGQC	X800 X400	13,2	9,0	5,3	0,25	0,2	D14
▼ ØDmin (min. bore) = 15,5 mm													
15,5	18°	8°	9,7	0,2	**D16.1897.02 YR/L**	R AHEA L ADNX	X800 X400	15,2	11,0	5,4	0,25	0,2	D16

Order example: **D07.1841.02 YR X800** (R = Right hand version, X800 = Grade)

Boring with special chip former

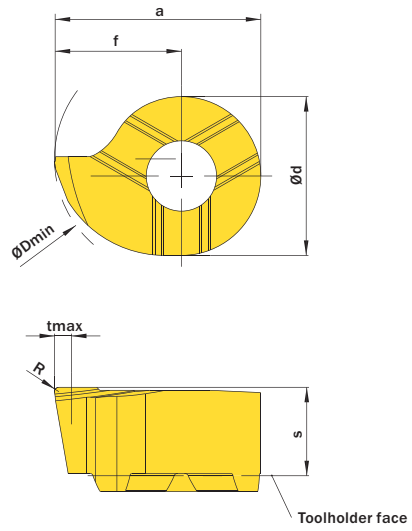
Special chipformer for improved chip control. For use in bores of minimum bore diameter 7,8 mm.

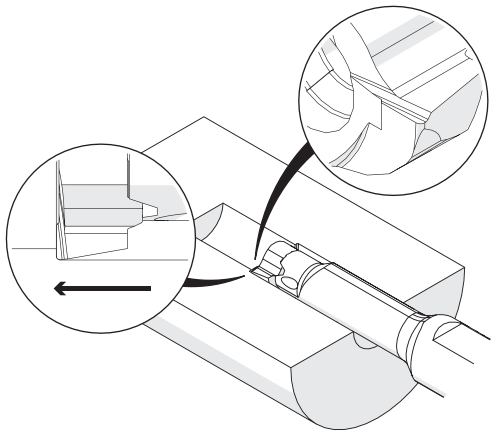
Cutting parameters (start)	
f **0,02 mm/U**	Vc **Page 71**

Suitable toolholders on page
11, 12, 13, 14, 18, 20, 21

SP HM R Legend **66**

Scan **QR-Code** Or Visit **www.simtek.info/cp/858**





Drawing shows: D10.0056.02.10 YE R

ØDmin (min. bore)	f	R	Part number	Webcode www.simtek.com/webcode	Our first choice P K M N S	a	Ød	S	tmax	Connectcode www.simtek.com/ccode
mm	mm	mm				mm	mm	mm	mm	
▼ ØDmin (min. bore) = 7,8 mm										
7,8	4,65	0,2	**D08.0046.02.08 YER/L**	R AZC9 L AZDA	X800 X400	7,65	6,0	3,5	0,5	D08
▼ ØDmin (min. bore) = 9,0 mm										
9,0	5,5	0,2	**D09.0055.02.09 YER/L**	R AWF8 L AWHN	X800 X400	8,6	6,2	3,6	0,5	D09
▼ ØDmin (min. bore) = 10,0 mm										
10,0	5,6	0,2	**D10.0056.02.10 YER/L**	R ATU1 L AT0F	X800 X400	9,1	7,0	3,9	0,75	D10
▼ ØDmin (min. bore) = 11,0 mm										
11,0	6,7	0,2	**D11.0067.02.11 YER/L**	R AZC7 L AZC8	X800 X400	10,7	8,0	4,2	0,5	D11

Order example: **D09.0055.02.09 YER X800** (R = Right hand version, X800 = Grade)

Boring, Hard Part Turning

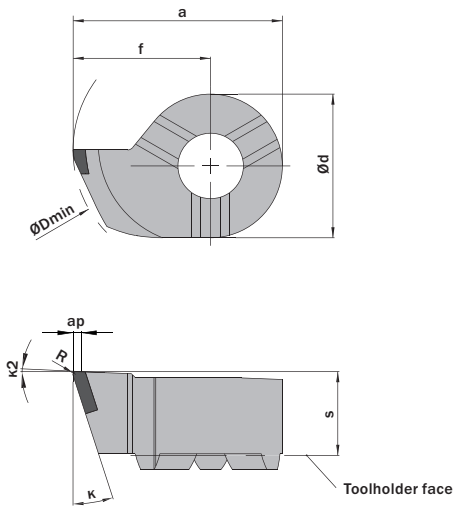
First choice for hard part turning applications in bores as of bore diameter 7,8 mm in combination with SIMTEK CBN grades.

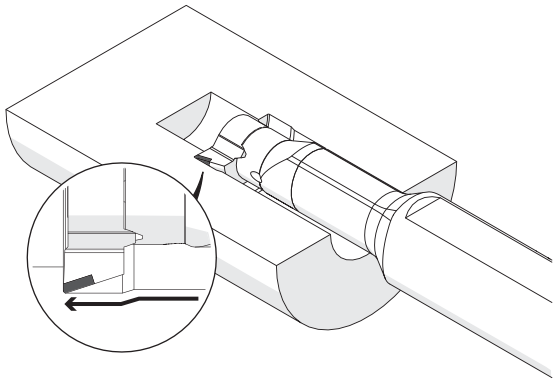
Cutting parameters (start)	
f **0,02 mm/U**	Vc **Page 71**

Suitable toolholders on page
11, 13, 14, 15, 16, 18, 20, 21, 25

SP CBN | SP HM | R | Legend **66**

Scan QR-Code | Or Visit **www.simtek.info/cp/817**





Drawing shows: D14.1887.02 YU R

ØDmin (min. bore) mm	κ	κ2	f mm	R mm	Part number	Webcode www.simtek.com/webcode	Our first choice P	a mm	ap mm	Ød mm	S mm	Connectcode www.simtek.com/ccode
▼ ØDmin (min. bore) = 7,8 mm												
7,8	18°	8°	4,65	0,2	**D08.1846.02 YU R/L**	R APDT L ABXT	CBN/GT91	7,65	0,5	6,0	3,5	D08
▼ ØDmin (min. bore) = 9,8 mm												
9,8	18°	8°	5,5	0,2	**D11.1855.02 YU R/L**	R ACNP L ADXH	CBN/GT91	9,5	0,5	8,0	4,2	D11
▼ ØDmin (min. bore) = 10,0 mm												
10,0	18°	8°	5,6	0,2	**D10.1856.02.10 YU R/L**	R AJE7 L AAT1	CBN/GT91	9,1	0,5	7,0	3,9	D10
▼ ØDmin (min. bore) = 11,0 mm												
11,0	18°	8°	6,7	0,2	**D11.1867.02 YU R/L**	R ABKZ L AEFH	CBN/GT91	10,7	0,5	8,0	4,1	D11
▼ ØDmin (min. bore) = 13,8 mm												
13,8	18°	8°	8,7	0,2	**D14.1887.02 YU R/L**	R AE3B L APK7	CBN/GT91	13,2	0,5	9,0	5,3	D14
▼ØDmin (min. bore) = 15,5 mm												
15,5	18°	8°	9,7	0,2	**D16.1897.02 YU R/L**	R AACG L AGZM	CBN/GT91	15,2	0,5	11,0	5,4	D16

Order example: **D10.1856.02.10 YU R CBN8** (R = Right hand version, CBN8 = Grade)

Copying / Profiling

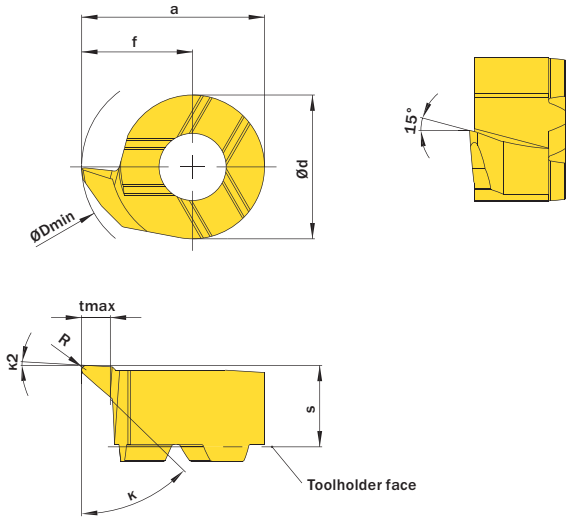
For use in bores as of minimum bore diameter 7,0 mm.

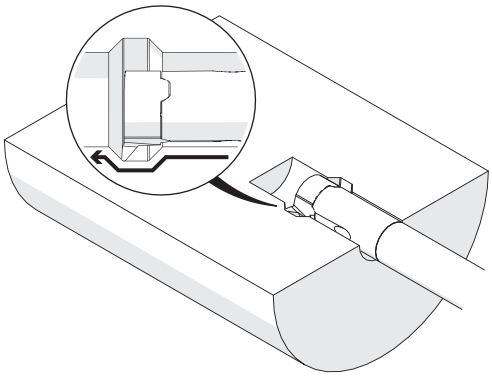
Cutting parameters (start)	
f **0,02 mm/U**	Vc **Page 71**

Suitable toolholders on page
10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 25

SP HM R Legend **66**

Scan QR-Code Or Visit **www.simtek.info/cp/814**





Drawing shows: D08.4746.02 Y R

ØDmin (min. bore) mm	κ	κ2	f mm	R mm	Part number	Webcode www.simtek.com/webcode	Our first choice P K M N S	a mm	Ød mm	S mm	tmax mm	Connectcode www.simtek.com/ccode
▼ ØDmin (min. bore) = 7,0 mm												
7,0	47°	3°	4,15	0,2	**D07.4746.02 YR/L**	R AVQU L AXBB	X800 X400	6,55	4,8	3,7	1,2	D07
▼ ØDmin (min. bore) = 7,8 mm												
7,8	30°	5°	4,65	0,2	**D08.2555.02 YR/L**	R ADG0 L AFB6	X800 X400	7,65	6,0	3,5	1,0	D08
7,8	47°	3°	4,65	0,1	**D08.4746.01 YR/L**	R AX66 L AX67	X800 X400	7,65	6,0	3,5	1,2	D08
7,8	47°	3°	4,65	0,2	**D08.4746.02 YR/L**	R AKYF L AJ2X	X800 X400	7,65	6,0	3,5	1,2	D08
7,8	47°	3°	4,65	0,4	**D08.4746.04 YR/L**	R AS6C L AS6D	X800 X400	7,65	6,0	3,5	1,2	D08
▼ ØDmin (min. bore) = 9,0 mm												
9,0	47°	3°	5,5	0,2	**D09.4755.02.09 YR/L**	R AWGJ L AWHZ	X800 X400	8,6	6,2	3,6	1,5	D09
▼ ØDmin (min. bore) = 10,0 mm												
10,0	47°	3°	5,8	0,2	**D10.4758.02.10 YR/L**	R AD29 L AJQD	X800 X400	9,3	7,0	3,9	1,8	D10
▼ØDmin (min. bore) = 11,0 mm												
11,0	30°	5°	6,7	0,2	**D11.2755.02 YR/L**	R AJ32 L AJHE	X800 X400	10,7	8,0	4,2	2,3	D11
11,0	47°	3°	6,7	0,2	**D11.4767.02 YR/L**	R AENC L AA5D	X800 X400	10,7	8,0	4,2	2,3	D11
11,0	47°	3°	6,7	0,4	**D11.4767.04 YR**	A232	X800 X400	10,7	8,0	4,2	2,3	D11
▼ ØDmin (min. bore) = 13,7 mm												
13,7	30°	5°	8,7	0,2	**D14.3555.02 YR/L**	R ABCT L AACN	X800 X400	13,2	9,0	5,3	4,0	D14
13,7	47°	3°	8,7	0,2	**D14.4787.02 YR/L**	R AB9M L ACMV	X800 X400	13,2	9,0	5,3	4,0	D14
13,7	47°	3°	8,7	0,4	**D14.4787.04 YR**	A233	X800 X400	13,2	9,0	5,3	4,0	D14
▼ ØDmin (min. bore) = 15,8 mm												
15,8	30°	5°	10,2	0,2	**D16.4055.02 YR/L**	R AJWM L AK73	X800 X400	15,7	11,0	5,4	4,3	D16
15,8	47°	3°	10,2	0,2	**D16.4702.02 YR/L**	R AEPV L APDF	X800 X400	15,7	11,0	5,4	4,3	D16
▼ ØDmin (min. bore) = 16,0 mm												
16,0	47°	3°	11,0	0,2	**D14.4710.02 YR/L**	R ANK4 L AAN6	X800 X400	15,5	9,0	5,2	5,0	D14
▼ ØDmin (min. bore) = 18,0 mm												
18,0	47°	3°	12,0	0,2	**D18.4712.02.18 YR/L**	R ADMT L ANKX	X800 X400	17,5	11,0	5,6	6,0	D18
▼ ØDmin (min. bore) = 20,0 mm												
20,0	47°	3°	14,0	0,2	**D18.4714.02.20 YR/L**	R AE0B L ABFF	X800 X400	19,5	11,0	5,6	8,0	D18

Order example: **D08.2555.02 YR X800** (R = Right hand version, X800 = Grade)

Boring and Chamfering

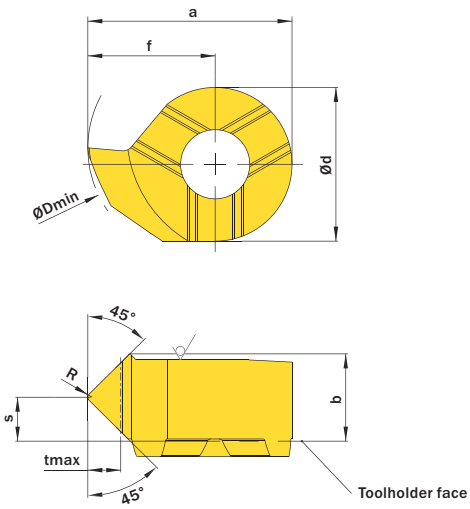
For use in bores as of minimum bore diameter 7,0 mm.

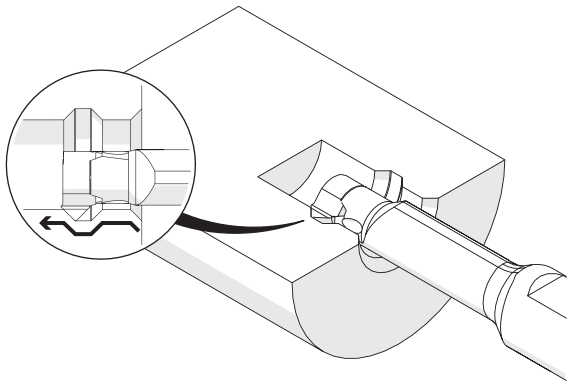
Cutting parameters (start)	
f **0,02 mm/U**	Vc **Page 71**

Suitable toolholders on page
10, 11, 12, 13, 14, 15, 18, 19, 20, 21, 25

SP HM R Legend **66**

Scan **QR-Code** Or Visit **www.simtek.info/cp/816**





Drawing shows: D10.4545.02.10 F R

R mm	Part number	Webcode www.simtek.com/webcode	Our first choice P K M N S	a mm	b mm	Ød mm	ØDmin (min. bore) mm	f mm	S mm	tmax mm	Connectcode www.simtek.com/ccode
▼ ØDmin (min. bore) = 7,0 mm											
0,2	**D07.4545.02.07 FR/L**	R AU56 L AXBA	X800 X400	6,6	3,7	4,8	7,0	4,2	2,3	0,8	D07
▼ØDmin (min. bore) = 8,0 mm											
0,2	**D08.4545.02 FR/L**	R APXW L AC28	X800 X400	7,8	3,2	6,0	8,0	4,8	1,6	1,4	D08
▼ØDmin (min. bore) = 9,0 mm											
0,2	**D09.4545.02.09 FR/L**	R AWGH L AWHY	X800 X400	8,6	3,55	6,2	9,0	5,5	1,8	1,3	D09
▼ØDmin (min. bore) = 10,0 mm											
0,2	**D10.4545.02.10 FR/L**	R ACF9 L AAY2	X800 X400	9,3	4,0	7,0	10,0	5,8	2,0	1,5	D10
▼ØDmin (min. bore) = 11,0 mm											
0,2	**D11.4545.02 FR/L**	R AM16 L ACDY	X800 X400	10,7	4,3	8,0	11,0	6,7	2,2	1,5	D11
▼ØDmin (min. bore) = 14,0 mm											
0,2	**D14.4545.02 FR/L**	R AKCK L AM8J	X800 X400	13,5	5,35	9,0	14,0	9,0	2,7	1,5	D14

Order example: **D08.4545.02 FR X800** (R = Right hand version, X800 = Grade)

Back Boring

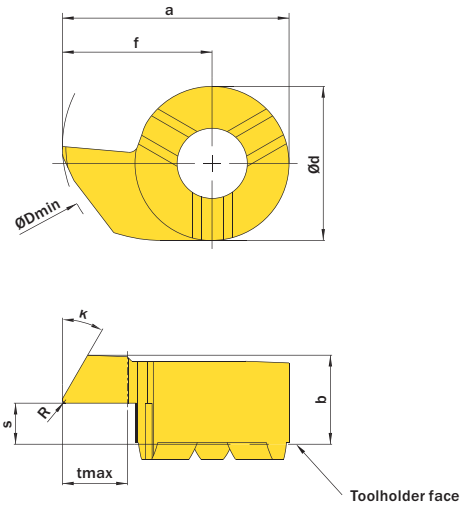
For use in bores as of minimum bore diameter 7,8 mm.

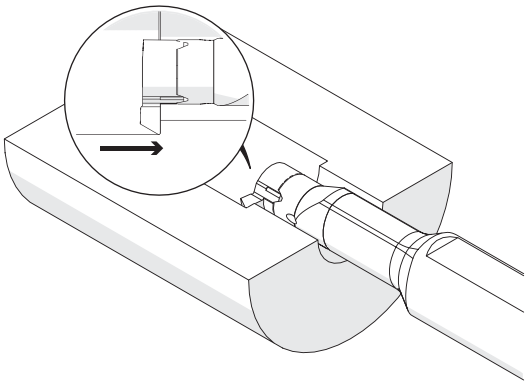
Cutting parameters (start)	
f **0,02 mm/U**	Vc **Page 71**

Suitable toolholders on page
11, 12, 13, 14, 15, 17, 18, 20, 21, 25

SP HM R Legend **66**

Scan QR-Code Or Visit **www.simtek.info/cp/828**





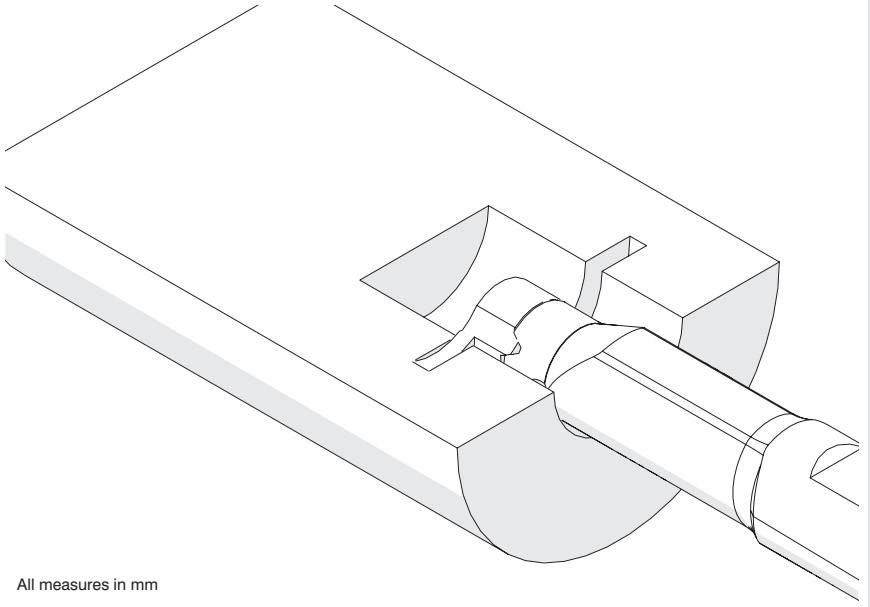
Drawing shows: D14.3087.02 Y R

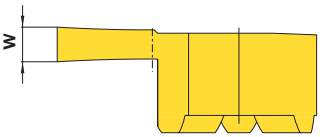
κ	f mm	R mm	Part number	Webcode www.simtek.com/webcode	Our first choice P K M N S	a mm	b mm	Ød mm	ØDmin (min. bore) mm	S mm	tmax mm	Connectcode www.simtek.com/ccode
▼ØDmin (min. bore) = 7,8 mm												
30°	4,65	0,2	**D08.3046.02 YR/L**	R AB86 L AHJF	X800 X400	7,65	3,34	6,0	7,8	1,0	1,3	D08
▼ØDmin (min. bore) = 9,0 mm												
30°	5,5	0,2	**D09.3055.02.09 YR/L**	R AWF6 L AWHK	X800 X400	8,6	3,65	6,2	9,0	1,2	1,7	D09
▼ØDmin (min. bore) = 10,0 mm												
30°	6,5	0,2	**D09.3065.02.10 YR/L**	R AWF7 L AWHM	X800 X400	9,6	3,69	6,2	10,0	1,2	2,3	D09
30°	5,8	0,2	**D10.3058.02.10 YR/L**	R ACSJ L ANMJ	X800 X400	9,3	3,95	7,0	10,0	1,3	2,0	D10
▼ØDmin (min. bore) = 11,0 mm												
30°	6,8	0,2	**D10.3068.02.11 YR/L**	R AJPW L AN7H	X800 X400	10,3	4,0	7,0	11,0	1,3	2,6	D10
30°	6,7	0,2	**D11.3067.02 YR/L**	R AJ0S L AKZX	X800 X400	10,7	4,3	8,0	11,0	1,6	2,3	D11
▼ØDmin (min. bore) = 13,8 mm												
30°	8,7	0,2	**D14.3087.02 YR/L**	R AGJN L AG8E	X800 X400	13,2	5,4	9,0	13,8	2,4	3,5	D14
▼ØDmin (min. bore) = 20,0 mm												
30°	14,0	0,2	**D18.3014.02.20 YR/L**	R AWDS L AWDQ	X800 X400	19,5	5,7	11,0	20,0	1,6	8,0	D18

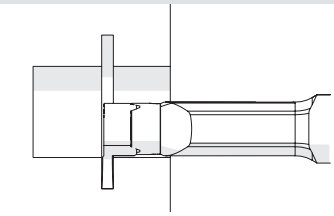
Order example: **D14.3087.02 YR X800** (R = Right hand version, X800 = Grade)

Standard Tools

Grooving







All measures in mm

Part number	ØDmin (min. bore)	w	Nominal width of groove	see Page
D07.0100.00.07 GR/L	7,0	1,0	-	33
D07.0150.00.07 GR/L	7,0	1,5	-	33
D07.0100.00.08 GR/L	7,8	1,0	-	33
D07.0150.00.08 GR/L	7,8	1,5	-	33
D08.0070.00 ZR/L	8,0	0,73	0,7	34
D08.0078.00 GR/L	8,0	0,79	-	34
D08.0080.00 ZR/L	8,0	0,83	0,8	34
D08.0090.00 ZR/L	8,0	0,93	0,9	34
D08.0100.00 GR/L	8,0	1,0	-	34
D08.0110.00 GR/L	8,0	1,2	1,1	34
D08.0130.00 GR/L	8,0	1,4	1,3	34
D08.0150.00 GR/L	8,0	1,5	-	34
D08.0157.00 GR/L	8,0	1,57	-	34
D08.0160.00 GR/L	8,0	1,7	1,6	34
D08.0200.00 GR/L	8,0	2,0	-	34
D09.0070.00.09 GR/L	9,0	0,73	0,7	35
D09.0080.00.09 GR/L	9,0	0,83	0,8	35
D09.0090.00.09 GR/L	9,0	0,93	0,9	35
D09.0100.00.09 GR/L	9,0	1,0	-	35
D09.0110.00.09 GR/L	9,0	1,2	1,1	35
D09.0130.00.09 GR/L	9,0	1,4	1,3	35
D09.0150.00.09 GR/L	9,0	1,5	-	35
D09.0160.00.09 GR/L	9,0	1,7	1,6	35
D09.0200.00.09 GR/L	9,0	2,0	-	35
D09.0250.00.09 GR/L	9,0	2,5	-	35
D09.0300.00.09 GR/L	9,0	3,0	-	35
D10.0070.00.10 GR/L	10,0	0,73	0,7	36
D10.0080.00.10 GR/L	10,0	0,83	0,8	36
D10.0090.00.10 GR/L	10,0	0,93	0,9	36
D10.0100.00.10 GR/L	10,0	1,0	-	36
D10.0110.00.10 GR/L	10,0	1,2	1,1	36
D10.0130.00.10 GR/L	10,0	1,4	1,3	36
D10.0150.00.10 GR/L	10,0	1,5	-	36
D10.0160.00.10 GR/L	10,0	1,7	1,6	36
D10.0200.00.10 GR/L	10,0	2,0	-	36
D10.0238.00.10 GR/L	10,0	2,39	-	36
D10.0250.00.10 GR/L	10,0	2,5	-	36
D10.0300.00.10 GR/L	10,0	3,0	-	36
D10.0318.00.10 GR/L	10,0	3,18	-	36
D11.0070.00 ZR/L	11,0	0,73	0,7	38
D11.0078.00 ZR/L	11,0	0,79	-	38

