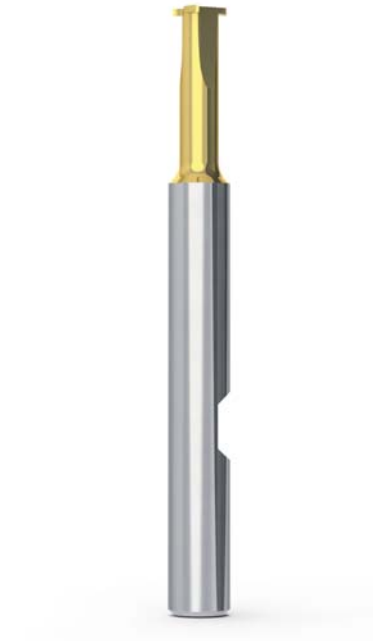
Die simmill® Zirkularfräswerkzeuge
The simmill® Groove Milling Tools



simmill® A3
SIMTEK Milling Tools Type A3

simmill® PX
Sigma-Line Milling Tools Type P

simmill® SX
Sigma-Line Milling Tools Type S

simmill® UX
Sigma-Line Milling Tools Type U

simmill® VX
Sigma-Line Milling Tools Type V

simmill® MX
Sigma-Line Milling Tools Type M

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Zirkularfräswerkzeuge für die Innenbearbeitung im Durchmesserbereich ...
Groove Milling Tools for internal applications in the diameter range of ...

≤ Ø 6,0 mm	Ø 10,0 - 42,0 mm	≥ Ø 39,0 mm

Ein Verzeichnis aller Werkzeuge finden Sie ab Seite 536
A list of all the tools can be found as of page 536

Info

Das Werkzeugsystem simmill® A3
The Tool System simmill® A3

simmill® A3
SIMTEK Milling Tools Type A3

+ Schaftfräser aus Feinstkornhartmetall
in den Schaftdurchmessern 6,0 oder 8,0 mm
Solid micro grain carbide Milling Cutter
with shank diameters 6,0 or 8,0 mm

+ Hohe Nuttiefen in kleinsten Bohrungen
High Groove depths in smallest bores

+ Verbesserte Schnittbedingungen
mit 3 Schneiden in Bohrungen ab Ø 1,4 mm
Improved cutting conditions
with 3 cutting edges in bores as of Ø 1,4 mm

+ Hohe Gewindetiefen bei reduziertem Schnittdruck
Extended Thread depths at low cutting pressure

+ Nutzbare Länge bis zu 35,6 mm
Usable length up to 35,6 mm

Hauptanwendungen

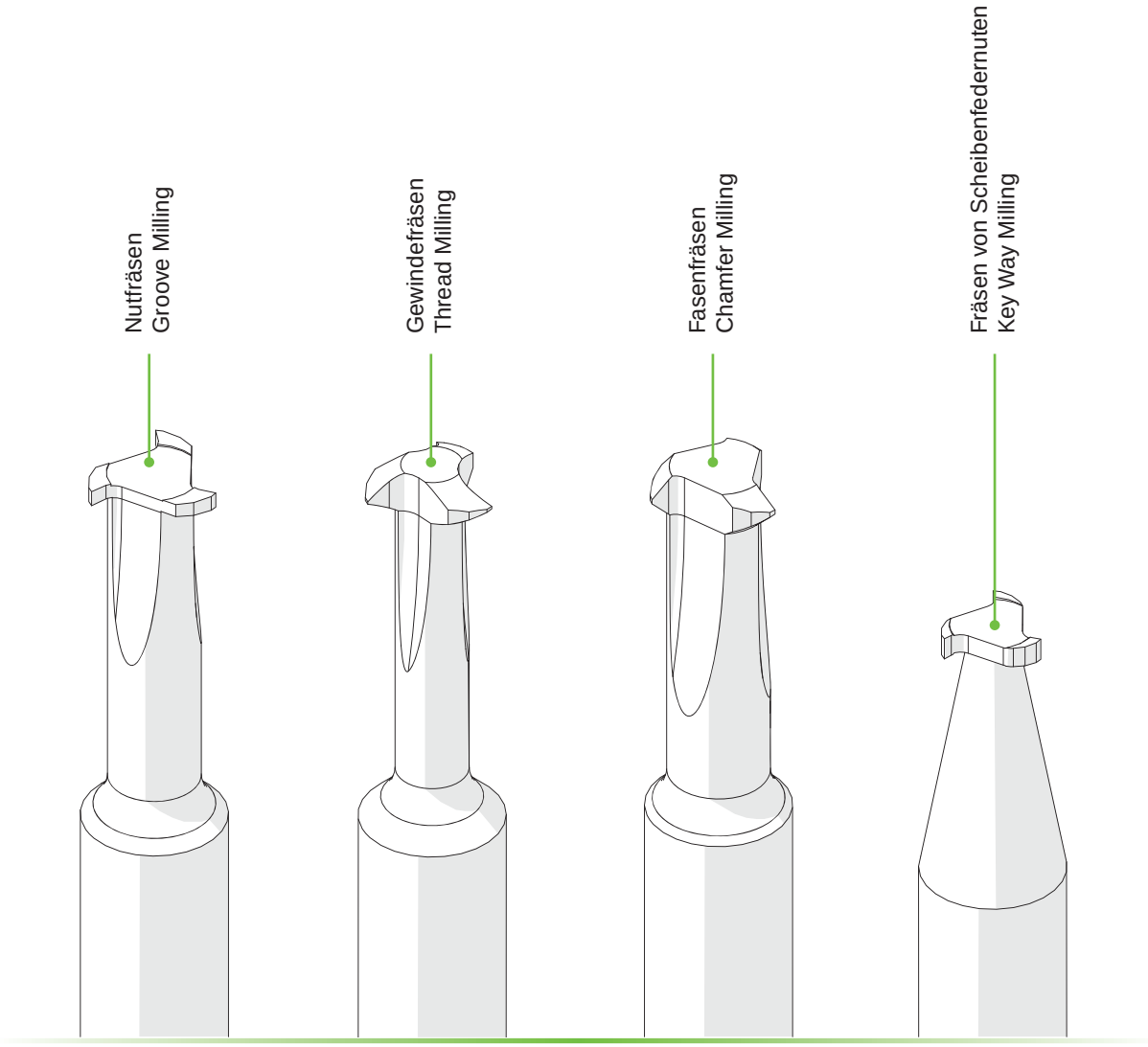
Nutfräsen, Gewindefräsen, Bohrungen fasen,
Fräsen von Scheibenfedernuten

simtek·individual- und
Sonderwerkzeuge verfügbar.

Main Applications

Groove Milling, Thread Milling,
Chamfering, Key Way Milling

simtek·individual and
special tools available.



... finden Sie ab Seite:
... can be found as of page:

353 355 357 359

Allgemeines Nutfräsen

Nutfräsen gerader Nutformen. Geeignet ab Bohrungsdurchmesser 6,0 mm. Aufnahme nach DIN 6535 HA.

General Groove Milling

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

Schnittwerte (Start) // Cutting parameters (Start)		
fzm **0,02**	hmax **0,03**	Vc **S./P. 524**

Bitte Hinweise im Anhang beachten // Please read add. notes
ALL (S./P. 531)

SP HM Legende Legend **535**

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

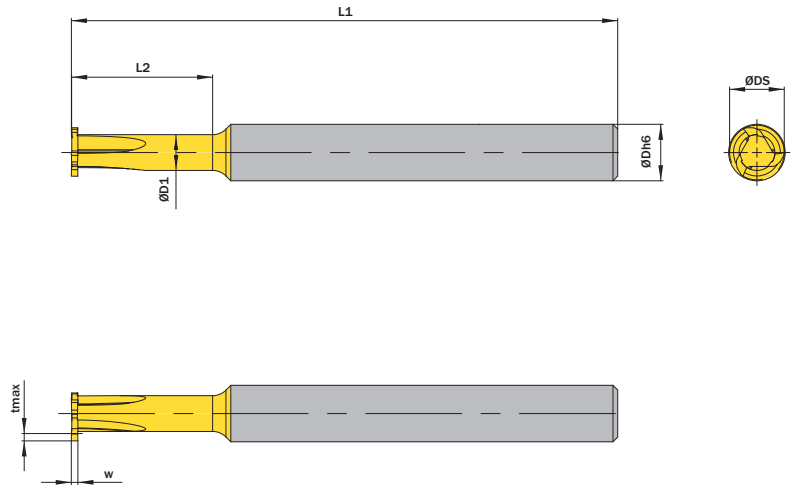


Abbildung zeigt / Drawing shows: MA3.070.15.06.00 AG

Anzahl Schneiden Number of Cutting Edges	w ±0,02 mm	L2 mm	ØDmin (Min. Bohrung) ØDmin (Min. Bore) mm	Artikelnummer Part number	Webcode www.simtek.eu/webcode	L1 mm	ØDh6 mm	tmax mm	ØDS mm	ØD1 mm	Connectcode www.simtek.eu/ccode
▼ ØDmin (Min. Bohrung) // ØDmin (Min. Bore) = 6,0 mm											
3	0,7	15,0	6,0	**MA3.070.15.06.00 AG**	ACW4	58,0	6,0	0,8	5,8	3,8	-
3	0,8	15,0	6,0	**MA3.080.15.06.00 AG**	AM62	58,0	6,0	0,8	5,8	3,8	-
3	0,9	15,0	6,0	**MA3.090.15.06.00 AG**	AF94	58,0	6,0	0,8	5,8	3,8	-
3	1,0	15,0	6,0	**MA3.100.15.06.00 AG**	AAZ2	58,0	6,0	0,8	5,8	3,8	-
3	1,5	15,0	6,0	**MA3.150.15.06.00 AG**	AN5F	58,0	6,0	0,8	5,8	3,8	-
▼ ØDmin (Min. Bohrung) // ØDmin (Min. Bore) = 8,0 mm											
3	0,7	25,0	8,0	**MA3.070.25.08.00 AG**	AJ2V	68,0	8,0	1,2	7,8	5,0	-
3	0,8	25,0	8,0	**MA3.080.25.08.00 AG**	AFCH	68,0	8,0	1,2	7,8	5,0	-
3	0,9	25,0	8,0	**MA3.090.25.08.00 AG**	AMAC	68,0	8,0	1,2	7,8	5,0	-
3	1,0	25,0	8,0	**MA3.100.25.08.00 AG**	ANEA	68,0	8,0	1,2	7,8	5,0	-
3	1,5	25,0	8,0	**MA3.150.25.08.00 AG**	AF41	68,0	8,0	1,2	7,8	5,0	-
3	2,0	25,0	8,0	**MA3.200.25.08.00 AG**	AFXY	68,0	8,0	1,2	7,8	5,0	-

Bestellbeispiel // Order Example: **MA3.200.25.08.00 AG GN39** (GN39 = Schneidstoff // Grade)

simtek individual

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

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

Allgemeines Nutfräsen

Nutfräsen gerader Nutformen. Geeignet ab Bohrungsdurchmesser 6,0 mm. Aufnahme nach DIN 6535 HB.

