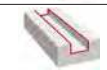
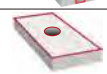
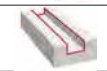
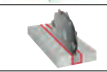
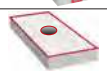
Overview of indexable insert milling tools (I)

		Angular milling cutter	Drill groove milling cutter	Angular milling cutter				
●	1. Choice	17530	17501	17500	17500	17500	17500	17550
◕	Alternative			 NEW	 NEW	 NEW	 NEW	
◑	May be possible							
◔	Can be used to a limited extent							
▽	Roughing							
▽▽	Medium machining							
▽▽▽	Finishing							
	Version							
	Diameter	16 - 20	20 - 32	10 - 32	10 - 25	16 - 25	32 - 50	12 - 20
	Number of cutting edges	1	1	2 - 8	2 - 7	2 - 5	8 - 11	2 - 4
	Insert	SDHT/SDMT	APKT/APHX	APKT 06	APKT 06	APKT 06	APKT 06	ADHX06/ADKX06
	Machining	▽▽	▽▽	▽▽▽	▽▽▽	▽	▽▽▽	▽▽▽
	Catalogue page	17.57	17.27	17.26	17.26	17.26	17.26	17.32
	ISO code	P M K N S H	P M K N S H	P M K N S H	P M K N S H	P M K N S H	P M K N S H	P M K N S H
	Face milling	◑ ◑ ◑ ◑ ◑	◑ ◑ ◑ ◑	● ● ●	● ● ●	● ● ●	● ● ●	● ● ● ●
	Angular milling		◕ ◕ ◕ ◕	● ● ●	● ● ●	● ● ●	● ● ●	● ● ● ●
	Groove milling		● ● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ● ●
	Pocket milling			● ● ●	● ● ●	● ● ●	● ● ●	● ● ● ●
	Contour milling							
	Chamfer milling	● ● ● ● ●						
	Keyway milling							
	Hole machining		◕ ◕ ◕ ◕					

		Angular milling cutter						
●	1. Choice	17550	17551	17551	17552	17552	17552	17553
◕	Alternative							
◑	May be possible							
◔	Can be used to a limited extent							
▽	Roughing							
▽▽	Medium machining							
▽▽▽	Finishing							
	Version							
	Diameter	10 - 25	20 - 32	16 - 32	32 - 40	20 - 40	40 - 63	25 - 40
	Number of cutting edges	1 - 6	3 - 6	2 - 6	4 - 6	2 - 6	4 - 9	2 - 4
	Insert	ADHX06/ADKX06	ADHX09/ADKX09	ADHX09/ADKX09	ADHX12/ADKX12	ADHX12/ADKX12	ADHX12/ADKX12	ADHX17/ADKX17
	Machining	▽▽▽	▽▽▽	▽▽▽	▽▽▽	▽▽▽	▽▽▽	▽▽▽
	Catalogue page	17.32	17.33	17.33	17.34	17.34	17.34	17.35
	ISO code	P M K N S H	P M K N S H	P M K N S H	P M K N S H	P M K N S H	P M K N S H	P M K N S H
	Face milling	● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●
	Angular milling	● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●
	Groove milling	● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●
	Pocket milling	● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●
	Contour milling							
	Chamfer milling							
	Keyway milling							
	Hole machining							

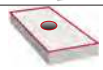
Overview of indexable insert milling tools (II)

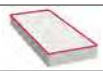
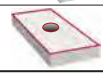
		ATORN®	ATORN®	ATORN®	ATORN®	ATORN®	ATORN®	ATORN®
		Angular milling cutter						
●	1. Choice	17553	17553	17556	17557	17558	17558	17558
◕	Alternative			NEW 	NEW 	NEW 	NEW 	NEW 
◑	May be possible							
◔	Can be used to a limited extent							
▽	Roughing							
▽▽	Medium machining							
▽▽▽	Finishing							
Version								
Diameter		25 - 40	40 - 100	50 - 160	50 - 160	20 - 32	32 - 50	50 - 160
Number of cutting edges		2 - 4	4 - 9	4 - 20	5 - 20	3 - 5	6 - 8	5 - 11
Insert		ADHX17/ADKX17	ADHX17/ADKX17	LNMU	XNMU	WNEU	WNEU	WNEU/WNEX
Machining		▽▽▽	▽▽▽	▽▽▽	▽▽▽	▽▽▽	▽▽▽	▽▽▽
Catalogue page		17.35	17.35	17.36	17.37	17.38	17.38	17.38
ISO code		P M K N S H	P M K N S H	P M K N S H	P M K N S H	P M K N S H	P M K N S H	P M K N S H
	Face milling	● ● ● ● ●	● ● ● ● ●	● ●	● ●	● ● ●	● ● ●	● ● ●
	Angular milling	● ● ● ● ●	● ● ● ● ●	● ●	● ●	● ● ●	● ● ●	● ● ●
	Groove milling	● ● ● ● ●	● ● ● ● ●	● ●	● ●	● ● ●	● ● ●	● ● ●
	Pocket milling		● ● ● ● ●			● ● ●	● ● ●	● ● ●
	Contour milling							
	Chamfer milling							
	Keyway milling							
	Hole machining							

		CERATIZIT	CERATIZIT	CERATIZIT	ATORN®	ATORN®	HHW
		Angular milling cutter					
●	1. Choice	17681	17680	17682	17505	17735	17662
◕	Alternative						
◑	May be possible						
◔	Can be used to a limited extent						
▽	Roughing						
▽▽	Medium machining						
▽▽▽	Finishing						
Version							
Diameter		32	32	40 - 160	10 - 40	20 -32	20 - 32
Number of cutting edges		2	2	3 - 14	1 - 5	3 - 4	2 - 4
Insert		SNUH 12	SNUH 12	SNUH 12	APKT/APHX	LN.X	SOMT
Machining					▽▽	▽▽▽▽	▽▽▽
Catalogue page		17.39	17.39	17.39	17.28	17.45	17.44
ISO code		P M K N S H	P M K N S H	P M K N S H	P M K N S H	P M K N S H	P M K N S H
	Face milling	◑ ◑ ◑ ◑ ◑	◑ ◑ ◑ ◑ ◑	◑ ◑ ◑ ◑	◑ ◑ ◑ ◑	● ● ● ●	◑ ◑	
	Angular milling	● ● ● ● ●	● ● ● ● ●	● ● ● ●	◕ ◕ ◕ ◕	● ● ● ●	● ●	
	Groove milling	● ● ● ● ●	● ● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ●	
	Pocket milling							
	Contour milling							
	Chamfer milling							
	Keyway milling							
	Hole machining							

= The specified prices are unit prices. Only sold in the specified packing units. Always specify number of units in order information.