Part number	ØDmin (min. bore)	w	Nominal width of groove	see Page
D11.0080.00 ZR/L	11,0	0,83	0,8	38
D11.0090.00 ZR/L	11,0	0,93	0,9	38
D10.0100.00.11 GR/L	11,0	1,0	-	37
D11.0100.00 GR/L	11,0	1,0	-	38
D11.0110.00 GR/L	11,0	1,2	1,1	38
D11.0130.00 GR/L	11,0	1,4	1,3	38
D10.0150.00.11 GR/L	11,0	1,5	-	37
D11.0150.00 GR/L	11,0	1,5	-	38
D11.0157.00 GR/L	11,0	1,57	-	38
D11.0160.00 GR/L	11,0	1,7	1,6	38
D10.0200.00.11 GR/L	11,0	2,0	-	37
D11.0200.00 GR/L	11,0	2,0	-	38
D10.0238.00.11 GR/L	11,0	2,38	-	37
D11.0238.00 GR/L	11,0	2,38	-	38
D10.0250.00.11 GR/L	11,0	2,5	-	37
D11.0250.00 GR/L	11,0	2,5	-	38
D10.0300.00.11 GR/L	11,0	3,0	-	37
D11.0300.00 GR/L	11,0	3,0	-	38
D10.0318.00.11 GR/L	11,0	3,18	-	37
D11.0318.00 GR/L	11,0	3,18	-	38
D10.0100.00.12 GR/L	12,0	1,0	-	39
D10.0150.00.12 GR/L	12,0	1,5	-	39
D10.0200.00.12 GR/L	12,0	2,0	-	39
D14.0070.00 ZR/L	14,0	0,73	0,7	40
D14.0078.00 ZR/L	14,0	0,78	-	40
D14.0080.00 ZR/L	14,0	0,83	0,8	40
D14.0086.00 ZR/L	14,0	0,86	-	40
D14.0090.00 ZR/L	14,0	0,93	0,9	40
D14.0100.00 ZR/L	14,0	1,0	-	40
D14.0110.00 GR/L	14,0	1,2	1,1	40
D14.0130.00 GR/L	14,0	1,4	1,3	40
D14.0150.00 GR/L	14,0	1,5	-	40
D14.0157.00 GR/L	14,0	1,57	-	40
D14.0160.00 GR/L	14,0	1,7	1,6	40
D14.0200.00 GR/L	14,0	2,0	-	40
D14.0238.00 GR/L	14,0	2,38	-	40
D14.0250.00 GR/L	14,0	2,5	-	40
D14.0300.00 GR/L	14,0	3,0	-	40
D14.0318.00 GR/L	14,0	3,18	-	40
D16.0070.00 ZR/L	16,0	0,73	0,7	42
D16.0078.00 ZR/L	16,0	0,79	-	42

Part number	ØDmin (min. bore)	w	Nominal width of groove	see Page
D16.0080.00 ZR/L	16,0	0,83	0,8	42
D16.0090.00 ZR/L	16,0	0,93	0,9	42
D16.0110.00 GR/L	16,0	1,2	1,1	42
D16.0130.00 GR/L	16,0	1,4	1,3	42
D14.0150.00.16 GR/L	16,0	1,5	-	41
D16.0150.00 GR/L	16,0	1,5	-	42
D16.0157.00 GR/L	16,0	1,57	-	42
D16.0160.00 GR/L	16,0	1,7	1,6	42
D14.0200.00.16 GR/L	16,0	2,0	-	41
D16.0200.00 GR/L	16,0	2,0	-	42
D14.0250.00.16 GR/L	16,0	2,5	-	41
D16.0250.00 GR/L	16,0	2,5	-	42
D14.0300.00.16 GR/L	16,0	3,0	-	41
D16.0300.00 GR/L	16,0	3,0	-	42
D16.0350.00 GR/L	16,0	3,5	-	42
D16.0400.00 GR/L	16,0	4,0	-	42
D14.0150.00.17 GR/L	17,0	1,5	-	43
D14.0200.00.17 GR/L	17,0	2,0	-	43
D14.0250.00.17 GR/L	17,0	2,5	-	43
D14.0300.00.17 GR/L	17,0	3,0	-	43
D18.0150.00.18 GR/L	18,0	1,5	-	44
D18.0200.00.18 GR/L	18,0	2,0	-	44
D18.0238.00.18 GR/L	18,0	2,39	-	44
D18.0250.00.18 GR/L	18,0	2,5	-	44
D18.0300.00.18 GR/L	18,0	3,0	-	44
D18.0318.00.18 GR/L	18,0	3,18	-	44
D18.0350.00.18 GR/L	18,0	3,5	-	44
D18.0400.00.18 GR/L	18,0	4,0	-	44
D18.0150.00.20 GR/L	20,0	1,5	-	45
D18.0200.00.20 GR/L	20,0	2,0	-	45
D18.0238.00.20 GR/L	20,0	2,39	-	45
D18.0250.00.20 GR/L	20,0	2,5	-	45
D18.0300.00.20 GR/L	20,0	3,0	-	45
D18.0350.00.20 GR/L	20,0	3,5	-	45
D18.0400.00.20 GR/L	20,0	4,0	-	45

Grooving

For general grooving as well as for circlip ring grooving. For use in bores as of minimum bore diameter 7,0 mm.

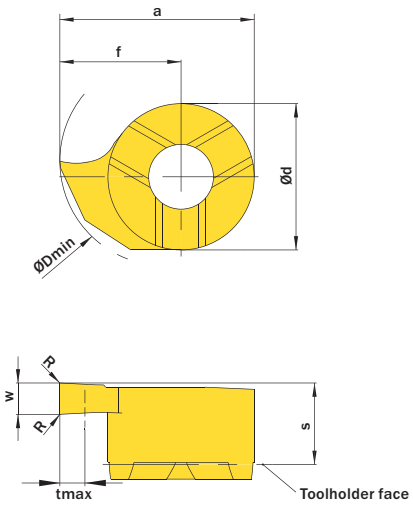
Cutting parameters (start)	
f **0,02 mm/U**	Vc **Page 71**

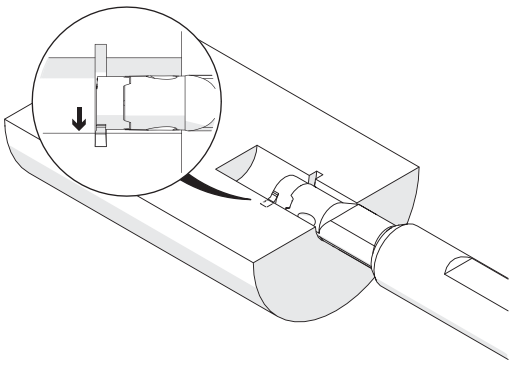
Suitable toolholders on page
10, 19, 21

Similar tools on page
32

SP HM R Legend **66**

Scan QR-Code Or Visit **www.simtek.info/cp/965**





w +0,03 mm	Nominal width of groove mm	ØDmin (min. bore) mm	Part number	Webcode www.simtek.com/webcode	Our first choice P K M N S	a mm	Ød mm	f mm	R mm	S mm	tmax mm	Connectcode www.simtek.com/ccode
▼ØDmin (min. bore) = 7,0 mm												
1,0	-	7,0	**D07.0100.00.07 GR/L**	R AU52 L AXA3	X800 X400	6,6	4,8	4,2	-	3,7	1,0	D07
1,5	-	7,0	**D07.0150.00.07 GR/L**	R AU53 L AXA5	X800 X400	6,6	4,8	4,2	-	3,7	1,0	D07
▼ØDmin (min. bore) = 7,8 mm												
1,0	-	7,8	**D07.0100.00.08 GR/L**	R AU54 L AXA4	X800 X400	7,6	4,8	5,2	-	3,7	2,0	D07
1,5	-	7,8	**D07.0150.00.08 GR/L**	R AU55 L AXA6	X800 X400	7,6	4,8	5,2	-	3,7	2,0	D07

Related Items can be found on the following page as well! Continued Table

Order example: **D07.0150.00.08 GR X800** (R = Right hand version, X800 = Grade)

simtek individual | D07. w, 1/100 mm, 4 Digits . R, 1/100 mm , 3 Digits .07 Tolerance R

Example Part number: **D07.0156.015.07 XN R**

Grooving

For general grooving as well as for circlip ring grooving. For use in bores as of minimum bore diameter 8,0 mm (0.315“).

Cutting parameters (start)	
f **0,02 mm/U**	Vc **Page 71**

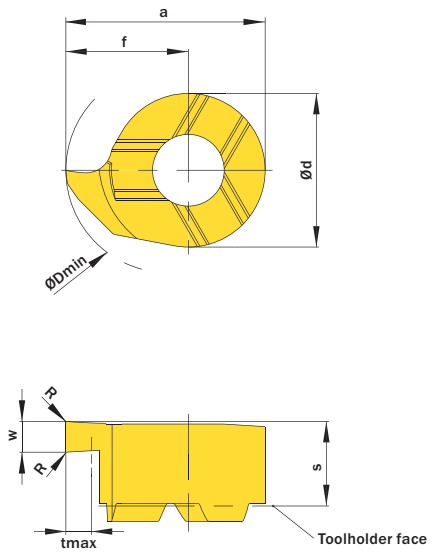
Suitable toolholders on page
11, 20

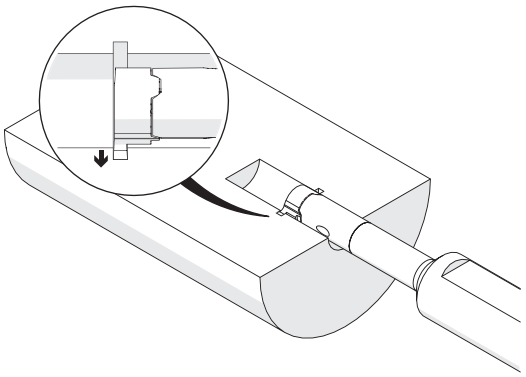
Similar tools on page
32

SP HM R Legend **66**

Scan QR-Code Or Visit **www.simtek.info/cp/829**

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





Drawing shows: D08.0110.00 G R

w +0,03mm / 0.001“ mm/inch	Nominal width of groove mm/inch	ØDmin (min. bore) mm/inch	Part number	Webcode www.simtek.com/webcode	Our first choice P K M N S	a mm/inch	Ød mm/inch	f mm/inch	R mm/inch	S mm/inch	tmax mm/inch	Connectcode www.simtek.com/ccode	
Continued Table			**Related Items can be found on the previous page as well!**										
0,73	0,7	8,0	**D08.0070.00 ZR/L**	R AB9U L ADBZ	X800 X400	7,8	6,0	4,8	-	3,3	1,0	D08	
0.031“	-	0.315“	**D08.0078.00 GR/L**	R ANEN L AH0A	X800 X400	0.307“	0.236“	0.189“	-	0.130“	0.039“	D08	inch
0,83	0,8	8,0	**D08.0080.00 ZR/L**	R AKJ6 L AMGG	X800 X400	7,8	6,0	4,8	-	3,3	1,0	D08	
0,93	0,9	8,0	**D08.0090.00 ZR/L**	R AN56 L AMYN	X800 X400	7,8	6,0	4,8	-	3,3	1,0	D08	
1,0	-	8,0	**D08.0100.00 GR/L**	R AKUA L AGCE	X800 X400	7,8	6,0	4,8	-	3,3	1,0	D08	
1,2	1,1	8,0	**D08.0110.00 GR/L**	R ABPM L ANT9	X800 X400	7,8	6,0	4,8	-	3,3	1,0	D08	
1,4	1,3	8,0	**D08.0130.00 GR/L**	R AMN4 L AG33	X800 X400	7,8	6,0	4,8	-	3,3	1,0	D08	
1,5	-	8,0	**D08.0150.00 GR/L**	R AK83 L AFKC	X800 X400	7,8	6,0	4,8	-	3,3	1,0	D08	
0.062“	-	0.315“	**D08.0157.00 GR/L**	R AKYG L AHA1	X800 X400	0.307“	0.307“	0.236“	-	0.130“	0.039“	D08	inch
1,7	1,6	8,0	**D08.0160.00 GR/L**	R ACV2 L AGGD	X800 X400	7,8	6,0	4,8	-	3,3	1,0	D08	
2,0	-	8,0	**D08.0200.00 GR/L**	R AJB6 L ANSM	X800 X400	7,8	6,0	4,8	-	3,3	1,0	D08	
			Related Items can be found on the following page as well!									**Continued Table**	

Order example: **D08.0150.00 GR X800** (R = Right hand version, X800 = Grade)

simtek individual | D08. w, 1/100 mm, 4 Digits . R, 1/100 mm , 3 Digits Tolerance R/L

Example Part number: **D08.0156.015 XN R** or **D08.0156.015 XN L**

Grooving

For general grooving as well as for circlip ring grooving. For use in bores as of minimum bore diameter 9,0 mm.

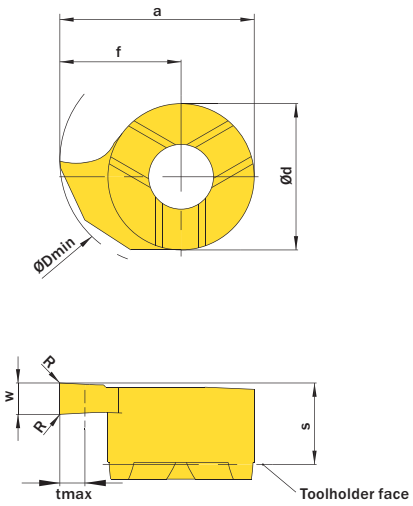
Cutting parameters (start)	
f **0,02 mm/U**	Vc **Page 71**

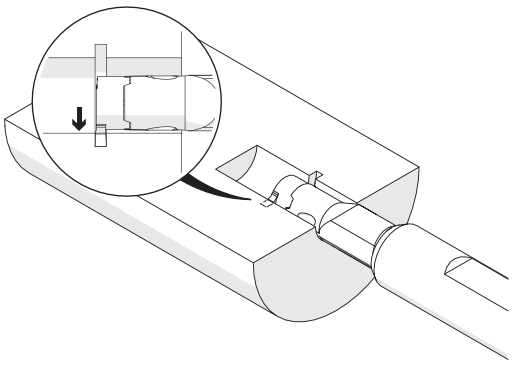
Suitable toolholders on page
12, 21

Similar tools on page
32

SP HM R Legend **66**

Scan QR-Code Or Visit **www.simtek.info/cp/988**





w +0,03 mm	Nominal width of groove mm	ØDmin (min. bore) mm	Part number	Webcode www.simtek.com/webcode	Our first choice P K M N S	a mm	Ød mm	f mm	R mm	S mm	tmax mm	Connectcode www.simtek.com/ccode
Continued Table			**Related Items can be found on the previous page as well!**									
0,73	0,7	9,0	**D09.0070.00.09 GR/L**	R AWFX L AWHA	X800 X400	8,6	6,2	5,5	-	3,6	1,2	D09
0,83	0,8	9,0	**D09.0080.00.09 GR/L**	R AWFW L AWG9	X800 X400	8,6	6,2	5,5	-	3,6	1,3	D09
0,93	0,9	9,0	**D09.0090.00.09 GR/L**	R AWFV L AWG8	X800 X400	8,6	6,2	5,5	-	3,6	1,5	D09
1,0	-	9,0	**D09.0100.00.09 GR/L**	R AWFU L AWG7	X800 X400	8,6	6,2	5,5	-	3,6	1,8	D09
1,2	1,1	9,0	**D09.0110.00.09 GR/L**	R AWFT L AWG6	X800 X400	8,6	6,2	5,5	-	3,6	1,8	D09
1,4	1,3	9,0	**D09.0130.00.09 GR/L**	R AWFS L AWG5	X800 X400	8,6	6,2	5,5	-	3,6	1,8	D09
1,5	-	9,0	**D09.0150.00.09 GR/L**	R AWFQ L AWG4	X800 X400	8,6	6,2	5,5	-	3,6	1,8	D09
1,7	1,6	9,0	**D09.0160.00.09 GR/L**	R AWFP L AWG3	X800 X400	8,6	6,2	5,5	-	3,6	1,8	D09
2,0	-	9,0	**D09.0200.00.09 GR/L**	R AWFN L AWG2	X800 X400	8,6	6,2	5,5	-	3,6	1,8	D09
2,5	-	9,0	**D09.0250.00.09 GR/L**	R AWFM L AWG1	X800 X400	8,6	6,2	5,5	-	3,6	1,8	D09
3,0	-	9,0	**D09.0300.00.09 GR/L**	R AWFK L AWG0	X800 X400	8,6	6,2	5,5	-	3,6	1,8	D09

Related Items can be found on the following page as well! Continued Table

Order example: **D09.0200.00.09 GR X800** (R = Right hand version, X800 = Grade)

simtek individual | D09. w, 1/100 mm, 4 Digits . R, 1/100 mm , 3 Digits .09 Tolerance R
Example Part number: **D09.0156.015.09 XN R**

Grooving

For general grooving as well as for circlip ring grooving. For use in bores as of minimum bore diameter 10,0 mm (0.394“).

Cutting parameters (start)	
f **0,02 mm/U**	Vc **Page 71**

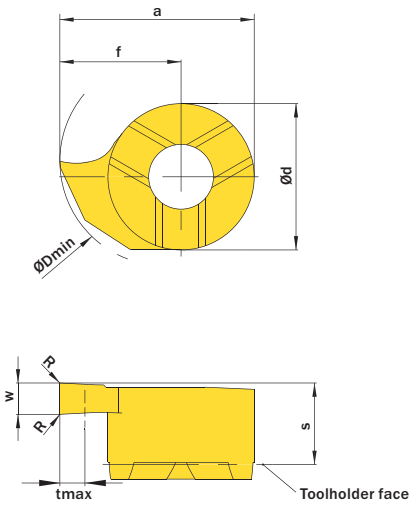
Suitable toolholders on page
13, 18, 21

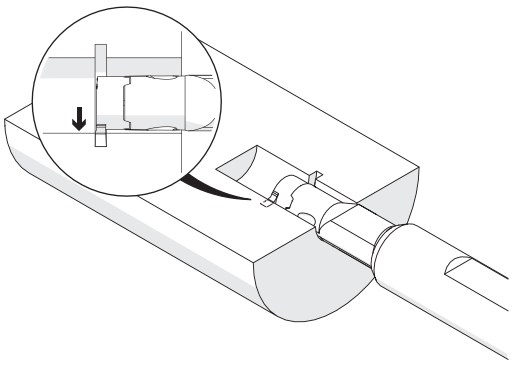
Similar tools on page
32

SP HM R Legend **66**

Scan QR-Code Or Visit **www.simtek.info/cp/839**

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





w +0,03mm / 0.001“ mm/inch	Nominal width of groove mm/inch	ØDmin (min. bore) mm/inch	Part number	Webcode www.simtek.com/webcode	Our first choice P K M N S	a mm/inch	Ød mm/inch	f mm/inch	R mm/inch	S mm/inch	tmax mm/inch	Connectcode www.simtek.com/ccode	
Continued Table			**Related Items can be found on the previous page as well!**										
0,73	0,7	10,0	**D10.0070.00.10 GR/L**	R AFSU L AAB2	X800 X400	9,3	7,0	5,8	-	3,9	1,2	D10	
0,83	0,8	10,0	**D10.0080.00.10 GR/L**	R AHQS L AGM7	X800 X400	9,3	7,0	5,8	-	3,9	1,3	D10	
0,93	0,9	10,0	**D10.0090.00.10 GR/L**	R AMHS L AG18	X800 X400	9,3	7,0	5,8	-	3,9	1,5	D10	
1,0	-	10,0	**D10.0100.00.10 GR/L**	R AH7V L APDY	X800 X400	9,3	7,0	5,8	-	3,9	1,8	D10	
1,2	1,1	10,0	**D10.0110.00.10 GR/L**	R AC8U L ADN2	X800 X400	9,3	7,0	5,8	-	3,9	1,8	D10	
1,4	1,3	10,0	**D10.0130.00.10 GR/L**	R ANFZ L AG0G	X800 X400	9,3	7,0	5,8	-	3,9	1,8	D10	
1,5	-	10,0	**D10.0150.00.10 GR/L**	R AG47 L AG0K	X800 X400	9,3	7,0	5,8	-	3,9	1,8	D10	
1,7	1,6	10,0	**D10.0160.00.10 GR/L**	R ANVJ L AJV0	X800 X400	9,3	7,0	5,8	-	3,9	1,8	D10	
2,0	-	10,0	**D10.0200.00.10 GR/L**	R AAGC L APGT	X800 X400	9,3	7,0	5,8	-	3,9	1,8	D10	
0.094“	-	0.394“	**D10.0238.00.10 GR/L**	R A07V L A07U	X800 X400	0.366“	0.276“	0.228“	-	0.154“	0.071“	D10	inch
2,5	-	10,0	**D10.0250.00.10 GR/L**	R AKZ9 L AH47	X800 X400	9,3	7,0	5,8	-	3,9	1,8	D10	
3,0	-	10,0	**D10.0300.00.10 GR/L**	R AJ38 L AKF5	X800 X400	9,3	7,0	5,8	-	3,9	1,8	D10	
0.125“	-	0.394“	**D10.0318.00.10 GR/L**	R AF7U L ABBT	X800 X400	0.366“	0.276“	0.228“	-	0.154“	0.071“	D10	inch
			Related Items can be found on the following page as well!									**Continued Table**	

Order example: **D10.0250.00.10 GR X800** (R = Right hand version, X800 = Grade)

simtek individual | D10. w, 1/100 mm, 4 Digits . R, 1/100 mm , 3 Digits .10 Tolerance R/L

Example Part number: **D10.0156.015.10 XN R** or **D10.0156.015.10 XN L**

Grooving

For general grooving as well as for circlip ring grooving. For use in bores as of minimum bore diameter 11,0 mm (0.433“).

Cutting parameters (start)	
f **0,02 mm/U**	Vc **Page 71**

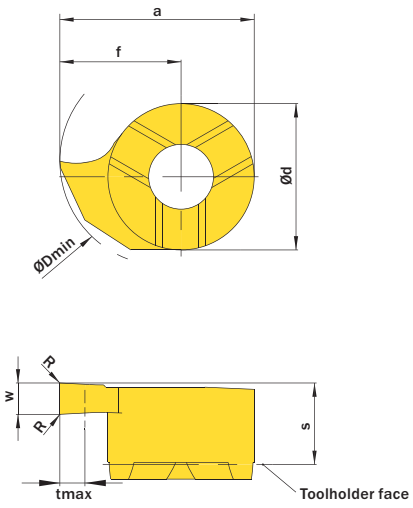
Suitable toolholders on page
13, 18, 21

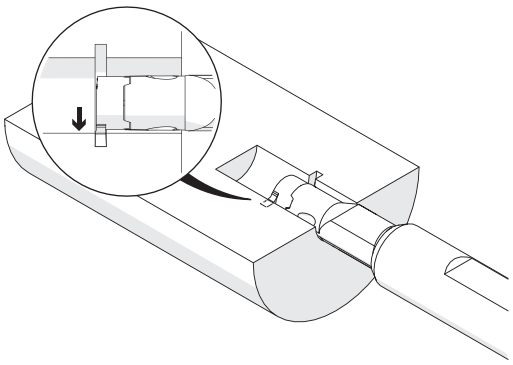
Similar tools on page
32

SP CBN | SP HM | R | Legend **66**

Scan QR-Code | Or Visit **www.simtek.info/cp/853**

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





w +0,03mm / 0.001“ mm/inch	Nominal width of groove mm/inch	ØDmin (min. bore) mm/inch	Part number	Webcode www.simtek.com/webcode	Our first choice P K M N S	a mm/inch	Ød mm/inch	f mm/inch	R mm/inch	S mm/inch	tmax mm/inch	Connectcode www.simtek.com/ccode	
Continued Table			**Related Items can be found on the previous page as well!**										
1,0	-	11,0	**D10.0100.00.11 GR/L**	R AM4Q L AFYT	X800 X400	10,3	7,0	6,8	-	3,9	2,8	D10	
1,5	-	11,0	**D10.0150.00.11 GR/L**	R AD1W L AJNG	X800 X400	10,3	7,0	6,8	-	3,9	2,8	D10	
2,0	-	11,0	**D10.0200.00.11 GR/L**	R ANQ9 L AAD7	X800 X400	10,3	7,0	6,8	-	3,9	2,8	D10	
0.094“	-	0.433“	**D10.0238.00.11 GR/L**	R A07W L A07X	X800 X400	0.406“	0.276“	0.268“	-	0.154“	0.110“	D10	inch
2,5	-	11,0	**D10.0250.00.11 GR/L**	R AFX1 L AM7Q	X800 X400	10,3	7,0	6,8	-	3,9	2,8	D10	
3,0	-	11,0	**D10.0300.00.11 GR/L**	R AANE L AHDC	X800 X400	10,3	7,0	6,8	-	3,9	2,8	D10	
0.125“	-	0.433“	**D10.0318.00.11 GR/L**	R AGWZ L AM7D	X800 X400	0.406“	0.276“	0.268“	-	0.154“	0.110“	D10	inch
			Related Items can be found on the following page as well!									**Continued Table**	

Order example: **D10.0200.00.11 GR X800** (R = Right hand version, X800 = Grade)

simtek individual | D10. w, 1/100 mm, 4 Digits . R, 1/100 mm , 3 Digits .11 Tolerance R/L

Example Part number: **D10.0156.015.11 XN R** or **D10.0156.015.11 XN L**

Grooving

For general grooving as well as for circlip ring grooving. For use in bores as of minimum bore diameter 11,0 mm (0.433“).