General Groove Milling

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

Schnittwerte (Start) // Cutting parameters (Start)		
fzm **0,02**	hmax **0,03**	Vc **S./P. 524**

Bitte Hinweise im Anhang beachten // Please read add. notes
ALL (S./P. 531)

SP HM Legende / Legend **535**

Scan **QR-Code** Oder besuchen Sie // Or Visit **www.simtek.info/cp/290**

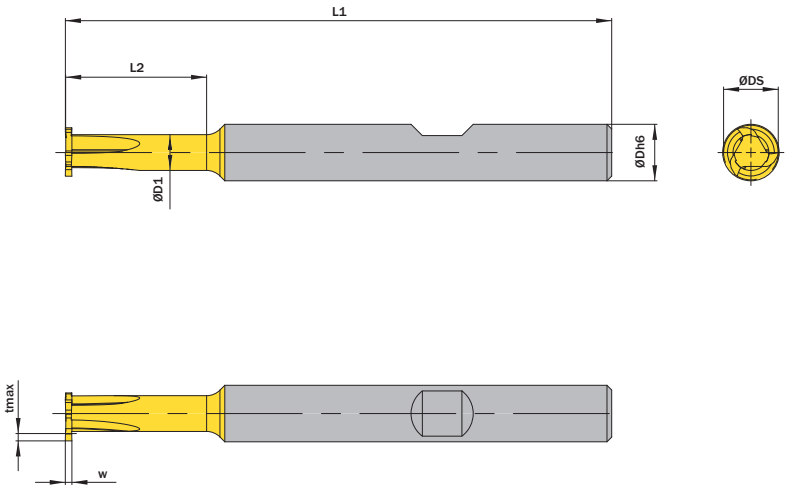


Abbildung zeigt / Drawing shows: MA3.070.15.06.00 BG

Anzahl Schneiden Number of Cutting Edges	w ±0,02 mm	L2 mm	ØDmin (Min. Bohrung) ØDmin (Min. Bore) mm	Artikelnummer Part number	Webcode www.simtek.eu/webcode	L1 mm	ØDh6 mm	tmax mm	ØDS mm	ØD1 mm	Connectcode www.simtek.eu/ccode
▼ ØDmin (Min. Bohrung) // ØDmin (Min. Bore) = 6,0 mm											
3	0,7	15,0	6,0	**MA3.070.15.06.00 BG**	AK6P	58,0	6,0	0,8	5,8	3,8	-
3	0,8	15,0	6,0	**MA3.080.15.06.00 BG**	AC5V	58,0	6,0	0,8	5,8	3,8	-
3	0,9	15,0	6,0	**MA3.090.15.06.00 BG**	AN99	58,0	6,0	0,8	5,8	3,8	-
3	1,0	15,0	6,0	**MA3.100.15.06.00 BG**	AFZ9	58,0	6,0	0,8	5,8	3,8	-
3	1,5	15,0	6,0	**MA3.150.15.06.00 BG**	AH1W	58,0	6,0	0,8	5,8	3,8	-
▼ ØDmin (Min. Bohrung) // ØDmin (Min. Bore) = 8,0 mm											
3	0,7	25,0	8,0	**MA3.070.25.08.00 BG**	AG62	68,0	8,0	1,2	7,8	5,0	-
3	0,8	25,0	8,0	**MA3.080.25.08.00 BG**	AFGT	68,0	8,0	1,2	7,8	5,0	-
3	0,9	25,0	8,0	**MA3.090.25.08.00 BG**	AP4E	68,0	8,0	1,2	7,8	5,0	-
3	1,0	25,0	8,0	**MA3.100.25.08.00 BG**	AKWG	68,0	8,0	1,2	7,8	5,0	-
3	1,5	25,0	8,0	**MA3.150.25.08.00 BG**	AH6A	68,0	8,0	1,2	7,8	5,0	-
3	2,0	25,0	8,0	**MA3.200.25.08.00 BG**	AEX7	68,0	8,0	1,2	7,8	5,0	-

Bestellbeispiel // Order Example: **MA3.200.25.08.00 BG GN39** (GN39 = Schneidstoff // Grade)

simtek individual

MA3. w, 1/100 mm, 3 Stellen/Digits .15.06. R, 1/100 mm , 3 Stellen/Digits .B Toleranz // Tolerance

Beispielartikelnummer // Example Part number: **MA3.179.15.06.030.A XG**

MA3. w, 1/100 mm, 3 Stellen/Digits .25.08. R, 1/100 mm , 3 Stellen/Digits .B Toleranz // Tolerance

Beispielartikelnummer // Example Part number: **MA3.179.25.08.030.A XG**

Metrisches ISO-Gewindefräsen, Teilprofil

Gewindefräsen ab Bohrungsdurchmesser 1,38 mm, metrisches ISO-Gewinde, Teilprofil. Aufnahme nach DIN 6535 HA.

Thread milling, metric ISO-Thread, partial profile

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

Schnittwerte (Start) // Cutting parameters (Start)		
fzm **0,02**	hmax **0,03**	Vc **S./P. 524**

Bitte Hinweise im Anhang beachten // Please read add. notes
ALL (S./P. 531), H04 (S./P. 534)

SP HM Legende Legend **535**

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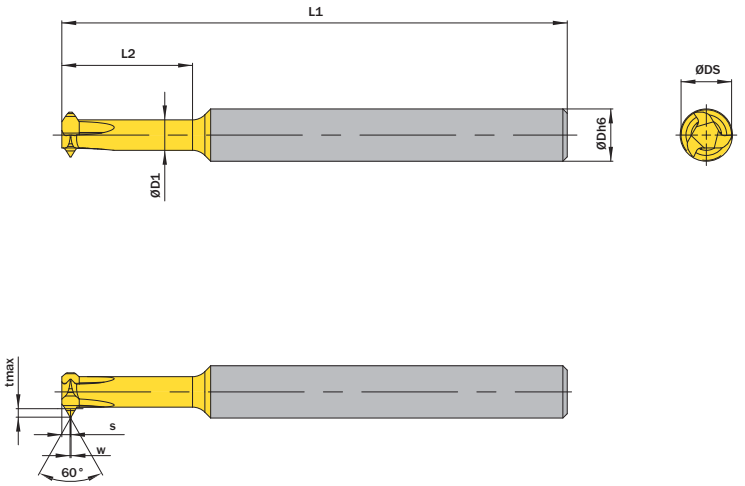


Abbildung zeigt / Drawing shows: MA3.MT15.01.15.06 AM

Ab Gewindegröße As of Thread size	Steigung (von) Pitch (as of)	Steigung (bis) Pitch (up to)	L2	ØDmin (Min. Bohrung) ØDmin (Min. Bore)	Artikelnummer Part number	Webcode www.simtek.eu/webcode	Anzahl Schneiden Number of Cutting Edges	w	S	L1	tmax	ØDS	ØDh6	ØD1	Connectcode www.simtek.eu/ccode
	mm	mm	mm	mm				mm	mm	mm	mm	mm	mm	mm	
▼ ØDh6 = 3,0 mm															
M1,6	0,35	0,35	4,0	1,38	**MA3.MT03.01.04.03 AM**	AQ0E	3	0,04	0,2	32,0	0,19	1,18	3,0	0,64	-
M1,8	0,35	0,35	5,0	1,58	**MA3.MT03.01.05.03 AM**	AQ0F	3	0,04	0,25	32,0	0,19	1,38	3,0	0,7	-
M2,0	0,4	0,4	5,0	1,7	**MA4.MT04.01.05.03 AM**	AQ0G	4	0,05	0,28	32,0	0,22	1,5	3,0	0,75	-
M2,5	0,45	0,45	6,0	2,15	**MA4.MT04.01.06.03 AM**	AQ0H	4	0,06	0,3	32,0	0,25	1,95	3,0	1,15	-
M3,0	0,5	0,5	7,0	2,6	**MA4.MT05.01.07.03 AM**	AQ0J	4	0,06	0,3	32,0	0,27	2,4	3,0	1,6	-
M3,5	0,6	0,6	8,0	3,0	**MA4.MT06.01.08.03 AM**	AQ0K	4	0,08	0,37	32,0	0,33	2,8	3,0	1,8	-
▼ ØDh6 = 5,0 mm															
M4,0	0,7	0,7	9,0	3,3	**MA4.MT07.01.09.05 AM**	AQ0M	4	0,09	0,41	44,0	0,38	3,1	5,0	1,98	-
M5,0	0,8	0,8	10,0	3,8	**MA4.MT08.01.10.05 AM**	AVE5	4	0,1	0,49	44,0	0,43	3,6	5,0	2,2	-
M6,0	1,0	1,0	12,2	4,3	**MA4.MT10.01.12.05 AM**	AQ0N	4	0,13	0,49	44,0	0,54	4,1	5,0	2,7	-
M7,0	1,0	1,0	15,2	5,1	**MA4.MT10.01.15.05 AM**	AQ0P	4	0,13	0,58	44,0	0,54	4,9	5,0	3,26	-
▼ ØDh6 = 6,0 mm															
M7	0,5	1,5	15,0	6,0	**MA3.MT15.01.15.06 AM**	AAF4	3	0,06	0,8	58,0	0,91	5,8	6,0	3,5	-
▼ ØDh6 = 6,35 mm															
M7	0,5	1,5	15,0	6,0	**MA3.MT15.01.15.250 AM**	AS4P	3	0,06	0,8	58,0	0,92	5,8	6,35	3,5	-
▼ ØDh6 = 7,92 mm															
M9	0,5	1,5	25,0	8,0	**MA3.MT15.01.25.312 AM**	AS4K	3	0,06	1,0	68,0	0,92	7,8	7,92	5,5	-
M10	1,0	2,0	25,0	8,0	**MA3.MT20.01.25.312 AM**	AS4M	3	0,19	1,0	68,0	1,14	7,8	7,92	5,0	-
▼ ØDh6 = 8,0 mm															
M9	0,5	1,5	25,0	8,0	**MA3.MT15.01.25.08 AM**	AAVN	3	0,06	1,0	68,0	0,91	7,8	8,0	5,5	-
M10	1,0	2,0	25,0	8,0	**MA3.MT20.01.25.08 AM**	AFM6	3	0,12	1,0	68,0	1,19	7,8	8,0	5,0	-

Bestellbeispiel // Order Example: **MA3.MT20.01.25.312 AM GN39** (GN39 = Schneidstoff // Grade)

Bitte beachten Sie die zusätzlichen Hinweise zu den Mehrbereichswerkzeugen im Infobereich rechts oben.
Please read the additional notes mentioned in the information area on the top right corner of this page.
Die angegebene Gewindegrößeneignung bezieht sich auf die Startsteigung.
The mentioned thread size „As of Thread size“ is based on the starting pitch.

Metrisches ISO-Gewindefräsen, Teilprofil

Gewindefräsen ab Bohrungsdurchmesser 6,0 mm, metrisches ISO-Gewinde, Teilprofil. Aufnahme nach DIN 6535 HB.

Thread milling, metric ISO-Thread, partial profile

Thread Milling as of bore diameter 6,0 mm, ISO metric thread, partial profile. Shank according to DIN 6535 HB.

