

MILLING CUTTERS






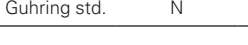
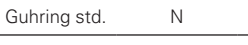
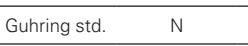

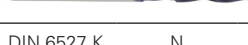


GUHRING

RF 100 high performance end mills





Tool illustration				Tool material	Guhring no.
Standard	Type	Surface	Shank design	Diameter range	

RF 100 U - Ratio end mills centre cutting





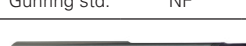

				Solid carbide	3731
DIN 6527 K	N	F	HB	4,000 - 20,000	
				Solid carbide	3736
DIN 6527 L	N	F	HA	4,000 - 25,000	
				Solid carbide	3732
DIN 6527 L	N	F	HB	4,000 - 25,000	
				Solid carbide	3837
Guhring std.	N	F	HA	6,000 - 20,000	
				Solid carbide	3838
Guhring std.	N	F	HB	6,000 - 20,000	
				Solid carbide	3839
Guhring std.	N	F	HA	6,000 - 20,000	
				Solid carbide	3871
Guhring std.	N	F	HB	6,000 - 20,000	
				Solid carbide	3627
Guhring std.	N	F	HA	10,000 - 25,000	
				Solid carbide	3872
DIN 6527 K	N	F	HA	6,000 - 25,000	
				Solid carbide	3873
DIN 6527 K	N	F	HB	6,000 - 25,000	













Tool illustration				Tool material	Guhring no.
Standard	Type	Surface	Shank design	Diameter range	

RF 100 U - Ratio end mills (3-fluted) centre cutting

				Solid carbide	3891
DIN 6527 L	N	F	HA	3,000 - 20,000	
				Solid carbide	3892
DIN 6527 L	N	F	HB	3,000 - 20,000	
				Solid carbide	3893
DIN 6527 K	N	F	HA	3,000 - 16,000	
				Solid carbide	3894
DIN 6527 K	N	F	HB	3,000 - 16,000	

RF 100 U/HF - Ratio end mills centre cutting

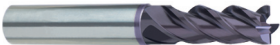


				Solid carbide	3507
DIN 6527 L	NF	F	HA	6,000 - 25,000	
				Solid carbide	3508
DIN 6527 L	NF	F	HB	6,000 - 25,000	
				Solid carbide	3509
Guhring std.	NF	F	HA	6,000 - 20,000	
				Solid carbide	3522
Guhring std.	NF	F	HB	6,000 - 20,000	
				Solid carbide	3598
Guhring std.	NF	F	HA	6,000 - 20,000	
				Solid carbide	3600
Guhring std.	NF	F	HB	6,000 - 20,000	

 bright	 steam tempered	 nitrided lands	 nitrided	 golden brown	 TiAlN
 AlTiN	 TiCN	 FIRE	 AlCrN	 TiN	 MolyGlide

RF 100 high performance end mills

Tool illustration				Tool material	Gühring no.
Standard	Type	Surface	Shank design	Diameter range	

RF 100 F - Ratio end mills centre cutting

	Solid carbide	3629			
DIN 6527 L	NH	F	HA	4,000 - 20,000	
	Solid carbide	3630			
DIN 6527 L	NH	F	HB	4,000 - 20,000	
	Solid carbide	3366			
DIN 6527 L	NH	F	HB	6,000 - 20,000	

Tool illustration				Tool material	Gühring no.
Standard	Type	Surface	Shank design	Diameter range	

RF 100 VA - Ratio end mills centre cutting

	Solid carbide	3804			
DIN 6527 K	N	a	HA	4,000 - 20,000	
	Solid carbide	3805			
DIN 6527 K	N	a	HB	4,000 - 20,000	
	Solid carbide	3800			
DIN 6527 L	N	a	HA	6,000 - 25,000	
	Solid carbide	3803			
DIN 6527 L	N	a	HB	6,000 - 25,000	
	Solid carbide	3806			
Gühring std.	N	a	HA	6,000 - 20,000	
	Solid carbide	3807			
Gühring std.	N	a	HB	6,000 - 20,000	

RF 100 VA/NF - Ratio end mills centre cutting

	Solid carbide	3696			
DIN 6527 L	NF	a	HA	6,000 - 25,000	
	Solid carbide	3718			
DIN 6527 L	NF	a	HB	6,000 - 25,000	
	Solid carbide	3733			
Gühring std.	NF	a	HA	6,000 - 20,000	
	Solid carbide	3885			
Gühring std.	NF	a	HB	6,000 - 20,000	

GUHRING



TOOL MANAGEMENT


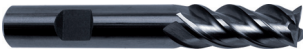
Concentrate on your core business activities and leave your Tool Management to Guhring. We will take care of process planning, tool storage, logistics, tool application, tool maintenance and process optimisation.