Overview of indexable insert milling tools (III)

		Angular milling cutter					
●	1. Choice	17882	17507	17882	17755	17736	17742
◕	Alternative						
◑	May be possible						
◔	Can be used to a limited extent						
▽	Roughing						
▽▽	Medium machining						
▽▽▽	Finishing						
Version							
Diameter		12 - 40	10 - 40	20 - 32	40 - 250	40 - 160	40 - 125
Number of cutting edges		1 - 6	1 - 5	2 - 5	4 - 16	5 - 10	4 - 9
Insert		XD..	APKT/APHX	XD..	APKT/APHX	LN.X	SDMT
Machining		▽▽▽▽▽▽	▽▽	▽▽▽▽▽▽	▽▽▽	▽▽▽	▽▽▽▽▽
Catalogue page		17.41	17.28	17.41	17.29	17.45	17.43
ISO code		P M K N S H	P M K N S H	P M K N S H	P M K N S H	P M K N S H	P M K N S H
Face milling		● ● ● ● ◑	◑ ◑ ◑ ◑	● ● ● ● ◑	◑ ◑ ◑ ◑	● ● ● ●	◕ ◕
Angular milling		● ● ● ● ◑	◕ ◕ ◕ ◕	● ● ● ● ◑	● ● ● ●	● ● ● ●	● ●
Groove milling		● ● ● ● ◑	● ● ● ●	● ● ● ● ◑	◕ ◕ ◕ ◕		◕ ●
Pocket milling							
Contour milling							
Chamfer milling							
Keyway milling							
Hole machining							

		Angular milling cutter		Face-milling cutter			
●	1. Choice	17662	17882	17534	17876	17873	17876
◕	Alternative						
◑	May be possible						
◔	Can be used to a limited extent						
▽	Roughing						
▽▽	Medium machining						
▽▽▽	Finishing						
Version							
Diameter		40 - 63	40 - 160	24 - 40	18.9 - 32	32 - 40	18.9 - 32
Number of cutting edges		5 - 7	4 - 14	2 - 4	3 - 5	3 - 4	3 - 5
Insert		SOMT	XD..	SEHT	OF../SF..	OAKU	OF../SF..
Machining		▽▽▽▽▽	▽▽▽▽▽▽	▽▽	▽▽▽	▽▽▽	▽▽▽
Catalogue page		17.44	17.41	17.65	17.63	17.68	17.63
ISO code		P M K N S H	P M K N S H	P M K N S H	P M K N S H	P M K N S H	P M K N S H
Face milling		◑ ◑	● ● ● ● ◑	● ● ●	● ● ● ● ●	● ● ●	● ● ● ● ●
Angular milling		● ●	● ● ● ● ◑				
Groove milling		● ●	● ● ● ● ◑				
Pocket milling				◔ ◔ ◔			
Contour milling							
Chamfer milling				● ● ●	● ● ● ● ●	● ● ●	
Keyway milling							
Hole machining							

( ) = Items with prices in brackets partly available from stock.

Overview of indexable insert milling tools (IV)

		ATORN®	ATORN®	ATORN®	ATORN®	CERATIZIT	CERATIZIT
		Face-milling cutter					
●	1. Choice	17720	17722	17728	17728	17876	17873
◕	Alternative						
◑	May be possible						
◔	Can be used to a limited extent						
▽	Roughing						
▽▽	Medium machining						
▽▽▽	Finishing						
Version					Left		
Diameter		40 - 250	50 - 250	50 - 250	50 - 125	30.7 - 125	40 - 125
Number of cutting edges		3 - 8	4 - 20	4 - 13	4 - 7	4 - 13	4 - 12
Insert		SEHT	SNEX/SNMX	SEEN	SEEN	OF../SF..	OAKU
Machining		▽▽▽▽▽▽	▽▽▽▽▽▽	▽▽▽▽▽▽	▽▽▽▽▽▽	▽▽▽	▽▽▽
Catalogue page		17.65	17.62	17.66	17.66	17.64	17.68
ISO code		P M K N S H	P M K N S H	P M K N S H	P M K N S H	P M K N S H	P M K N S H
Face milling		● ● ●	● ● ● ●	● ● ●	● ● ●	● ● ● ● ●	● ● ●
Angular milling							
Groove milling							
Pocket milling							
Contour milling							
Chamfer milling		◕ ◕ ◕	◕ ◕ ◕ ◕	◕ ◕ ◕	◕ ◕ ◕	● ● ● ● ●	● ● ●
Keyway milling							
Hole machining							

		HHW	ATORN®	ATORN®	HHW	HHW	HHW
		Face-milling cutter	Spiral milling cutter (Igel)		HPC milling cutter		
●	1. Choice	17739	17510	17753	17660	17660	17660
◕	Alternative						
◑	May be possible						
◔	Can be used to a limited extent						
▽	Roughing						
▽▽	Medium machining						
▽▽▽	Finishing						
Version			DIN 1835 B				
Diameter		50 - 100	20 - 40	40 - 100	25 - 32	25 - 40	40 - 80
Number of cutting edges		4 - 8	1 - 3	3 - 6	2	2 - 4	4 - 5
Insert		HNGJ	APKT/APHX	APKT/APHX	ZDCW	ZDCW/ZDEW	ZDCW/ZDEW
Machining		▽▽▽▽▽▽	▽▽	▽▽	▽	▽	▽
Catalogue page		17.67	17.29	17.30	17.51	17.51	17.51
ISO code		P M K N S H	P M K N S H	P M K N S H	P M K N S H	P M K N S H	P M K N S H
Face milling		● ● ● ● ● ●			● ● ● ●	● ● ● ●	● ● ● ●
Angular milling			● ● ● ●	● ● ● ●			
Groove milling			● ● ● ●	● ● ● ●			
Pocket milling					● ● ● ●	● ● ● ●	● ● ● ●
Contour milling							
Chamfer milling							
Keyway milling							
Hole machining							