Cutting parameters (start)	
f **0,02 mm/U**	Vc **Page 71**

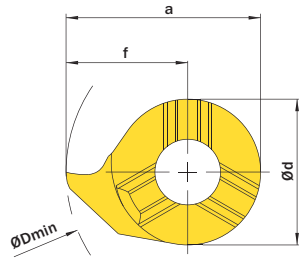
Suitable toolholders on page
14, 20

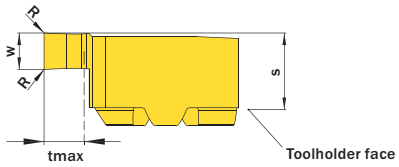
Similar tools on page
32

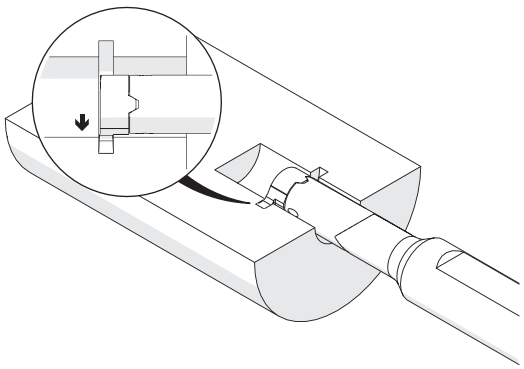
SP HM R Legend **66**

Scan QR-Code Or Visit **www.simtek.info/cp/840**

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







Drawing shows: D11.0200.00 G R

w +0,03mm / 0.001“ mm/inch	Nominal width of groove mm/inch	ØDmin (min. bore) mm/inch	Part number	Webcode www.simtek.com/webcode	Our first choice P K M N S	a mm/inch	Ød mm/inch	f mm/inch	R mm/inch	S mm/inch	tmax mm/inch	Connectcode www.simtek.com/ccode	
Continued Table			**Related Items can be found on the previous page as well!**										
0,73	0,7	11,0	**D11.0070.00 ZR/L**	R AP1P L APPC	X800 X400	10,7	8,0	6,7	-	4,2	1,2	D11	
0.310“	-	0.433“	**D11.0078.00 ZR/L**	R AMV4 L AJGV	X800 X400	0.421“	0.315“	0.264“	-	0.165“	0.051“	D11	inch
0,83	0,8	11,0	**D11.0080.00 ZR/L**	R AJWD L AAC9	X800 X400	10,7	8,0	6,7	-	4,2	1,3	D11	
0,93	0,9	11,0	**D11.0090.00 ZR/L**	R AJX5 L AFEU	X800 X400	10,7	8,0	6,7	-	4,2	1,5	D11	
1,0	-	11,0	**D11.0100.00 GR/L**	R AF27 L AA5C	X800 X400	10,7	8,0	6,7	-	4,2	2,3	D11	
1,2	1,1	11,0	**D11.0110.00 GR/L**	R AC49 L APP0	X800 X400	10,7	8,0	6,7	-	4,2	2,3	D11	
1,4	1,3	11,0	**D11.0130.00 GR/L**	R ABF3 L ABS9	X800 X400	10,7	8,0	6,7	-	4,2	2,3	D11	
1,5	-	11,0	**D11.0150.00 GR/L**	R ADEV L AMGD	X800 X400	10,7	8,0	6,7	-	4,2	2,3	D11	
0.062“	-	0.433“	**D11.0157.00 GR/L**	R AEAT L APWW	X800 X400	0.421“	0.315“	0.264“	-	0.165“	0.091“	D11	inch
1,7	1,6	11,0	**D11.0160.00 GR/L**	R AK4Q L AJUG	X800 X400	10,7	8,0	6,7	-	4,2	2,3	D11	
2,0	-	11,0	**D11.0200.00 GR/L**	R AKEC L AP30	X800 X400	10,7	8,0	6,7	-	4,2	2,3	D11	
0.094“	-	11,0	**D11.0238.00 GR/L**	R ANH9 L AHA0	X800 X400	0.421“	0.315“	0.264“	-	0.165“	0.091“	D11	inch
2,5	-	11,0	**D11.0250.00 GR/L**	R AB6U L AM90	X800 X400	10,7	8,0	6,7	-	4,2	2,3	D11	
3,0	-	11,0	**D11.0300.00 GR/L**	R AP3N L AAAF	X800 X400	10,7	8,0	6,7	-	4,2	2,3	D11	
0.125“	-	11,0	**D11.0318.00 GR/L**	R AKB5 L AF8V	X800 X400	0.421“	0.315“	0.264“	-	0.165“	0.091“	D11	inch

Related Items can be found on the following page as well! Continued Table

Order example: **D11.0110.00 GR X800** (R = Right hand version, X800 = Grade)

simtek individual | D11. w, 1/100 mm, 4 Digits . R, 1/100 mm , 3 Digits Tolerance R/L

Example Part number: **D11.0156.015 XN R** or **D11.0156.015 XN L**

Grooving

For general grooving as well as for circlip ring grooving. For use in bores as of minimum bore diameter 12,0 mm.

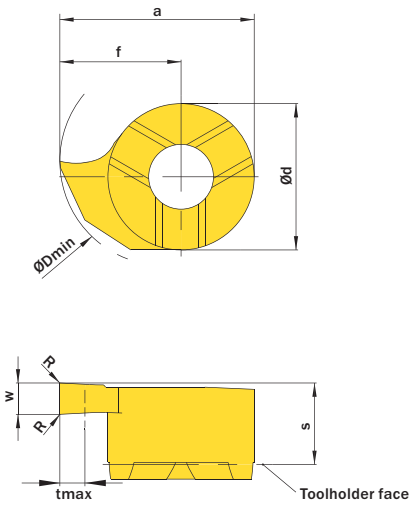
Cutting parameters (start)	
f **0,02 mm/U**	Vc **Page 71**

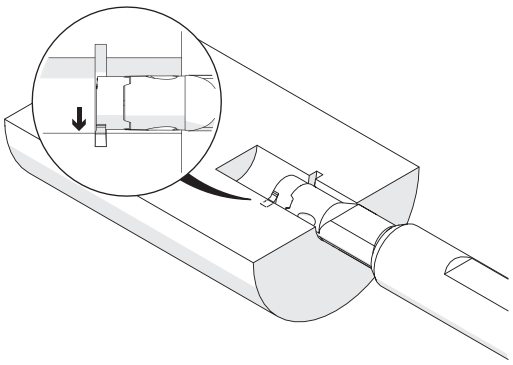
Suitable toolholders on page
13, 18, 21

Similar tools on page
32

SP HM R Legend **66**

Scan QR-Code Or Visit **www.simtek.info/cp/854**





w +0,03 mm	Nominal width of groove mm	ØDmin (min. bore) mm	Part number	Webcode www.simtek.com/webcode	Our first choice P K M N S	a mm	Ød mm	f mm	R mm	S mm	tmax mm	Connectcode www.simtek.com/ccode
Continued Table			**Related Items can be found on the previous page as well!**									
1,0	-	12,0	**D10.0100.00.12 GR/L**	R AJBX L AMJU	X800 X400	10,9	7,0	7,4	-	3,8	3,4	D10
1,5	-	12,0	**D10.0150.00.12 GR/L**	R ABE6 L AGJW	X800 X400	10,9	7,0	7,4	-	3,9	3,4	D10
2,0	-	12,0	**D10.0200.00.12 GR/L**	R AHWQ L AETB	X800 X400	10,9	7,0	7,4	-	3,9	3,4	D10
Related Items can be found on the following page as well! Continued Table												

Order example: **D10.0100.00.12 GR X800** (R = Right hand version, X800 = Grade)

simtek individual | D10. w, 1/100 mm, 4 Digits . R, 1/100 mm , 3 Digits .12 Tolerance R/L

Example Part number: **D10.0156.015.12 XN R** or **D10.0156.015.12 XN L**

Grooving

For general grooving as well as for circlip ring grooving. For use in bores as of minimum bore diameter 14,0 mm (0.551“).

Cutting parameters (start)	
f **0,02 mm/U**	Vc **Page 71**

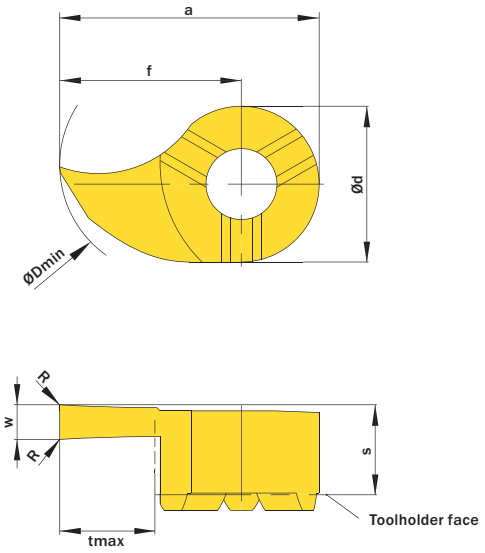
Suitable toolholders on page
15, 18, 21, 25

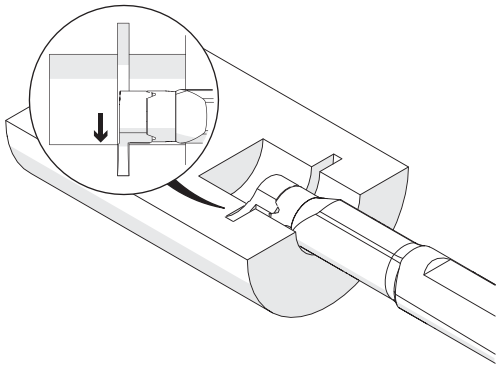
Similar tools on page
32

SP HM R Legend **66**

Scan QR-Code Or Visit **www.simtek.info/cp/841**

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





w +0,03mm / 0.001“	Nominal width of groove	ØDmin (min. bore)	Part number	Webcode www.simtek.com/webcode	Our first choice	a	Ød	f	R	S	tmax	Connectcode www.simtek.com/ccode	
mm/inch	mm/inch	mm/inch			P K M N S	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch		

Continued Table **Related Items can be found on the previous page as well!**

0,73	0,7	14,0	**D14.0070.00 ZR/L**	R AB83	L AMAH	X800 X400	13,5	9,0	9,0	-	5,2	1,2	D14		
0.031“	-	0.551“	**D14.0078.00 ZR/L**	R AFD3	L AJ0C	X800 X400	0.531“	0.354“	0.354“	-	0.205“	0.051“	D14		inch
0,83	0,8	14,0	**D14.0080.00 ZR/L**	R AF8T	L AMXS	X800 X400	13,5	9,0	9,0	-	5,2	1,3	D14		
0,86	-	14,0	**D14.0086.00 ZR/L**	R AJV2	L ADKX	X800 X400	13,5	9,0	9,0	-	5,2	1,5	D14		
0,93	0,9	14,0	**D14.0090.00 ZR/L**	R AEAM	L ADZA	X800 X400	13,5	9,0	9,0	-	5,2	1,5	D14		
1,0	-	14,0	**D14.0100.00 ZR/L**	R APFC	L AMY9	X800 X400	13,5	9,0	9,0	-	5,2	4,0	D14		
1,2	1,1	14,0	**D14.0110.00 GR/L**	R AK84	L AM81	X800 X400	13,5	9,0	9,0	-	5,3	4,0	D14		
1,4	1,3	14,0	**D14.0130.00 GR/L**	R ADGC	L AAFB	X800 X400	13,5	9,0	9,0	-	5,3	4,0	D14		
1,5	-	14,0	**D14.0150.00 GR/L**	R AK6Q	L AAJG	X800 X400	13,5	9,0	9,0	-	5,3	4,0	D14		
0.062“	-	0.551“	**D14.0157.00 GR/L**	R ANYM	L AFDN	X800 X400	0.531“	0.354“	0.354“	-	0.209“	0.157“	D14		inch
1,7	1,6	14,0	**D14.0160.00 GR/L**	R AJTA	L AC77	X800 X400	13,5	9,0	9,0	-	5,3	4,0	D14		
2,0	-	14,0	**D14.0200.00 GR/L**	R AG8N	L AMW3	X800 X400	13,5	9,0	9,0	-	5,3	4,0	D14		
0.094“	-	0.551“	**D14.0238.00 GR/L**	R ACPC	L AB79	X800 X400	0.531“	0.354“	0.354“	-	0.209“	0.157“	D14		inch
2,5	-	14,0	**D14.0250.00 GR/L**	R AHSS	L AA56	X800 X400	13,5	9,0	9,0	-	5,3	4,0	D14		
3,0	-	14,0	**D14.0300.00 GR/L**	R AFFU	L AHHA	X800 X400	13,5	9,0	9,0	-	5,3	4,0	D14		
0.125“	-	0.551“	**D14.0318.00 GR/L**	R AKKN	L APJD	X800 X400	0.531“	0.354“	0.354“	-	0.209“	0.157“	D14		inch

Related Items can be found on the following page as well! Continued Table

Order example: **D14.0200.00 GR X800** (R = Right hand version, X800 = Grade)

simtek individual | D14. w, 1/100 mm, 4 Digits . R, 1/100 mm , 3 Digits Tolerance R/L

Example Part number: **D14.0156.015 XN R** or **D14.0156.015 XN L**

Grooving

For general grooving as well as for circlip ring grooving. For use in bores as of minimum bore diameter 16,0 mm.

Cutting parameters (start)	
f **0,02 mm/U**	Vc **Page 71**

Suitable toolholders on page
15, 18, 21, 25

Similar tools on page
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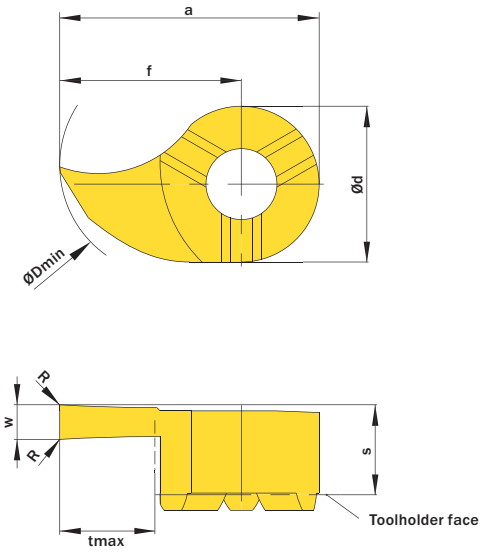
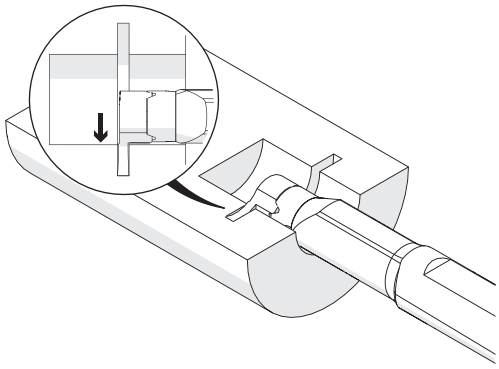
SP HM R Legend **66**

Scan QR-Code Or Visit **www.simtek.info/cp/855**





w +0,03 mm	Nominal width of groove mm	ØDmin (min. bore) mm	Part number	Webcode www.simtek.com/webcode	Our first choice P K M N S	a mm	Ød mm	f mm	R mm	S mm	tmax mm	Connectcode www.simtek.com/ccode
◀ Continued Table			**Related Items can be found on the previous page as well!**									
1,5	-	16,0	**D14.0150.00.16 GR/L**	R ANA2 L AG4U	X800 X400	15,0	9,0	10,5	-	5,0	5,5	D14
2,0	-	16,0	**D14.0200.00.16 GR/L**	R AAV5 L AKC6	X800 X400	15,0	9,0	10,5	-	5,2	5,5	D14
2,5	-	16,0	**D14.0250.00.16 GR/L**	R AN8C L AKHJ	X800 X400	15,0	9,0	10,5	-	5,2	5,5	D14
3,0	-	16,0	**D14.0300.00.16 GR/L**	R ANWY L ABDA	X800 X400	15,0	9,0	10,5	-	5,2	5,5	D14
			Related Items can be found on the following page as well!									Continued Table ▶

Order example: **D14.0250.00.16 GR X800** (R = Right hand version, X800 = Grade)

simtek individual | D14. | w, 1/100 mm, 4 Digits | . | R, 1/100 mm , 3 Digits | .16 | Tolerance | R/L

Example Part number: **D14.0156.015.16 XN R** or **D14.0156.015.16 XN L**

Grooving

For general grooving as well as for circlip ring grooving. For use in bores as of minimum bore diameter 16,0 mm (0.630“).

Cutting parameters (start)	
f **0,02 mm/U**	Vc **Page 71**

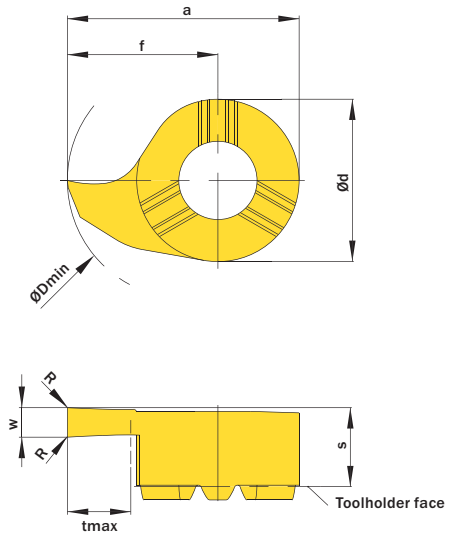
Suitable toolholders on page
16, 20

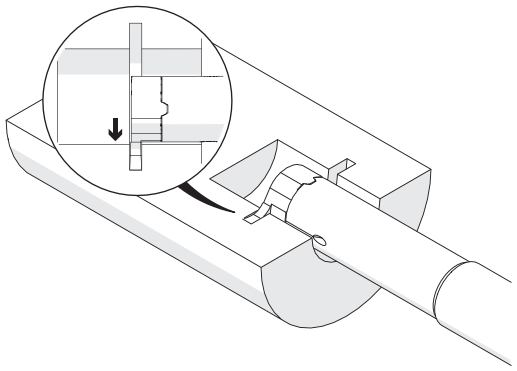
Similar tools on page
32

SP CBN | SP HM | R | Legend **66**

Scan QR-Code | Or Visit **www.simtek.info/cp/842**

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





Drawing shows: D16.0200.00 G R

w +0,03mm / 0.001“ mm/inch	Nominal width of groove mm/inch	ØDmin (min. bore) mm/inch	Part number	Webcode www.simtek.com/webcode	Our first choice P K M N S	a mm/inch	Ød mm/inch	f mm/inch	R mm/inch	S mm/inch	tmax mm/inch	Connectcode www.simtek.com/ccode	
Continued Table			**Related Items can be found on the previous page as well!**										
0,73	0,7	16,0	**D16.0070.00 ZR/L**	R AF7C L AN2X	X800 X400	15,7	11,0	10,2	-	5,2	1,2	D16	
0.031“	-	0.630“	**D16.0078.00 ZR/L**	R AMHC L AHKC	X800 X400	0.618“	0.433“	0.402“	-	0.205“	0.051“	D16	inch
0,83	0,8	16,0	**D16.0080.00 ZR/L**	R AATC L AFUU	X800 X400	15,7	11,0	10,2	-	5,2	1,3	D16	
0,93	0,9	16,0	**D16.0090.00 ZR/L**	R ADHV L ABYM	X800 X400	15,7	11,0	10,2	-	5,2	1,5	D16	
1,2	1,1	16,0	**D16.0110.00 GR/L**	R AKCH L AGF2	X800 X400	15,7	11,0	10,2	-	5,4	4,3	D16	
1,4	1,3	16,0	**D16.0130.00 GR/L**	R AEQ6 L ADJ0	X800 X400	15,7	11,0	10,2	-	5,4	4,3	D16	
1,5	-	16,0	**D16.0150.00 GR/L**	R AEX2 L ACK6	X800 X400	15,7	11,0	10,2	-	5,4	4,3	D16	
0.062“	-	0.630“	**D16.0157.00 GR/L**	R APGQ L AHAE	X800 X400	0.618“	0.433“	0.402“	-	0.213“	0.169“	D16	inch
1,7	1,6	16,0	**D16.0160.00 GR/L**	R ANNC L AGBT	X800 X400	15,7	11,0	10,2	-	5,4	4,3	D16	
2,0	-	16,0	**D16.0200.00 GR/L**	R ACXX L APFT	X800 X400	15,7	11,0	10,2	-	5,4	4,3	D16	
2,5	-	16,0	**D16.0250.00 GR/L**	R AAMN L AA16	X800 X400	15,7	11,0	10,2	-	5,4	4,3	D16	
3,0	-	16,0	**D16.0300.00 GR/L**	R AHSW L AHXD	X800 X400	15,7	11,0	10,2	-	5,4	4,3	D16	
3,5	-	16,0	**D16.0350.00 GR/L**	R ADH9 L AFEH	X800 X400	15,7	11,0	10,2	-	5,4	4,3	D16	
4,0	-	16,0	**D16.0400.00 GR/L**	R ACJ0 L AE9X	X800 X400	15,7	11,0	10,2	-	5,4	4,3	D16	

Related Items can be found on the following page as well! **Continued Table**

Order example: **D16.0150.00 GR X800** (R = Right hand version, X800 = Grade)

simtek individual | D16. | w, 1/100 mm, 4 Digits | . | R, 1/100 mm , 3 Digits | Tolerance | R/L

Example Part number: **D16.0156.015 XN R** or **D16.0156.015 XN L**

Grooving

For general grooving as well as for circlip ring grooving. For use in bores as of minimum bore diameter 17,0 mm.

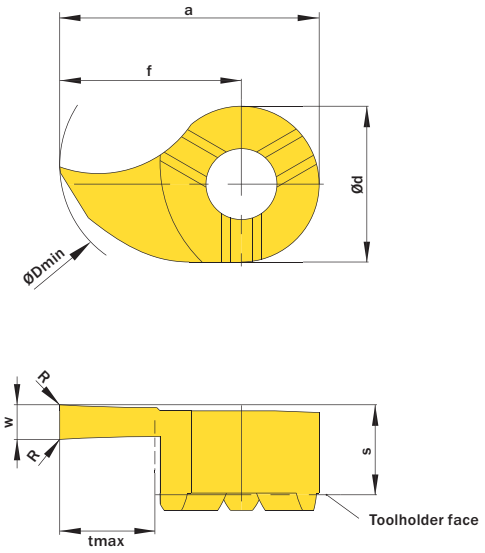
Cutting parameters (start)	
f **0,02 mm/U**	Vc **Page 118**

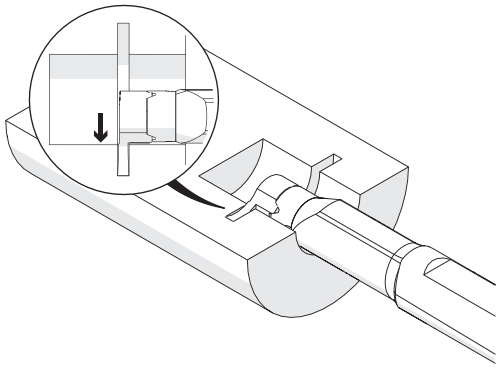
Suitable toolholders on page
15, 18, 21, 25

Similar tools on page
32

SP HM R Legend **66**

Scan QR-Code Or Visit **www.simtek.info/cp/856**





w +0,03 mm	Nominal width of groove mm	ØDmin (min. bore) mm	Part number	Webcode www.simtek.com/webcode	Our first choice P K M N S	a mm	Ød mm	f mm	R mm	S mm	tmax mm	Connectcode www.simtek.com/ccode
Continued Table			**Related Items can be found on the previous page as well!**									
1,5	-	17,0	**D14.0150.00.17 GR/L**	R AJDY L APPU	X800 X400	16,0	9,0	11,5	-	5,0	6,5	D14
2,0	-	17,0	**D14.0200.00.17 GR/L**	R AB9C L AH3A	X800 X400	16,0	9,0	11,5	-	5,2	6,5	D14
2,5	-	17,0	**D14.0250.00.17 GR/L**	R ANU2 L AFBS	X800 X400	16,0	9,0	11,5	-	5,2	6,5	D14
3,0	-	17,0	**D14.0300.00.17 GR/L**	R AATP L AHW1	X800 X400	16,0	9,0	11,5	-	5,2	6,5	D14
Related Items can be found on the following page as well! **Continued Table**												

Order example: **D14.0200.00.17 GR X800** (R = Right hand version, X800 = Grade)

simtek individual | D14. w, 1/100 mm, 4 Digits . R, 1/100 mm , 3 Digits .17 Tolerance R/L

Example Part number: **D14.0156.015.17 XN R** or **D14.0156.015.17 XN L**

Grooving

For general grooving as well as for circlip ring grooving. For use in bores as of minimum bore diameter 18,0 mm (0.709“).