○ bright
 ● steam tempered
 ◐ nitrided lands
 ● nitrided
 ● golden brown
 A TiAlN
A AlTiN
 C TiCN
F FIRE
P AlCrN
S TiN
M MolyGlide





RF 100 high performance end mills

Tool illustration				Tool material	Guhring no.
Standard	Type	Surface	Shank design	Diameter range	

RF 100 A - Ratio end mills centre cutting



				Solid carbide	3202
DIN 6527 L	W	○	HA	4,000 - 20,000	
				Solid carbide	3319
DIN 6527 L	W	○	HB	4,000 - 20,000	

RF 100 A/WF - Ratio end mills centre cutting



				Solid carbide	3468
DIN 6527 L	WF	○	HA	6,000 - 25,000	
				Solid carbide	3469
DIN 6527 L	WF	○	HB	6,000 - 25,000	
				Solid carbide	3470
Guhring std.	WF	○	HA	6,000 - 20,000	
				Solid carbide	3471
Guhring std.	WF	○	HB	6,000 - 20,000	

Tool illustration				Tool material	Guhring no.
Standard	Type	Surface	Shank design	Diameter range	



RF 100 H - Ratio end mills centre cutting

				Solid carbide	3895
DIN 6527 L	H	Ⓐ	HA	6,000 - 20,000	
				Solid carbide	3896
DIN 6527 L	H	Ⓐ	HB	6,000 - 20,000	



RF 100 Ti - Ratio end mills centre cutting

				Solid carbide	3498
DIN 6527 L	N	Ⓐ	HA	6,000 - 25,000	
				Solid carbide	3499
DIN 6527 L	N	Ⓐ	HB	6,000 - 25,000	

RF 100 SF - Ratio end mills (5-fluted) centre cutting

				Solid carbide	3897
Guhring std.	NH	Ⓕ	HA	4,000 - 20,000	
				Solid carbide	3898
Guhring std.	NH	Ⓕ	HB	4,000 - 20,000	

RF 100 SF - Ratio end mills (6-fluted) centre cutting

				Solid carbide	3631
Guhring std.	NH	Ⓕ	HA	8,000 - 25,000	
				Solid carbide	3632
Guhring std.	NH	Ⓕ	HB	8,000 - 25,000	

○ bright	● steam tempered	● nitrided lands	● nitrided	● golden brown	Ⓐ TiAlN
Ⓐ AlTiN	Ⓒ TiCN	Ⓕ FIRE	⒫ AlCrN	Ⓔ TiN	Ⓜ MolyGlide

HPC high performance end mills

Tool illustration				Tool material	Gühring no.
Standard	Type	Surface	Shank design	Diameter range	

GH 100 U - slot drills (3-fluted)

	Solid carbide	3193			
DIN 6527 K	NH	○	HA	3.000 - 20.000	
	Solid carbide	3540			
DIN 6527 K	NH	Ⓢ	HA	3.000 - 20.000	
	Solid carbide	3285			
DIN 6527 K	NH	○	HB	3.000 - 20.000	
	Solid carbide	3729			
DIN 6527 K	NH	Ⓢ	HB	3.000 - 20.000	
	Solid carbide	3196			
DIN 6527 L	NH	○	HA	1.000 - 20.000	
	Solid carbide	3636			
DIN 6527 L	NH	Ⓢ	HA	1.000 - 20.000	
	Solid carbide	3286			
DIN 6527 L	NH	○	HB	3.000 - 20.000	
	Solid carbide	3730			
DIN 6527 L	NH	Ⓢ	HB	3.000 - 20.000	
	Solid carbide	3203			
DIN 6528	NH	○	HA	2.000 - 20.000	
	Solid carbide	3741			
DIN 6528	NH	Ⓢ	HA	2.000 - 20.000	

GH 100 U- Mini slot drills (3-fluted)

	Solid carbide	3686			
Gühring std.	NH	Ⓢ	∅<2,0 HA/HB	1.000 - 10.000	

GA 200 A - slot drills (3-fluted)

	Solid carbide	3367			
Gühring std.	W	○	HA	6.000 - 20.000	

Tool illustration				Tool material	Gühring no.
Standard	Type	Surface	Shank design	Diameter range	

RS 100 U - high performance roughing end mills

	Solid carbide	3887			
DIN 6527 L	NF	Ⓢ	HA	6.000 - 25.000	
	Solid carbide	3888			
DIN 6527 L	NF	Ⓢ	HB	6.000 - 25.000	

RS 100 F - high performance roughing end mills

	Solid carbide	3889			
DIN 6527 L	NF	Ⓢ	HA	6.000 - 25.000	
	Solid carbide	3890			
DIN 6527 L	NF	Ⓢ	HB	6.000 - 25.000	

GS 100 U - roughing end mills with fine teeth

	Solid carbide	3204			
DIN 6527 L	NRf	○	HB	6.000 - 25.000	
	Solid carbide	3723			
DIN 6527 L	NRf	Ⓢ	HB	6.000 - 25.000	
	Solid carbide	3365			
DIN 6527 L	NRf	Ⓢ	HB	6.000 - 20.000	

GS 100 A - roughing end mills with coarse teeth

	Solid carbide	3127			
DIN 6527 L	WR	○	HB	6.000 - 25.000	
	Solid carbide	3364			
DIN 6527 L	WR	○	HB	6.000 - 20.000	

GS 100 H - roughing end mills with fine teeth

	DK 500 UF	3682			
DIN 6527 L	HR	Ⓢ	HB	6.000 - 20.000	

○ bright	● steam tempered	● nitrided lands	● nitrided	● golden brown	● TiAlN
● AlTiN	● TiCN	● FIRE	● AlCrN	● TiN	● MolyGlide

HPC high performance end mills

Solid carbide universal end mills

Tool illustration				Tool material	Gühring no.
Standard	Type	Surface	Shank design	Diameter range	