Overview of indexable insert milling tools (V)

		HFC milling cutter			Aluminium plunge milling cutter		
●	1. Choice	17865	17865	17865	17560	17561	17562
◕	Alternative						
◑	May be possible						
◔	Can be used to a limited extent						
▽	Roughing						
▽▽	Medium machining						
▽▽▽	Finishing						
	Version						
	Diameter	16 - 32	16 - 32	32 - 63	25 - 32	25 - 42	42 - 100
	Number of cutting edges	2 - 5	2 - 5	3 - 6	2	2 - 3	3 - 5
	Insert	XP..	XP..	XD..	VCGT/VPGT	VCGT/VPGT	VCGT
	Machining	▽	▽	▽	▽▽▽	▽▽▽	▽▽▽
	Catalogue page	17.52	17.52	17.52	17.47	17.47	17.47
	ISO code	P M K N S H	P M K N S H	P M K N S H	P M K N S H	P M K N S H	P M K N S H
	Face milling	● ● ● ◔	● ● ● ◔	● ● ● ◔	◔	◔	◔
	Angular milling	●	●	●	●	●	●
	Groove milling	●	●	●	●	●	⬮
	Pocket milling	● ● ● ◔	● ● ● ◔	● ● ● ◔	●	●	●
	Contour milling	● ● ● ◔	● ● ● ◔	● ● ● ◔	◑	◑	◑
	Chamfer milling						
	Keyway milling						
	Hole machining						

		Centring milling cutter	Copy milling cutter				
●	1. Choice	17536	17868	17613 - 17614	17868	17613 - 17615	17707
◕	Alternative						
◑	May be possible						
◔	Can be used to a limited extent						
▽	Roughing						
▽▽	Medium machining						
▽▽▽	Finishing						
	Version						
	Diameter	20	10 - 32	15 - 20	20 - 42	15 - 42	52 - 125
	Number of cutting edges	1	2 - 5	2	2 - 7	2 - 6	4 - 8
	Insert	TCMX	RD../RP..	RDHX	RD../RP..	RDHX	OCKX/RCKX/XCKX
	Machining	▽▽▽	▽▽ ▽▽▽	▽▽ ▽▽▽	▽▽ ▽▽▽	▽▽ ▽▽▽	▽▽▽ ▽▽▽
	Catalogue page	17.59	17.55	17.53	17.55	17.53 - 17.54	17.61
	ISO code	P M K N S H	P M K N S H	P M K N S H	P M K N S H	P M K N S H	P M K N S H
	Face milling		● ● ● ● ●	● ● ● ● ● ●	● ● ● ● ● ●	● ● ● ● ● ●	● ● ● ● ●
	Angular milling						
	Groove milling						
	Pocket milling			● ● ● ● ●		● ● ● ● ●	
	Contour milling		● ● ● ● ●	● ● ● ● ● ●	● ● ● ● ● ●	● ● ● ● ● ●	● ● ● ● ●
	Chamfer milling						
	Keyway milling						
	Hole machining	● ● ● ●					

( ) = Items with prices in brackets partly available from stock.

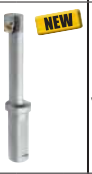
Overview of indexable insert milling tools (VI)

		CERATIZIT		ATORN	ATORN	ATORN	ATORN
		Copy milling cutter		End-of-use milling cutter	Chamfer milling cutter		
●	1. Choice	17868	17614 - 17616	17750	17527	17529	17536
◕	Alternative						 NEW
◑	May be possible						
◔	Can be used to a limited extent						
▽	Roughing						
▽▽	Medium machining						
▽▽▽	Finishing						
	Version				DIN 1835 B	DIN 1835 B	DIN 1835 B
	Diameter	40 - 100	42 - 100	50 - 125	1.2 - 20	10 - 42.3	16
	Number of cutting edges	3 - 10	4 - 7	3 - 7	1 - 2	1 - 3	1
	Insert	RP..	RDHX	APKT/APHX	TCMT	SCMT	SEEX
	Machining	▽▽ ▽▽▽	▽▽ ▽▽▽	▽ ▽▽	▽▽ ▽▽▽	▽▽ ▽▽▽	▽▽ ▽▽▽
	Catalogue page	17.56	17.53 - 17.54	17.31	17.58	17.58	17.59
	ISO code	P M K N S H	P M K N S H	P M K N S H	P M K N S H	P M K N S H	P M K N S H
	Face milling	● ● ● ● ●	● ● ● ● ●	● ● ● ●			
	Angular milling						
	Groove milling						
	Pocket milling		● ● ● ● ●				
	Contour milling	● ● ● ● ●	● ● ● ● ●				
	Chamfer milling				● ● ● ●	● ● ●	● ● ●
	Keyway milling						
	Hole machining					● ● ●	

		ATORN	ATORN	ATORN	ATORN	ATORN	ATORN
		Chamfer milling cutter	Adjustable counter-bore milling cutter	T-grooving milling cutter	Boring and counterboring bit		
●	1. Choice	17760	17526	17540	17576	17577	17578
◕	Alternative						
◑	May be possible						
◔	Can be used to a limited extent						
▽	Roughing						
▽▽	Medium machining						
▽▽▽	Finishing						
	Version		DIN 1835 B		DIN 1835 B	DIN 1835 B	DIN 1835 B
	Diameter	33 - 90	20 - 25	21 - 50	9.8 - 33	16 - 42	10 - 45
	Number of cutting edges	6 - 9	1	2 - 4	1	2	1
	Insert	APKT/APHX	TCMT/SCMT	SPMT	CC...	CC..	CC..
	Machining	▽ ▽▽	▽▽ ▽▽▽	▽	▽▽ ▽▽▽	▽▽ ▽▽▽	▽▽ ▽▽▽
	Catalogue page	17.30	17.57	17.60	17.49	17.50	17.50
	ISO code	P M K N S H	P M K N S H	P M K N S H	P M K N S H	P M K N S H	P M K N S H
	Face milling						
	Angular milling						
	Groove milling			● ● ●			
	Pocket milling						
	Contour milling						
	Chamfer milling	● ● ● ●	● ●				
	Keyway milling						
	Hole machining		● ●		● ● ● ●	● ● ● ●	● ● ● ●