Cutting parameters (start)	
f **0,02 mm/U**	Vc **Page 118**

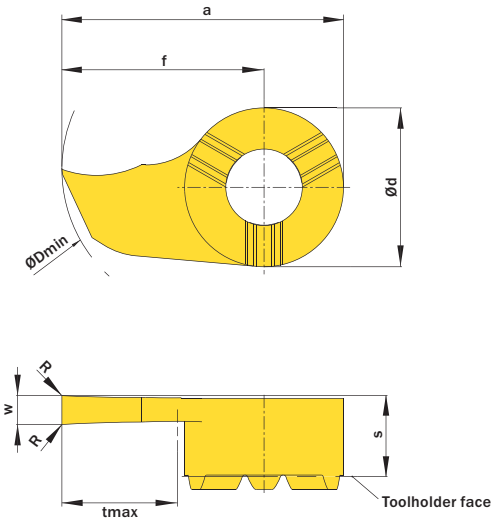
Suitable toolholders on page
17, 21

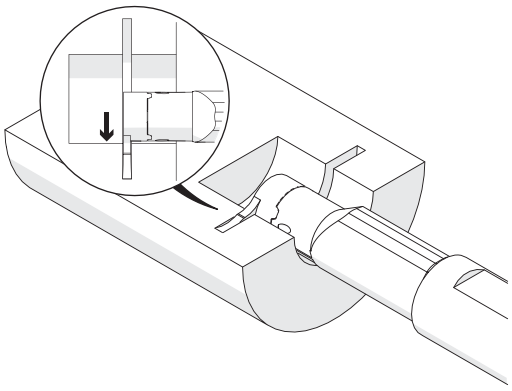
Similar tools on page
32

SP HM R Legend **66**

Scan **QR-Code** Or Visit **www.simtek.info/cp/843**

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





w +0,03mm / 0.001“	Nominal width of groove	ØDmin (min. bore)	Part number	Webcode www.simtek.com/webcode	Our first choice	a	Ød	f	R	S	tmax	Connectcode www.simtek.com/ccode	
mm/inch	mm/inch	mm/inch			P K M N S	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch		

Continued Table **Related Items can be found on the previous page as well!**

1,5	-	18,0	**D18.0150.00.18 GR/L**	R AKZ7	L AM2H	X800 X400	17,5	11,0	12,0	-	5,6	6,0	D18		
2,0	-	18,0	**D18.0200.00.18 GR/L**	R AJ4W	L AJFJ	X800 X400	17,5	11,0	12,0	-	5,6	6,0	D18		
0.094“	-	0.709“	**D18.0238.00.18 GR/L**	R A1DG	L A1DJ	X800 X400	0.689“	0.433“	0.472“	-	0.220“	0.236“	D18	inch	
2,5	-	18,0	**D18.0250.00.18 GR/L**	R ADDT	L AEK0	X800 X400	17,5	11,0	12,0	-	5,6	6,0	D18		
3,0	-	18,0	**D18.0300.00.18 GR/L**	R AM20	L ANNX	X800 X400	17,5	11,0	12,0	-	5,6	6,0	D18		
0.125“	-	0.709“	**D18.0318.00.18 GR/L**	R AVWC	L AVWD	X800 X400	0.689“	0.433“	0.472“	-	0.220“	0.236“	D18	inch	
3,5	-	18,0	**D18.0350.00.18 GR/L**	R AGY9	L ACQ7	X800 X400	17,5	11,0	12,0	-	5,6	6,0	D18		
4,0	-	18,0	**D18.0400.00.18 GR/L**	R AC7M	L AAVV	X800 X400	17,5	11,0	12,0	-	5,6	6,0	D18		

Related Items can be found on the following page as well! Continued Table

Order example: **D18.0300.00.18 GR X800** (R = Right hand version, X800 = Grade)

simtek individual | D18. | w, 1/100 mm, 4 Digits | . | R, 1/100 mm , 3 Digits | .18 | Tolerance | R/L

Example Part number: **D18.0156.015.18 XN R** or **D18.0156.015.18 XN L**

Grooving

For general grooving as well as for circlip ring grooving. For use in bores as of minimum bore diameter 20,0 mm (0.787“).

Cutting parameters (start)	
f **0,02 mm/U**	Vc **Page 118**

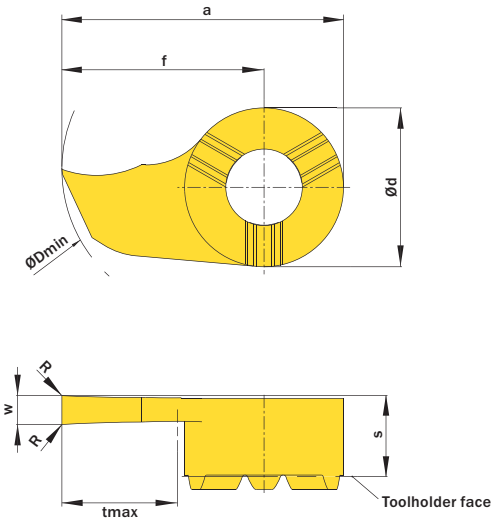
Suitable toolholders on page
17, 21

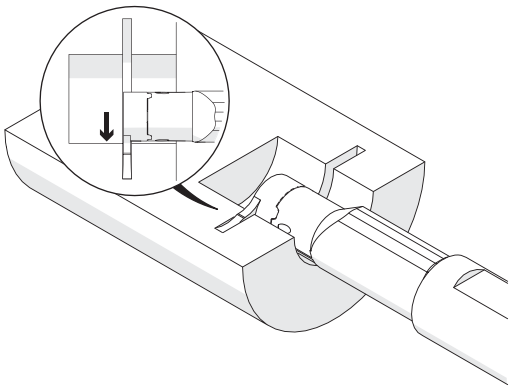
Similar tools on page
32

SP HM R Legend **66**

Scan QR-Code Or Visit **www.simtek.info/cp/857**

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





w +0,03mm / 0.001“	Nominal width of groove	ØDmin (min. bore)	Part number	Webcode www.simtek.com/webcode	Our first choice	a	Ød	f	R	S	tmax	Connectcode www.simtek.com/ccode
mm/inch	mm/inch	mm/inch			P K M N S	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	

Continued Table **Related Items can be found on the previous page as well!**

1,5	-	20,0	**D18.0150.00.20 GR/L**	R AMAQ L AB14	X800 X400	19,5	11,0	14,0	-	5,6	8,0	D18		
2,0	-	20,0	**D18.0200.00.20 GR/L**	R AM2K L AMM9	X800 X400	19,5	11,0	14,0	-	5,6	8,0	D18		
0.940“	-	0.787“	**D18.0238.00.20 GR/L**	R A1D3 L A1D2	X800 X400	0.768“	0.433“	0.551“	-	0.220“	0.315“	D18	inch	
2,5	-	20,0	**D18.0250.00.20 GR/L**	R ADCV L AABA	X800 X400	19,5	11,0	14,0	-	5,6	8,0	D18		
3,0	-	20,0	**D18.0300.00.20 GR/L**	R AF2Q L AEJG	X800 X400	19,5	11,0	14,0	-	5,6	8,0	D18		
3,5	-	20,0	**D18.0350.00.20 GR/L**	R AJSF L AEH4	X800 X400	19,5	11,0	14,0	-	5,6	8,0	D18		
4,0	-	20,0	**D18.0400.00.20 GR/L**	R AMJZ L AEAS	X800 X400	19,5	11,0	14,0	-	5,6	8,0	D18		

Order example: **D18.0300.00.20 GR X800** (R = Right hand version, X800 = Grade)

simtek individual | D18. | w, 1/100 mm, 4 Digits | . | R, 1/100 mm , 3 Digits | .20 | Tolerance | R/L

Example Part number: **D18.0156.015.20 XN R** or **D18.0156.015.20 XN L**

Grooving and Profiling

For use in bores as of minimum bore diameter 7,8 mm (0.307“).

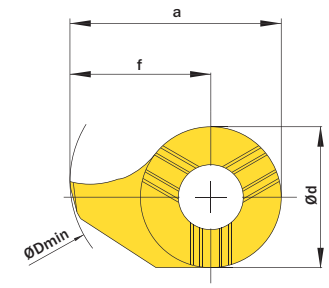
Cutting parameters (start)	
f **0,02 mm/U**	Vc **Page 118**

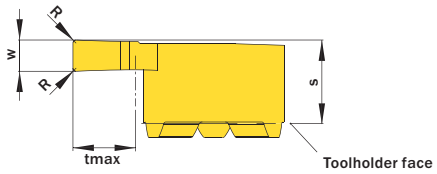
Suitable toolholders on page
10, 11, 12, 13, 14, 18, 19, 20, 21

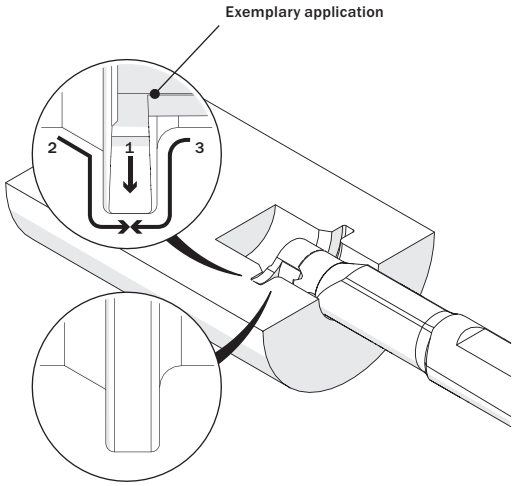
SP HM R Legend **66**

Scan **QR-Code** Or Visit **www.simtek.info/cp/827**

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







Drawing shows: D14.0200.02 N R

w +0,03mm / 0.001“ mm/inch	R mm/inch	Part number	Webcode www.simtek.com/webcode	Our first choice P K M N S	a mm/inch	Ød mm/inch	ØDmin (min. bore) mm/inch	f mm/inch	S mm/inch	tmax mm/inch	Connectcode www.simtek.com/ccode	
▼ ØDmin (min. bore) = 7,8 mm												
1,5	0,2	**D07.0150.02.08 NR/L**	R AWYH L AXA7	X800 X400	7,6	4,8	7,8	5,2	3,7	2,0	D07	
▼ ØDmin (min. bore) = 8,0 mm / 0.315“												
0.031“	0.008“	**D08.0078.02 NR/L**	R APNC L AKC1	X800 X400	0.307“	0.236“	0.315“	0.189“	0.130“	0.039“	D08	inch
1,5	0,2	**D08.0150.02 NR/L**	R AECN L AGPE	X800 X400	7,8	6,0	8,0	4,8	3,3	1,0	D08	
0.062“	0.008“	**D08.0157.02 NR/L**	R AMCC L AJX9	X800 X400	0.307“	0.236“	0.315“	0.189“	0.130“	0.039“	D08	inch
2,0	0,2	**D08.0200.02 NR/L**	R AMEP L AC18	X800 X400	7,8	6,0	8,0	4,8	3,3	1,0	D08	
▼ ØDmin (min. bore) = 9,0 mm												
1,5	0,2	**D09.0150.02.09 NR/L**	R AWF5 L AWHJ	X800 X400	8,6	6,2	9,0	5,5	3,6	1,8	D09	
2,0	0,2	**D09.0200.02.09 NR/L**	R AWF4 L AWHH	X800 X400	8,6	6,2	9,0	5,5	3,6	1,8	D09	
▼ ØDmin (min. bore) = 10,0 mm / 0.394“												
1,5	0,2	**D09.0150.02.10 NR/L**	R AWF3 L AWHG	X800 X400	9,6	6,2	10,0	6,5	3,6	2,8	D09	
2,0	0,2	**D09.0200.02.10 NR/L**	R AWF2 L AWHF	X800 X400	9,6	6,2	10,0	6,5	3,6	2,8	D09	
1,5	0,2	**D10.0150.02.10 NR/L**	R ADUV L AECA	X800 X400	9,3	7,0	10,0	5,8	3,9	1,8	D10	
0.078“	0.008“	**D10.0198.02.10 NR**	A3QF	X800 X400	0.366“	0.276“	0.394“	0.228“	0.154“	0.071“	D10	inch
2,0	0,2	**D10.0200.02.10 NR/L**	R AFBK L AE0M	X800 X400	9,3	7,0	10,0	5,8	3,9	1,8	D10	
▼ ØDmin (min. bore) = 11,0 mm / 0.433“												
0.031“	0.008“	**D11.0078.02 NR/L**	R AFKN L AJU6	X800 X400	0.421“	0.315“	0.433“	0.264“	0.165“	0.091“	D11	inch
1,0	0,2	**D11.0100.02 NR/L**	R AKQH L AM70	X800 X400	10,7	8,0	11,0	6,7	4,2	2,3	D11	
1,5	0,2	**D11.0150.02 NR/L**	R AJCU L AHWW	X800 X400	10,7	8,0	11,0	6,7	4,2	2,3	D11	
0.062“	0.008“	**D11.0157.02 NR/L**	R AEUY L AM4E	X800 X400	0.421“	0.315“	0.433“	0.264“	0.165“	0.091“	D11	inch
2,0	0,2	**D11.0200.02 NR/L**	R AN5N L ANG5	X800 X400	10,7	8,0	11,0	6,7	4,2	2,3	D11	

Related Items can be found on the following page as well! Continued Table

Order example: **D11.0200.02 NR X800** (R = Right hand version, X800 = Grade)

Grooving and Profiling

For use in bores as of minimum bore diameter 11,0 mm (0.433“).

Cutting parameters (start)	
f **0,02 mm/U**	Vc **Page 118**

Suitable toolholders on page
13, 15, 18, 21, 25

SP HM R Legend **66**

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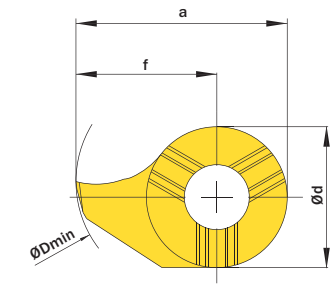
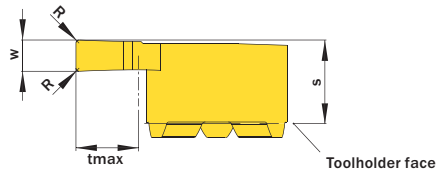
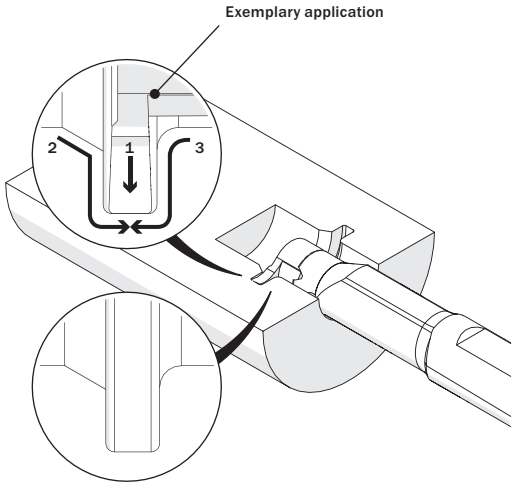




Drawing shows: D14.0200.02 N R



w +0,03mm / 0.001“ mm/inch	R mm/inch	Part number	Webcode www.simtek.com/webcode	Our first choice P K M N S	a mm/inch	Ød mm/inch	ØDmin (min. bore) mm/inch	f mm/inch	S mm/inch	tmax mm/inch	Connectcode www.simtek.com/ccode	
Continued Table		**Related Items can be found on the previous page as well!**										
▼ ØDmin (min. bore) = 11,0 mm												
1,5	0,2	**D10.0150.02.11 NR/L**	R AC7X L AFDW	X800 X400	10,3	7,0	11,0	6,8	3,9	2,8	D10	
2,0	0,2	**D10.0200.02.11 NR/L**	R AFDH L AFVF	X800 X400	10,3	7,0	11,0	6,8	3,9	2,8	D10	
▼ ØDmin (min. bore) = 12,0 mm												
1,5	0,2	**D10.0150.02.12 NR/L**	R AKG7 L AHN7	X800 X400	10,9	7,0	12,0	7,4	3,9	3,4	D10	
2,0	0,2	**D10.0200.02.12 NR/L**	R ANQ8 L APHA	X800 X400	10,9	7,0	12,0	7,4	3,9	3,4	D10	
▼ ØDmin (min. bore) = 14,0 mm / 0.551“												
0.031“	0.008“	**D14.0078.02 NR/L**	R AB9B L AKSV	X800 X400	0.531“	0.354“	0.551“	0.354“	0.209“	0.157“	D14	inch
1,5	0,2	**D14.0150.02 NR/L**	R AAHD L ABEJ	X800 X400	13,5	9,0	14,0	9,0	5,3	4,0	D14	
0.062“	0.008“	**D14.0157.02 NR/L**	R AMQ3 L ABFX	X800 X400	0.531“	0.354“	0.551“	0.354“	0.209“	0.157“	D14	inch
0.078“	0.008“	**D14.0198.02 NR/L**	R APT4 L AA5X	X800 X400	0.531“	0.354“	0.551“	0.354“	0.209“	0.157“	D14	inch
2,0	0,2	**D14.0200.02 NR/L**	R AC2N L APKA	X800 X400	13,5	9,0	14,0	9,0	5,3	4,0	D14	
2,5	0,2	**D14.0250.02 NR/L**	R AXZA L AXZB	X800 X400	13,5	9,0	14,0	9,0	5,3	4,0	D14	
0.125“	0.008“	**D14.0318.02 NR/L**	R AKAH L AK9V	X800 X400	0.531“	0.354“	0.551“	0.354“	0.209“	0.157“	D14	inch
▼ ØDmin (min. bore) = 16,0 mm												
1,5	0,2	**D14.0150.02.16 NR/L**	R AF0F L AD21	X800 X400	15,0	9,0	16,0	10,5	5,2	5,5	D14	
2,0	0,2	**D14.0200.02.16 NR/L**	R AMEQ L ACFH	X800 X400	15,0	9,0	16,0	10,5	5,2	5,5	D14	
2,5	0,2	**D14.0250.02.16 NR/L**	R APQF L AN8D	X800 X400	15,0	9,0	16,0	10,5	5,2	5,5	D14	
3,0	0,2	**D14.0300.02.16 NR/L**	R AD8X L ANVS	X800 X400	15,0	9,0	16,0	10,5	5,2	5,5	D14	

Related Items can be found on the following page as well! Continued Table

Order example: **D14.0250.02 NR X800** (R = Right hand version, X800 = Grade)

Grooving and Profiling

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

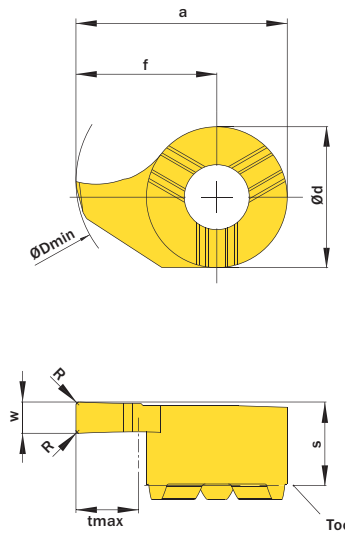
Cutting parameters (start)	
f **0,02 mm/U**	Vc **Page 118**

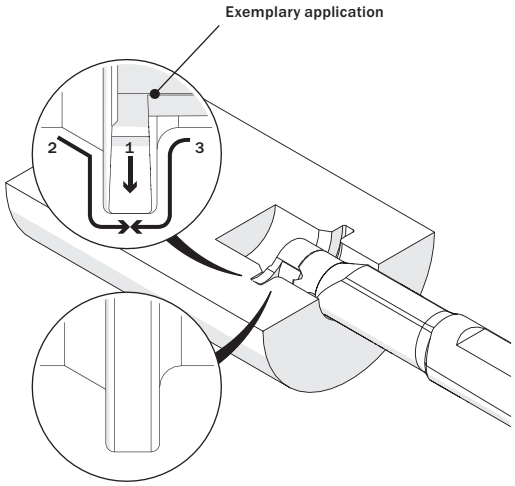
Suitable toolholders on page
15, 16, 17, 18, 20, 21, 25

SP HM R Legend **66**

Scan **QR-Code** Or Visit **www.simtek.info/cp/1064**

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





Drawing shows: D14.0200.02 N R

w +0,03mm / 0.001“ mm/inch	R mm/inch	Part number	Webcode www.simtek.com/webcode		Our first choice P K M N S	a mm/inch	Ød mm/inch	ØDmin (min. bore) mm/inch	f mm/inch	S mm/inch	tmax mm/inch	Connectcode www.simtek.com/ccode	
◀ Continued Table		**Related Items can be found on the previous page as well!**											
▼ ØDmin (min. bore) = 16,0 mm / 0.630“													
0.031“	0.008“	**D16.0078.02 NR/L**	R AAAG	L ANS3	X800 X400	0.618“	0.433“	0.630“	0.402“	0.213“	0.169“	D16	inch
0.062“	0.008“	**D16.0157.02 NR/L**	R AK9T	L AD49	X800 X400	0.618“	0.433“	0.630“	0.402“	0.213“	0.169“	D16	inch
0.062“	0.016“	**D16.0157.04 NR/L**	R ACMW	L ACMC	X800 X400	0.618“	0.433“	0.630“	0.402“	0.213“	0.169“	D16	inch
2,0	0,2	**D16.0200.02 NR/L**	R AHDV	L ANM7	X800 X400	15,7	11,0	16,0	10,2	5,4	4,3	D16	
▼ ØDmin (min. bore) = 17,0 mm / 0.669“													
1,5	0,2	**D14.0150.02.17 NR/L**	R AKT0	L AF42	X800 X400	16,0	9,0	17,0	11,5	5,2	6,5	D14	
2,0	0,2	**D14.0200.02.17 NR/L**	R ACCZ	L AFWA	X800 X400	16,0	9,0	17,0	11,5	5,2	6,5	D14	
2,5	0,2	**D14.0250.02.17 NR/L**	R ADHU	L AKNH	X800 X400	16,0	9,0	17,0	11,5	5,2	6,5	D14	
3,0	0,2	**D14.0300.02.17 NR/L**	R AEWX	L AFYV	X800 X400	16,0	9,0	17,0	11,5	5,2	6,5	D14	
0.125“	0.008“	**D14.0318.02.17 NR**	A4GN		X800 X400	0.630“	0.354“	0.669“	0.453“	0.205“	0.256“	D14	inch
▼ ØDmin (min. bore) = 18,0 mm													
2,0	0,2	**D18.0200.02.18 NR/L**	R AVSQ	L AVSS	X800 X400	17,5	11,0	18,0	12,0	5,6	6,0	D18	
▼ ØDmin (min. bore) = 20,0 mm / 0.787“													
1,5	0,2	**D18.0150.02.20 NR/L**	R AAX4	L AN0H	X800 X400	19,5	11,0	20,0	14,0	5,6	8,0	D18	
2,0	0,2	**D18.0200.02.20 NR/L**	R ACXQ	L AAWK	X800 X400	19,5	11,0	20,0	14,0	5,6	8,0	D18	
2,5	0,2	**D18.0250.02.20 NR/L**	R AVVX	L AVVY	X800 X400	19,5	11,0	20,0	14,0	5,6	8,0	D18	
3,0	0,2	**D18.0300.02.20 NR/L**	R AVV6	L AVV7	X800 X400	19,5	11,0	20,0	14,0	5,6	8,0	D18	
0.125“	0.008“	**D18.0318.02.20 NR/L**	R AVV8	L AVV9	X800 X400	0.768“	0.433“	0.787“	0.551“	0.220“	0.315“	D18	inch
4,0	0,2	**D18.0400.02.20 NR/L**	R AVWA	L AVWB	X800 X400	19,5	11,0	20,0	14,0	5,6	8,0	D18	
▼ØDmin (min. bore) = 22,0 mm													
1,5	0,2	**D18.0150.02.22 NR/L**	R A1BK	L A1BJ	X800 X400	21,5	11,0	22,0	16,0	5,6	10,0	D18	
2,0	0,2	**D18.0200.02.22 NR/L**	R A1BN	L A1BM	X800 X400	21,5	11,0	22,0	16,0	5,6	10,0	D18	

Order example: **D14.0250.02.17 NR X800** (R = Right hand version, X800 = Grade)

Full Radius Grooving

For use in bores as of minimum bore diameter 8,0 mm (0.315“).