GH 100 U - multi-tooth end mills

	Solid carbide	3311			
Gühring std.	NH	○	HA	3.000 - 25.000	
	Solid carbide	3689			
Gühring std.	NH	● F	HA	3.000 - 25.000	
	Solid carbide	3019			
Gühring std.	NH	○	HB	6.000 - 25.000	
	Solid carbide	3047			
Gühring std.	NH	● F	HB	6.000 - 25.000	
	Solid carbide	3312			
Gühring std.	NH	○	HA	6.000 - 25.000	
	Solid carbide	3691			
Gühring std.	NH	● F	HA	6.000 - 25.000	
	Solid carbide	3313			
Gühring std.	NH	○	HB	6.000 - 25.000	
	Solid carbide	3693			
Gühring std.	NH	● F	HB	6.000 - 25.000	

GH 100 H - hard multi-tooth end mills

	DK 500 UF	3715			
Gühring std.	H	● F	HA	3.000 - 20.000	
	DK 500 UF	3716			
Gühring std.	H	● F	HA	6.000 - 20.000	

Tool illustration				Tool material	Gühring no.
Standard	Type	Surface	Shank design	Diameter range	

Slot drills (2-fluted)

	Solid carbide	3194			
DIN 6527 K	N	○	HA	2.000 - 20.000	
	Solid carbide	3633			
DIN 6527 K	N	● F	HA	2.000 - 20.000	
	Solid carbide	3294			
DIN 6527 K	N	○	HB	2.000 - 20.000	
	Solid carbide	3634			
DIN 6527 K	N	● F	HB	2.000 - 20.000	
	Solid carbide	3195			
DIN 6527 L	N	○	HA	1.000 - 20.000	
	Solid carbide	3635			
DIN 6527 L	N	● F	HA	1.000 - 20.000	
	Solid carbide	3295			
DIN 6527 L	N	○	HB	2.000 - 20.000	
	Solid carbide	3154			
DIN 6527 L	N	● F	HB	2.000 - 20.000	
	Solid carbide	3212			
Gühring std.	N	○	HA	2.000 - 20.000	
	Solid carbide	3709			
Gühring std.	N	● F	HA	2.000 - 20.000	
	Solid carbide	3303			
DIN 6528	N	○	HA	2.000 - 20.000	
	Solid carbide	3676			
DIN 6528	N	● F	HA	2.000 - 20.000	

XL slot drills (2-fluted)

	Solid carbide	3011			
Gühring std.	N	○	HA	3.000 - 20.000	

○ bright	● steam tempered	● nitrided lands	● nitrided	● golden brown	● A TiAlN
● A AlTiN	● C TiCN	● F FIRE	● P AlCrN	● S TiN	● M MolyGlide

Solid carbide universal end mills

Tool illustration				Tool material	Gühring no.
Standard	Type	Surface	Shank design	Diameter range	

XL slot drills (2-fluted)

	Solid carbide	3021	
Gühring std.	N	F HA	3.000 - 20.000

AI slot drills (2-fluted)

	Solid carbide	3310	
DIN 6527 K	W	○ HA	3.000 - 20.000
	Solid carbide	3126	
DIN 6527 K	W	○ HB	3.000 - 20.000
	Solid carbide	3309	
DIN 6527 L	W	○ HA	3.000 - 20.000
	Solid carbide	3059	
DIN 6527 L	W	○ HB	3.000 - 20.000

XL AI slot drills (2-fluted)

	Solid carbide	3358	
Gühring std.	W	○ HA	5.000 - 16.000

Slot drills (3-fluted)

	Solid carbide	3555	
DIN 6527 K	N	○ HA	2.000 - 20.000
	Solid carbide	3558	
DIN 6527 K	N	F HA	2.000 - 20.000
	Solid carbide	3296	
DIN 6527 K	N	○ HB	2.000 - 20.000
	Solid carbide	3719	
DIN 6527 K	N	F HB	2.000 - 20.000
	Solid carbide	3559	
DIN 6527 L	N	○ HA	2.000 - 20.000

Tool illustration				Tool material	Gühring no.
Standard	Type	Surface	Shank design	Diameter range	

Slot drills (3-fluted)

	Solid carbide	3560	
DIN 6527 L	N	F HA	2.000 - 20.000
	Solid carbide	3297	
DIN 6527 L	N	○ HB	2.000 - 20.000
	Solid carbide	3720	
DIN 6527 L	N	F HB	2.000 - 20.000
	Solid carbide	3307	
DIN 6528	N	○ HA	2.000 - 20.000
	Solid carbide	3677	
DIN 6528	N	F HA	2.000 - 20.000
	Solid carbide	3220	
Gühring std.	N	○ HA	2.000 - 20.000
	Solid carbide	3711	
Gühring std.	N	F HA	2.000 - 20.000

XL slot drills (3-fluted)

	Solid carbide	3314	
Gühring std.	N	○ HA	3.000 - 20.000
	Solid carbide	3680	
Gühring std.	N	F HA	3.000 - 20.000

Mini slot drills (3-fluted)

	Solid carbide	3684	
Gühring std.	N	F Ø<2,0 HA/HB	0.300 - 20.000

End mills (4-fluted)

	Solid carbide	3198	
DIN 6527 K	N	○ HA	2.000 - 20.000












○ bright	● steam tempered	● nitrided lands	● nitrided	● golden brown	● A TiAlN
● A AlTiN	● C TiCN	● F FIRE	● P AlCrN	● S TiN	● M MolyGlide

Solid carbide universal end mills



HPC radius end mills

Tool illustration				Tool material	Guhring no.
Standard	Type	Surface	Shank design	Diameter range	

End mills (4-fluted)