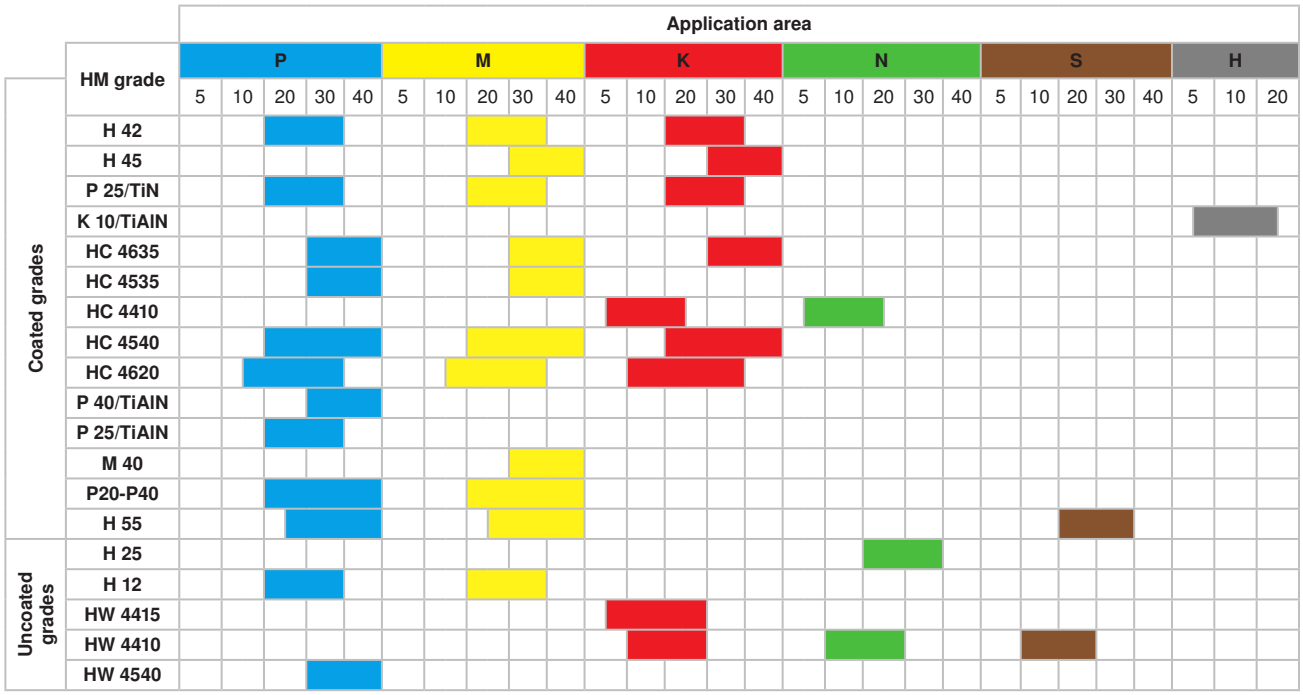
= The specified prices are unit prices. Only sold in the specified packing units. Always specify number of units in order information.

Overview of indexable insert milling tools (VII)

		ATORN®	ATORN®	ATORN®	ATORN®
		Boring and counterboring bit		Disc milling cutter	
●	1. Choice	17570	17570	17780	17782
◕	Alternative				
◑	May be possible				
◔	Can be used to a limited extent				
▽	Roughing				
▽▽	Medium machining				
▽▽▽	Finishing				
Version					
Diameter		18 - 76	15 - 31	63 - 250	63 - 160
Number of cutting edges		1	1	3 - 12	3 - 8
Insert		CC...	TCMT	SNHX	SNHX
Machining		▽▽ ▽▽▽	▽▽ ▽▽▽	▽▽	▽▽
Catalogue page		17.48	17.48	17.69	17.70
ISO code		P M K N S H	P M K N S H	P M K N S H	P M K N S H
Face milling					
Angular milling					
Groove milling					
Pocket milling					
Contour milling					
Chamfer milling					
Keyway milling				● ● ●	● ● ●
Hole machining		● ● ● ●	● ● ●		

Technical information for ISO milling inserts (I)

ATORN® HW



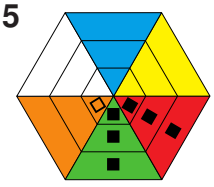
		ISO P	ISO M	ISO K	ISO N	ISO S	ISO H		
Coated grade	H 42	P20-P30	M20-M30	K20-K30				Universal grade	Average cutting speed, average chip cross section
	H 45		M30-M40	K30-K40				Titanium and titanium alloys, austenitic and martensitic VA, Inconel	Average cutting speed, milling of VA using coolant, wear-resistant grade
	P 25/TiN	P20-P30	M20-M30	K20-K30				Universal grade	Average cutting speed, average chip cross section
	K 10/TiAlN						K05-K15	Hardened materials	Suitable for dry milling
	HC 4635	P30-P40	M35-M40					Steel, alloy steel, tool steel, titanium and titanium alloys, austenitic and martensitic VA, Inconel	Average cutting speed, milling of VA using coolant, high resistance to breakouts
	HC 4535	P20-P40	M20-M40	K20-K40				Steel, alloy steel, tool steel, GG, GGG, titanium and titanium alloys, austenitic and martensitic VA, Inconel	Average cutting speed, milling of VA using coolant, high resistance to breakouts
	HC 4410			K05-K15	N05-N15			Aluminium and aluminium alloys, GG, GGG	High cutting speed and feed rate
	HC 4540	P20-P40	M20-M40	K20-K40				Steel, alloy steel, tool steel, GG, GGG, VA	Average cutting speed, milling of VA using coolant
	HC 4620	P15-P30	M15-M30	K10-K30				Steel, cast steel, alloy steel, tool steel	For difficult milling and interrupted cutting, maximum service lives
	P 40/TiAlN	P30-P40						Steel, cast steel, alloy steel, tool steel	High wear-resistant grade
	P 25/TiAlN	P20-P30						Steel, cast steel, alloy steel, tool steel	Tough grade, even for interrupted cuts
	M 40		M30-M40					VA	Average cutting speed, average feed rate
	P20-P40	P20-P40	M20-M40					Universal grade	Average cutting speed, average chip cross section
Uncoated grade	H 25				N20-N30			Aluminium and aluminium alloys	High cutting speed and feed rate
	H 12	P20-P30	M20-M30					Universal grade	Average cutting speed, average chip cross section
	HW 4415			K05-K20				Aluminium and copper alloys	Light to medium-heavy machining
	HW 4410			K10-K20	N10-N20	S10-S20	S10-S20	GG over 220 HB, GTW, aluminium and copper alloys, high heat-resistant alloys	Light to medium-heavy chip machining
	HW 4540	P30-P40						Steel and cast steel, alloy steel, tool steel	For difficult milling and interrupted cutting