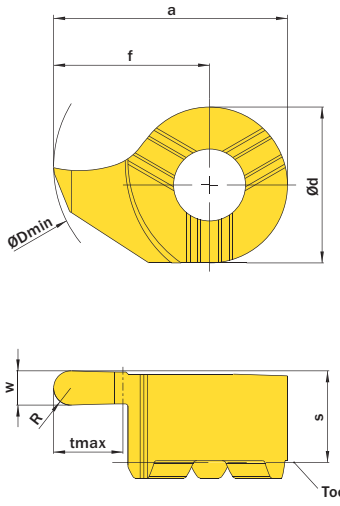
Cutting parameters (start)	
f **0,02 mm/U**	Vc **Page 118**

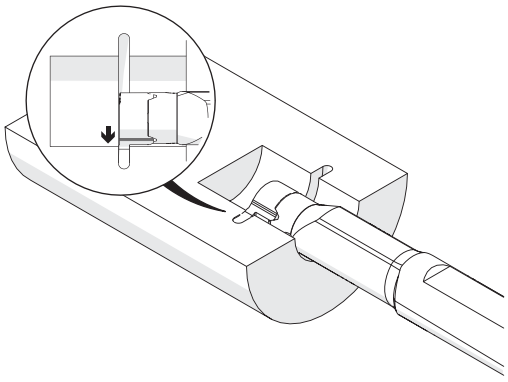
Suitable toolholders on page
11, 12, 13, 14, 18, 20, 21

SP HM R Legend **66**

Scan **QR-Code** Or Visit **www.simtek.info/cp/830**

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





Drawing shows: D14.0010.20 V R

R mm/inch	w +0,05mm / 0.002“ mm/inch	Part number	Webcode www.simtek.com/webcode	Our first choice P K M N S	a mm/inch	Ød mm/inch	ØDmin (min. bore) mm/inch	S mm/inch	f mm/inch	tmax mm/inch	Connectcode www.simtek.com/ccode	
▼ ØDmin (min. bore) = 8,0 mm / 0.315“												
0,4	0,8	**D08.0004.08 VR/L**	R AAP2 L AE8B	X800 X400	7,8	6,0	8,0	3,3	4,8	1,0	D08	
0,6	1,2	**D08.0006.12 VR/L**	R AHUE L AF16	X800 X400	7,8	6,0	8,0	3,3	4,8	1,0	D08	
0.031“	0.062“	**D08.0008.157 VR/L**	R A4NH L A4NK	X800 X400	0.307“	0.236“	0.315“	0.130“	0.189“	0.039“	D08	inch
0,9	1,8	**D08.0009.18 VR/L**	R AMH0 L APZV	X800 X400	7,8	6,0	8,0	3,3	4,8	1,0	D08	
1,0	2,0	**D08.0010.20 VR/L**	R ADYE L AEDC	X800 X400	7,8	6,0	8,0	3,3	4,8	1,0	D08	
▼ ØDmin (min. bore) = 9,0 mm												
0,4	0,8	**D09.0004.08.09 VR/L**	R AWFF L AWGW	X800 X400	8,6	6,2	9,0	3,5	5,5	1,6	D09	
0,6	1,2	**D09.0006.12.09 VR/L**	R AWFG L AWGX	X800 X400	8,6	6,2	9,0	3,5	5,5	1,6	D09	
0,9	1,8	**D09.0009.18.09 VR/L**	R AWFH L AWGY	X800 X400	8,6	6,2	9,0	3,5	5,5	1,6	D09	
1,0	2,0	**D09.0010.20.09 VR/L**	R AWFJ L AWGZ	X800 X400	8,6	6,2	9,0	3,5	5,5	1,6	D09	
▼ ØDmin (min. bore) = 10,0 mm												
0,4	0,8	**D10.0004.08.10 VR/L**	R AD9G L AECX	X800 X400	9,3	7,0	10,0	3,9	5,8	1,8	D10	
0,6	1,2	**D10.0006.12.10 VR/L**	R ABMC L ANBF	X800 X400	9,3	7,0	10,0	3,9	5,8	1,8	D10	
0,9	1,8	**D10.0009.18.10 VR/L**	R AC50 L AFQ8	X800 X400	9,3	7,0	10,0	3,9	5,8	1,8	D10	
1,0	2,0	**D10.0010.20.10 VR/L**	R AAK8 L ABVA	X800 X400	9,3	7,0	10,0	3,9	5,8	1,8	D10	
▼ ØDmin (min. bore) = 11,0 mm												
0,4	0,8	**D11.0004.08 VR/L**	R AJS6 L AGJD	X800 X400	10,7	8,0	11,0	4,2	6,7	2,3	D11	
0,6	1,2	**D11.0006.12 VR/L**	R AH9B L AE6K	X800 X400	10,7	8,0	11,0	4,2	6,7	2,3	D11	
0,8	1,6	**D11.0008.16 VR/L**	R AMJP L AP28	X800 X400	10,7	8,0	11,0	4,2	6,7	2,3	D11	
0,9	1,8	**D11.0009.18 VR/L**	R APTS L AA18	X800 X400	10,7	8,0	11,0	4,2	6,7	2,3	D11	
1,0	2,0	**D11.0010.20 VR/L**	R AC6N L ABQC	X800 X400	10,7	8,0	11,0	4,2	6,7	2,3	D11	
1,2	2,4	**D11.0012.24 VR/L**	R AF3Y L AKC8	X800 X400	10,7	8,0	11,0	4,2	6,7	2,3	D11	
1,5	3,0	**D11.0015.30 VR/L**	R AFGU L AKX2	X800 X400	10,7	8,0	11,0	4,2	6,7	2,3	D11	

Related Items can be found on the following page as well! Continued Table ▶

Order example: **D10.0004.08.10 VR X800** (R = Right hand version, X800 = Grade)

Full Radius Grooving

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

Cutting parameters (start)	
f **0,02 mm/U**	Vc **Page 118**

Suitable toolholders on page
15, 16, 17, 18, 20, 21, 25

SP CBN | SP HM | R | Legend **66**

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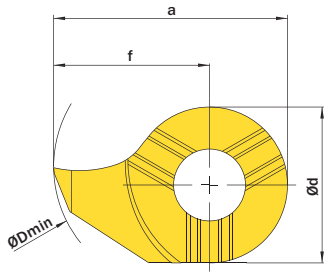

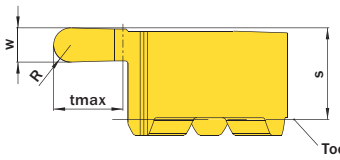

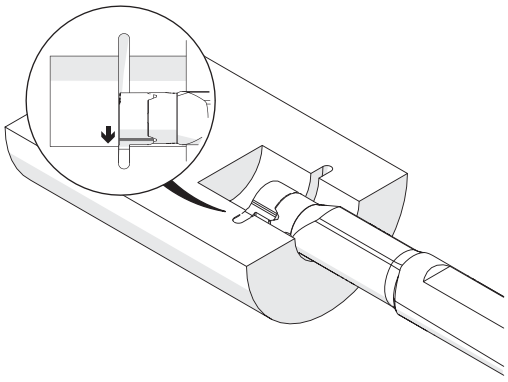

Drawing shows: D14.0010.20 V R

R mm/inch	w +0,05mm / 0.002“ mm/inch	Part number	Webcode www.simtek.com/webcode	Our first choice P K M N S	a mm/inch	Ød mm/inch	ØDmin (min. bore) mm/inch	S mm/inch	f mm/inch	tmax mm/inch	Connectcode www.simtek.com/ccode	
◀ Continued Table		**Related Items can be found on the previous page as well!**										
▼ **ØDmin (min. bore) = 14,0 mm / 0.551“**												
0,4	0,8	**D14.0004.08 VR/L**	R AFZD L AHT8	X800 X400	13,5	9,0	14,0	5,2	9,0	4,0	D14	
0,6	1,2	**D14.0006.12 VR/L**	R ADBN L AHHJ	X800 X400	13,5	9,0	14,0	5,3	9,0	4,0	D14	
0,8	1,6	**D14.0008.16 VR/L**	R ABBY L ABFC	X800 X400	13,5	9,0	14,0	5,3	9,0	4,0	D14	
0,9	1,8	**D14.0009.18 VR/L**	R AESX L AEGW	X800 X400	13,5	9,0	14,0	5,3	9,0	4,0	D14	
1,0	2,0	**D14.0010.20 VR/L**	R AGHK L AJYS	X800 X400	13,5	9,0	14,0	5,3	9,0	4,0	D14	
1,1	2,2	**D14.0011.22 VR/L**	R AKS8 L ANBN	X800 X400	13,5	9,0	14,0	5,3	9,0	4,0	D14	
1,2	2,4	**D14.0012.24 VR/L**	R ACK4 L AM96	X800 X400	13,5	9,0	14,0	5,3	9,0	4,0	D14	
1,5	3,0	**D14.0015.30 VR/L**	R AKKQ L APW7	X800 X400	13,5	9,0	14,0	5,3	9,0	4,0	D14	
0.031“	0.062“	**D14.0031.62 VR**	A2VM	X800 X400	0.531“	0.354“	0.551“	0.209“	0.354“	0.157“	D14	inch
0.063“	0.125“	**D14.0062.12 VR/L**	R A2VN L A339	X800 X400	0.531“	0.354“	0.551“	0.209“	0.354“	0.157“	D14	inch
▼ **ØDmin (min. bore) = 16,0 mm / 0.630“**												
0,8	1,6	**D16.0008.16 VR/L**	R AFK1 L AM7T	X800 X400	15,7	11,0	16,0	5,4	10,2	4,3	D16	
0,9	1,8	**D16.0009.18 VR/L**	R AMCU L ABQE	X800 X400	15,7	11,0	16,0	5,4	10,2	4,3	D16	
1,0	2,0	**D16.0010.20 VR/L**	R AKNU L AJWC	X800 X400	15,7	11,0	16,0	5,4	10,2	4,3	D16	
1,1	2,2	**D16.0011.22 VR/L**	R AD51 L ABHK	X800 X400	15,7	11,0	16,0	5,4	10,2	4,3	D16	
1,2	2,4	**D16.0012.24 VR/L**	R AJJS L APF0	X800 X400	15,7	11,0	16,0	5,4	10,2	4,3	D16	
1,5	3,0	**D16.0015.30 VR/L**	R AJA7 L AE92	X800 X400	15,7	11,0	16,0	5,4	10,2	4,3	D16	
1,6	3,2	**D16.0016.32 VR/L**	R AGCX L AJK3	X800 X400	15,7	11,0	16,0	5,4	10,2	4,3	D16	
2,0	4,0	**D16.0020.40 VR/L**	R APN4 L AHYY	X800 X400	15,7	11,0	16,0	5,4	10,2	4,3	D16	
0.031“	0.062“	**D16.0031.62 VR**	A2VK	X800 X400	0.618“	0.433“	0.630“	0.213“	0.402“	0.169“	D16	inch
0.063“	0.125“	**D16.0062.12 VR**	A2BP	X800 X400	0.618“	0.433“	0.630“	0.213“	0.402“	0.169“	D14	inch
▼ **ØDmin (min. bore) = 18,0 mm**												
0,9	1,8	**D18.0009.18.18 VR/L**	R AVD9 L AVEA	X800 X400	17,5	11,0	18,0	5,6	12,0	6,0	D18	
1,1	2,2	**D18.0011.22.18 VR/L**	R AVEB L AVEC	X800 X400	17,5	11,0	18,0	5,6	12,0	6,0	D18	
1,5	3,0	**D18.0015.30.18 VR/L**	R AVEE L AVED	X800 X400	17,5	11,0	18,0	5,6	12,0	6,0	D18	
1,6	3,2	**D18.0016.32.18 VR/L**	R AV6T L AV6S	X800 X400	17,5	11,0	18,0	5,6	12,0	6,0	D18	
2,0	4,0	**D18.0020.40.18 VR/L**	R AV6U L AV6V	X800 X400	17,5	11,0	18,0	5,6	12,0	6,0	D18	

Order example: **D14.0006.12 VR X800** (R = Right hand version, X800 = Grade)

Pre-Part-Off and Chamfering

For use in bores as of minimum bore diameter 8,0 mm.

Cutting parameters (start)	
f **0,02 mm/U**	Vc **Page 118**

Suitable toolholders on page
11, 12, 13, 14, 15, 16, 18, 20, 21, 25

SP HM R Legend **66**

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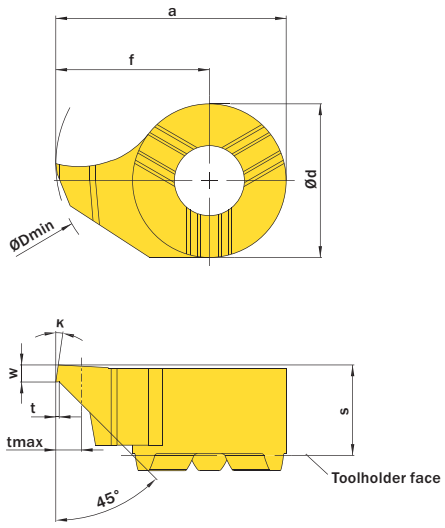

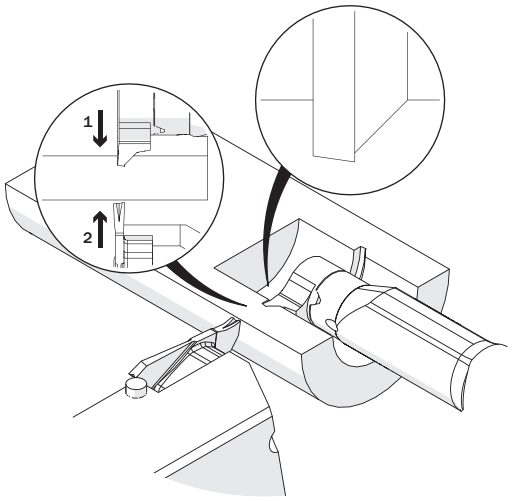

Drawing shows: D14.0810.00 P R

κ	w mm	Part number	Webcode www.simtek.com/webcode	Our first choice P K M N S	a mm	Ød mm	ØDmin (min. bore) mm	f mm	S mm	t mm	tmax mm	Connectcode www.simtek.com/ccode
▼ ØDmin (min. bore) = 8,0 mm												
8°	1,0	**D08.0810.00 PR/L**	R AJ7Z L AD30	X800 X400	7,8	6,0	8,0	4,8	3,3	0,2	1,0	D08
▼ ØDmin (min. bore) = 9,0 mm												
8°	1,0	**D09.0810.00.09 PR/L**	R AWF9 L AWHP	X800 X400	8,6	6,2	9,0	5,5	3,6	0,2	1,5	D09
▼ ØDmin (min. bore) = 10,0 mm												
8°	1,0	**D10.0810.00.10 PR/L**	R AHZ3 L APNG	X800 X400	9,3	7,0	10,0	5,8	3,9	0,2	1,5	D10
▼ ØDmin (min. bore) = 11,0 mm												
8°	1,0	**D11.0810.00 PR/L**	R AFDK L AB2C	X800 X400	10,7	8,0	11,0	6,7	4,2	0,2	1,5	D11
8°	1,5	**D11.0815.00 PR/L**	R AK9Z L AA76	X800 X400	10,7	8,0	11,0	6,7	4,2	0,2	1,5	D11
▼ ØDmin (min. bore) = 14,0 mm												
8°	1,0	**D14.0810.00 PR/L**	R AH2J L AE1N	X800 X400	13,5	9,0	14,0	9,0	5,3	0,2	1,5	D14
8°	1,5	**D14.0815.00 PR/L**	R AEQG L AHY9	X800 X400	13,5	9,0	14,0	9,0	5,3	0,2	1,5	D14
▼ ØDmin (min. bore) = 16,0 mm												
8°	1,0	**D16.0810.00 PR/L**	R AHPB L AADS	X800 X400	15,7	11,0	16,0	10,2	5,4	0,2	1,5	D16
8°	1,5	**D16.0815.00 PR/L**	R AAHN L ANXC	X800 X400	15,7	11,0	16,0	10,2	5,4	0,2	1,5	D16

Order example: **D08.0810.00 PR X800** (R = Right hand version, X800 = Grade)

Threading, Metric ISO Full Profile

For a complete thread profile with correct depth.

Cutting parameters (start)
Number of passes **10 - 16**
Recom. infeed method **Flank infeed**
Vc **Page 118**

Suitable toolholders on page
12, 13, 14, 18, 20, 21

SP HM R Legend 66

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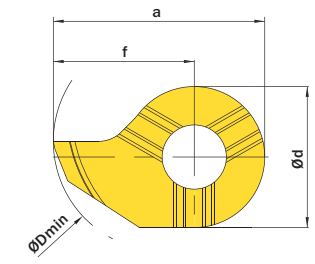

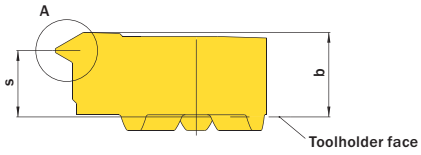

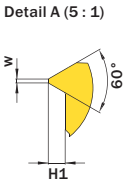

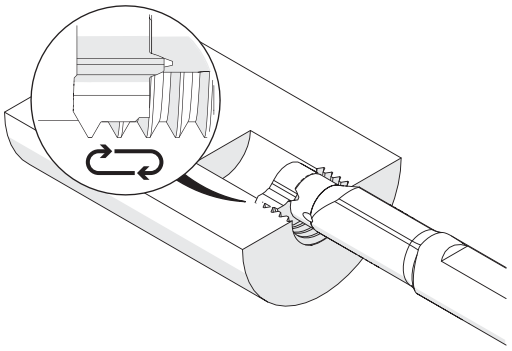

H1 mm	Pitch (as of) mm	Part number	Webcode www.simtek.com/webcode	Our first choice P K M N S	a mm	b mm	Ød mm	ØDmin (min. bore) mm	f mm	S mm	w mm	Connectcode www.simtek.com/ccode
▼ ØDmin (min. bore) = 9,0 mm												
0,27	0,5	**D09.0205.02.09 MR/L**	R AWGT L AWH6	X800 X400	8,6	3,65	6,2	9,0	5,5	3,25	0,06	D09
0,54	1,0	**D09.0510.02.09 MR/L**	R AWGS L AWH5	X800 X400	8,6	3,65	6,2	9,0	5,5	3,0	0,12	D09
0,81	1,5	**D09.0815.02.09 MR/L**	R AWGQ L AWH4	X800 X400	8,6	3,6	6,2	9,0	5,5	2,8	0,18	D09
0,95	1,75	**D09.0917.02.09 MR/L**	R AWGP L AWH3	X800 X400	8,6	3,6	6,2	9,0	5,5	2,7	0,2	D09
1,08	2,0	**D09.1020.02.09 MR/L**	R AWGN L AWH2	X800 X400	8,6	3,58	6,2	9,0	5,5	2,6	0,25	D09
1,35	2,5	**D09.1325.02.09 MR/L**	R AWGM L AWH1	X800 X400	8,6	3,56	6,2	9,0	5,5	2,5	0,31	D09
1,62	3,0	**D09.1630.02.09 MR/L**	R AWGK L AWH0	X800 X400	8,6	3,54	6,2	9,0	5,5	2,2	0,37	D09
▼ ØDmin (min. bore) = 10,0 mm												
0,27	0,5	**D10.0205.02.10 MR/L**	R ANVA L ADJC	X800 X400	9,3	3,8	7,0	10,0	5,8	3,4	0,06	D10
0,54	1,0	**D10.0510.02.10 MR/L**	R ANP1 L ADAV	X800 X400	9,3	4,0	7,0	10,0	5,8	3,2	0,12	D10
0,81	1,5	**D10.0815.02.10 MR/L**	R AM2E L AA2U	X800 X400	9,3	3,9	7,0	10,0	5,8	3,0	0,18	D10
0,95	1,75	**D10.0917.02.10 MR/L**	R AD6Z L ABYB	X800 X400	9,3	3,9	7,0	10,0	5,8	2,9	0,21	D10
1,08	2,0	**D10.1020.02.10 MR/L**	R AADQ L AKFM	X800 X400	9,3	3,9	7,0	10,0	5,8	2,75	0,25	D10
1,35	2,5	**D10.1325.02.10 MR/L**	R AAG5 L AMY3	X800 X400	9,3	3,8	7,0	10,0	5,8	2,5	0,31	D10
1,62	3,0	**D10.1630.02.10 MR/L**	R AJXD L AKWA	X800 X400	9,3	3,8	7,0	10,0	5,8	2,45	0,37	D10
▼ ØDmin (min. bore) = 11,0 mm												
0,54	1,0	**D11.0510.02 MR/L**	R AJ3B L AF7P	X800 X400	10,7	4,3	8,0	11,0	6,7	3,6	0,12	D11
0,81	1,5	**D11.0815.02 MR/L**	R AESU L APF7	X800 X400	10,7	4,3	8,0	11,0	6,7	3,3	0,18	D11
1,08	2,0	**D11.1020.02 MR/L**	R AF4G L ACVY	X800 X400	10,7	4,3	8,0	11,0	6,7	2,9	0,25	D11
1,35	2,5	**D11.1325.02 MR/L**	R AN9M L ACTN	X800 X400	10,7	4,3	8,0	11,0	6,7	2,95	0,31	D11
1,62	3,0	**D11.1630.02 MR/L**	R AKVC L AJZG	X800 X400	10,7	4,3	8,0	11,0	6,7	2,9	0,37	D11

Related Items can be found on the following page as well! Continued Table

Order example: **D10.1020.02.10 MR X800** (R = Right hand version, X800 = Grade)

Threading, Metric ISO Full Profile

For a complete thread profile with correct depth.

Cutting parameters (start)
Number of passes **10 - 16**
Recom. infeed method **Flank infeed**
Vc **Page 118**

Suitable toolholders on page
15, 16, 18, 20, 21, 25

SP HM R Legend 66

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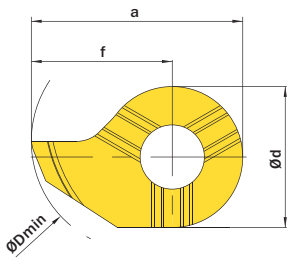

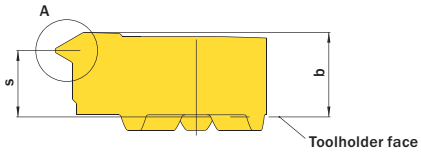

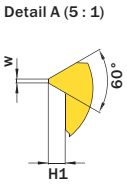

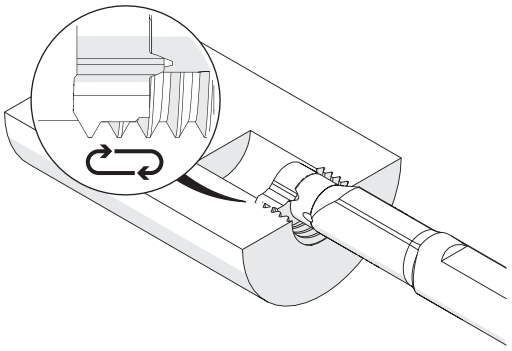

H1 mm	Pitch (as of) mm	Part number	Webcode www.simtek.com/webcode	Our first choice P K M N S	a mm	b mm	Ød mm	ØDmin (min. bore) mm	f mm	S mm	w mm	Connectcode www.simtek.com/ccode
Continued Table		**Related Items can be found on the previous page as well!**										
▼ ØDmin (min. bore) = 14,0 mm												
0,27	0,5	**D14.0205.02 MR/L**	R AG11 L AAM6	X800 X400	13,5	5,4	9,0	14,0	9,0	4,8	0,06	D14
0,54	1,0	**D14.0510.02 MR/L**	R AGVA L AN3Z	X800 X400	13,5	5,4	9,0	14,0	9,0	4,7	0,12	D14
0,81	1,5	**D14.0815.02 MR/L**	R AAPD L AHEZ	X800 X400	13,5	5,4	9,0	14,0	9,0	4,3	0,18	D14
1,08	2,0	**D14.1020.02 MR/L**	R ABSD L AMJS	X800 X400	13,5	5,4	9,0	14,0	9,0	4,2	0,25	D14
1,35	2,5	**D14.1325.02 MR/L**	R AFM0 L APW6	X800 X400	13,5	5,4	9,0	14,0	9,0	3,65	0,31	D14
▼ ØDmin (min. bore) = 16,0 mm												
0,54	1,0	**D16.0510.02 MR/L**	R AC07 L ACXP	X800 X400	15,7	5,5	11,0	16,0	10,2	4,8	0,12	D16
0,81	1,5	**D16.0815.02 MR/L**	R ADSQ L AGTH	X800 X400	15,7	5,5	11,0	16,0	10,2	4,3	0,18	D16
1,08	2,0	**D16.1020.02 MR/L**	R AHC8 L ANXE	X800 X400	15,7	5,5	11,0	16,0	10,2	4,05	0,25	D16
1,35	2,5	**D16.1325.02 MR/L**	R AMW1 L AG5U	X800 X400	15,7	5,5	11,0	16,0	10,2	4,2	0,31	D16
1,62	3,0	**D16.1630.02 MR/L**	R AKHY L AN34	X800 X400	15,7	5,5	11,0	16,0	10,2	4,0	0,37	D16
1,89	3,5	**D16.1835.02 MR/L**	R AANW L AG41	X800 X400	15,7	5,5	11,0	16,0	10,2	3,9	0,43	D16
2,16	4,0	**D16.2140.02 MR/L**	R AD32 L AEED	X800 X400	15,7	5,5	11,0	16,0	10,2	3,6	0,5	D16

Order example: **D14.0815.02 MR X800** (R = Right hand version, X800 = Grade)

simturn DX
SIMTEK Small Part Machining Type DX

Threading, Metric ISO Partial Profile

Multi-purpose tools, usable for different pitches.