	Solid carbide	3637			
DIN 6527 K	N	F	HA	2.000 - 20.000	
	Solid carbide	3298			
DIN 6527 K	N	○	HB	2.000 - 20.000	
	Solid carbide	3721			
DIN 6527 K	N	F	HB	2.000 - 20.000	
	Solid carbide	3197			
DIN 6527 L	N	○	HA	2.000 - 20.000	
	Solid carbide	3649			
DIN 6527 L	N	F	HA	2.000 - 20.000	
	Solid carbide	3299			
DIN 6527 L	N	○	HB	2.000 - 20.000	
	Solid carbide	3722			
DIN 6527 L	N	F	HB	2.000 - 20.000	
	Solid carbide	3257			
Guhring std.	N	○	HA	4.500 - 20.000	
	Solid carbide	3713			
Guhring std.	N	F	HA	4.500 - 20.000	
	Solid carbide	3304			
DIN 6528	N	○	HA	4.000 - 20.000	
	Solid carbide	3678			
DIN 6528	N	F	HA	4.000 - 20.000	



XL end mills (4-fluted)

	Solid carbide	3012			
Guhring std.	N	○	HA	3.000 - 20.000	
	Solid carbide	3023			
Guhring std.	N	F	HA	3.000 - 20.000	



○ bright	● steam tempered	● nitrided lands	● nitrided	● golden brown	● A TiAlN
● A AlTiN	● C TiCN	● F FIRE	● P AlCrN	● S TiN	● M MolyGlide

Tool illustration				Tool material	Guhring no.
Standard	Type	Surface	Shank design	Diameter range	



Slot drills with corner radius (2-fluted)

	Solid carbide	3106			
DIN 6527 L	N	○	HA	6.000 - 20.000	
	Solid carbide	3561			
DIN 6527 L	N	F	HA	6.000 - 20.000	






End mills with corner radius (4-fluted)

	Solid carbide	3111			
DIN 6527 L	N	○	HA	6.000 - 20.000	
	Solid carbide	3562			
DIN 6527 L	N	F	HA	6.000 - 20.000	

GH 100 U - multi-tooth end mills with corner radius

	Solid carbide	3112			
DIN 6527 L	NH	○	HA	6.000 - 20.000	
	Solid carbide	3563			
DIN 6527 L	NH	F	HA	6.000 - 20.000	

GF 500 T - HSC-profile cutters with Torus form

	Solid carbide	3856			
Guhring std.	N	● A	DZ	2.000 - 12.000	
	Solid carbide	3859			
Guhring std.	N	● A	DZ	2.000 - 12.000	
	Solid carbide	3860			
Guhring std.	N	● A	DZ	2.000 - 8.000	
	Solid carbide	3865			
Guhring std.	N	● A	DZ	6.000 - 12.000	
	Solid carbide	3863			
Guhring std.	N	● A	DZ	4.000 - 12.000	

HPC radius end mills

Tool illustration				Tool material	Gühring no.
Standard	Type	Surface	Shank design	Diameter range	

GF 300 T - hard profile cutters with Torus form

	DK 500 UF	3361			
Gühring std.	H	F	HA	3.000 - 16.000	
	DK 500 UF	3362			
Gühring std.	H	F	HA	6.000 - 16.000	

GH 100 H - hard multi-tooth end mills with corner radius

	DK 500 UF	3363			
Gühring std.	H	F	HA	6.000 - 16.000	

Ball nose slot drills (2-fluted)

	Solid carbide	3308			
DIN 6527 L	N	○	HA	0.500 - 20.000	
	Solid carbide	3679			
DIN 6527 L	N	F	HA	0.500 - 20.000	
	Solid carbide	3024			
DIN 6527 L	N	○	HB	3.000 - 20.000	
	Solid carbide	3049			
DIN 6527 L	N	F	HB	3.000 - 20.000	

Ball nose end mills (4-fluted)

	Solid carbide	3306			
DIN 6528	N	○	HA	4.000 - 20.000	
	Solid carbide	3727			
DIN 6528	N	F	HA	4.000 - 20.000	
	Solid carbide	3026			
DIN 6527 L	N	○	HB	3.000 - 20.000	
	Solid carbide	3050			
DIN 6527 L	N	F	HB	3.000 - 20.000	

Tool illustration				Tool material	Gühring no.
Standard	Type	Surface	Shank design	Diameter range	

XL ball nose slot drills (2-fluted)

	Solid carbide	3014			
Gühring std.	N	○	HA	3.000 - 12.000	
	Solid carbide	3030			
Gühring std.	N	F	HA	3.000 - 12.000	

XL ball nose end mills (4-fluted)

	Solid carbide	3015			
Gühring std.	N	○	HA	3.000 - 12.000	
	Solid carbide	3043			
Gühring std.	N	F	HA	3.000 - 12.000	

GF 200 B - ball nose profile cutters

	Solid carbide	3017			
Gühring std.	N	○	HA	3.000 - 10.000	
	Solid carbide	3044			
Gühring std.	N	F	HA	3.000 - 10.000	
	Solid carbide	3018			
Gühring std.	N	○	HA	3.000 - 10.000	
	Solid carbide	3045			
Gühring std.	N	F	HA	3.000 - 10.000	

GF 500 B - HSC-ball nose profile cutters

	Solid carbide	3848			
Gühring std.	N	A	DZ	2.000 - 12.000	
	Solid carbide	3849			
Gühring std.	N	A	DZ	2.000 - 12.000	
	Solid carbide	3853			
Gühring std.	N	A	DZ	2.000 - 8.000	