Schnittwerte (Start) // Cutting parameters (Start)		
fzm **0,02**	hmax **0,03**	Vc **S./P. 524**

Bitte Hinweise im Anhang beachten // Please read add. notes
ALL (S./P. 531), H04 (S./P. 534)

SP HM Legende Legend **535**

Scan **QR-Code** Oder besuchen Sie // Or Visit **www.simtek.info/cp/432**

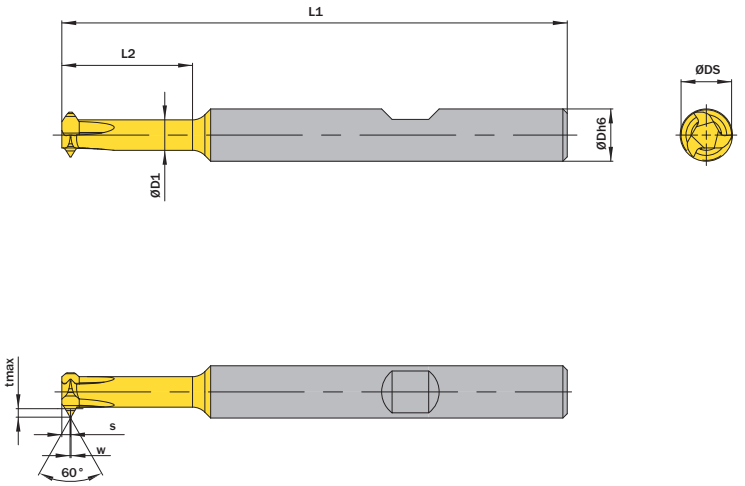


Abbildung zeigt / Drawing shows: MA3.MT15.01.15.06 BM

Ab Gewindegröße As of Thread size	Steigung (von) Pitch (as of)	Steigung (bis) Pitch (up to)	L2	ØDmin (Min. Bohrung) ØDmin (Min. Bore)	Artikelnummer Part number	Webcode www.simtek.eu/webcode	Anzahl Schneiden Number of Cutting Edges	w	S	L1	tmax	ØDS	ØDh6	ØD1	Connectcode www.simtek.eu/ccode
	mm	mm	mm	mm				mm	mm	mm	mm	mm	mm	mm	
M7	0,5	1,5	15,0	6,0	**MA3.MT15.01.15.06 BM**	AMUK	3	0,06	0,8	58,0	0,91	5,8	6,0	3,5	-
M9	0,5	1,5	25,0	8,0	**MA3.MT15.01.25.08 BM**	AB7Q	3	0,06	1,0	68,0	0,91	7,8	8,0	5,5	-
M10	1,0	2,0	25,0	8,0	**MA3.MT20.01.25.08 BM**	AAJP	3	0,12	1,0	68,0	1,19	7,8	8,0	5,0	-

Bestellbeispiel // Order Example: **MA3.MT15.01.15.06 BM GF25** (GF25 = Schneidstoff // Grade)

Bitte beachten Sie die zusätzlichen Hinweise zu den Mehrbereichswerkzeugen im Infobereich rechts oben.
Please read the additional notes mentioned in the information area on the top right corner of this page.
Die angegebene Gewindegrößeneignung bezieht sich auf die Startsteigung.
The mentioned thread size „As of Thread size“ is based on the starting pitch.

Mehr Infos zu den **Mehrbereichswerkzeugen** und deren **Gewindegrößeneignung** finden Sie auf Seite 535

More information about the **Multi-Purpose Thread Milling Tools** and the **Thread size suitability** can be found on page 535

Fräsen von Fasen

Fasenfräsen beidseitig. Geeignet ab Bohrungsdurchmesser 6,0 mm. Aufnahme nach DIN 6535 HA.

Chamfering

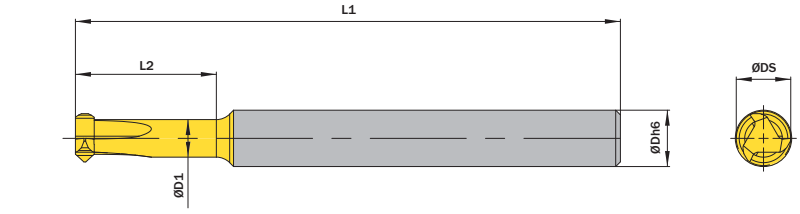
Chamfering on both sides. For use in bores as of minimum bore diameter 6,0 mm. Shank according to DIN 6535 HA.

Schnittwerte (Start) // Cutting parameters (Start)		
fzm **0,02**	hmax **0,03**	Vc **S./P. 524**

Bitte Hinweise im Anhang beachten // Please read add. notes
ALL (S./P. 531)

SP HM Legende Legend **535**

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



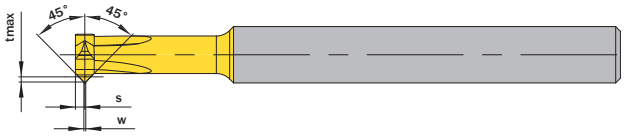


Abbildung zeigt / Drawing shows: MA3.4545.02.15.06 AF

Anzahl Schneiden Number of Cutting Edges	w mm	L2 mm	ØDmin (Min. Bohrung) ØDmin (Min. Bore) mm	Artikelnummer Part number	Webcode www.simtek.eu/webcode	S mm	L1 mm	ØDh6 mm	tmax mm	ØDS mm	ØD1 mm	Connectcode www.simtek.eu/ccode
▼ ØDmin (Min. Bohrung) // ØDmin (Min. Bore) = 6,0 mm												
3	0,2	15,0	6,0	**MA3.4545.02.15.06 AF**	AHTP	1,0	58,0	6,0	0,6	5,8	4,0	-
3	0,2	15,0	6,0	**MA3.4545.02.15.250 AF**	AS4Q	1,0	58,0	6,35	0,6	5,8	4,2	-
3	0,2	25,0	6,0	**MA3.4545.02.25.06 AF**	AC3U	1,0	68,0	6,0	0,6	5,8	4,0	-
3	0,2	25,0	6,0	**MA3.4545.02.25.250 AF**	AS4H	1,0	68,0	6,35	0,6	5,8	4,2	-
▼ ØDmin (Min. Bohrung) // ØDmin (Min. Bore) = 8,0 mm												
3	0,2	25,0	8,0	**MA3.4545.02.25.08 AF**	AKDE	1,5	68,0	8,0	1,2	7,8	5,0	-
3	0,2	25,0	8,0	**MA3.4545.02.25.312 AF**	AS4J	1,5	68,0	7,92	1,2	7,8	5,0	-
3	0,2	35,0	8,0	**MA3.4545.02.35.08 AF**	AKCW	1,5	78,0	8,0	1,2	7,8	5,0	-
3	0,2	35,0	8,0	**MA3.4545.02.35.312 AF**	AS4N	1,5	78,0	7,92	1,2	7,8	5,0	-

▌Bestellbeispiel // Order Example: **MA3.4545.02.35.08 AF GN39** (GN39 = Schneidstoff // Grade)

Fräsen von Fasen

Fasenfräsen beidseitig. Geeignet ab Bohrungsdurchmesser 6,0 mm. Aufnahme nach DIN 6535 HB.

Chamfering

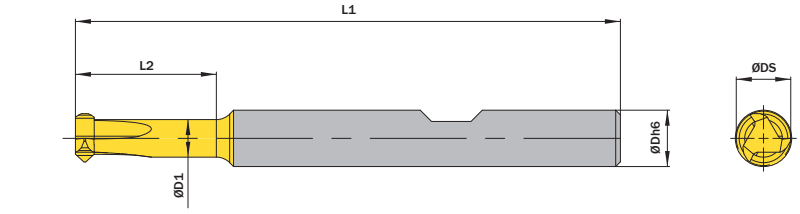
Chamfering on both sides. For use in bores as of minimum bore diameter 6,0 mm. Shank according to DIN 6535 HB.

Schnittwerte (Start) // Cutting parameters (Start)		
fzm **0,02**	hmax **0,03**	Vc **S./P. 524**

Bitte Hinweise im Anhang beachten // Please read add. notes
ALL (S./P. 531)

SP HM Legende Legend **535**

Scan **QR-Code** Oder besuchen Sie // Or Visit **www.simtek.info/cp/292**



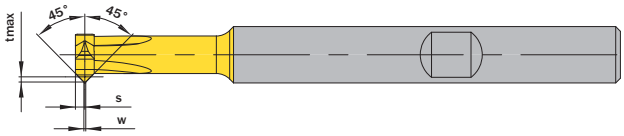


Abbildung zeigt / Drawing shows: MA3.4545.02.15.06 BF

Anzahl Schneiden Number of Cutting Edges	w mm	L2 mm	ØDmin (Min. Bohrung) ØDmin (Min. Bore) mm	Artikelnummer Part number	Webcode www.simtek.eu/webcode	S mm	L1 mm	ØDh6 mm	tmax mm	ØDS mm	ØD1 mm	Connectcode www.simtek.eu/ccode
▼ ØDmin (Min. Bohrung) // ØDmin (Min. Bore) = 6,0 mm												
3	0,2	15,0	6,0	**MA3.4545.02.15.06 BF**	AKUY	1,0	58,0	6,0	0,6	5,8	4,2	-
3	0,2	25,0	6,0	**MA3.4545.02.25.06 BF**	AB5P	1,0	68,0	6,0	0,6	5,8	4,2	-
▼ ØDmin (Min. Bohrung) // ØDmin (Min. Bore) = 8,0 mm												
3	0,2	25,0	8,0	**MA3.4545.02.25.08 BF**	AJ1W	1,5	68,0	8,0	1,2	7,8	5,0	-
3	0,2	35,0	8,0	**MA3.4545.02.35.08 BF**	AP10	1,5	78,0	8,0	1,2	7,8	5,0	-

▌Bestellbeispiel // Order Example: **MA3.4545.02.25.08 BF GN39** (GN39 = Schneidstoff // Grade)

Fräsen von Scheibenfedernuten

Fräsen von Scheibenfedernuten (DIN6888). Aufnahme nach DIN 6535 HA.

Keyway Milling

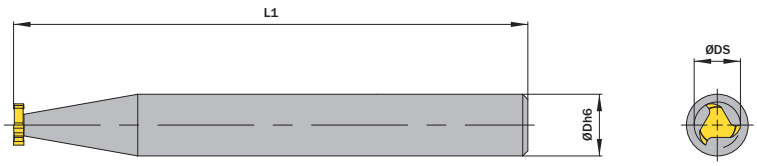
Keyway milling according to DIN6888. Shank according to DIN 6535 HA.