Cutting parameters (start)

Number of passes
10 - 16

Recom. infeed method
Flank infeed

Vc
Page 118

Suitable toolholders on page
10, 11, 12, 13, 18, 19, 20, 21

Please read add. notes
T01 (Page 65)

SP HM R Legend **66**

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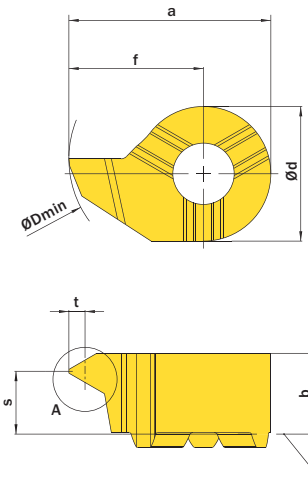

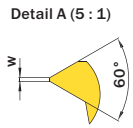

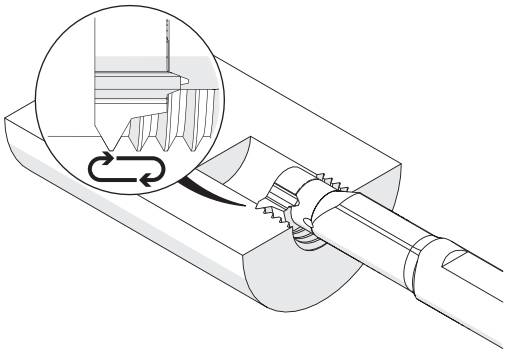

Drawing shows: D14.1020.01 M R

Pitch (as of) mm	Pitch (up to) mm	Part number	Webcode www.simtek.com/webcode	Our first choice P K M N S	a mm	t mm	b mm	Ød mm	ØDmin (min. bore) mm	f mm	S mm	w mm	Connectcode www.simtek.com/ccode
▼ ØDmin (min. bore) = 7,0 mm													
0,5	0,75	**D07.MT05.01.07 MR/L**	R AU57 L AXBC	X800 X400	6,55	0,44	3,3	4,8	7,0	4,15	2,9	0,06	D07
1,0	1,25	**D07.MT10.01.07 MR/L**	R AU59 L AXBD	X800 X400	6,2	0,7	3,3	4,8	7,0	3,8	2,7	0,12	D07
1,5	1,75	**D07.MT15.01.07 MR/L**	R AU58 L AXBE	X800 X400	6,55	0,974	3,3	4,8	7,0	4,15	2,5	0,18	D07
▼ ØDmin (min. bore) = 8,0 mm													
0,5	0,75	**D08.0205.01 MR/L**	R ANP8 L AEEG	X800 X400	7,8	0,43	3,4	6,0	8,0	4,8	2,95	0,06	D08
1,0	1,25	**D08.0510.01 MR/L**	R AG0B L AC5F	X800 X400	7,8	0,7	3,4	6,0	8,0	4,8	2,7	0,12	D08
1,5	1,75	**D08.0815.01 MR/L**	R AB62 L ACGW	X800 X400	7,8	0,98	3,4	6,0	8,0	4,8	2,5	0,18	D08
▼ ØDmin (min. bore) = 9,0 mm													
0,5	0,75	**D09.0205.01.09 MR/L**	R AWGG L AWHX	X800 X400	8,6	0,44	3,55	6,2	9,0	5,5	3,2	0,06	D09
1,0	1,25	**D09.0510.01.09 MR/L**	R AWGF L AWHW	X800 X400	8,6	0,54	3,55	6,2	9,0	5,5	3,0	0,12	D09
1,5	1,75	**D09.0815.01.09 MR/L**	R AWGE L AWHV	X800 X400	8,6	0,81	3,55	6,2	9,0	5,5	2,8	0,18	D09
1,75	2,0	**D09.0917.01.09 MR/L**	R AWGD L AWHU	X800 X400	8,6	0,95	3,55	6,2	9,0	5,5	2,6	0,2	D09
2,0	2,5	**D09.1020.01.09 MR/L**	R AWGC L AWHT	X800 X400	8,6	1,08	3,55	6,2	9,0	5,5	2,5	0,25	D09
2,5	3,0	**D09.1325.01.09 MR/L**	R AWGB L AWHS	X800 X400	8,6	1,35	3,55	6,2	9,0	5,5	2,1	0,31	D09
3,0	3,5	**D09.1630.01.09 MR/L**	R AWGA L AWHQ	X800 X400	8,6	1,62	3,55	6,2	9,0	5,5	1,9	0,37	D09
▼ ØDmin (min. bore) = 10,0 mm													
0,5	0,75	**D10.0205.01.10 MR/L**	R AMAT L AGSC	X800 X400	9,3	0,44	4,0	7,0	10,0	5,8	3,4	0,06	D10
1,0	1,25	**D10.0510.01.10 MR/L**	R ADPE L AC1S	X800 X400	9,3	0,54	4,0	7,0	10,0	5,8	3,2	0,12	D10
1,5	1,75	**D10.0815.01.10 MR/L**	R AKN5 L AGUX	X800 X400	9,3	0,81	4,0	7,0	10,0	5,8	3,0	0,18	D10
1,75	2,0	**D10.0917.01.10 MR/L**	R AEBW L AFX7	X800 X400	9,3	0,95	4,0	7,0	10,0	5,8	2,9	0,21	D10
2,0	2,5	**D10.1020.01.10 MR/L**	R ACUA L AKXX	X800 X400	9,3	1,08	3,9	7,0	10,0	5,8	2,75	0,25	D10
2,5	3,0	**D10.1325.01.10 MR/L**	R AMF8 L AN76	X800 X400	9,3	1,35	3,8	7,0	10,0	5,8	2,55	0,31	D10
3,0	3,5	**D10.1630.01.10 MR/L**	R AH96 L ACJE	X800 X400	9,3	1,62	4,0	7,0	10,0	5,8	2,3	0,37	D10

Related Items can be found on the following page as well! Continued Table

Order example: **D08.0510.01 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.

Threading, Metric ISO Partial Profile

Multi-purpose tools, usable for different pitches.

Cutting parameters (start)
Number of passes **10 - 16**
Recom. infeed method **Flank infeed**
Vc **Page 118**

Suitable toolholders on page
14, 15, 16, 18, 20, 21, 25

SP HM R Legend 66

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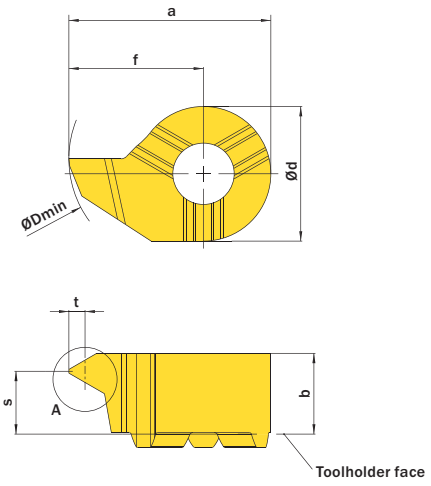

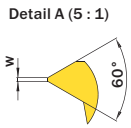

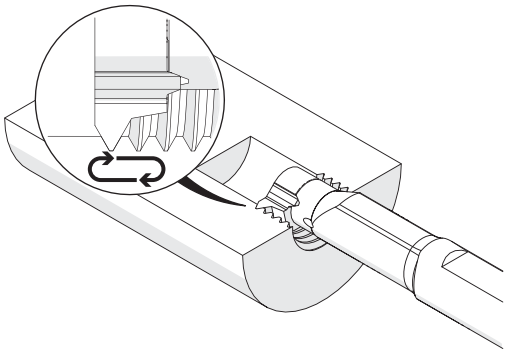

Drawing shows: D14.1020.01 M R

Pitch (as of) mm	Pitch (up to) mm	Part number	Webcode www.simtek.com/webcode	Our first choice P K M N S	a mm	t mm	b mm	Ød mm	ØDmin (min. bore) mm	f mm	S mm	w mm	Connectcode www.simtek.com/ccode
Continued Table		Related Items can be found on the previous page as well!											
▼ ØDmin (min. bore) = 11,0 mm													
0,5	0,75	**D11.0205.01 MR/L**	R AJEC L ANKC	X800 X400	10,7	0,43	4,2	8,0	11,0	6,7	3,75	0,06	D11
1,0	1,25	**D11.0510.01 MR/L**	R ABSH L ACPA	X800 X400	10,7	0,7	4,2	8,0	11,0	6,7	3,6	0,12	D11
1,5	1,75	**D11.0815.01 MR/L**	R AGA9 L AC8F	X800 X400	10,7	0,98	4,2	8,0	11,0	6,7	3,4	0,18	D11
2,0	2,5	**D11.1020.01 MR/L**	R AJ8F L AGUB	X800 X400	10,7	1,41	4,2	8,0	11,0	6,7	3,15	0,25	D11
2,5	3,0	**D11.1325.01 MR/L**	R AFSG L AMNB	X800 X400	10,7	1,68	4,2	8,0	11,0	6,7	2,95	0,31	D11
▼ ØDmin (min. bore) = 14,0 mm													
1,0	1,25	**D14.0510.01 MR/L**	R AAYN L AJ9C	X800 X400	13,5	0,55	5,4	9,0	14,0	9,0	4,6	0,12	D14
1,5	1,75	**D14.0815.01 MR/L**	R AM9F L ADYM	X800 X400	13,5	0,81	5,4	9,0	14,0	9,0	4,3	0,18	D14
2,0	2,5	**D14.1020.01 MR/L**	R AEQN L AA41	X800 X400	13,5	1,08	5,4	9,0	14,0	9,0	3,9	0,25	D14
2,5	3,0	**D14.1325.01 MR/L**	R APM1 L AEX9	X800 X400	13,5	1,35	5,4	9,0	14,0	9,0	3,55	0,31	D14
▼ ØDmin (min. bore) = 16,0 mm													
1,0	1,25	**D16.0510.01 MR/L**	R AFMB L ACG7	X800 X400	15,7	0,7	5,4	11,0	16,0	10,2	4,8	0,12	D16
1,5	1,75	**D16.0815.01 MR/L**	R AFAG L ANF1	X800 X400	15,7	0,98	5,4	11,0	16,0	10,2	4,6	0,18	D16
2,0	2,5	**D16.1020.01 MR/L**	R AG9J L AJDQ	X800 X400	15,7	1,41	5,4	11,0	16,0	10,2	4,35	0,25	D16
2,5	3,0	**D16.1325.01 MR/L**	R AKYZ L AGDW	X800 X400	15,7	1,68	5,4	11,0	16,0	10,2	4,15	0,31	D16

Order example: **D14.1325.01 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.

Threading, Trapezoidal Partial Profile

Partial profile for internal trapezoidal-thread.

Cutting parameters (start)
Number of passes **12 - 18**
Recom. infeed method **Flank infeed**
Vc **Page 118**

Suitable toolholders on page
12, 13, 14, 15, 16, 18, 20, 21, 25

SP HM R Legend **66**

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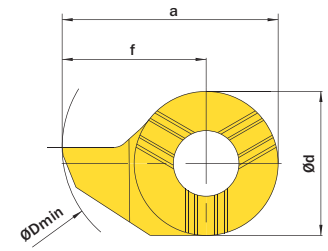
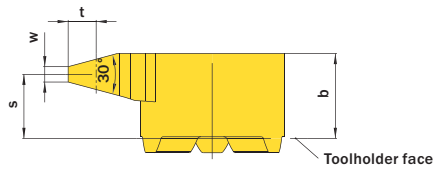
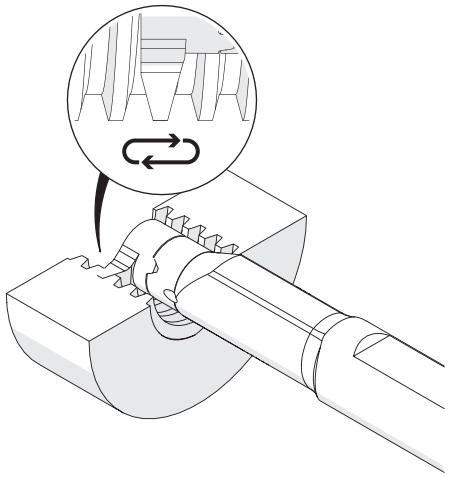






Drawing shows: D14.1730.01 MR

As of thread size	t	Pitch (as of)	Part number	Webcode www.simtek.com/webcode	Our first choice P K M N S	a	b	Ød	ØDmin (min. bore)	f	S	w	Connectcode www.simtek.com/ccode
	mm	mm				mm	mm	mm	mm	mm	mm	mm	
▼ As of thread size = 12,0													
12,0	0,9	1,5	**D09.TR15.01.09 MR/L**	R AWF1 L AWHE	X800 X400	8,6	3,55	6,2	9,0	5,5	3,0	0,47	D09
12,0	1,25	2,0	**D09.TR20.01.09 MR/L**	R AWF0 L AWHD	X800 X400	8,6	3,55	6,2	9,0	5,5	2,85	0,6	D09
12,0	0,9	1,5	**D10.TR15.01.10 MR/L**	R ASBH L ASBG	X800 X400	9,3	3,95	7,0	10,0	5,8	3,32	0,47	D10
▼ As of thread size = 14,0													
14,0	1,75	3,0	**D09.TR30.01.09 MR/L**	R AWFZ L AWHC	X800 X400	8,6	3,55	6,2	9,0	5,5	2,25	0,96	D09
14,0	1,25	2,0	**D10.TR20.01.10 MR/L**	R ASBK L ASBJ	X800 X400	9,3	3,7	7,0	10,0	5,8	2,91	0,6	D10
14,0	1,75	3,0	**D10.TR30.01.10 MR/L**	R ASBN L ASBM	X800 X400	9,3	3,7	7,0	10,0	5,8	2,57	0,96	D10
14,0	0,9	1,5	**D11.1015.01 MR/L**	R AA9G L AAQ0	X800 X400	10,7	4,3	8,0	11,0	6,7	3,7	0,47	D11
14,0	1,25	2,0	**D11.1220.01 MR/L**	R AF6J L AH27	X800 X400	10,7	4,3	8,0	11,0	6,7	3,5	0,6	D11
▼ As of thread size = 16,0													
16,0	2,25	4,0	**D09.TR40.01.10 MR/L**	R AWFY L AWHB	X800 X400	9,6	3,55	6,2	10,0	6,5	2,25	1,33	D09
16,0	2,25	4,0	**D10.TR40.01.11 MR/L**	R ASBQ L ASBP	X800 X400	10,3	3,7	7,0	11,0	6,8	2,14	1,33	D10
16,0	1,75	3,0	**D11.1730.01 MR/L**	R AP1Y L AMT5	X800 X400	10,7	4,3	8,0	11,0	6,7	3,2	0,96	D11
16,0	2,25	4,0	**D11.2240.01 MR/L**	R ANXG L AFT8	X800 X400	10,7	4,0	8,0	11,0	6,7	2,6	1,33	D11
▼ As of thread size = 18,0													
18,0	1,25	2,0	**D14.1220.01 MR/L**	R AD11 L AFN9	X800 X400	13,5	5,3	9,0	14,0	9,0	4,3	0,6	D14
18,0	1,75	3,0	**D14.1730.01 MR/L**	R AMAN L ANQF	X800 X400	13,5	5,3	9,0	14,0	9,0	4,0	0,96	D14
▼ As of thread size = 20,0													
20,0	2,25	4,0	**D14.2240.01 MR/L**	R AGYM L AKD9	X800 X400	13,5	5,3	9,0	14,0	9,0	4,0	1,33	D14
20,0	1,25	2,0	**D16.1220.01 MR/L**	R AGNW L AAX2	X800 X400	15,2	5,5	11,0	16,0	9,7	4,5	0,6	D16
20,0	1,75	3,0	**D16.1730.01 MR/L**	R AG99 L AM5S	X800 X400	15,2	5,5	11,0	16,0	9,7	4,3	0,96	D16
▼ As of thread size = 22,0													
22,0	2,75	5,0	**D14.2750.01 MR/L**	R AJ51 L AA01	X800 X400	13,5	5,3	9,0	14,0	9,0	3,55	1,69	D14
22,0	2,25	4,0	**D16.2240.01 MR/L**	R ANBP L ACCX	X800 X400	15,2	5,5	11,0	16,0	9,7	4,0	1,33	D16
22,0	2,75	5,0	**D16.2750.01 MR/L**	R APG1 L ANCP	X800 X400	15,7	5,5	11,0	16,0	10,2	3,6	1,69	D16
▼ As of thread size = 32,0													
32,0	3,5	6,0	**D16.3560.01 MR/L**	R AEJX L APZ5	X800 X400	15,7	5,5	11,0	16,0	10,2	3,3	1,92	D16

Order example: **D16.2750.01 MR X800** (R = Right hand version, X800 = Grade)

Threading, BSW/BSF Full Profile

For a complete thread profile with correct depth, top radius and bottom radius.

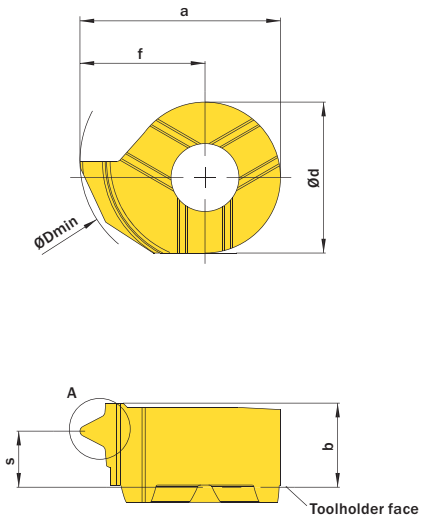
Cutting parameters (start)
Number of passes **10 - 16**
Recom. infeed method **Flank infeed**
Vc **Page 118**

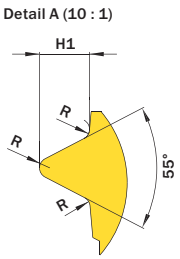
Suitable toolholders on page
13, 14, 15, 16, 18, 20, 21, 25

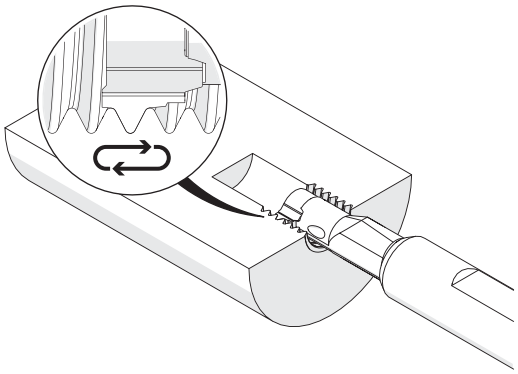
SP HM R Legend 66

Scan QR-Code Or Visit **www.simtek.info/cp/821**

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







Drawing shows: D10.1118.14.10 M R

H1 inch	Pitch (as of) inch	Threads/Inch	Part number	Webcode www.simtek.com/webcode				Our first choice P K M N S		a inch	b inch	Ød inch	ØDmin (min. bore) inch	f inch	R inch	S inch	Connectcode www.simtek.com/ccode	
▼ ØDmin (min. bore) = 0.394“																		
0.033“	0.053“	19	**D10.0813.19.10 MR/L**	R	AF1V	L	AD9V	X800	X400	0.366“	0.150“	0.276“	0.394“	0.228“	0.007“	0.110“	D10	inch
0.046“	0.071“	14	**D10.1118.14.10 MR/L**	R	APMJ	L	ADU8	X800	X400	0.366“	0.150“	0.276“	0.394“	0.228“	0.009“	0.102“	D10	inch
0.058“	0.091“	11	**D10.1423.11.10 MR/L**	R	AFYX	L	APUK	X800	X400	0.366“	0.150“	0.276“	0.394“	0.228“	0.012“	0.091“	D10	inch
▼ ØDmin (min. bore) = 0.433“																		
0.033“	0.053“	19	**D11.0813.19 MR/L**	R	AMMN	L	AKQV	X800	X400	0.421“	0.169“	0.315“	0.433“	0.264“	0.007“	0.106“	D11	inch
0.046“	0.071“	14	**D11.1118.14 MR/L**	R	AGJS	L	AB2A	X800	X400	0.421“	0.169“	0.315“	0.433“	0.264“	0.009“	0.118“	D11	inch
▼ ØDmin (min. bore) = 0.551“																		
0.033“	0.053“	19	**D14.0813.19 MR/L**	R	ANYF	L	AGT5	X800	X400	0.531“	0.211“	0.354“	0.551“	0.354“	0.007“	0.150“	D14	inch
0.046“	0.071“	14	**D14.1118.14 MR/L**	R	AGGU	L	APH5	X800	X400	0.531“	0.213“	0.354“	0.551“	0.354“	0.009“	0.142“	D14	inch
▼ ØDmin (min. bore) = 0.630“																		
0.046“	0.071“	14	**D16.1118.14 MR/L**	R	AGFF	L	ABXY	X800	X400	0.618“	0.213“	0.433“	0.630“	0.402“	0.009“	0.154“	D16	inch
0.058“	0.091“	11	**D16.1423.11 MR/L**	R	AMQC	L	AKAB	X800	X400	0.618“	0.213“	0.433“	0.630“	0.402“	0.012“	0.138“	D16	inch

Order example: **D10.0813.19.10 MR X800** (R = Right hand version, X800 = Grade)

Threading, ACME / STUB-ACME, Partial Profile

Partial profile for internal ACME- and STUB-ACME thread.

Cutting parameters (start)
Number of passes
12 - 18
Recom. infeed method
Flank infeed
Vc
Page 118

Suitable toolholders on page
13, 14, 18, 20, 21

SP HM R Legend **66**

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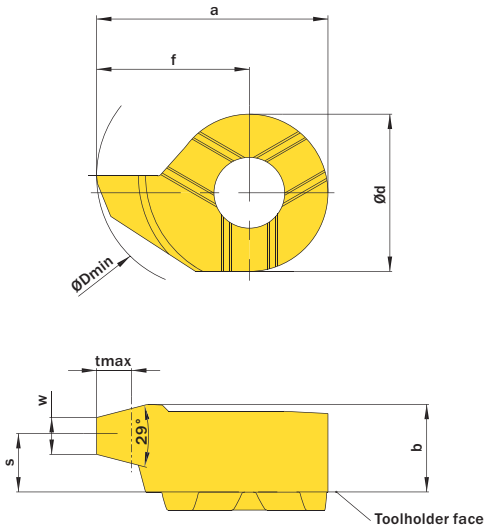

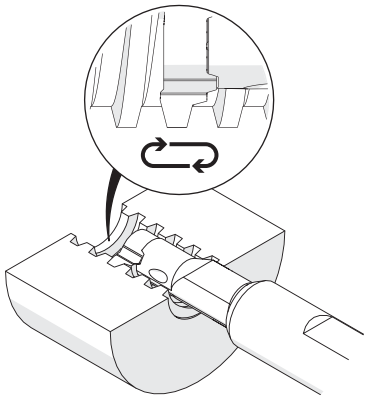

Threads/Inch	ØDmin (min. bore) inch	Type of thread	Part number	Webcode www.simtek.com/webcode	Our first choice P K M N S	a inch	b inch	Ød inch	f inch	Pitch (as of) inch	S inch	w inch	tmax inch	Connectcode www.simtek.com/ccode	
▼ Threads/Inch = 10															
10	0.394“	STUB-ACME	**D10.SA10.01.10 MR/L**	R AGDD L AFWG	X800 X400	0.366“	0.154“	0.276“	0.228“	0.100“	0.114“	0.037“	0.047“	D10	inch
▼ Threads/Inch = 12															
12	0.394“	STUB-ACME	**D10.SA12.01.10 MR/L**	R AS1G L ATV7	X800 X400	0.366“	0.154“	0.276“	0.228“	0.083“	0.116“	0.032“	0.036“	D10	inch
▼ Threads/Inch = 5															
5	0.433“	ACME	**D10.AC05.01.11 MR**	A3TD	X800 X400	0.406“	0.146“	0.276“	0.268“	0.200“	0.075“	0.069“	0.110“	D10	inch
5	0.394“	STUB-ACME	**D10.SA05.01.10 MR/L**	R AFAM L AE4B	X800 X400	0.366“	0.146“	0.276“	0.228“	0.200“	0.077“	0.079“	0.080“	D10	inch
▼ Threads/Inch = 6															
6	0.433“	ACME	**D10.AC06.01.11 MR/L**	R AEAB L AJ18	X800 X400	0.406“	0.154“	0.276“	0.268“	0.167“	0.091“	0.056“	0.104“	D10	inch
6	0.394“	STUB-ACME	**D10.SA06.01.10 MR/L**	R AK49 L AGC9	X800 X400	0.366“	0.146“	0.276“	0.228“	0.167“	0.093“	0.065“	0.069“	D10	inch
6	0.433“	ACME	**D11.AC06.01 MR/L**	R AKTH L ATV6	X800 X400	0.421“	0.156“	0.315“	0.264“	0.167“	0.098“	0.056“	0.094“	D11	inch
▼ Threads/Inch = 8															
8	0.433“	ACME	**D10.AC08.01.11 MR/L**	R AJCF L AHZU	X800 X400	0.406“	0.154“	0.276“	0.268“	0.125“	0.104“	0.041“	0.083“	D10	inch
8	0.394“	STUB-ACME	**D10.SA08.01.10 MR/L**	R AB7E L AF6Z	X800 X400	0.366“	0.146“	0.276“	0.228“	0.125“	0.091“	0.048“	0.056“	D10	inch

Order example: **D10.AC06.01.11 MR X800** (R = Right hand version, X800 = Grade)

Threading, NPT Full Profile

For a complete thread profile with correct depth.