= The specified prices are unit prices. Only sold in the specified packing units. Always specify number of units in order information.

CUTTING SOLUTIONS BY CERATIZIT

CUTTING SOLUTIONS BY CERATIZIT PREMIUM PARTNER

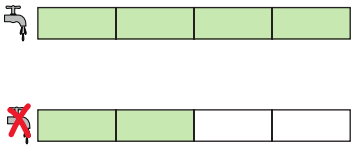
CTW4615
HW-K15



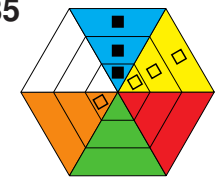
Ductility
0 2 4 6 8 10

Wear resistance
0 2 4 6 8 10

Wet / dry



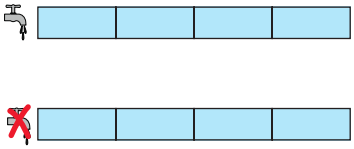
CTPP235
HC-P35
HC-M30



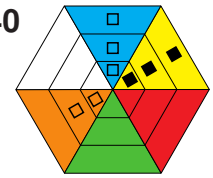
Ductility
0 2 4 6 8 10

Wear resistance
0 2 4 6 8 10

Wet / dry



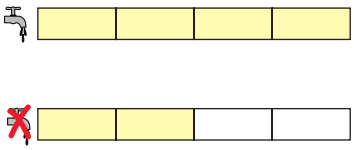
CTPM240
HC-P40
HC-M40



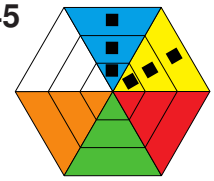
Ductility
0 2 4 6 8 10

Wear resistance
0 2 4 6 8 10

Wet / dry



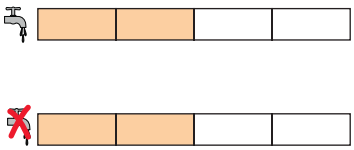
CTPM245
HC-M45
HC-P45



Ductility
0 2 4 6 8 10

Wear resistance
0 2 4 6 8 10

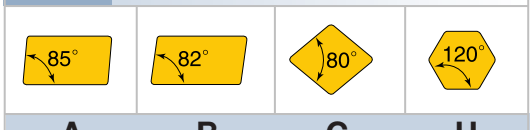
Wet / dry



Chip deflection step overview - milling

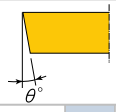
Info — Standard designation for milling inserts (I)

1 INSERT SHAPE



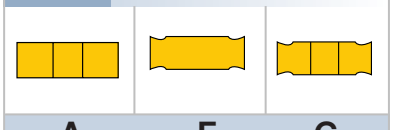
A	B	C	H
L	M	O	P
R	S	T	W

2 CLEARANCE ANGLE



B	5°	F	25°
C	7°	G	30°
D	15°	N	0°
E	20°	P	11°

4 INSERT TYPE



A	F	G
M	N	R
T	W	X

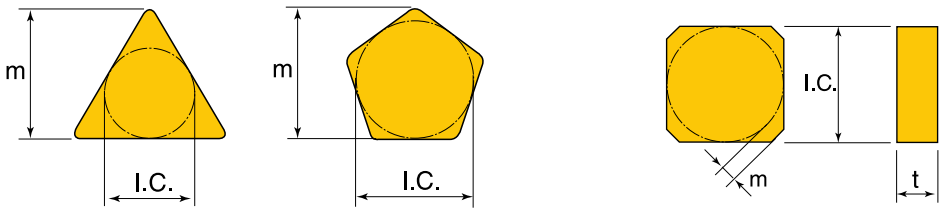
Special

S P K N

1 2 3 4

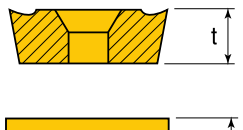
3 TOLERANCE CLASS

Class	Tolerance (mm)			I.C. Dimensions (mm)					
	m	t	I.C.	06:35	9,525	12.7	15,875	19:05	25.4
A	± 0.005	± 0.025	± 0.025	•	•	•	•	•	•
E	± 0.025	± 0.025	± 0.025	•	•	•	•	•	•
F	± 0.005	± 0.025	± 0.013	•	•	•	•	•	•
g	± 0.025	± 0.13	± 0.025	•	•	•	•	•	•
H	± 0.013	± 0.025	± 0.013	•	•	•	•	•	•
K	± 0.013	± 0.025	± 0.05	•	•				
			± 0.08			•			
			± 0.10				•	•	
			± 0.13						•
M	± 0.08	± 0.13	± 0.05	•	•				
	± 0.13		± 0.08			•			
	± 0.15		± 0.10				•	•	
			± 0.13						•



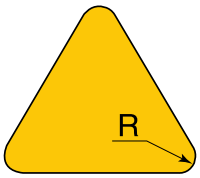
Info — Standard designation for milling inserts (II)