○ bright	● steam tempered	● nitrided lands	● nitrided	● golden brown	● A TiAlN
● A AlTiN	● C TiCN	● F FIRE	● P AlCrN	● S TiN	● M MolyGlide

HPC radius end mills

Tool illustration				Tool material	Guhring no.
Standard	Type	Surface	Shank design	Diameter range	

GF 500 B - HSC-ball nose profile cutters

	Solid carbide	3855		
Guhring std.	N	A	DZ	6.000 - 12.000
	Solid carbide	3854		
Guhring std.	N	A	DZ	6.000 - 12.000
	Solid carbide	3866		
Guhring std.	N	A	DZ	4.000 - 12.000

GF 300 B - ball nose hard profile cutters

	DK 500 UF	3359		
Guhring std.	H	F	HA	0.500 - 16.000
	DK 500 UF	3360		
Guhring std.	H	F	HA	3.000 - 16.000

GF 200 WP

Guhring's milling cutter program includes the diesinking cutter GF 200 WP, available in two holder lengths and with carbide, Fire-coated or with cermet, bright finish indexable insert specifically designed for HSC finishing of free-form surfaces in the die and form industry:

Tool illustration				Tool material	Guhring no.
Standard	Type	Surface	Shank design	Diameter range	
					1941
Guhring std.	GF200		HA	10.00 - 32.00	
					1942
Guhring std.	GF200		HA	10.00 - 32.00	
				Cermet	1947
Guhring std.	GF200			10.00 - 32.00	
				Solid carbide	2520
Guhring std.	GF200	F		10.00 - 32.00	

PCD high performance end mills, centre cutting and with internal cooling

Please note our PCD-tipped HPC end mills suitable for high performance machining of aluminium. The tools excel thanks to their unique geometry and permit extremely high feed rates combined with reduced wear thanks the

micro-corner radius. The machining of difficult to access components is made possible thanks to collision protection and with internal cooling guarantees optimal chip evacuation.

Guhring no. 5492

Slot drills (2-fluted)
Type W
Shank form HA
Standard range
for Diameter
6.00 mm to 20.00 mm



Guhring no. 5493

Slot drills (2-fluted)
Type W
Shank form straight
Standard range
for Diameter
6.00 mm to 20.00 mm





A TiAlN	C TiCN	F FIRE	P AlCrN	S TiN	M MolyGlide

PM HSS-E high performance end mills





M42 universal end mills

Tool illustration				Tool material	Gühring no.
Standard	Type	Surface	Shank design	Diameter range	

RF 40 - Ratio end mills







				HSS-E-PM	3429
DIN 844 K	N	○	B	8.000 - 20.000	
				HSS-E-PM	3705
DIN 844 K	N	Ⓢ	B	8.000 - 20.000	
				HSS-E-PM	3432
DIN 844 L	N	○	B	16.000 - 30.000	
				HSS-E-PM	3706
DIN 844 L	N	Ⓢ	B	16.000 - 30.000	

GS 40 - roughing end mills with fine teeth







				HSS-E-PM	3322
DIN 844 K	NRf	○	B	6.000 - 20.000	
				HSS-E-PM	3668
DIN 844 K	NRf	Ⓢ	B	6.000 - 20.000	
				HSS-E-PM	3340
DIN 844 K	NRf	○	B	6.000 - 32.000	
				HSS-E-PM	3660
DIN 844 K	NRf	Ⓢ	B	6.000 - 32.000	

Tool illustration				Tool material	Gühring no.
Standard	Type	Surface	Shank design	Diameter range	

Slot drills (2-fluted)

				M42	3451
DIN 327 D	N	○	B	1.000 - 25.000	
				M42	3663
DIN 327 D	N	Ⓢ	B	1.000 - 25.000	
				M42	3452
DIN 844 K	N	○	B	3.000 - 20.000	
				M42	3694
DIN 844 K	N	Ⓢ	B	3.000 - 20.000	
				M42	3453
DIN 844 L	N	○	B	3.000 - 20.000	
				M42	3695
DIN 844 L	N	Ⓢ	B	3.000 - 20.000	

Slot drills (3-fluted)

				M42	3458
DIN 327 D	N	○	B	2.800 - 30.000	
				M42	3651
DIN 327 D	N	Ⓢ	B	2.800 - 30.000	
				M42	3459
DIN 844 K	N	○	B	2.800 - 20.000	
				M42	3664
DIN 844 K	N	Ⓢ	B	2.800 - 20.000	
				M42	3460
DIN 844 L	N	○	B	3.000 - 20.000	
				M42	3836
DIN 844 L	N	Ⓢ	B	3.000 - 20.000	

○ bright	● steam tempered	● nitrided lands	● nitrided	● golden brown	● TiAlN
Ⓢ AlTiN	Ⓢ TiCN	Ⓢ FIRE	Ⓢ AlCrN	Ⓢ TiN	Ⓢ MolyGlide

M42 universal end mills

Tool illustration				Tool material	Gühring no.
Standard	Type	Surface	Shank design	Diameter range	

Mini slot drills (3-fluted)

	M42	3142			
Gühring std.	N	○	B	3.000 - 10.000	
	M42	3144			
Gühring std.	N	●	B	3.000 - 10.000	
	M42	3143			
Gühring std.	N	○	B	3.000 - 10.000	
	M42	3145			
Gühring std.	N	●	B	3.000 - 10.000	

Ball nose slot drills (2-fluted)