Cutting parameters (start)
Number of passes **10 - 16**
Recom. infeed method **Flank infeed**
Vc **Page 118**

Suitable toolholders on page
13, 18, 21

SP HM R Legend 66

Scan QR-Code Or Visit **www.simtek.info/cp/824**

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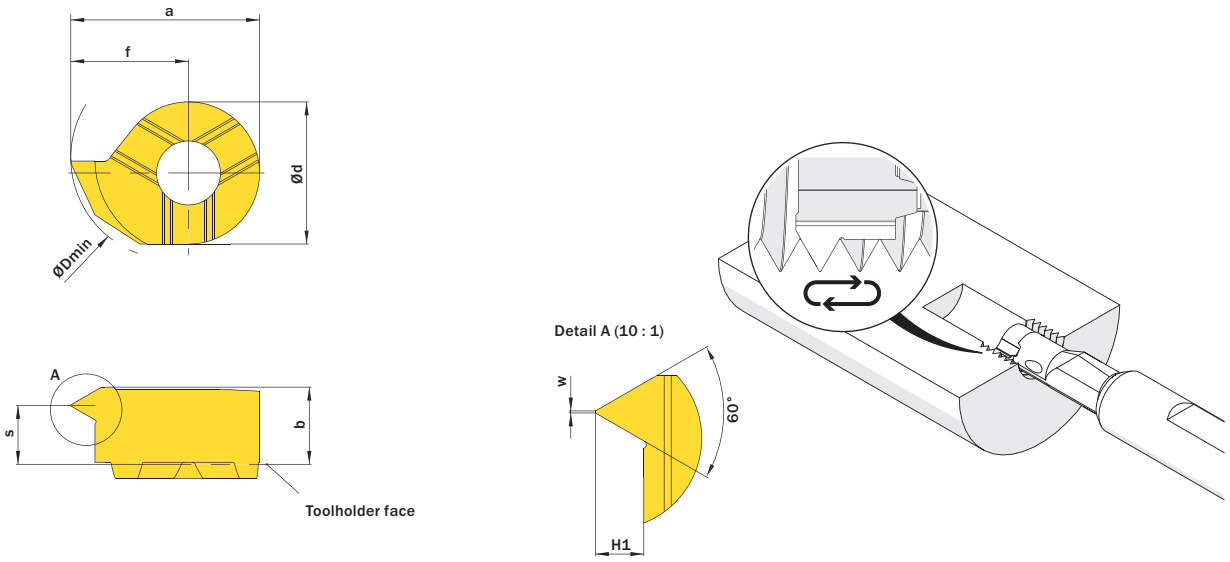

Drawing shows: D10.NP18.02.10 MR

Threads/Inch	ØDmin (min. bore) inch	Part number	Webcode www.simtek.com/webcode		Our first choice P K M N S	a inch	b inch	Ød inch	f inch	H1 inch	Pitch (as of) inch	S inch	w inch	Connectcode www.simtek.com/ccode	
▼ Threads/Inch = 14															
14	0.394“	**D10.NP14.02.10 MR/L**	R AHTH	L AHKY	X800 X400	0.366“	0.154“	0.276“	0.228“	0.058“	0.071“	0.106“	0.003“	D10	inch
▼ Threads/Inch = 18															
18	0.394“	**D10.NP18.02.10 MR/L**	R AMWT	L ACWX	X800 X400	0.366“	0.154“	0.276“	0.228“	0.047“	0.056“	0.114“	0.002“	D10	inch
▼ Threads/Inch = 27															
27	0.394“	**D10.NP27.02.10 MR/L**	R ABKW	L ADBW	X800 X400	0.366“	0.150“	0.276“	0.228“	0.031“	0.037“	0.126“	0.002“	D10	inch

Order example: **D10.NP18.02.10 MR X800** (R = Right hand version, X800 = Grade)

Threading, UNC/UNF Full Profile

For a complete thread profile with correct depth.

Cutting parameters (start)
Number of passes **10 - 16**
Recom. infeed method **Flank infeed**
Vc **Page 118**

Suitable toolholders on page
13, 15, 18, 21, 25

SP HM R Legend 66

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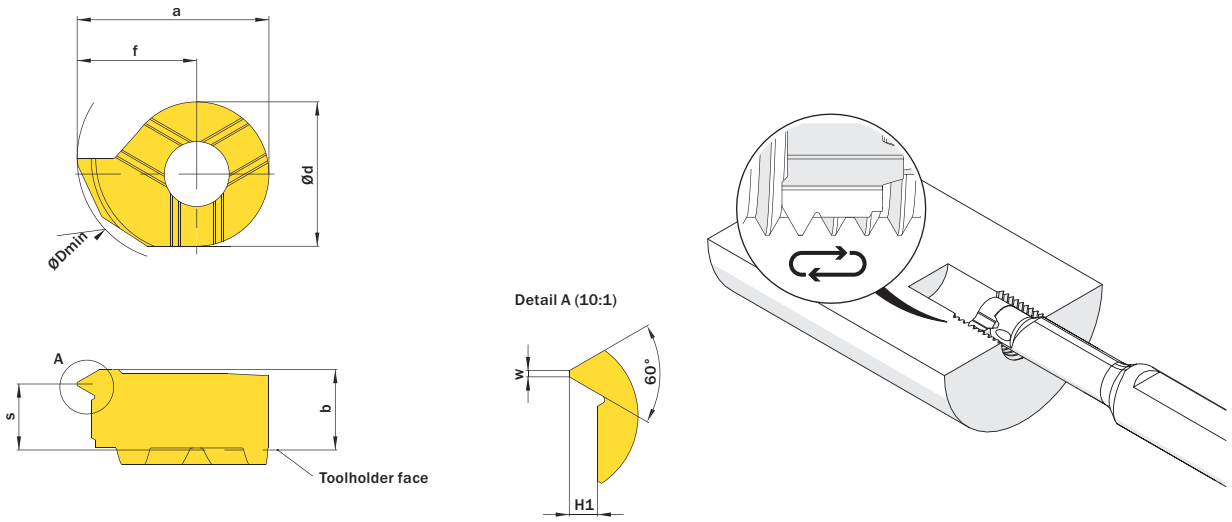

Drawing shows: D10.UN20.02.10 MR

Threads/Inch	ØDmin (min. bore) inch	Part number	Webcode www.simtek.com/webcode	Our first choice P K M N S	a inch	b inch	Ød inch	f inch	H1 inch	Pitch (as of) inch	S inch	w inch	Connectcode www.simtek.com/ccode	
▼ Threads/Inch = 08														
08	0.394“	**D10.UN08.02.10 MR/L**	R AS8Y L AS8X	X800 X400	0.366“	0.157“	0.276“	0.228“	0.068“	0.125“	0.098“	0.015“	D10	inch
08	0.551“	**D14.UN08.02.14 M R**	A2H3	X800 X400	0.531“	0.211“	0.354“	0.354“	0.068“	0.125“	0.148“	0.015“	D14	inch
▼ Threads/Inch = 10														
10	0.551“	**D14.UN10.02.14 M R**	A2H5	X800 X400	0.531“	0.213“	0.354“	0.354“	0.054“	0.100“	0.165“	0.012“	D14	inch
▼ Threads/Inch = 12														
12	0.547“	**D14.UN12.02.14 M R**	A2H7	X800 X400	0.512“	0.213“	0.354“	0.335“	0.045“	0.083“	0.173“	0.010“	D14	inch
▼ Threads/Inch = 13														
13	0.394“	**D10.UN13.02.10 MR**	A3UB	X800 X400	0.366“	0.157“	0.276“	0.228“	0.042“	0.077“	0.114“	0.009“	D10	inch
▼ Threads/Inch = 14														
14	0.394“	**D10.UN14.02.10 MR/L**	R AMKN L AMWU	X800 X400	0.366“	0.157“	0.276“	0.228“	0.039“	0.071“	0.126“	0.009“	D10	inch
▼ Threads/Inch = 16														
16	0.394“	**D10.UN16.02.10 MR/L**	R ADTY L AG2V	X800 X400	0.366“	0.157“	0.276“	0.228“	0.034“	0.063“	0.122“	0.007“	D10	inch
▼ Threads/Inch = 18														
18	0.394“	**D10.UN18.02.10 MR/L**	R AC8W L AFWF	X800 X400	0.366“	0.157“	0.276“	0.228“	0.030“	0.056“	0.126“	0.007“	D10	inch
▼ Threads/Inch = 20														
20	0.394“	**D10.UN20.02.10 MR/L**	R AJ7T L AJ58	X800 X400	0.366“	0.157“	0.276“	0.228“	0.027“	0.050“	0.126“	0.006“	D10	inch
▼ Threads/Inch = 24														
24	0.394“	**D10.UN24.02.10 MR/L**	R AAB4 L AKGC	X800 X400	0.366“	0.157“	0.276“	0.228“	0.022“	0.042“	0.130“	0.005“	D10	inch
▼ Threads/Inch = 28														
28	0.394“	**D10.UN28.02.10 MR/L**	R AF3V L AMB5	X800 X400	0.366“	0.157“	0.276“	0.228“	0.019“	0.036“	0.134“	0.004“	D10	inch
▼ Threads/Inch = 32														
32	0.394“	**D10.UN32.02.10 MR/L**	R AB0Q L AHY0	X800 X400	0.366“	0.157“	0.276“	0.228“	0.017“	0.031“	0.134“	0.004“	D10	inch

Order example: **D10.UN20.02.10 MR X800** (R = Right hand version, X800 = Grade)

Face Grooving in bores

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

Cutting parameters (start)	
f **0,02 mm/U**	Vc **Page 71**

Suitable toolholders on page
22, 23, 24

SP HM R Legend **66**

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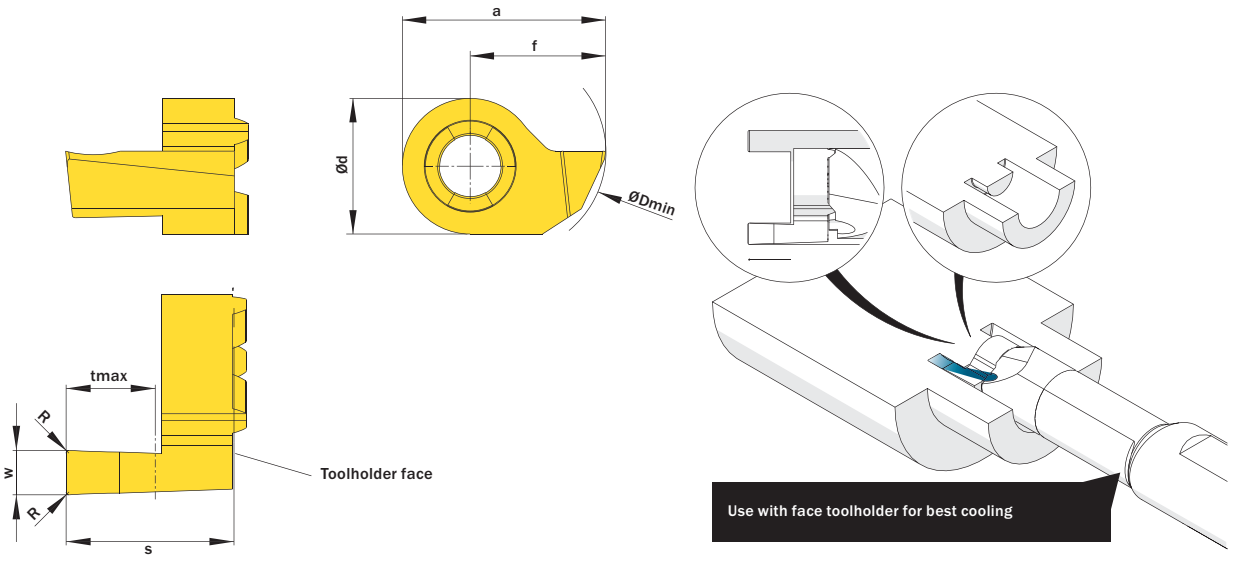


Drawing shows: D14.1430.62 A R

ØDmin (min. bore) mm/inch	w +0.03mm / 0.001“ mm/inch	R mm/inch	tmax mm/inch	Part number	Webcode www.simtek.com/webcode	Our first choice P K M N S	a mm/inch	Ød mm/inch	f mm/inch	S mm/inch	Connectcode www.simtek.com/ccode	
▼ tmax = 1,5 mm / 0.059“												
14,0	1,0	-	1,5	**D14.1410.00 AR/L**	R AB03 L AJC4	X800 X400	13,5	9,0	9,0	8,3	R D14.A.R L D14.A.L	
0.551“	0.046“	-	0.059“	**D14.1411.00 AR/L**	R AA1G L AGEN	X800 X400	0.531“	0.354“	0.354“	0.327“	R D14.A.R L D14.A.L	inch
▼ tmax = 2,5 mm / 0.098“												
14,0	1,5	0,2	2,5	**D14.1415.02 AR/L**	R AET8 L ABZX	X800 X400	13,5	9,0	9,0	8,3	R D14.A.R L D14.A.L	
14,0	1,6	0,2	2,5	**D14.1416.02 AR/L**	R AC9S L AGVC	X800 X400	13,5	9,0	9,0	8,3	R D14.A.R L D14.A.L	
0.551“	0.062“	0.008“	0.098“	**D14.1416.020 AR**	A4VN	X800 X400	0.531“	0.354“	0.354“	0.327“	D14.A.R	inch
▼ tmax = 3,0 mm / 0,118“												
14,0	2,0	0,2	3,0	**D14.1420.02 AR/L**	R AKZS L AG57	X800 X400	13,5	9,0	9,0	8,3	R D14.A.R L D14.A.L	
0.551“	0.094“	0.008“	0.118“	**D14.1424.02 AR/L**	R AF82 L AHNH	X800 X400	0.531“	0.354“	0.354“	0.327“	R D14.A.R L D14.A.L	inch
14,0	2,5	0,2	3,0	**D14.1425.02 AR/L**	R AMKF L AJN5	X800 X400	13,5	9,0	9,0	8,3	R D14.A.R L D14.A.L	
14,0	3,0	0,2	3,0	**D14.1430.02 AR/L**	R ABPP L AMDG	X800 X400	13,5	9,0	9,0	8,3	R D14.A.R L D14.A.L	
0.551“	0.125“	0.008“	0.118“	**D14.1432.02 AR/L**	R AHGE L AMA5	X800 X400	0.531“	0.354“	0.354“	0.327“	R D14.A.R L D14.A.L	inch
▼ tmax = 5,0 mm / 0,197“												
14,0	2,0	0,2	5,0	**D14.1420.52 AR/L**	R AGV5 L AATA	X800 X400	13,5	9,0	9,0	10,3	R D14.A.R L D14.A.L	
0.551“	0.094“	0.008“	0.197“	**D14.1424.52 AR/L**	R AF3H L AMMD	X800 X400	0.531“	0.354“	0.354“	0.406“	R D14.A.R L D14.A.L	inch
14,0	2,5	0,2	5,0	**D14.1425.52 AR/L**	R ACQN L AGFZ	X800 X400	13,5	9,0	9,0	10,3	R D14.A.R L D14.A.L	
14,0	3,0	0,2	5,0	**D14.1430.52 AR/L**	R AKV7 L AJKK	X800 X400	13,5	9,0	9,0	10,3	R D14.A.R L D14.A.L	
0.551“	0.125“	0.008“	0.197“	**D14.1432.52 AR/L**	R AGHH L ANZK	X800 X400	0.531“	0.354“	0.354“	0.406“	R D14.A.R L D14.A.L	inch
▼ tmax = 6,0 mm												
14,0	3,0	0,2	6,0	**D14.1430.62 AR**	AGU2	X800 X400	13,5	9,0	9,0	11,3	D14.A.R	
▼ tmax = 10,0 mm												
18,0	3,0	0,2	10,0	**D18.1830.10.02 AR/L**	R AGNP L AVST	X800 X400	16,5	11,0	11,0	15,8	R D18.18.A.R L D18.18.A.L	
18,0	4,0	0,2	10,0	**D18.1840.10.02 AR/L**	R AVJW L AVSU	X800 X400	17,0	11,0	11,5	15,8	R D18.18.A.R L D18.18.A.L	

Order example: **D14.1420.52 AR X800** (R = Right hand version, X800 = Grade)

Face Grooving on Pivots

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

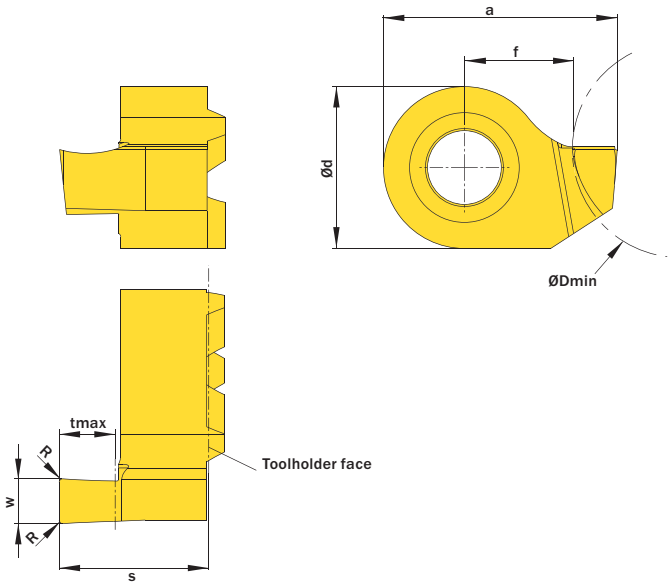
Cutting parameters (start)	
f **0,02 mm/U**	Vc **Page 118**

Suitable toolholders on page
22, 23, 24

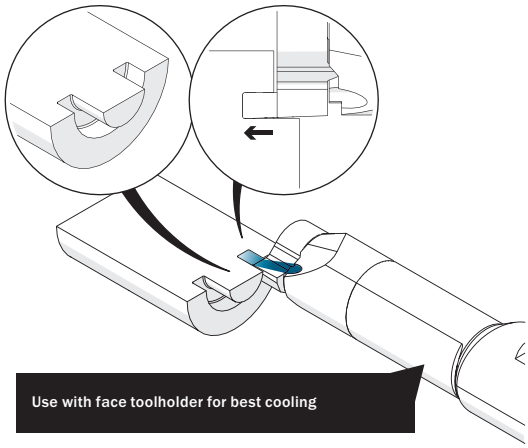
SP HM R Legend **66**

Scan **QR-Code** Or Visit **www.simtek.info/cp/832**

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



Drawing shows: D14.1225.02 AR



ØDmin (min. bore) mm/inch	w +0.03mm / 0.001“ mm/inch	R mm/inch	tmax mm/inch	Part number	Webcode www.simtek.com/webcode	Our first choice P K M N S	a mm/inch	Ød mm/inch	f mm/inch	S mm/inch	Connectcode www.simtek.com/ccode	
▼ tmax = 1,5 mm / 0.059“												
12,0	1,0	-	1,5	**D14.1210.00 AR/L**	R ABWS L AJFU	X800 X400	11,5	9,0	6,0	8,3	R D14.A.R L D14.A.L	
0.472“	0.046“	-	0.059“	**D14.1211.00 AR/L**	R AN2V L AK7A	X800 X400	0.459“	0.354“	0.236“	0.327“	R D14.A.R L D14.A.L	inch
▼ tmax = 2,5 mm												
12,0	1,5	0,2	2,5	**D14.1215.02 AR/L**	R APSE L AAPS	X800 X400	12,0	9,0	6,0	8,3	R D14.A.R L D14.A.L	
12,0	1,6	0,2	2,5	**D14.1216.02 AR/L**	R ANAD L AMU8	X800 X400	12,1	9,0	6,0	8,3	R D14.A.R L D14.A.L	
▼ tmax = 3,0 mm / 0.118“												
0.472“	0.078“	0.008“	0.118“	**D14.1219.02 AR/L**	R A1AY L A1AX	X800 X400	0.491“	0.354“	0.236“	0.327“	R D14.A.R L D14.A.L	inch
12,0	2,0	0,2	3,0	**D14.1220.02 AR/L**	R AC8D L AE18	X800 X400	12,5	9,0	6,0	8,3	R D14.A.R L D14.A.L	
0.472“	0.094“	0.008“	0.118“	**D14.1224.02 AR/L**	R AKEX L AFYK	X800 X400	0.508“	0.354“	0.236“	0.327“	R D14.A.R L D14.A.L	inch
12,0	2,5	0,2	3,0	**D14.1225.02 AR/L**	R AGWW L AEK9	X800 X400	13,0	9,0	6,0	8,3	R D14.A.R L D14.A.L	
12,0	3,0	0,2	3,0	**D14.1230.02 AR/L**	R AE7M L AMQB	X800 X400	13,5	9,0	6,0	8,3	R D14.A.R L D14.A.L	
0.472“	0.125“	0.008“	0.118“	**D14.1232.02 AR/L**	R AEWC L AJFT	X800 X400	0.539“	0.354“	0.236“	0.327“	R D14.A.R L D14.A.L	inch
▼ tmax = 5,0 mm / 0.197“												
12,0	2,0	0,2	5,0	**D14.1220.52 AR/L**	R ADJN L AMVV	X800 X400	12,5	9,0	6,0	10,3	R D14.A.R L D14.A.L	
0.472“	0.094“	0.008“	0.197“	**D14.1224.52 AR/L**	R AGNN L ADHM	X800 X400	0.508“	0.354“	0.236“	0.406“	R D14.A.R L D14.A.L	inch
12,0	2,5	0,2	5,0	**D14.1225.52 AR/L**	R AF2H L AHXS	X800 X400	13,0	9,0	6,0	10,3	R D14.A.R L D14.A.L	
12,0	3,0	0,2	5,0	**D14.1230.52 AR/L**	R AKFF L AP2M	X800 X400	13,5	9,0	6,0	10,3	R D14.A.R L D14.A.L	
0.472“	0.125“	0.008“	0.197“	**D14.1232.52 AR/L**	R AMPY L AN1Y	X800 X400	0.539“	0.354“	0.236“	0.406“	R D14.A.R L D14.A.L	inch
▼ tmax = 6,0 mm												
12,0	3,0	0,2	6,0	**D14.1230.62 AR**	AAKH	X800 X400	13,5	9,0	6,0	11,3	D14.A.R	
▼ tmax = 10,0 mm												
16,0	3,0	0,2	10,0	**D18.1630.10.02 A R/L**	R AT1G L AVSW	X800 X400	16,5	11,0	8,0	15,8	R D18.16.A.R L D18.16.A.L	
16,0	4,0	0,2	10,0	**D18.1640.10.02 A R/L**	R AT1H L AVSV	X800 X400	17,5	11,0	8,0	15,8	R D18.16.A.R L D18.16.A.L	

Order example: **D14.1215.02 AR X800** (R = Right hand version, X800 = Grade)

Face Grooving in bores, Full Radius

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

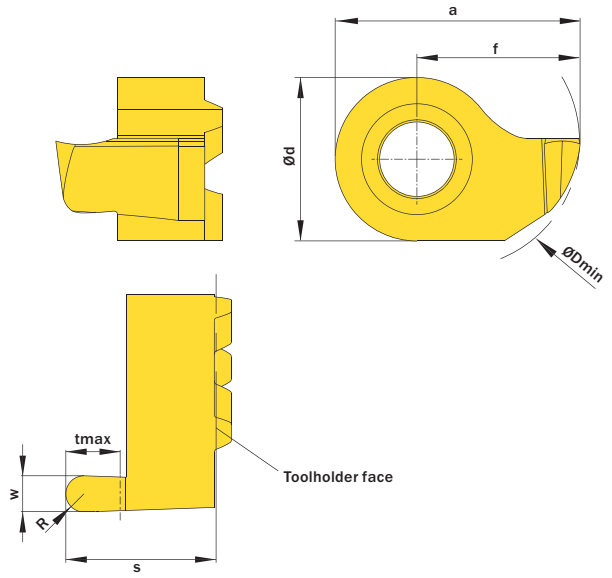
Cutting parameters (start)	
f **0,02 mm/U**	Vc **Page 118**