6 INSERT THICKNESS (mm)



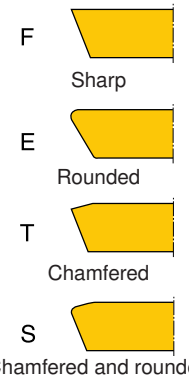
01t = 1.59	05t = 5.56
02t = 2.38	06t = 6.35
03t = 3.18	07t = 7.94
T3t = 3.97	09t = 9.52
04t = 4.76	

7 CORNER RADIUS (mm)

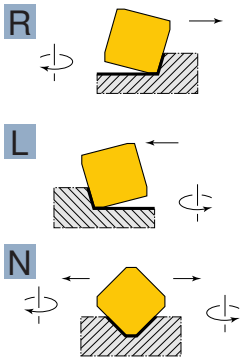


00R = round	
02R = 0.2	15R = 1.5
04R = 0.4	16R = 1.6
05R = 0.5	24R = 2.4
08R = 0.8	32R = 3.2
10R = 1.0	40R = 4.0
12R = 1.2	

8 CUTTING EDGE VERSION



9 CUTTING DIRECTION



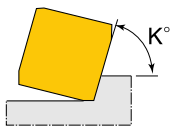
12	03	08 ED	T	R	-	
5	6	7	8	9		10

5 CUTTING EDGE LENGTH

	Insert shape				
I.C	C	R,S	T	H	O
5.56			09		
6.35	06	06	11		
7.94	08		13		
9.525	09	09	16		
12.7	12	12	22		05
15.875	16	15	27	09	
17.94					07
19.05	19	19	33	10	
25.4	25	25			
L					

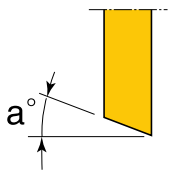
7 CORNER

Setting angle face cutting



A = 45°
D = 60°
E = 75°
F = 85°
P = 90°
Z = Special

Clearance angle face cutting

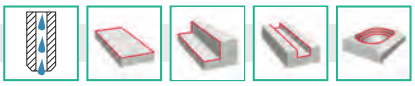


B = 5°	F = 25°
C = 7°	G = 30°
D = 15 °	N = 0°
E = 20°	P = 11°
Z = Special	

10 ADDITIONAL INFORMATION

This information is not part of the standard, and is therefore optional to the supplier.
E.G. – 14 for chip forming geometry

17500 Angular milling cutters, 90°



ATORN®

NEW

Design
- Soft cutting due to the positive installation position of the indexable insert
- Smooth milling behaviour of tools
- Precise 90° angular milling
- Axial runout max. 0.03 mm
- Radial runout max. 0.03 mm
- Supplied with clamping screw and wrench
- **Without** indexable inserts

DIN 1835 HA

17500 101-108

with shank

Ø D mm	Ø d mm	L mm	L1 mm	p mm	Z	17500	...
10	10	100	28	5.2	2		**101**
12	12	100	30	5.2	3		**102**
14	12	120	32	5.2	3		**103**
16	16	120	32	5.2	4		**104**
18	16	120	32	5.2	4		**105**
20	20	150	35	5.2	5		**106**
25	20	150	35	5.2	7		**107**
32	25	150	35	5.2	8		**108**

17500 140-142

with bore

Ø D mm	Ø d mm	H mm	p mm	Z	17500	...
32	16	40	5.2	8		**140**
40	16	40	5.2	10		**141**
50	22	40	5.2	11		**142**

with thread

Ø D mm	D1 mm	L mm	L1 mm	M	p mm	Z	17500	...
10	6.5	16	14.5	M6	5.2	2		**120**
12	6.5	16	14.5	M6	5.2	3		**121**
16	8.5	21	17.5	M8	5.2	4		**122**
20	10.5	26	20.0	M10	5.2	5		**123**
25	12.5	30	22.0	M12	5.2	7		**124**

17500 120-124

17500 130-132

DIN 1835 B

Long edge milling cutters with shank

Ø D mm	d mm	L mm	L1 mm	p mm	Z	Indexable inserts	17500	...
16	16	80	19.8	5.2	2	8		**130**
20	20	90	24.6	5.2	3	15		**131**
25	25	100	29.4	5.2	5	30		**132**

17808

Applications						P M K	
Coating						TiN/PVD	
ISO designation	l mm	d mm	s mm	d1 mm	r mm	17808	...
APKT 060204	6.4	3.65	2.15	2.0	0.4		**102**

Spare parts		Clamping screw		Wrench	
For indexable inserts size	TX size T	17520	...	52529	...
AP..0602	6		**201**		**401**

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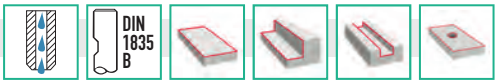
17501 Bore/counter sink milling cutters, 90°



ATORN®

Design
- **Positive**
- Right cutting
- **With centre cutting**
- Angle of attack 90°
- Straight shank with driving surface in accordance with DIN 1835 B
- **Without** indexable inserts

Applications
For plunge milling, face milling and circular milling.

Note:
For indexable inserts see art. no. 17809–17811.

17501 102-104

Short

Ø D mm	Ø d h6 mm	H mm	h mm	L mm	Z	Z eff.	Indexable inserts	17501	...
20	20	90	17	35	2	1	AP..1003		**102**
25	25	110	19	50	2	1	AP..1003		**103**
32	32	130	30	50	2	1	AP..1604		**104**

17501 110-111

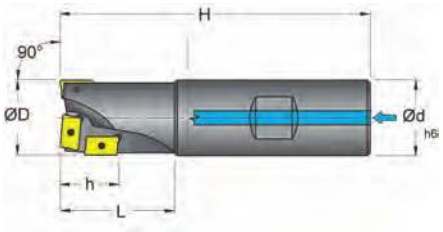
Long

Ø D mm	Ø d h6 mm	H mm	h mm	L mm	Z	Z eff.	Indexable inserts	17501	...
20	20	150	17	30	3	1	AP..1003		**110**
25	25	150	19	50	3	1	AP..1003		**111**

17501 120-122

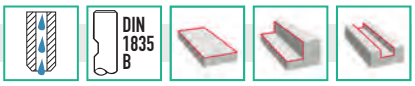
Extra long

Ø D mm	Ø d h6 mm	H mm	h mm	L mm	Z	Z eff.	Indexable inserts	17501	...
20	20	180	17	30	3	1	AP..1003		**120**
25	25	200	19	50	3	1	AP..1003		**121**
32	32	220	30	50	3	1	AP..1604		**122**



Spare parts For indexable inserts size	TX size T	Clamping screw 10	17520	...	Key	52529	...
AP..1003	8			**202**			**403**
AP..1604	15			**205**			**406**

17505 End mills, 90°



ATORN®

Design
- Straight shank with driving surface in accordance with DIN 1835 B
- Positive
- Right cutting
- **Without** indexable inserts

17505 126-127
Without internal cooling.