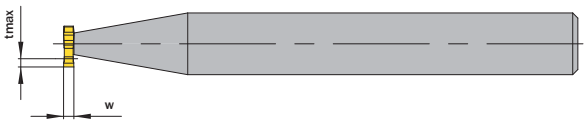
Schnittwerte (Start) // Cutting parameters (Start)		
fzm **0,02**	hmax **0,03**	Vc **S./P. 524**

Bitte Hinweise im Anhang beachten // Please read add. notes
ALL (S./P. 531)

SP HM Legende Legend **535**

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





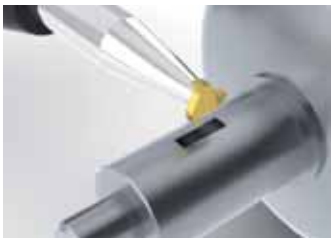


Abbildung zeigt / Drawing shows: MA3.100.09.06.00 AS

Anzahl Schneiden Number of Cutting Edges	w ±0,02 mm	ØDS mm	ØDh6 mm	Artikelnummer Part number	Webcode www.simtek.eu/webcode	tmax mm	L1 mm	Connectcode www.simtek.eu/ccode
▼ ØDS = 4,5 mm								
3	1,0	4,5	6,0	**MA3.100.04.06.00 AS**	AK0Y	1,0	50,0	-
▼ ØDS = 7,5 mm								
3	1,5	7,5	8,0	**MA3.150.07.08.00 AS**	ANPA	2,0	50,0	-
3	2,0	7,5	8,0	**MA3.200.07.08.00 AS**	AK6Z	1,8	50,0	-
▼ ØDS = 10,5 mm								
3	2,0	10,5	12,0	**MA3.200.10.12.00 AS**	AEH6	2,9	60,0	-
3	2,5	10,5	12,0	**MA3.250.10.12.00 AS**	ACMK	2,7	60,0	-
3	3,0	10,5	12,0	**MA3.300.10.12.00 AS**	AM42	2,5	60,0	-
▼ ØDS = 13,5 mm								
3	3,0	13,5	16,0	**MA3.300.13.16.00 AS**	AF2J	3,8	70,0	-
3	4,0	13,5	16,0	**MA3.400.13.16.00 AS**	AE01	3,5	70,0	-
▼ ØDS = 16,5 mm								
3	3,0	16,5	16,0	**MA3.300.16.16.00 AS**	ADT5	5,3	70,0	-
3	4,0	16,5	16,0	**MA3.400.16.16.00 AS**	AJXW	5,0	70,0	-
3	5,0	16,5	16,0	**MA3.500.16.16.00 AS**	AGAJ	4,5	70,0	-
▼ ØDS = 19,5 mm								
3	4,0	19,5	16,0	**MA3.400.19.16.00 AS**	ANKE	6,0	70,0	-
3	5,0	19,5	16,0	**MA3.500.19.16.00 AS**	AM0X	5,5	70,0	-
3	6,0	19,5	16,0	**MA3.600.19.16.00 AS**	AB59	5,1	70,0	-
▼ ØDS = 22,5 mm								
3	5,0	22,5	16,0	**MA3.500.22.16.00 AS**	ANVG	7,0	70,0	-
3	6,0	22,5	16,0	**MA3.600.22.16.00 AS**	AHC5	6,6	70,0	-
3	8,0	22,5	16,0	**MA3.800.22.16.00 AS**	ADG7	6,2	70,0	-
▼ ØDS = 25,5 mm								
3	6,0	25,5	16,0	**MA3.600.25.16.00 AS**	AH8A	7,5	70,0	-

▌Bestellbeispiel // Order Example: **MA3.100.04.06.00 AS GN39** (GN39 = Schneidstoff // Grade)

Fräsen von Scheibenfedernuten

Fräsen von Scheibenfedernuten (DIN6888). Aufnahme nach DIN 6535 HB.

Keyway Milling

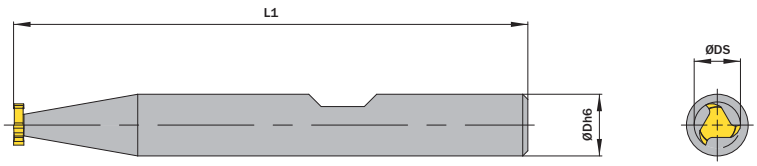
Keyway milling according to DIN6888. Shank according to DIN 6535 HB.

Schnittwerte (Start) // Cutting parameters (Start)		
fzm **0,02**	hmax **0,03**	Vc **S./P. 524**

Bitte Hinweise im Anhang beachten // Please read add. notes
ALL (S./P. 531)

SP HM Legende / Legend **535**

Scan **QR-Code** Oder besuchen Sie // Or Visit **www.simtek.info/cp/303**



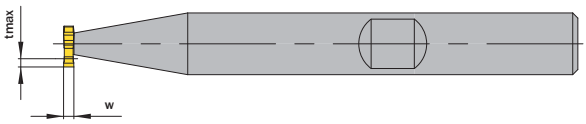
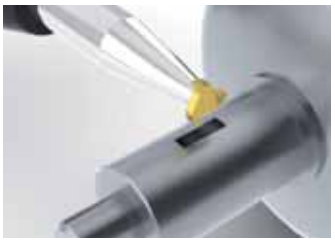


Abbildung zeigt / Drawing shows: MA3.100.09.06.00 BS



Anzahl Schneiden Number of Cutting Edges	w ±0,02 mm	ØDS mm	ØDh6 mm	Artikelnummer Part number	Webcode www.simtek.eu/webcode	tmax mm	L1 mm	Connectcode www.simtek.eu/ccode
▼ ØDS = 4,5 mm								
3	1,0	4,5	6,0	**MA3.100.04.06.00 BS**	ACHP	1,0	50,0	-
▼ ØDS = 7,5 mm								
3	1,5	7,5	8,0	**MA3.150.07.08.00 BS**	AHFC	2,0	50,0	-
3	2,0	7,5	8,0	**MA3.200.07.08.00 BS**	AMKA	1,8	50,0	-
▼ ØDS = 10,5 mm								
3	2,0	10,5	12,0	**MA3.200.10.12.00 BS**	AG61	2,9	60,0	-
3	2,5	10,5	12,0	**MA3.250.10.12.00 BS**	AJK4	2,7	60,0	-
3	3,0	10,5	12,0	**MA3.300.10.12.00 BS**	ANFH	2,5	60,0	-
▼ ØDS = 13,5 mm								
3	3,0	13,5	16,0	**MA3.300.13.16.00 BS**	AJXP	3,8	70,0	-
3	4,0	13,5	16,0	**MA3.400.13.16.00 BS**	AEN9	3,5	70,0	-
▼ ØDS = 16,5 mm								
3	3,0	16,5	16,0	**MA3.300.16.16.00 BS**	ABS5	5,3	70,0	-
3	4,0	16,5	16,0	**MA3.400.16.16.00 BS**	AJA6	5,0	70,0	-
3	5,0	16,5	16,0	**MA3.500.16.16.00 BS**	AKKP	4,5	70,0	-
▼ ØDS = 19,5 mm								
3	4,0	19,5	16,0	**MA3.400.19.16.00 BS**	APTY	6,0	70,0	-
3	5,0	19,5	16,0	**MA3.500.19.16.00 BS**	ABQY	5,5	70,0	-
3	6,0	19,5	16,0	**MA3.600.19.16.00 BS**	AM9H	5,1	70,0	-
▼ ØDS = 22,5 mm								
3	5,0	22,5	16,0	**MA3.500.22.16.00 BS**	AE1F	7,0	70,0	-
3	6,0	22,5	16,0	**MA3.600.22.16.00 BS**	AN37	6,6	70,0	-
3	8,0	22,5	16,0	**MA3.800.22.16.00 BS**	AAC5	6,2	70,0	-
▼ ØDS = 25,5 mm								
3	6,0	25,5	16,0	**MA3.600.25.16.00 BS**	AHX6	7,5	70,0	-

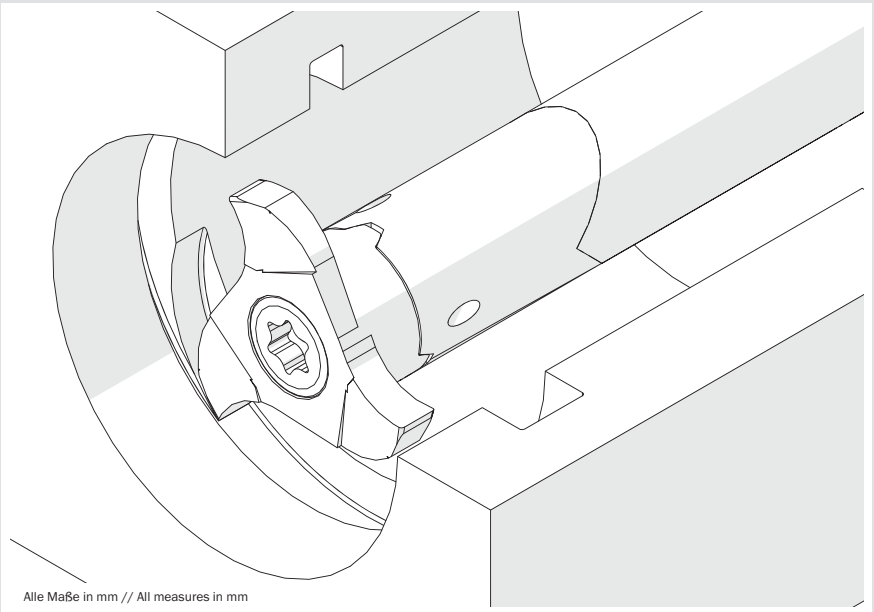
▌Bestellbeispiel // Order Example: **MA3.300.16.16.00 BS GN39** (GN39 = Schneidstoff // Grade)

Die Werkzeugsysteme simmill® PX / SX / UX / VX
The tool systems simmill® PX / SX / UX / VX

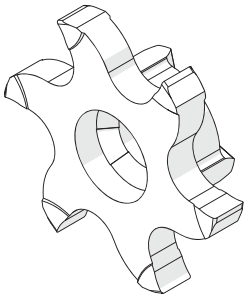
Für Bohrungsdurchmesser (mm) // For Bore diameter (mm)

...	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	...
									simmill® PX Sigma-Line Milling Tools Type P																																					
													simmill® SX Sigma-Line Milling Tools Type S																																	
																	simmill® UX Sigma-Line Milling Tools Type U																												
																					simmill® VX Sigma-Line Milling Tools Type V																								

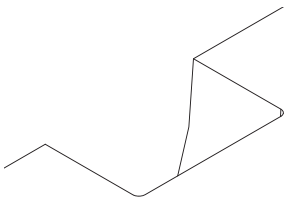
Allgemeines Nutfräsen
General Groove Milling



Alle Maße in mm // All measures in mm



Auch als 6-Schneider verfügbar.
Also available with 6 cutting edges.