Suitable toolholders on page
22, 23, 24

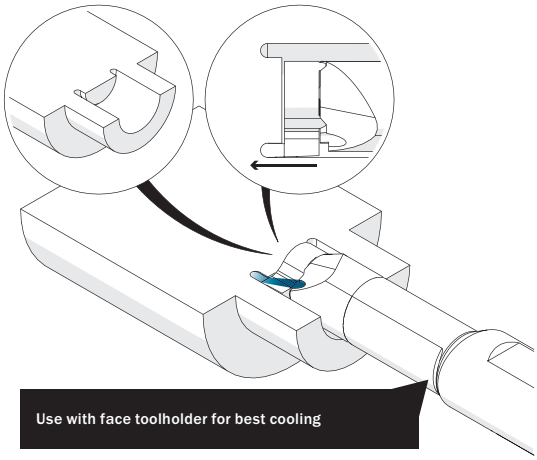
SP HM R Legend **66**

Scan QR-Code Or Visit **www.simtek.info/cp/819**

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



Drawing shows: D14.1420.10 AR



ØDmin (min. bore)	w +0.03mm / 0.001“	R	Part number	Webcode www.simtek.com/webcode	Our first choice	a	Ød	f	S	tmax	Connectcode www.simtek.com/ccode	
mm/inch	mm/inch	mm/inch			P K M N S	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch		
▼ tmax = 1,5 mm / 0.059“												
14,0	1,0	0,5	**D14.1410.05 AR/L**	R AEG0 L ACGA	X800 X400	13,5	9,0	9,0	8,3	1,5	R D14.A.R L D14.A.L	
0.551“	0.046“	0.023“	**D14.1412.058 AV R**	A4VQ	X800 X400	0.531“	0.354“	0.354“	0.406“	0.059“	D14.A.R	inch
▼ tmax = 2,5 mm												
14,0	1,5	0,75	**D14.1415.07 AR/L**	R A1GH L A1GG	X800 X400	13,5	9,0	9,0	8,3	2,5	R D14.A.R L D14.A.L	
14,0	1,6	0,8	**D14.1416.08 AR/L**	R ABNN L AFEQ	X800 X400	13,5	9,0	9,0	8,3	2,5	R D14.A.R L D14.A.L	
▼ tmax = 3,0 mm												
14,0	2,0	1,0	**D14.1420.10 AR/L**	R APW0 L AHNX	X800 X400	13,5	9,0	9,0	8,3	3,0	R D14.A.R L D14.A.L	
14,0	2,5	1,25	**D14.1425.12 AR/L**	R ANJW L ADX1	X800 X400	13,5	9,0	9,0	8,3	3,0	R D14.A.R L D14.A.L	
14,0	3,0	1,5	**D14.1430.15 AR/L**	R AP37 L ABES	X800 X400	13,5	9,0	9,0	8,3	3,0	R D14.A.R L D14.A.L	
▼ tmax = 5,0 mm												
14,0	2,0	1,0	**D14.1420.50 AV R/L**	R AWE5 L AWE4	X800 X400	13,5	9,0	9,0	10,3	5,0	R D14.A.R L D14.A.L	
14,0	2,5	1,25	**D14.1425.50 AV R/L**	R AWE7 L AWE6	X800 X400	13,5	9,0	9,0	10,3	5,0	R D14.A.R L D14.A.L	
14,0	3,0	1,5	**D14.1430.50 AV R/L**	R AWE9 L AWE8	X800 X400	13,5	9,0	9,0	10,3	5,0	R D14.A.R L D14.A.L	

Order example: **D14.1420.10 AR X800** (R = Right hand version, X800 = Grade)

Face Grooving on Pivots, Full Radius

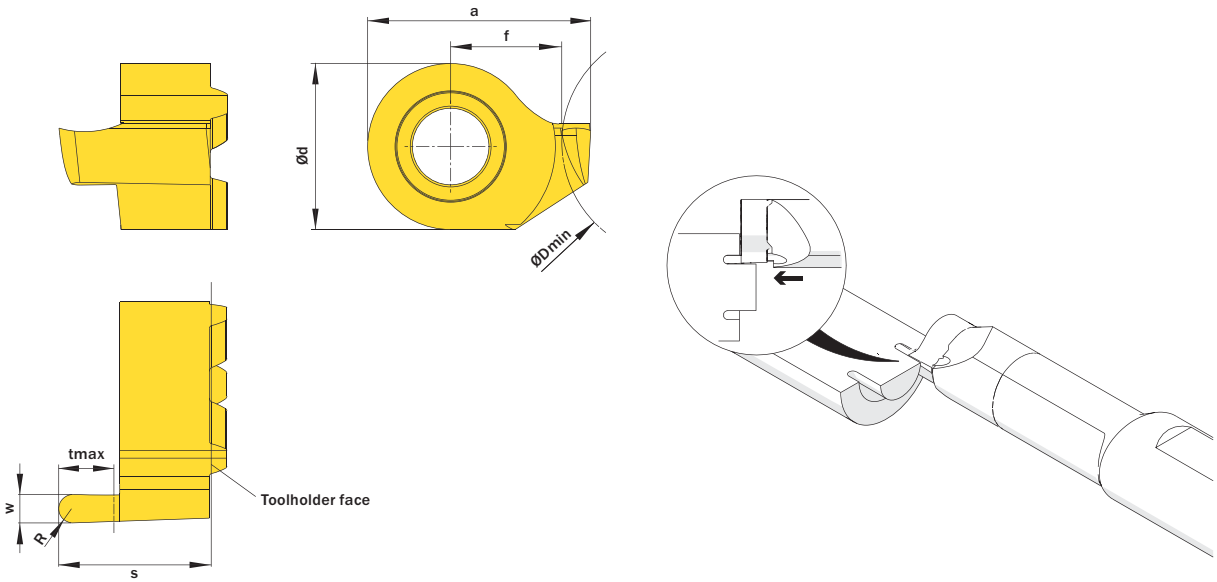
For use in bores as of minimum bore diameter 12,0 mm.

Cutting parameters (start)	
f **0,02 mm/U**	Vc **Page 118**

Suitable toolholders on page
22, 23, 24

SP HM R Legend **66**

Scan QR-Code Or Visit **www.simtek.info/cp/964**



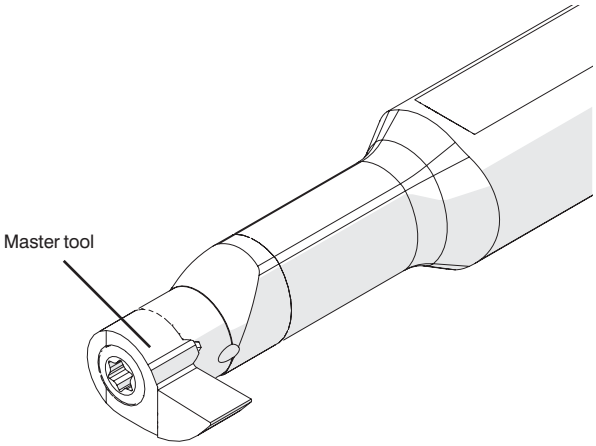
Drawing shows: D14.1216.08 AR

ØDmin (min. bore)	w +0,03	R	Part number	Webcode www.simtek.com/webcode		Our first choice P K M N S		a	Ød	f	S	tmax	Connectcode www.simtek.com/ccode	
mm	mm	mm						mm	mm	mm	mm	mm		
▼ tmax = 1,5 mm														
12,0	1,0	0,5	**D14.1210.05 AR/L**	R AU6C	L AU6B	X800 X400		11,5	9,0	6,0	8,3	1,5	R D14.A.R	L D14.A.L
▼ tmax = 2,5 mm														
12,0	1,5	0,75	**D14.1215.07 AR/L**	R A08G	L A08F	X800 X400		12,0	9,0	6,0	8,3	2,5	R D14.A.R	L D14.A.L
12,0	1,6	0,8	**D14.1216.08 AR/L**	R AU6E	L AU6D	X800 X400		12,1	9,0	6,0	8,3	2,5	R D14.A.R	L D14.A.L
▼ tmax = 3,0 mm														
12,0	2,0	1,0	**D14.1220.10 AR/L**	R AU6G	L AU6F	X800 X400		12,5	9,0	6,0	8,3	3,0	R D14.A.R	L D14.A.L
12,0	2,5	1,25	**D14.1225.12 AR/L**	R AU6J	L AU6H	X800 X400		13,0	9,0	6,0	8,3	3,0	R D14.A.R	L D14.A.L
12,0	3,0	1,5	**D14.1230.15 AR/L**	R AU6M	L AU6K	X800 X400		13,5	9,0	6,0	8,3	3,0	R D14.A.R	L D14.A.L
▼ tmax = 5,0 mm														
12,0	2,0	1,0	**D14.1220.50 AV R/L**	R AWEZ	L AWEY	X800 X400		12,5	9,0	6,0	10,3	5,0	R D14.A.R	L D14.A.L
12,0	2,5	1,25	**D14.1225.50 AV R/L**	R AWE1	L AWE0	X800 X400		13,0	9,0	6,0	10,3	5,0	R D14.A.R	L D14.A.L
12,0	3,0	1,5	**D14.1230.50 AV R/L**	R AWE3	L AWE2	X800 X400		13,5	9,0	6,0	10,3	5,0	R D14.A.R	L D14.A.L

Order example: **D14.1220.50 AV R X800** (R = Right hand version, X800 = Grade)

Additional information

MASTER



Please use the following Master tools, for adjusting and positioning the toolholder in hydraulic expansion chucks. These Master tools provide an easy and secure way.

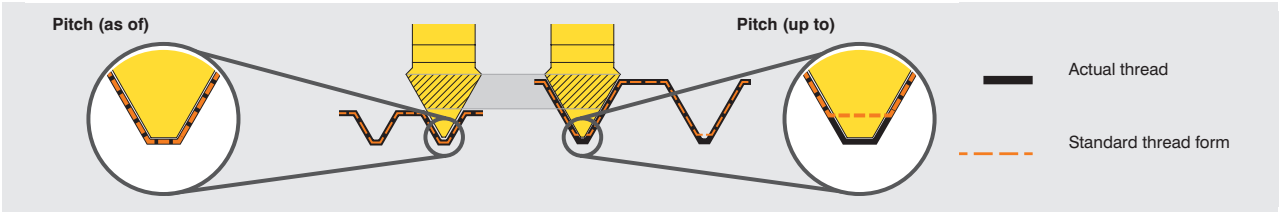
Master tool	Webcode	For toolholder
D07.MASTER GF25	A25K	D07...
D09.MASTER GF25	A25M	D09...
D10.MASTER R GF25	ATWD	D10...
D11.MASTER GF25	A25N	D11...
D14.MASTER R GF25	ATWC	D14...
D16.MASTER GF25	A25P	D16...
D18.MASTER GF25	A25Q	D18...

T01

The simturn threading 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

Legend

SP CBN **CBN insert**

SP HM **Carbide insert**

TW HM **Carbide toolholder**

TW ST **Steel toolholder**

ME **ME-clamping system**

R **Right hand version shown, left hand version inversely**

Through coolant

Anti-vibration

simturn DX Product list

Part Nr.	P
D07.0.500.21 HM	10
D07.0.500.30 HM	10
D07.0.500.42 HM	10
D07.0012.21 HM	10
D07.0012.21 ST	21
D07.0012.30 HM	10
D07.0012.42 HM	10
D07.0016.12 ST	21
D07.0100.00.07 GL	33
D07.0100.00.07 GR	33
D07.0100.00.08 GL	33
D07.0100.00.08 GR	33
D07.0150.00.07 GL	33
D07.0150.00.07 GR	33
D07.0150.00.08 GL	33
D07.0150.00.08 GR	33
D07.0150.02.08 NL	46
D07.0150.02.08 NR	46
D07.1841.01 YL	26
D07.1841.01 YR	26
D07.1841.02 YL	26
D07.1841.02 YR	26
D07.4545.02.07 FL	30
D07.4545.02.07 FR	30
D07.4746.02 YL	29
D07.4746.02 YR	29
D07.A06.20 HM	19
D07.A06.30 HM	19
D07.A06.40 HM	19
D07.A06.50 HM	19
D07.A06.60 HM	19
D07.MT05.01.07 ML	54
D07.MT05.01.07 MR	54
D07.MT10.01.07 ML	54
D07.MT10.01.07 MR	54
D07.MT15.01.07 ML	54
D07.MT15.01.07 MR	54
D08.0.500.12 ST	20
D08.0.500.21 HM	11
D08.0.500.30 HM	11
D08.0.500.42 HM	11
D08.0.625.12 ST	20
D08.0004.08 VL	49
D08.0004.08 VR	49
D08.0006.12 VL	49
D08.0006.12 VR	49
D08.0008.157 VL	49
D08.0008.157 VR	49
D08.0009.18 VL	49
D08.0009.18 VR	49
D08.0010.20 VL	49
D08.0010.20 VR	49
D08.0012.21 HM	11
D08.0012.21 ST	20
D08.0012.30 HM	11
D08.0012.42 HM	11
D08.0012.50 HM	11
D08.0016.12 ST	20
D08.0046.02.08 YEL	27
D08.0046.02.08 YER	27
D08.0070.00 ZL	34
D08.0070.00 ZR	34
D08.0078.00 GL	34
D08.0078.00 GR	34
D08.0078.02 NL	46
D08.0078.02 NR	46

Part Nr.	P
D08.0080.00 ZL	34
D08.0080.00 ZR	34
D08.0090.00 ZL	34
D08.0090.00 ZR	34
D08.0100.00 GL	34
D08.0100.00 GR	34
D08.0110.00 GL	34
D08.0110.00 GR	34
D08.0130.00 GL	34
D08.0130.00 GR	34
D08.0150.00 GL	34
D08.0150.00 GR	34
D08.0150.02 NL	46
D08.0150.02 NR	46
D08.0157.00 GL	34
D08.0157.00 GR	34
D08.0157.02 NL	46
D08.0157.02 NR	46
D08.0160.00 GL	34
D08.0160.00 GR	34
D08.0200.00 GL	34
D08.0200.00 GR	34
D08.0200.02 NL	46
D08.0200.02 NR	46
D08.0205.01 ML	54
D08.0205.01 MR	54
D08.0510.01 ML	54
D08.0510.01 MR	54
D08.0810.00 PL	51
D08.0810.00 PR	51
D08.0815.01 ML	54
D08.0815.01 MR	54
D08.1846.005 YL	26
D08.1846.005 YR	26
D08.1846.02 YL	26
D08.1846.02 YR	26
D08.1846.02 YU L	28
D08.1846.02 YU R	28
D08.2046.02 YL	26
D08.2046.02 YR	26
D08.2555.02 YL	29
D08.2555.02 YR	29
D08.3046.02 YL	31
D08.3046.02 YR	31
D08.4545.02 FL	30
D08.4545.02 FR	30
D08.4746.01 YL	29
D08.4746.01 YR	29
D08.4746.02 YL	29
D08.4746.02 YR	29
D08.4746.04 YL	29
D08.4746.04 YR	29
D09.0.625.14 ST	21
D09.0004.08.09 VL	49
D09.0004.08.09 VR	49
D09.0006.12.09 VL	49
D09.0006.12.09 VR	49
D09.0009.18.09 VL	49
D09.0009.18.09 VR	49
D09.0010.20.09 VL	49
D09.0010.20.09 VR	49
D09.0012.22 HM	12
D09.0012.30 HM	12
D09.0012.42 HM	12
D09.0012.56 HM	12
D09.0016.14 ST	21

Part Nr.	P
D09.0055.02.09 YEL	27
D09.0055.02.09 YER	27
D09.0070.00.09 GL	35
D09.0070.00.09 GR	35
D09.0080.00.09 GL	35
D09.0080.00.09 GR	35
D09.0090.00.09 GL	35
D09.0090.00.09 GR	35
D09.0100.00.09 GL	35
D09.0100.00.09 GR	35
D09.0110.00.09 GL	35
D09.0110.00.09 GR	35
D09.0130.00.09 GL	35
D09.0130.00.09 GR	35
D09.0150.00.09 GL	35
D09.0150.00.09 GR	35
D09.0150.02.09 NL	46
D09.0150.02.09 NR	46
D09.0150.02.10 NL	46
D09.0150.02.10 NR	46
D09.0160.00.09 GL	35
D09.0160.00.09 GR	35
D09.0200.00.09 GL	35
D09.0200.00.09 GR	35
D09.0200.02.09 NL	46
D09.0200.02.09 NR	46
D09.0200.02.10 NL	46
D09.0200.02.10 NR	46
D09.0205.01.09 ML	54
D09.0205.01.09 MR	54
D09.0205.02.09 ML	52
D09.0205.02.09 MR	52
D09.0250.00.09 GL	35
D09.0250.00.09 GR	35
D09.0300.00.09 GL	35
D09.0300.00.09 GR	35
D09.0510.01.09 ML	54
D09.0510.01.09 MR	54
D09.0510.02.09 ML	52
D09.0510.02.09 MR	52
D09.0810.00.09 PL	51
D09.0810.00.09 PR	51
D09.0815.01.09 ML	54
D09.0815.01.09 MR	54
D09.0815.02.09 ML	52
D09.0815.02.09 MR	52
D09.0917.01.09 ML	54
D09.0917.01.09 MR	54
D09.0917.02.09 ML	52
D09.0917.02.09 MR	52
D09.1020.01.09 ML	54
D09.1020.01.09 MR	54
D09.1020.02.09 ML	52
D09.1020.02.09 MR	52
D09.1325.01.09 ML	54
D09.1325.01.09 MR	54
D09.1325.02.09 ML	52
D09.1325.02.09 MR	52
D09.1630.01.09 ML	54
D09.1630.01.09 MR	54
D09.1630.02.09 ML	52
D09.1630.02.09 MR	52
D09.1855.02.09 YL	26
D09.1855.02.09 YR	26
D09.2055.02.09 YL	26
D09.2055.02.09 YR	26

Part Nr.	P
D09.3055.02.09 YL	31
D09.3055.02.09 YR	31
D09.3065.02.10 YL	31
D09.3065.02.10 YR	31
D09.4545.02.09 FL	30
D09.4545.02.09 FR	30
D09.4755.02.09 YL	29
D09.4755.02.09 YR	29
D09.TR15.01.09 ML	56
D09.TR15.01.09 MR	56
D09.TR20.01.09 ML	56
D09.TR20.01.09 MR	56
D09.TR30.01.09 ML	56
D09.TR30.01.09 MR	56
D09.TR40.01.10 ML	56
D09.TR40.01.10 MR	56
D10.0.500.22 HM	13
D10.0.500.32 HM	13
D10.0.500.48 HM	13
D10.0.500.64 HM	13
D10.0.625.16 ST	21
D10.0.625.24 ST	21
D10.0004.08.10 VL	49
D10.0004.08.10 VR	49
D10.0006.12.10 VL	49
D10.0006.12.10 VR	49
D10.0009.18.10 VL	49
D10.0009.18.10 VR	49
D10.0010.20.10 VL	49
D10.0010.20.10 VR	49
D10.0012.24 HM	13
D10.0012.32 HM	13
D10.0012.48 HM	13
D10.0012.64 HM	13
D10.0016.16 ST	21
D10.0016.24 ST	21
D10.0020.24.087 ME	18
D10.0056.02.10 YEL	27
D10.0056.02.10 YER	27
D10.0070.00.10 GL	36
D10.0070.00.10 GR	36
D10.0080.00.10 GL	36
D10.0080.00.10 GR	36
D10.0090.00.10 GL	36
D10.0090.00.10 GR	36
D10.0100.00.10 GL	36
D10.0100.00.10 GR	36
D10.0100.00.11 GL	37
D10.0100.00.11 GR	37
D10.0100.00.12 GL	39
D10.0100.00.12 GR	39
D10.0110.00.10 GL	36
D10.0110.00.10 GR	36
D10.0130.00.10 GL	36
D10.0130.00.10 GR	36
D10.0150.00.10 GL	36
D10.0150.00.10 GR	36
D10.0150.00.11 GL	37
D10.0150.00.11 GR	37
D10.0150.00.12 GL	39
D10.0150.00.12 GR	39
D10.0150.02.10 NL	46
D10.0150.02.10 NR	46
D10.0150.02.11 NL	47
D10.0150.02.11 NR	47
D10.0150.02.12 NL	47

Part Nr.	P
D10.0150.02.12 NR	47
D10.0160.00.10 GL	36
D10.0160.00.10 GR	36
D10.0198.02.10 NR	46
D10.0200.00.10 GL	36
D10.0200.00.10 GR	36
D10.0200.00.11 GL	37
D10.0200.00.11 GR	37
D10.0200.00.12 GL	39
D10.0200.00.12 GR	39
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Information About The Cutting Parameters

Cutting speed recommendation as of page 72

General information about the cutting parameters recommendations

The given cutting parameters for speed and feed rates are ment as initial start values and are estimated for standard application conditions.
The best parameters depend on a wide variety of machine, workpiece and tool related conditions, for example the general machine condition, and can be above or below the given start values.

Example factors of influence and their effect on the cutting parameters

Reduce values	Increase values
Difficult machine and clamping conditions	Solid machine and clamping conditions
Difficult to machine materials	Easy to machine materials
Long tool reach (L2)	Small tool reach (L2)
No chip form geometry	With chip form geometry

List not complete

Suitability of cutting grades in relation to work piece hardness

Grade	Recommended up to approx.
X8*	HRC52
*T90 / *T91	HRC62
CBN	HRC65 (Depending on application)

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	X400 / X600	210
			0,15 - 0,4 % C	X400 / X600	190
			≥ 0,4 % C	X400 / X600	180
		Steel, low alloyed (alloying elements ≤ 5%)	Non-hardened	X400 / X600	170
			Hardened	X400 / X600	100
		Steel, high alloyed (Alloying elements > 5%)	Annealed	X400 / X600	110
			Hardened	X400 / X600	90
		Castings	Unalloyed	X400 / X600	150
			Low alloyed (Alloying elements ≤ 5%)	X400 / X600	120
			High alloyed (Alloying elements > 5%)	X400 / X600	90
M	X400 / X600 X402 / X602 X404 / X604 X408 / X608	Stainless Steel Ferritic/Martensitic	Non-hardened	*T41	150
			PH-hardened	*T41	110
			Hardened	*T41	110
		Stainless Steel Austenitic	Austenitic	*T41	140
			PH-hardened	*T41	100
			Super Austenitic	*T41	110
		Stainless Steel Austenitic-ferritic (Duplex)	Non-weldable ≥ 0,05 % C	*T41	120
			Weldable < 0,05 % C	*T41	100
		Stainless Steel (Cast) Ferritic/martensitic	Non-hardened	*T41	130
			PH-hardened	*T41	90
			Hardened	*T41	100
		Stainless Steel (Cast) Austenitic	Austenitic	*T41	130
			PH-gehärtet	*T41	90
		Stainless Steel (Cast) Austenitic-ferritic (Duplex)	Non-weldable ≥ 0,05 % C	*T41	110
			Weldable < 0,05 % C	*T41	90

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	180
			Pearlitic (long chipping)	*T57	150
		Grey Cast Iron	Low tensile strength	*T57	200
			High tensile strength	*T57	150
		Spheroidal Graphite cast iron	Ferritic	*T57	120
			Pearlitic	*T57	110
			Martensitic	*T57	110
N	X400 / X600 X402 / X602 X404 / X604 X408 / X608	Aluminium alloys, Whrought	Can not be hardened	*F25	590
			Can be hardened, hardened	*F25	530
		Aluminium alloys, Cast	Can not be hardened	*F25	590
			Can be hardened, hardened	*F25	530
		Aluminium alloys, Cast	< 5 % Si	*F25	240
			5 - 12 % Si	*X17	240
			> 12 % Si	PKD[1]	180
		Copper- and Copper Alloys	Free Cutting Alloys, ≥1 % Pb	*F25	290
			Brass, leaded bronzes, ≤ 1 % Pb	*F25	290
			Bronze, lead-free copper incl. electrolytic copper	*F25	210

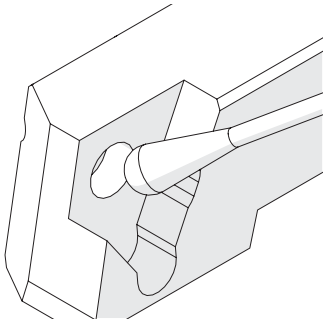
Cutting Speed Recommendation

ISO-Group	Recommended Cutting Grade	Work piece material	Sub-group	Alternative cutting grade	Vc m/min (Start)
S	X400 / X600 X402 / X602 X404 / X604 X408 / X608	Heat-resistant super alloys Fe-based	Annealed or solution treated	*X79	40
			Aged or solution treated and aged	*X79	30
		Heat-resistant super alloys Ni-based	Annealed or solution treated	*X79	40
			Aged or solution treated and aged	*X79	20
			Cast or Cast and aged	*X79	30
		Heat-resistant super alloys Co-based	Annealed or solution treated	*X79	10
			Solution treated and aged	*X79	10
			Cast or Cast and aged	*X79	10
		Titanium Alloys	Commercial pure (99,5 % Ti)	*X79	80
			α, near α and α + β alloys, annealed	*X79	40
			α+β Alloys in aged conditions as well as β alloys. Annealed or aged.	*X79	40
H	CBN[1]	Hardened steel		*T91	50
		Chilled cast iron, cast or cast and aged		*T91	90

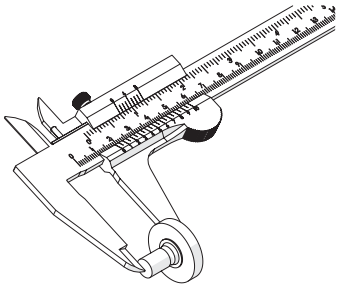
1) For best results, a special cutting edge geometry is recommended here.
Please contact our tecnical support +1 862 757 8130 oder usa@simtek.com.

(2) Recommendation depends on the chosen cutting inserts. Please look at the cutting grade recommendations on the catalog page of the cutting insert.

General Instructions For Use



Please clean insert seat well before mounting and use.



Please control your work pieces frequently.

We recommend the use of tool presetting and measuring devices.