	M42	3466			
DIN 327 D	N	○	B	2.000 - 28.000	
	M42	3703			
DIN 327 D	N	●	B	2.000 - 30.000	
	M42	3467			
Gühring std.	N	○	B	3.000 - 30.000	
	M42	3704			
Gühring std.	N	●	B	3.000 - 20.000	

End mills

	M42	3428			
DIN 844 K	N	○	B	2.000 - 32.000	
	M42	3670			
DIN 844 K	N	●	B	2.000 - 32.000	
	M42	3431			
DIN 844 L	N	○	B	3.000 - 40.000	
	M42	3692			
DIN 844 L	N	●	B	3.000 - 32.000	

○ bright	● steam tempered	● nitrided lands	● nitrided	● golden brown	● TiAlN
● A TiN	● C TiCN	● F FIRE	● P AlCrN	● S TiN	● M MolyGlide

Tool illustration				Tool material	Gühring no.
Standard	Type	Surface	Shank design	Diameter range	

End mills

	M42	3433			
Gühring std.	N	○	B	6.000 - 20.000	

Roughing end mills

	M42	3346			
DIN 844 K	NR	○	B	6.000 - 50.000	
	M42	3690			
DIN 844 K	NR	●	B	6.000 - 50.000	
	M42	3347			
DIN 844 L	NR	○	B	6.000 - 36.000	
	M42	3650			
DIN 844 L	NR	●	B	6.000 - 36.000	

Roughing/finishing end mills

	M42	3343			
DIN 844 K	NF	○	B	6.000 - 50.000	
	M42	3669			
DIN 844 K	NF	●	B	6.000 - 40.000	
	M42	3342			
DIN 844 L	NF	○	B	6.000 - 36.000	
	M42	3698			
DIN 844 L	NF	●	B	6.000 - 32.000	




Morse taper end mills

	HSCO	3117			
DIN 845 K	NR	○	MK	10.000 - 50.000	
	HSCO	3118			
DIN 845 K	NF	○	MK	10.000 - 50.000	





M42 universal end mills

Tool illustration				Tool material	Gühring no.
Standard	Type	Surface	Shank design	Diameter range	


Morse taper end mills

				HSCO	3440
DIN 845 K	N	○	MK	14.000 - 45.000	
				HSCO	3121
DIN 845 L	NR	○	MK	16.000 - 40.000	
				HSCO	3120
DIN 845 L	N	○	MK	16.000 - 63.000	




End mills with international taper

				HSCO	3130
DIN 2328 K	N	○	SK	32.000 - 80.000	
				HSCO	3133
DIN 2328 L	N	○	SK	32.000 - 80.000	
				HSCO	3131
DIN 2328 K	NR	○	SK	32.000 - 80.000	
				HSCO	3134
DIN 2328 L	NR	○	SK	32.000 - 80.000	

Side and face cutters



				HSCO	3530
DIN 885	N	○		50.000 - 200.000	

Shell end mills



				M42	3504
DIN 1880	N	○		40.000 - 100.000	
				M42	3654
DIN 1880	N	⊙		40.000 - 100.000	
				M42	3187
DIN 1880	NF	○		40.000 - 160.000	

Tool illustration				Tool material	Gühring no.
Standard	Type	Surface	Shank design	Diameter range	

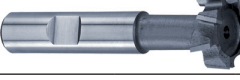
Shell end mills

				M42	3185
DIN 1880	NR	○		40.000 - 160.000	
				M42	3749
DIN 1880	NR	⊙		40.000 - 100.000	


Woodruff cutters

				HSCO	3580
DIN 850 D	N	○	B	4.500 - 45.500	
				HSCO	3579
DIN 850 C	H	○	A	4.500 - 45.500	

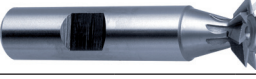



T-slot end mills

				HSCO	3570
DIN 851	N	○	B	12.500 - 32.000	

Corner rounding cutters

				HSCO	3176
DIN 6518	N	○	$r < 10,0$ B/D	10.000 - 56.000	

Dovetail cutters





				HSCO	3572
DIN 1833 C	H	○	B	16.000 - 32.000	
				HSCO	3576
DIN 1833 D	H	○	B	16.000 - 25.000	
				HSCO	3574
DIN 1833 C	H	○	B	16.000 - 32.000	
				HSCO	3577
DIN 1833 D	H	○	B	16.000 - 32.000	

○ bright	● steam tempered	● nitrided lands	● nitrided	● golden brown	● TiAlN
● A AlTiN	● C TiCN	● F FIRE	● P AlCrN	● S TiN	● M MolyGlide

Solid carbide end mills (imperial)

Tool illustration				Tool material	Guhring no.
Standard	Type	Surface	Shank design	Diameter range	


RF 100 U - Ratio end mills Standard

	Solid carbide	3113			
Guhring std.	N	F	HA	4.763 - 25.400	
	Solid carbide	3099			
Guhring std.	N	F	~HB	9.525 - 25.400	
	Solid carbide	3114			
Guhring std.	N	F	HA	4.763 - 25.400	
	Solid carbide	3100			
Guhring std.	N	F	~HB	9.525 - 25.400	

RF 100 SF - Ratio end mills Superfinish

	Solid carbide	3115			
Guhring std.	NH	F	HA	7.938 - 25.400	

GH 100 U - slot drills (3-fluted)

	Solid carbide	3172			
Guhring std.	NH	○	HA	3.175 - 25.400	
	Solid carbide	3173			
Guhring std.	NH	F	HA	3.175 - 25.400	