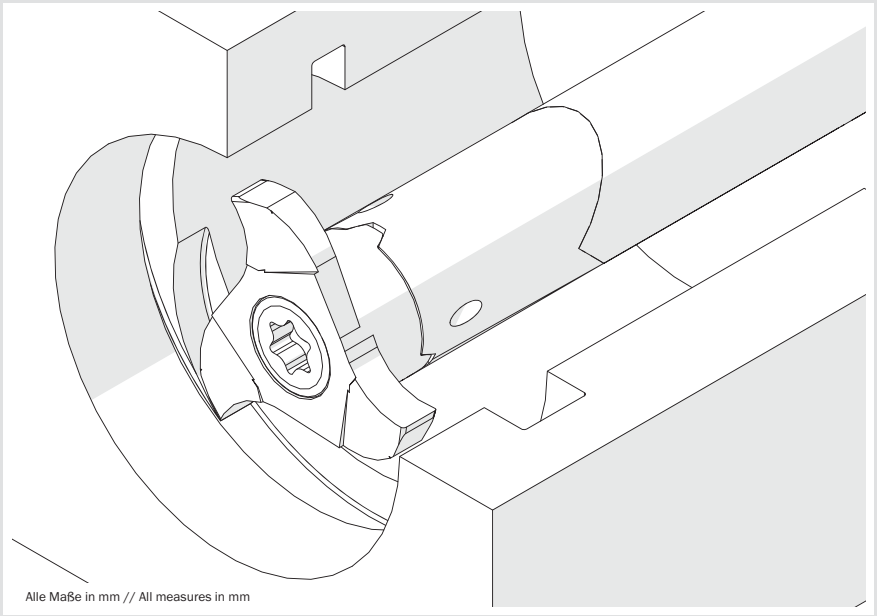


Artikelnummer Part number	ØDmin (Min. Bohrung) ØDmin (Min. Bore)	w	Anzahl Schneiden Number of Cutting Edges	siehe Seite see Page
P10.0100.00 G	10,0	1,0	3	396
P10.0150.02 G	10,0	1,5	3	396
P10.0157.00 G	10,0	1,57	3	396
P10.0200.02 G	10,0	2,0	3	396
P10.0250.02 G	10,0	2,5	3	396
P12.0150.02 G	12,0	1,5	3	397
P06.0150.02.12 G	12,0	1,5	6	398
P12.0157.02 G	12,0	1,57	3	397
P12.0200.02 G	12,0	2,0	3	397
P06.0200.02.12 G	12,0	2,0	6	398
P12.0250.02 G	12,0	2,5	3	397
S14.0100.00 G	14,0	1,0	3	414
S14.0117.00 G	14,0	1,17	3	414
S14.0142.00 G	14,0	1,42	3	414
S14.0150.02 G	14,0	1,5	3	414
S14.0157.02 G	14,0	1,57	3	414
S14.0200.02 G	14,0	2,0	3	414
S14.0239.02 G	14,0	2,39	3	414
S14.0250.02 G	14,0	2,5	3	414
S16.0117.00 G	16,0	1,17	3	415
S16.0142.00 G	16,0	1,42	3	415
S16.0150.02 G	16,0	1,5	3	415
S06.0150.02.16 G	16,0	1,5	6	416
S16.0157.02 G	16,0	1,57	3	415
S16.0160.01 G	16,0	1,6	3	415
S16.0200.02 G	16,0	2,0	3	415
S06.0200.02.16 G	16,0	2,0	6	416
S16.0239.02 G	16,0	2,39	3	415
S16.0250.02 G	16,0	2,5	3	415
S06.0250.02.16 G	16,0	2,5	6	416
U18.0117.00 G	18,0	1,17	3	438
U18.0142.00 G	18,0	1,42	3	438
U18.0150.02 G	18,0	1,5	3	438
U06.0150.010.18 G	18,0	1,5	6	436
U18.0157.02 G	18,0	1,55	3	438
U18.0200.02 G	18,0	2,0	3	438
U06.0200.020.18 G	18,0	2,0	6	436
U18.0239.02 G	18,0	2,39	3	438
U18.0250.02 G	18,0	2,5	3	438
U06.0250.020.18 G	18,0	2,5	6	436
U18.0300.02 G	18,0	3,0	3	438

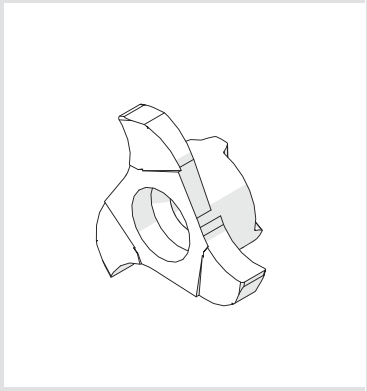
Artikelnummer Part number	ØDmin (Min. Bohrung) ØDmin (Min. Bore)	w	Anzahl Schneiden Number of Cutting Edges	siehe Seite see Page
U06.0300.020.18 G	18,0	3,0	6	436
U18.0318.02 G	18,0	3,18	3	438
U18.0400.02 G	18,0	4,0	3	438
U06.0150.010.20 G	20,0	1,5	6	437
U06.0200.020.20 G	20,0	2,0	6	437
U06.0250.020.20 G	20,0	2,5	6	437
U06.0300.020.20 G	20,0	3,0	6	437
V22.0100.00 Z	22,0	1,0	3	468
V22.0100.01 G	22,0	1,0	3	468
V06.0100.010.22 G	22,0	1,0	6	467
V22.0117.00 Z	22,0	1,17	3	468
V22.0150.02 G	22,0	1,5	3	468
V06.0150.010.22 G	22,0	1,5	6	467
V22.0157.02 G	22,0	1,57	3	468
V22.0200.02 G	22,0	2,0	3	468
V06.0200.020.22 G	22,0	2,0	6	467
V22.0239.02 G	22,0	2,39	3	468
V22.0250.02 G	22,0	2,5	3	468
V06.0250.020.22 G	22,0	2,5	6	467
V22.0300.02 G	22,0	3,0	3	468
V06.0300.020.22 G	22,0	3,0	6	467
V22.0318.02 G	22,0	3,18	3	468
V22.0318.04 G	22,0	3,18	3	468
V22.0350.02 G	22,0	3,5	3	468
V22.0356.02 G	22,0	3,56	3	468
V22.0400.02 G	22,0	4,0	3	468
V22.0400.04 G	22,0	4,0	3	468
V06.0400.020.22 G	22,0	4,0	6	467
V22.0437.02 G	22,0	4,37	3	468
V22.0437.04 G	22,0	4,37	3	468
V22.0475.02 G	22,0	4,75	3	468
V25.0200.02 G	25,0	2,0	3	481
V25.0239.02 G	25,0	2,39	3	481
V25.0250.02 G	25,0	2,5	3	481
V25.0300.02 G	25,0	3,0	3	481
V25.0318.02 G	25,0	3,18	3	481
V25.0350.02 G	25,0	3,5	3	481
V25.0400.02 G	25,0	4,0	3	481
V25.0475.02 G	25,0	4,75	3	481
V06.0100.010.28 G	28,0	1,0	6	484
V06.0120.010.28 G	28,0	1,2	6	484

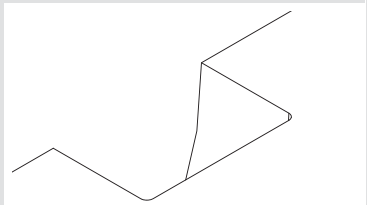
Artikelnummer Part number	ØDmin (Min. Bohrung) ØDmin (Min. Bore)	w	Anzahl Schneiden Number of Cutting Edges	siehe Seite see Page
V28.0150.02 G	28,0	1,5	3	482
V28.0150.02.09 G	28,0	1,5	3	483
V06.0150.010.28 G	28,0	1,5	6	484
V28.0200.02 G	28,0	2,0	3	482
V28.0200.02.09 G	28,0	2,0	3	483
V06.0200.020.28 G	28,0	2,0	6	484
V06.0215.020.28 G	28,0	2,26	6	484
V28.0250.02 G	28,0	2,5	3	482
V28.0250.02.09 G	28,0	2,5	3	483
V06.0250.020.28 G	28,0	2,5	6	484
V06.0265.020.28 G	28,0	2,65	6	484
V28.0300.02 G	28,0	3,0	3	482
V06.0300.020.28 G	28,0	3,0	6	484
V28.0350.02 G	28,0	3,5	3	482
V28.0400.02 G	28,0	4,0	3	482
V06.0400.020.28 G	28,0	4,0	6	484
V28.0500.02 G	28,0	5,0	3	482
V06.0500.020.28 G	28,0	5,0	6	484
V28.0600.02 G	28,0	6,0	3	482
V06.0600.020.28 G	28,0	6,0	6	484
V32.0200.02 G	32,0	2,0	3	488
V32.0250.02 G	32,0	2,5	3	488
V32.0300.02 G	32,0	3,0	3	488
V06.0150.010.35 G	35,0	1,5	6	491
V06.0200.020.35 G	35,0	2,0	6	491
V06.0250.020.35 G	35,0	2,5	6	491
V06.0300.020.35 G	35,0	3,0	6	491
V06.0050.000.37 G	37,0	0,5	6	493
V06.0060.000.37 G	37,0	0,6	6	493
V06.0080.000.37 G	37,0	0,8	6	493
V06.0100.010.37 G	37,0	1,0	6	492
V06.0150.010.37 G	37,0	1,5	6	492