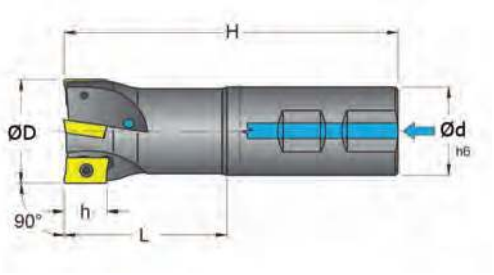
Applications
For excellent machining performance, for processing steel and cast materials, and for high-alloy steels.

Note:
For indexable inserts see art. no. 17809–17811.

17505

Short

Ø D mm	Ø d mm	H mm	L mm	h mm	Z	Indexable inserts	17505	...
10	16	80	24	10	1	AP..1003		**101**
11	16	80	24	10	1	AP..1003		**110**
12	16	80	24	10	1	AP..1003		**103**
13	16	80	24	10	1	AP..1003		**118**
14	16	80	24	10	1	AP..1003		**105**
15	16	85	25	10	2	AP..1003		**120**
15.7	16	85	25	10	2	AP..1003		**130**
16	16	85	25	10	2	AP..1003		**107**
17	16	85	25	10	2	AP..1003		**128**
18	20	85	25	10	2	AP..1003		**109**
19.7	20	90	25	10	3	AP..1003		**131**
20	20	90	25	10	3	AP..1003		**111**
22	25	95	25	10	3	AP..1003		**129**
24.7	25	95	25	10	4	AP..1003		**132**
25	25	95	25	10	3	AP..1003		**133**
25	25	95	25	10	4	AP..1003		**113**
28	25	95	25	10	4	AP..1003		**134**
30	25	95	25	10	4	AP..1003		**135**
32	25	95	26	10	5	AP..1003		**115**
25	25	100	44	17	2	AP..1604		**117**
32	32	110	50	17	3	AP..1604		**119**
40	32	115	45	17	4	AP..1604		**121**

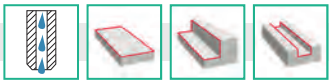


Long

Ø D mm	Ø d mm	H mm	L mm	h mm	Z	Indexable inserts	17505	...
10	16	150	24	10	1	AP..1003		**102**
12	16	150	24	10	1	AP..1003		**104**
16	16	150	100	10	2	AP..1003		**122**
18	16	150	25	10	2	AP..1003		**137**
20	20	150	100	10	3	AP..1003		**123**
25	20	150	25	10	4	AP..1003		**124**
25	25	**200**	60	17	2	AP..1604		**126**
32	25	150	90	10	5	AP..1003		**125**
32	32	**200**	60	17	3	AP..1604		**127**

Spare parts		Clamping screw		Wrench	
For indexable inserts size	TX size T	17520	...	52529	...
AP..1003	8		**202**		**403**
AP..1604	15		**205**		**406**

17507 Screw-in milling cutters, 90°



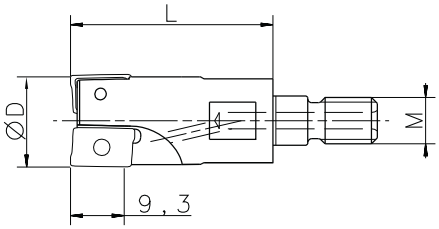
ATORN®

Design
- Soft cutting due to the positive installation position of the indexable insert
- High radial and axial runout accuracy of 0.03 mm
- **Without** indexable inserts

Note:
For milling arbours see cat. size 21, art. no. 17676.
For indexable inserts see art. no. 17809–17811.

17507

Ø D mm	L mm	M mm	D_1 mm	Z	Indexable inserts	17507	...
10	20	M 6	6.5	1	AP..1003		**101**
12	20	M 6	6.5	1	AP..1003		**102**
16	25	M 8	8.5	2	AP..1003		**103**
20	30	M 10	10.5	3	AP..1003		**104**
25	35	M 12	12.5	4	AP..1003		**106**
32	43	M 16	17.0	5	AP..1003		**107**
32	46	M 16	17.0	3	AP..1604		**108**
40	46	M 16	17.0	4	AP..1604		**109**



Spare parts		Clamping screw		Wrench	
For indexable inserts size	TX size T	17520	...	52529	...
AP..1003	8		**202**		**403**
AP..1604	15		**205**		**406**

17755 Angular milling cutter 90°

ATORN®

Design
- **Positive**
- **Right cutting**
- **With internal cooling (except art. no. 17755 112–114)**
- **Without** indexable inserts

Applications
For excellent machining performance.

Note:
For indexable inserts see art. no. 17809–17811.