GA 200 A - slot drills (3-fluted)

	Solid carbide	3177			
Guhring std.	W	○	HA	6.350 - 19.050	

RS 100 U - high performance roughing end mills



	Solid carbide	3097			
Guhring std.	NF	F	DZ	6.350 - 25.400	

Tool illustration				Tool material	Guhring no.
Standard	Type	Surface	Shank design	Diameter range	

RS 100 F - high performance roughing end mills

	Solid carbide	3098			
Guhring std.	NF	F	DZ	6.350 - 25.400	



GS 100 U - roughing end mills with fine teeth

	Solid carbide	3186			
Guhring std.	NRf	○	HA	6.350 - 25.400	
	Solid carbide	3188			
Guhring std.	NRf	F	HA	6.350 - 25.400	




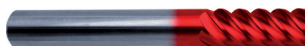
GS 100 A - roughing end mills with coarse teeth

	Solid carbide	3184			
Guhring std.	WR	○	HA	6.350 - 25.400	

GS 100 H - roughing end mills with fine teeth

	DK 500 UF	3189			
Guhring std.	HR	F	HA	6.350 - 19.050	
	DK 500 UF	3190			
Guhring std.	HR	F	HA	6.350 - 19.050	

GH 100 U - multi-tooth end mills



	Solid carbide	3178			
Guhring std.	NH	○	HA	6.350 - 25.400	
	Solid carbide	3179			
Guhring std.	NH	F	HA	6.350 - 25.400	
	Solid carbide	3180			
Guhring std.	NH	○	HA	6.350 - 19.050	
	Solid carbide	3181			
Guhring std.	NH	F	HA	6.350 - 19.050	

○ bright	● steam tempered	● nitrided lands	● nitrided	● golden brown	● TiAlN
● A TiN	● C TiCN	● F FIRE	● P AlCrN	● S TiN	● M MolyGlide






Solid carbide end mills (imperial)

Tool illustration				Tool material	Guhring no.
Standard	Type	Surface	Shank design	Diameter range	



GH 100 H - hard multi-tooth end mills

				DK 500 UF	3182
Guhring std.	H	F	HA	6.350 - 19.050	
				DK 500 UF	3183
Guhring std.	H	F	HA	6.350 - 19.050	



Slot drills (2-fluted)

				Solid carbide	3146
Guhring std.	N	○	HA	1.590 - 25.400	
				Solid carbide	3148
Guhring std.	N	F	HA	1.590 - 25.400	
				Solid carbide	3147
Guhring std.	N	○	HA	3.175 - 25.400	
				Solid carbide	3149
Guhring std.	N	F	HA	3.175 - 25.400	
				Solid carbide	3092
Guhring std.	N	F	DZ	1.590 - 19.050	

Al slot drills (2-fluted)



				Solid carbide	3174
Guhring std.	W	○	HA	3.175 - 25.400	
				Solid carbide	3175
Guhring std.	W	○	HA	6.350 - 15.875	

Slot drills (3-fluted)






				Solid carbide	3168
Guhring std.	N	○	HA	3.175 - 25.400	
				Solid carbide	3170
Guhring std.	N	F	HA	3.175 - 25.400	

Tool illustration				Tool material	Guhring no.
Standard	Type	Surface	Shank design	Diameter range	



XL slot drills (3-fluted)

				Solid carbide	3169
Guhring std.	N	○	HA	4.763 - 25.400	
				Solid carbide	3171
Guhring std.	N	F	HA	4.763 - 25.400	


End mills (4-fluted)

				Solid carbide	3150
Guhring std.	N	○	HA	1.590 - 25.400	
				Solid carbide	3153
Guhring std.	N	F	HA	1.590 - 25.400	
				Solid carbide	3152
Guhring std.	N	○	HA	3.175 - 25.400	
				Solid carbide	3156
Guhring std.	N	F	HA	3.175 - 25.400	
				Solid carbide	3093
Guhring std.	N	F	DZ	1.590 - 19.050	

XL end mills (4-fluted)

				Solid carbide	3151
Guhring std.	N	○	HA	4.763 - 25.400	
				Solid carbide	3155
Guhring std.	N	F	HA	4.763 - 25.400	

GF 300 T - hard profile cutters with Torus form





				DK 500 UF	3192
Guhring std.	H	F	HA	4.763 - 15.875	

○ bright	● steam tempered	● nitrided lands	● nitrided	● golden brown	● A TiAlN
● A AlTiN	● C TiCN	● F FIRE	● P AlCrN	● S TiN	● M MolyGlide





Solid carbide end mills (imperial)

Tool illustration				Tool material	Guhring no.
Standard	Type	Surface	Shank design	Diameter range	



Ball nose slot drills (2-fluted)

				Solid carbide	3157
Guhring std.	N	○	HA	1.590 - 19.050	
				Solid carbide	3159
Guhring std.	N	ⓕ	HA	1.590 - 19.050	
				Solid carbide	3158
Guhring std.	N	○	HA	3.175 - 19.050	
				Solid carbide	3160
Guhring std.	N	ⓕ	HA	3.175 - 19.050	

Ball nose end mills (4-fluted)

				Solid carbide	3161
Guhring std.	N	○	HA	1.590 - 19.050	
				Solid carbide	3165
Guhring std.	N	ⓕ	HA	1.590 - 19.050	
				Solid carbide	3164
Guhring std.	N	○	HA	3.175 - 19.050	
				Solid carbide	3167
Guhring std.	N	ⓕ	HA	3.175 - 19.050	