Allgemeines Nutfräsen in Leichtmetall
General Groove Milling in light alloys



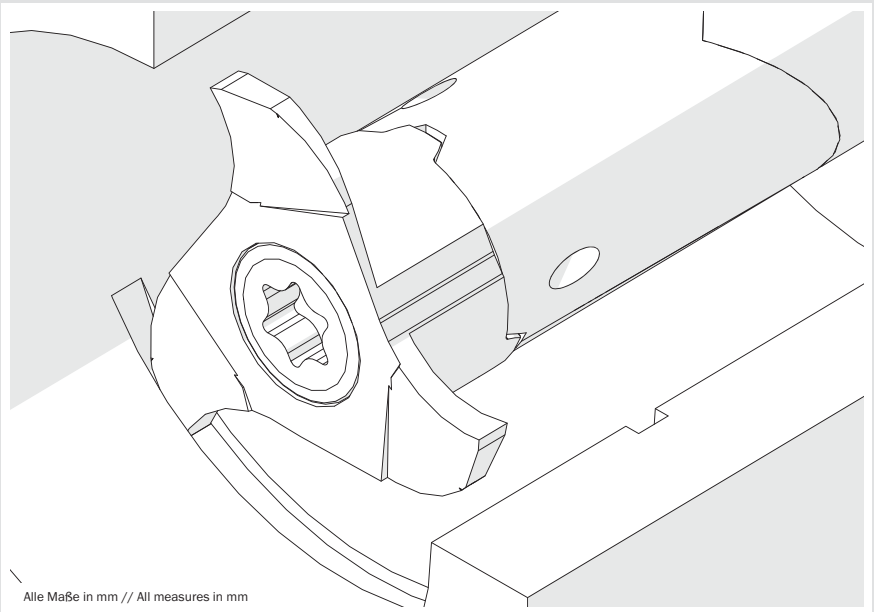
Alle Maße in mm // All measures in mm



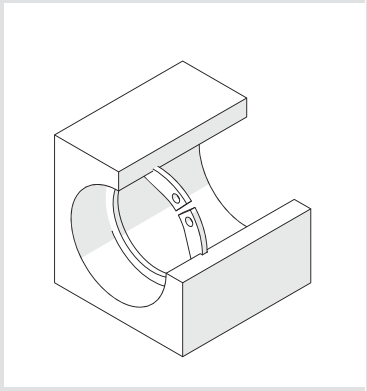


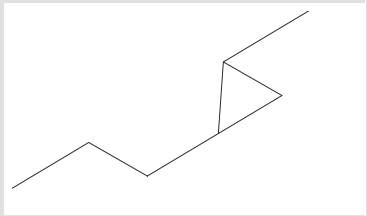
Artikelnummer Part number	ØDmin (Min. Bohrung) ØDmin (Min. Bore)	w	Anzahl Schneiden Number of Cutting Edges	siehe Seite see Page
P12.0150.42 C	12,0	1,5	3	399
P12.0200.42 C	12,0	2,0	3	399
P12.0250.42 C	12,0	2,5	3	399
S16.0150.42 C	16,0	1,5	3	417
S16.0200.42 C	16,0	2,0	3	417
S16.0250.42 C	16,0	2,5	3	417
U18.0150.42 C	18,0	1,5	3	439
U18.0200.42 C	18,0	2,0	3	439
U18.0250.42 C	18,0	2,5	3	439
U18.0300.42 C	18,0	3,0	3	439
V22.0150.42 C	22,0	1,5	3	470
V22.0200.42 C	22,0	2,0	3	470
V22.0250.42 C	22,0	2,5	3	470
V22.0300.42 C	22,0	3,0	3	470
V22.0400.42 C	22,0	4,0	3	470
V28.0200.42 C	28,0	2,0	3	485
V28.0250.42 C	28,0	2,5	3	485
V28.0300.42 C	28,0	3,0	3	485
V28.0350.42 C	28,0	3,5	3	485
V28.0400.42 C	28,0	4,0	3	485
V32.0200.42 C	32,0	2,0	3	489
V32.0250.42 C	32,0	2,5	3	489
V32.0300.42 C	32,0	3,0	3	489
V32.0600.42 C	32,0	6,0	3	489
V33.0110.42.10 C	33,0	1,1	3	490
V33.0120.42.10 C	33,0	1,2	3	490
V33.0132.42.10 C	33,0	1,32	3	490
V33.0150.42.10 C	33,0	1,5	3	490
V33.0160.42.10 C	33,0	1,6	3	490
V33.0170.42.10 C	33,0	1,7	3	490
V33.0200.42.10 C	33,0	2,0	3	490
V33.0250.42.10 C	33,0	2,5	3	490
V33.0170.42.12 C	33,9	1,7	3	490
V33.0250.42.12 C	33,9	2,5	3	490

Fräsen von Sicherungsringnuten, innen
Circlip Ring Groove Milling, internal



Alle Maße in mm // All measures in mm

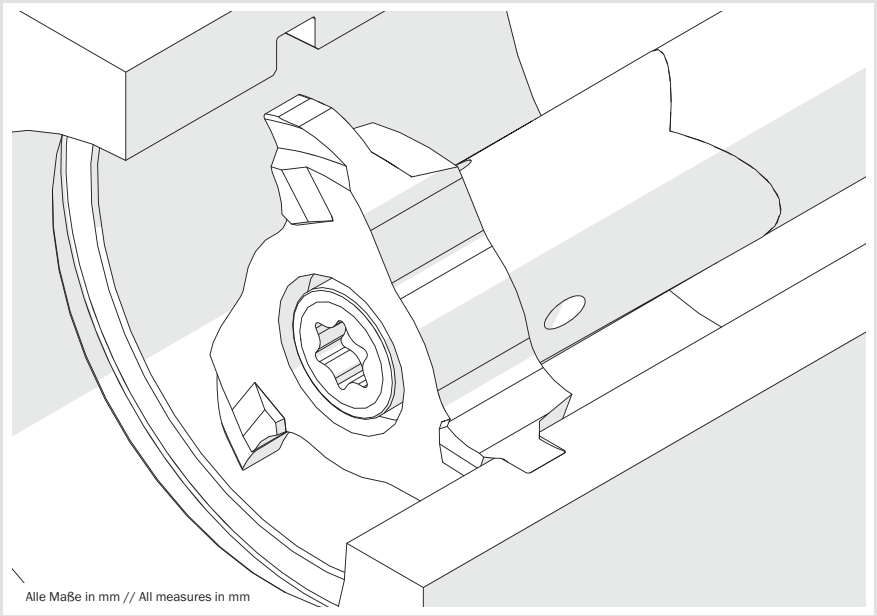




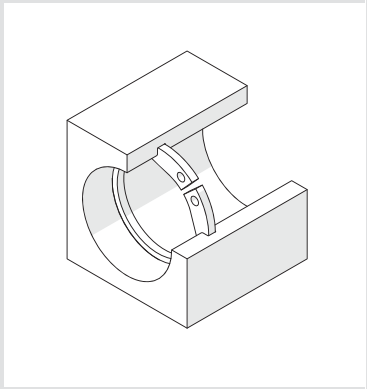
Artikelnummer Part number	ØDmin (Min. Bohrung) ØDmin (Min. Bore)	Nutnennbreite Nominal width of groove	Anzahl Schneiden Number of Cutting Edges	siehe Seite see Page
P10.0070.00 Z	10,0	0,7	3	393
P10.0080.00 Z	10,0	0,8	3	393
P10.0090.00 Z	10,0	0,9	3	393
P10.0110.00 G	10,0	1,1	3	393
P10.0130.01 G	10,0	1,3	3	393
P10.0160.01 G	10,0	1,6	3	393
P12.0110.00 G	12,0	1,1	3	394
P12.0110.40 C	12,0	1,1	3	395
P12.0130.01 G	12,0	1,3	3	394
P12.0130.41 C	12,0	1,3	3	395
P12.0160.01 G	12,0	1,6	3	394
P12.0160.41 C	12,0	1,6	3	395
U18.0070.00 Z	18,0	0,7	3	434
U18.0080.00 Z	18,0	0,8	3	434
U18.0090.00 Z	18,0	0,9	3	434
U18.0110.00 G	18,0	1,1	3	434
U18.0110.40 C	18,0	1,1	3	435
U06.0110.000.18 G	18,0	1,1	6	433
U18.0130.01 G	18,0	1,3	3	434
U18.0130.41 C	18,0	1,3	3	435
U06.0130.000.18 G	18,0	1,3	6	433
U18.0160.01 G	18,0	1,6	3	434
U18.0160.41 C	18,0	1,6	3	435
U06.0160.000.18 G	18,0	1,6	6	433
V22.0070.00 Z	22,0	0,7	3	465
V22.0080.00 Z	22,0	0,8	3	465
V22.0090.00 Z	22,0	0,9	3	465
V22.0110.00 Z	22,0	1,1	3	465
V22.0130.01 G	22,0	1,3	3	465
V22.0130.41 C	22,0	1,3	3	466
V22.0160.01 G	22,0	1,6	3	465
V22.0160.41 C	22,0	1,6	3	466
V22.0185.02 G	22,0	1,85	3	465
V22.0185.42 C	22,0	1,85	3	466
V22.0215.02 G	22,0	2,15	3	465
V22.0215.42 C	22,0	2,15	3	466
V22.0265.02 G	22,0	2,65	3	465
V22.0265.42 C	22,0	2,65	3	466
V22.0315.02 G	22,0	3,15	3	465
V22.0315.42 C	22,0	3,15	3	466
V22.0415.02 G	22,0	4,15	3	465

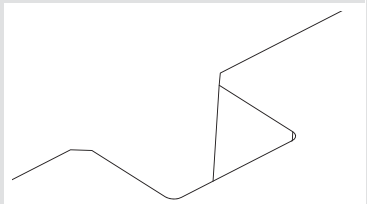
Artikelnummer Part number	ØDmin (Min. Bohrung) ØDmin (Min. Bore)	Nutnennbreite Nominal width of groove	Anzahl Schneiden Number of Cutting Edges	siehe Seite see Page
V22.0415.42 C	22,0	4,15	3	466
V22.0515.02 G	22,0	5,15	3	465
V22.0515.04 G	22,0	5,15	3	465
V22.0515.42 C	22,0	5,15	3	466

Fräsen von Sicherungsringuten mit Nutaußenkantenfasung
Circlip Ring Groove Milling with chamfering



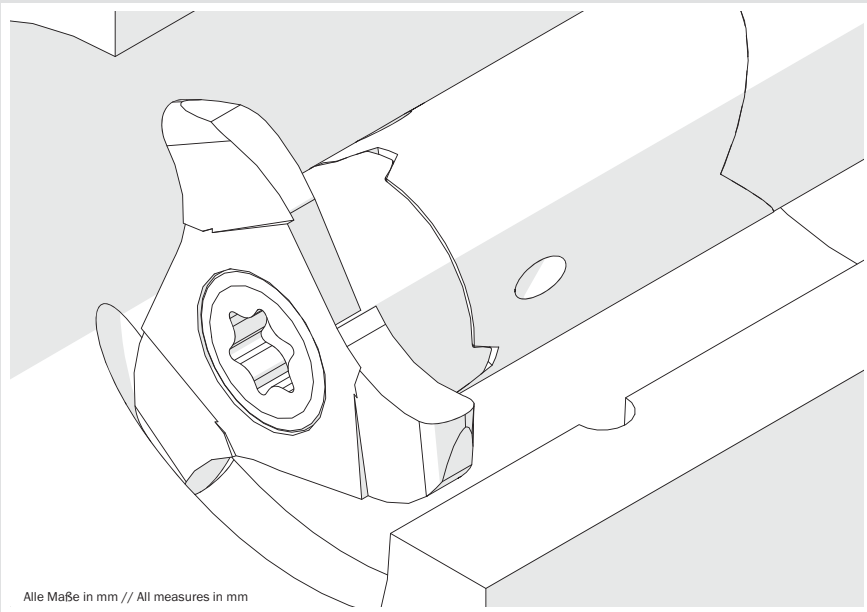
Alle Maße in mm // All measures in mm



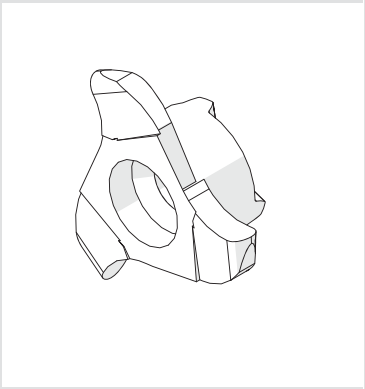


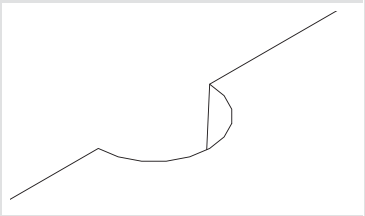
Artikelnummer Part number	ØDmin (Min. Bohrung) ØDmin (Min. Bore)	Nutnennbreite Nominal width of groove	Anzahl Schneiden Number of Cutting Edges	siehe Seite see Page
V22.1105.30 F	22,0	1,1	3	469
V22.1307.30 F	22,0	1,3	3	469
V22.1308.30 F	22,0	1,3	3	469
V22.1609.35 F	22,0	1,6	3	469
V22.1610.35 F	22,0	1,6	3	469
V22.1812.35 F	22,0	1,85	3	469
V22.2215.35 F	22,0	2,15	3	469
V22.2616.45 F	22,0	2,65	3	469
V22.2617.45 F	22,0	2,65	3	469
V22.3118.45 F	22,0	3,15	3	469
V22.4120.55 F	22,0	4,15	3	469
V22.4125.55 F	22,0	4,15	3	469

Fräsen von Vollradiusnuten
Full Radius Groove Milling



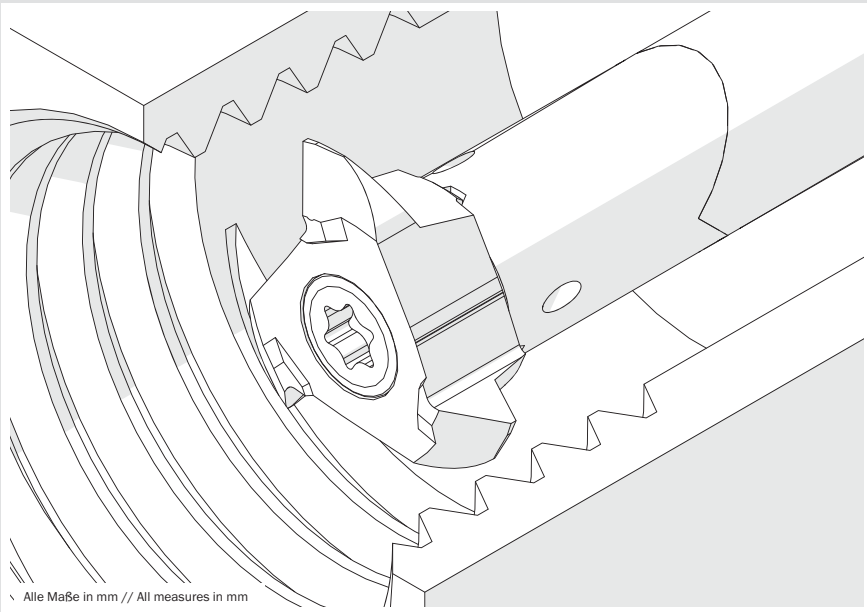
Alle Maße in mm // All measures in mm



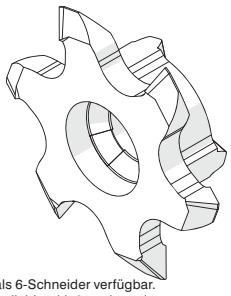


Artikelnummer Part number	ØDmin (Min. Bohrung) ØDmin (Min. Bore)	R	Anzahl Schneiden Number of Cutting Edges	siehe Seite see Page
P12.0011.22 V	12,0	1,1	3	400
S16.0011.22 V	16,0	1,1	3	418
U18.0010.20 V	18,0	1,0	3	440
U18.0011.22 V	18,0	1,1	3	440
U18.0015.30 V	18,0	1,5	3	440
V22.0005.10 V	22,0	0,5	3	471
V22.0008.16 V	22,0	0,8	3	471
V22.0010.20 V	22,0	1,0	3	471
V22.0012.24 V	22,0	1,2	3	471
V22.0014.28 V	22,0	1,4	3	471
V22.0015.30 V	22,0	1,5	3	471
V22.0020.40 V	22,0	2,0	3	471
V22.0022.44 V	22,0	2,2	3	471
V22.0025.50 V	22,0	2,5	3	471

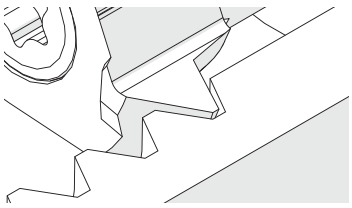
Metrisches ISO-Gewindefräsen, Teilprofil
Thread milling, metric ISO-Thread, partial profile



Alle Maße in mm // All measures in mm

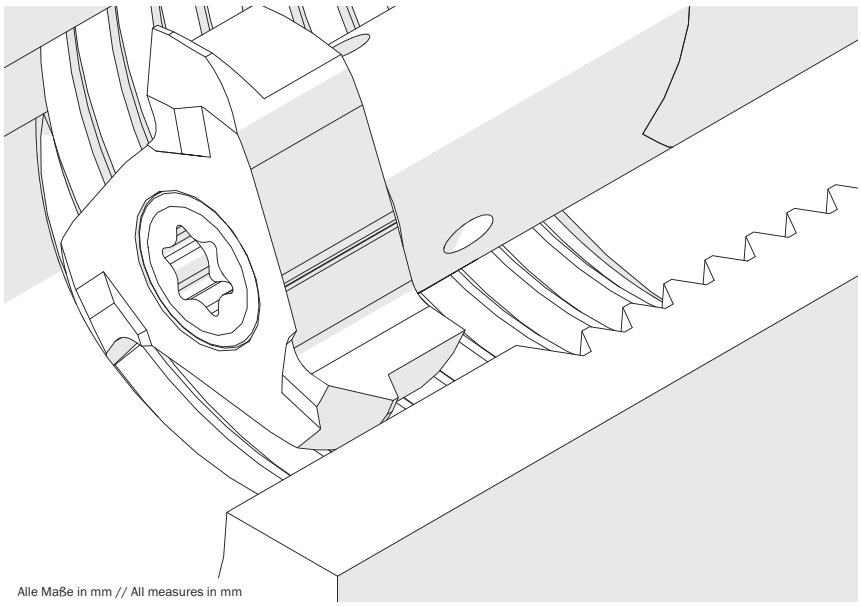


Auch als 6-Schneider verfügbar.
Also available with 6 cutting edges.

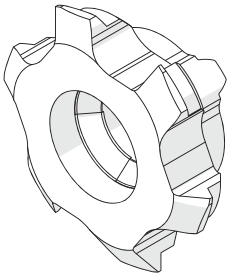


Artikelnummer Part number	Ab Gewindegröße As of Thread size	Steigung (von) Pitch (as of)	Steigung (bis) Pitch (up to)	siehe Seite see Page
P06.0510.01.10 M	M12	1,0	1,75	401
P12.0510.01 M	M12	1,0	1,75	402
P06.0720.01.10 M	M14	1,0	2,0	401
P12.0720.01 M	M14	1,0	2,0	402
S06.0510.01.12 M	M16	1,0	1,75	419
S16.0510.01 M	M16	1,0	1,75	420
S06.0720.01.12 M	M16	1,0	2,0	419
S16.0720.01 M	M16	1,0	2,0	420
P06.0815.01.11 M	M16	1,5	2,75	401
P12.0815.01 M	M16	1,5	2,75	402
P06.2530.01.11 M	M16	2,0	3,0	401
P12.2530.01 M	M16	2,0	3,0	402
S06.0815.01.13 M	M18	1,5	2,75	419
S16.0815.01 M	M18	1,5	2,75	420
S06.2530.01.13 M	M18	2,0	3,0	419
S16.2530.01 M	M18	2,5	3,0	420
U18.0510.01 M	M22	1,0	1,75	444
U06.0720.01.18 M	M22	1,0	2,0	443
U18.0720.01 M	M22	1,0	2,0	444
U18.0815.01 M	M22	1,5	2,75	444
U18.1325.01 M	M24	2,0	3,0	444
U06.2535.01.18 M	M24	2,0	3,5	443
U18.2535.01 M	M24	2,0	3,5	444
U18.1020.01 M	M24	2,0	3,75	444
U18.1630.01 M	M24	2,5	5,0	444
U18.1835.01 M	M24	3,0	5,5	444
V06.0720.01.22 M	M27	1,0	2,0	474
V22.0720.01 M	M27	1,0	2,0	475
V22.0815.01 M	M27	1,5	2,75	475
V22.1020.01 M	M27	2,0	3,75	475
V06.2545.01.22 M	M27	2,0	4,5	474
V22.2545.01 M	M27	2,0	4,5	475
V22.1630.01 M	M30	2,5	5,0	475
V22.2140.01 M	M30	3,5	6,0	475
V22.2445.01 M	M30	3,5	6,5	475
V28.0720.01 M	M33	1,0	2,0	487
V06.1525.01.28 M	M33	1,5	2,5	486
V28.1525.01 M	M33	1,5	2,5	487
V06.3050.01.28 M	M36	2,5	5,0	486
V28.3050.01 M	M36	2,5	5,0	487
V28.5060.01 M	M39	4,0	6,0	487

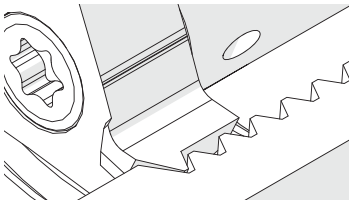
Metrisches ISO-Gewindefräsen, Vollprofil
Thread milling, metric ISO-Thread, full profile



Alle Maße in mm // All measures in mm

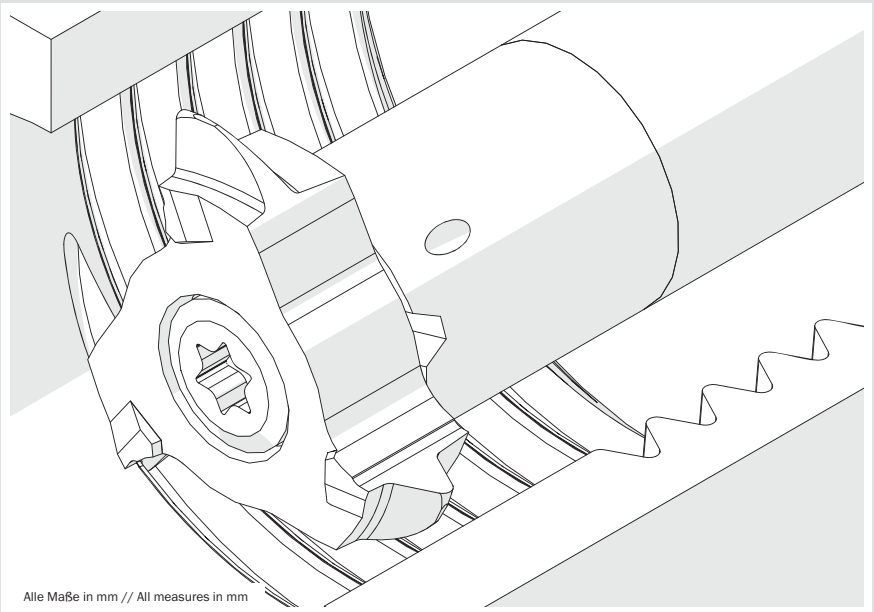


Auch als 6-Schneider verfügbar.
Also available with 6 cutting edges.