XL ball nose end mills (4-fluted)

				Solid carbide	3162
Guhring std.	N	○	HA	4.763 - 19.050	
				Solid carbide	3166
Guhring std.	N	ⓕ	HA	4.763 - 19.050	


GF 300 B - ball nose hard profile cutters

				DK 500 UF	3101
Guhring std.	H	ⓕ	HA	3.175 - 12.700	

○ bright	● steam tempered	● nitrided lands	● nitrided	● golden brown	● TiAlN
ⓐ AlTiN	ⓐ TiCN	ⓕ FIRE	ⓐ AlCrN	ⓐ TiN	ⓐ MolyGlide

Tool illustration				Tool material	Guhring no.
Standard	Type	Surface	Shank design	Diameter range	

GF 300 B - ball nose hard profile cutters

				DK 500 UF	3191
Guhring std.	H	ⓕ	HA	3.175 - 15.875	

SL range summary

SL milling cutters

Ratio end mills RF 100

DIN	Form	Type	Tolerance on cutting-Ø	Tool illustration	No. of cutting edges	Tool material	Carbide grade	Surface	Ø-range mm	Guhr. no.	Page
DIN 6537 short	HB	N	h10		4-fluted	Carb.-UF	K/P	F	6.00...20.00	5534	44
DIN 6527 long	HA	N	h10		4-fluted	Carb.-UF	K/P	F	4.00...25.00	5735	45
DIN 6527 long	HB	N	h10		4-fluted	Carb.-UF	K/P	F	4.00...25.00	5535	45
Guhring std.	HA	N	h10		4-fluted	Carb.-UF	K/P	F	10.00...25.00	5582	46

Mini-Slot drills

Guhring std. short	-	N	h10		3-fluted	Carb.-UF	K/P	F	0.50...20.00	5573	47
Guhring std. short	-	N	h10		3-fluted	Carb.-UF	K/P	F	1.00...10.00	5574	48

Slot drills and ball nose slot drills (2-fluted)

DIN 6527 long	HA	N	h10		2-fluted	Carb.-UF	K/P	F	0.50...20.00	5585	49
DIN 6527 long	HB	N	h10		2-fluted	Carb.-UF	K/P	F	4.00...12.00	5533	49
DIN 6527 long	HA	N	h10		2-fluted	Carb.-UF	K/P	F	2.00...20.00	5730	50
DIN 6527 long	HB	N	h10		2-fluted	Carb.-UF	K/P	F	2.00...20.00	5530	50
Guhring std.	HA	N	h10		2-fluted	Carb.-UF	K/P	F	3.00...20.00	5549	51
DIN 6527 short	HA	W	e8		2-fluted	Carb.-UF	K	○	3.00...20.00	5742	51
DIN 6527 short	HB	W	e8		2-fluted	Carb.-UF	K	○	3.00...20.00	5542	51
DIN 6527 long	HA	W	e8		2-fluted	Carb.-UF	K	○	3.00...20.00	5743	52
DIN 6527 long	HB	W	e8		2-fluted	Carb.-UF	K	○	3.00...20.00	5543	52

GuhringNavigator milling cutters

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○ bright ● FIRE

SL milling cutters

Slot drills (3-fluted)

DIN	Form	Type	Tolerance on cutting-Ø	Tool illustration	No. of cutting edges	Tool material	Carbide grade	Surface	Ø-range mm	Guhr. no	Page
DIN 6527 short	HA	NH	h10		3-fluted	Carb.-UF	K/P	F	3.00...20.00	5505	53
DIN 6527 short	HB	NH	h10		3-fluted	Carb.-UF	K/P	F	3.00...20.00	5502	53
DIN 6527 long	HA	N	h10		3-fluted	Carb.-UF	K/P	F	2.00...20.00	5507	54
DIN 6527 long	HB	N	h10		3-fluted	Carb.-UF	K/P	F	2.00...20.00	5531	54
DIN 6527 long	HA	NH	h10		3-fluted	Carb.-UF	K/P	F	3.00...20.00	5506	55
DIN 6527 long	HB	NH	h10		3-fluted	Carb.-UF	K/P	F	3.00...20.00	5546	55
DIN 6527 long	HB	WR	h10		3-fluted	Carb.-UF	K	○	8.00...20.00	5544	55

End mills

DIN 6527 long	HB	N	h10		4-fluted	Carb.-UF	K/P	F	3.00...20.00	5584	56
DIN 6527 long	HB	N	h10		4-fluted	Carb.-UF	K/P	F	2.00...20.00	5532	57
Guhring std. short	HA	N	h10		4-fluted	Carb.-UF	K/P	F	3.00...20.00	5556	58
DIN 6527 long	HA	NH	h10		multi-fluted	Carb.-UF	K/P	F	3.00...25.00	5745	59
DIN 6527 long	HB	NH	h10		multi-fluted	Carb.-UF	K/P	F	6.00...20.00	5545	59
Guhring std.	HA	NH	h10		multi-fluted	Carb.-UF	K/P	F	6.00...20.00	5729	60
Guhring std.	HB	NH	h10		multi-fluted	Carb.-UF	K/P	F	6.00...20.00	5529	60
DIN 6527 long	HB	NRf	h10		4-fluted	Carb.-UF	K/P	F	6.00...20.00	5504	61
DIN 6527 long	HB	HR	h10		4-fluted	DK 500-UF	K/P	F	6.00...20.00	5583	61