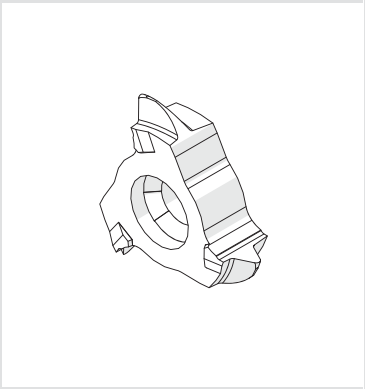


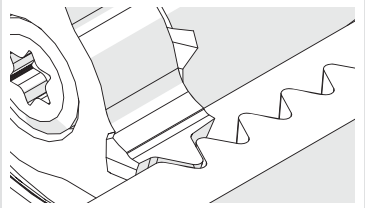
Artikelnummer Part number	Ab Gewindegröße As of Thread size	Steigung (von) Pitch (as of)	Anzahl Schneiden Number of Cutting Edges	siehe Seite see Page
U18.0815.02 M	M22	1,5	3	442
U06.0815.02.18 M	M22	1,5	6	441
U18.0917.02 M	M22	1,75	3	442
U18.1020.02 M	M22	2,0	3	442
V22.0815.02 M	M24	1,5	3	473
V06.0815.02.22 M	M24	1,5	6	472
U06.1020.02.18 M	M24	2,0	6	441
U18.1325.02 M	M24	2,5	3	442
U06.1630.02.18 M	M24	3,0	6	441
U06.1835.02.18 M	M24	3,5	6	441
V22.0917.02 M	M27	1,75	3	473
V06.0917.02.22 M	M27	1,75	6	472
V22.1020.02 M	M27	2,0	3	473
V06.1020.02.22 M	M27	2,0	6	472
U18.1630.02 M	M27	3,0	3	442
U18.1835.02 M	M27	3,5	3	442
V22.1630.02 M	M30	3,0	3	473
V06.1630.02.22 M	M30	3,0	6	472
V22.1835.02 M	M30	3,5	3	473
V22.2140.02 M	M33	4,0	3	473
V06.2140.02.22 M	M33	4,0	6	472
V22.2445.02 M	M33	4,5	3	473

Whitworth-Gewinde, Vollprofil
Whitworth Thread, full profile



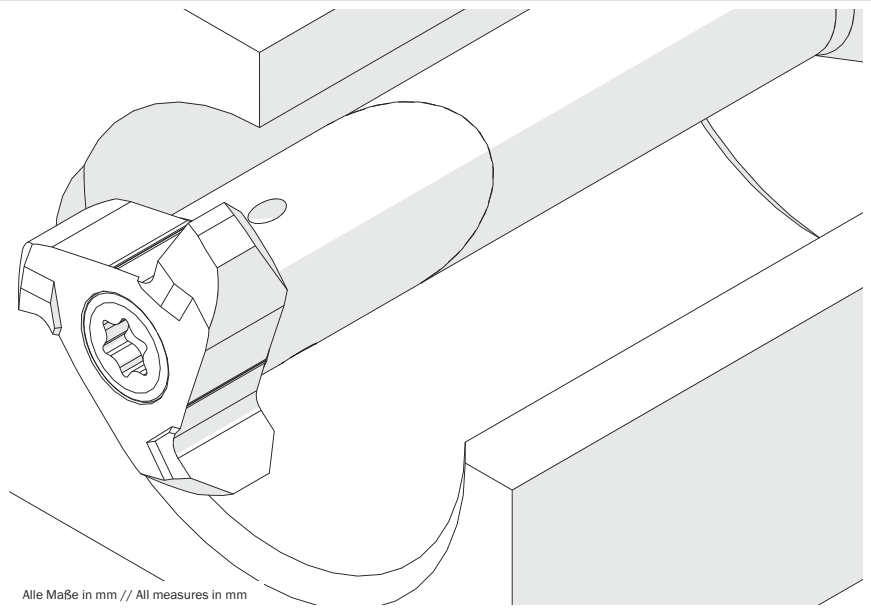
Alle Maße in mm // All measures in mm



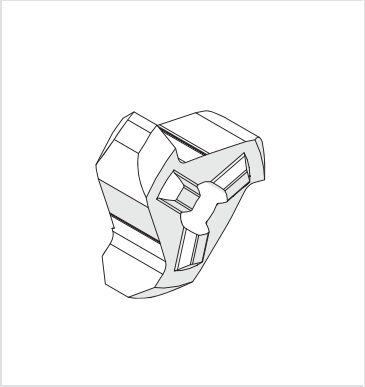


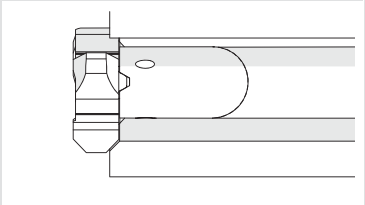
Artikelnummer Part number	Gang/Zoll Threads/inch	Anzahl Schneiden Number of Cutting Edges	siehe Seite see Page
P12.1423.11 M	11	3	403
S16.1423.11 M	11	3	421
U18.BS11.02 M	11	3	447
V22.5511.02 M	11	3	476
P12.1118.14 M	14	3	403
S16.1118.14 M	14	3	421
U18.BS14.02 M	14	3	447
P12.0813.19 M	19	3	403
U18.BS19.02 M	19	3	447
V22.5506.02 M	6	3	476
V22.5508.02 M	8	3	476

Fräsen von Fasen
Chamfering



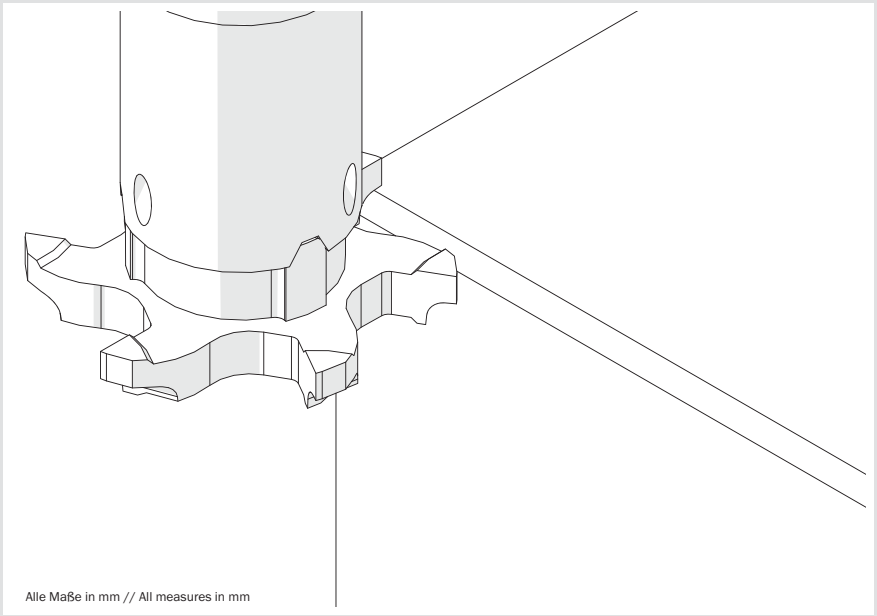
Alle Maße in mm // All measures in mm



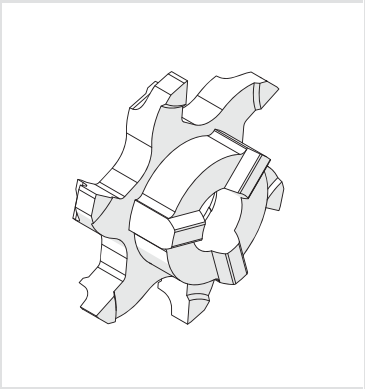


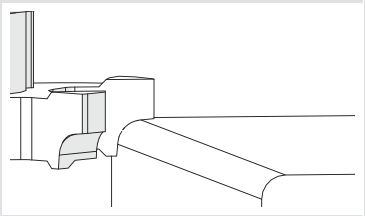
Artikelnummer Part number	ØDmin (Min. Bohrung) ØDmin (Min. Bore)	Anzahl Schneiden Number of Cutting Edges	siehe Seite see Page
P09.4545.02 F	9,6	3	405
P10.4545.35 F	10,0	3	405
P06.1515.02.10 F	10,0	6	404
P06.2020.02.10 F	10,0	6	404
P06.3030.02.10 F	10,0	6	404
P06.4545.02.10 F	10,0	6	404
P12.4545.35 F	12,0	3	405
S06.1515.02.14 F	14,0	6	422
S06.2020.02.14 F	14,0	6	422
S06.3030.02.14 F	14,0	6	422
S06.4545.02.14 F	14,0	6	422
U15.4545.58 F	15,0	3	448
U06.4545.050.15 F	15,0	6	450
S16.4545.02 F	16,0	3	423
S16.4545.45 F	16,0	3	423
U18.4545.58 F	18,0	3	448
U06.4545.020.18 F	18,0	6	450
V22.4545.58 F	22,0	3	477
V22.4545.94 F	22,0	3	477
V06.4545.020.22 F	22,0	6	478
V06.4545.020.28 F	28,0	6	478

Fräsen von Kantenverrundungen (Entgraten)
Corner Rounding (Deburing)



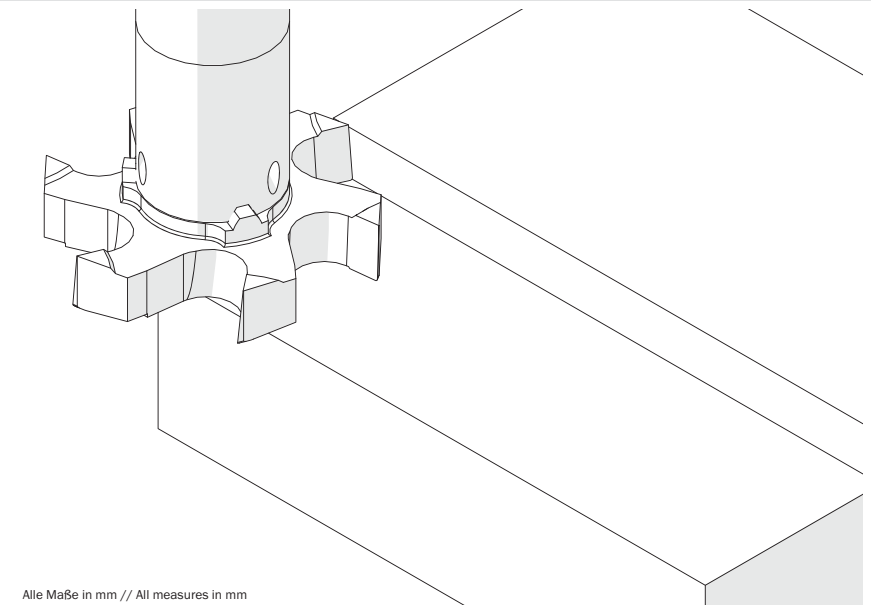
Alle Maße in mm // All measures in mm



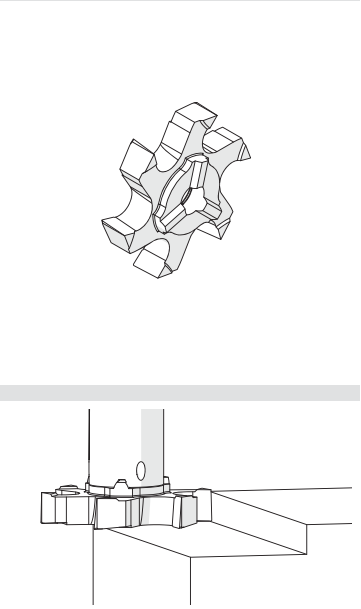


Artikelnummer Part number	R	Anzahl Schneiden Number of Cutting Edges	siehe Seite see Page
V06.R020.22 F	0,2	6	479
V06.R050.22 F	0,5	6	479
V06.R060.22 F	0,6	6	479
V06.R080.22 F	0,8	6	479
V06.R100.22 F	1,0	6	479
V06.R125.22 F	1,25	6	479
V06.R150.22 F	1,5	6	479
V06.R200.22 F	2,0	6	479
V06.R225.22 F	2,25	6	479
V06.R250.22 F	2,5	6	479
V06.R300.22 F	3,0	6	479

Stirn- und Planfräsen
Face Milling



Alle Maße in mm // All measures in mm



Artikelnummer Part number	ØDS	Anzahl Schneiden Number of Cutting Edges	siehe Seite see Page
V06.PL50.020.28 Y	27,7	6	480