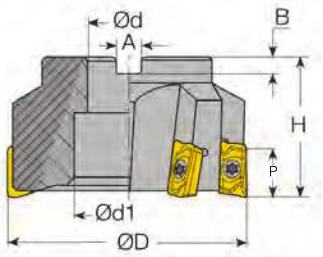
17755

For indexable inserts AP.. 1003

Ø D mm	Ø d1 mm	Ø d H7 mm	H mm	Z	p mm	Indexable inserts	17755	...
40	17	16	40	6	10	AP..1003		101
50	17	22	40	7	10	AP..1003		102
63	17	22	40	8	10	AP..1003		103
80	20	27	50	11	10	AP..1003		109
100	26	32	50	12	10	AP..1003		110

For indexable inserts AP.. 1604

Ø D mm	Ø d1 mm	Ø d H7 mm	H mm	Z	p mm	Indexable inserts	17755	...
40	12	16	40	4	17	AP..1604		104
50	18	22	40	5	17	AP..1604		105
63	18	22	40	6	17	AP..1604		106
80	20	27	50	7	17	AP..1604		107
100	45	32	50	8	17	AP..1604		108
125	56	40	63	9	17	AP..1604		111
160	87	40	63	10	17	AP..1604		112
200	-	60	63	13	17	AP..1604		113
250	-	60	63	16	17	AP..1604		114



Spare parts

For indexable inserts size	TX size T	Clamping screw 17520	...	Wrench 52529	...
AP..1003	8		202		403
AP..1604	15		205		406

17510 Spiral end mills, 90° (porcupine)

ATORN®

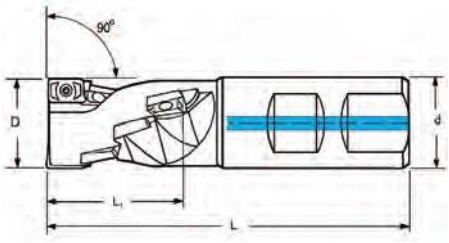
Note:
For indexable inserts see cat. no. 17809–17811.

17510

Design
- **Positive**
- Right cutting
- Straight shank with driving surface in accordance with DIN 1835 B
- **Without** indexable inserts

For indexable inserts AP.. 1003

Ø D mm	d mm	L_1 mm	L mm	Z	Z effective	Indexable inserts	17510	...
20	20	28	86	4	1	AP..1003		102
25	25	37	105	8	2	AP..1003		103
32	32	46	115	12	2	AP..1003		104
40	32	54	128	18	3	AP..1003		107



For indexable inserts AP.. 1604

Ø D mm	d mm	L1 mm	L mm	Z	Z effective	Indexable inserts	17510	...
25	25	29	105	2	1	AP..1604		108
32	32	44	115	6	2	AP..1604		105
40	32	58	130	8	2	AP..1604		106

Spare parts

For indexable inserts size	TX size T	Clamping screw 17520	...	Wrench 52529	...
AP..1003	8		202		403
AP..1604	15		205		406

17753 Porcupine milling cutter, 90°

ATORN®

Design
- **Positive**
- Right-hand cutting
- Only one insert type for face and circumferential cutting edge
- Arrangement with high right-hand twist for good chip formation
- Full overlap within a row of teeth
- Supplied with clamping screws and wrench
- **Without** indexable inserts

Note:
For indexable inserts see art. no. 17809–17811.

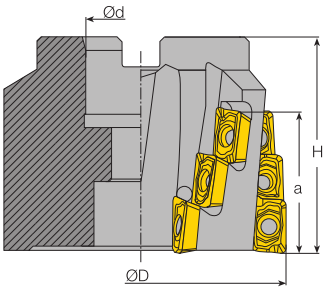
17753

For indexable inserts AP.. 1003

Ø D mm	Ø d mm	a mm	H mm	Indexable inserts	Z	Z eff.	17753	...
40	16	37	50	AP..1003	12	3		**098**
50	22	46	60	AP..1003	15	3		**099**
63	27	46	60	AP..1003	20	4		**100**

For indexable inserts AP.. 1604

Ø D mm	Ø d mm	a mm	H mm	Indexable inserts	Z	Z eff.	17753	...
50	27	30	55	AP..1604	6	3		**101**
63	27	44	60	AP..1604	12	4		**102**
80	32	44	60	AP..1604	15	5		**103**
100	40	44	60	AP..1604	18	6		**104**



Spare parts		Clamping screw 10		Wrench	
For indexable inserts size	TX size T	17520	...	52529	...
AP..1003	8		**202**		**403**
AP..1604	15		**205**		**406**

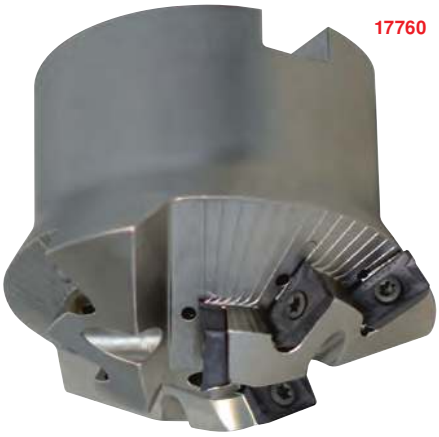
17760 Chamfer cutters

ATORN®

Design
- Milling jig with clamping screws and wrench
- **Without** indexable inserts

Applications
For chamfering 15° to 75° bevels.

Note:
For indexable inserts see art. no. 17809–17811.



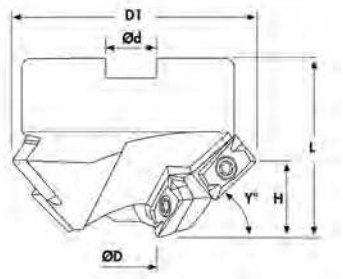
17760

For indexable inserts AP.. 1003

Y	Ø D mm	D1 mm	Ø d mm	L mm	H mm	No. of tooth rows	Z	17760	...
15°	17	70	22	50	7	3	9		**096**
30°	17	65	22	50	13	3	9		**097**
40°	17	60	22	50	17	3	9		**106**
45°	17	56	22	50	19	3	9		**098**
60°	17	45	16	50	24	3	9		**099**
75°	19	33	16	60	27	3	9		**100**

For indexable inserts AP.. 1604

Y	Ø D mm	D1 mm	Ø d mm	L mm	H mm	No. of tooth rows	Z	17760	...
15°	35	90	27	50	8.0	3	6		**101**
30°	35	85	27	50	15.0	3	6		**102**
40°	35	84	27	50	19.0	3	6		**107**
45°	35	75	27	50	21.5	3	6		**103**
60°	35	62	27	50	26.5	3	6		**104**
75°	35	45	22	60	29.5	3	6		**105**



Spare parts		Clamping screw 10		Wrench	
For indexable inserts size	TX size T	17520	...	52529	...
AP..1003	8		**202**		**403**
AP..1604	15		**205**		**406**

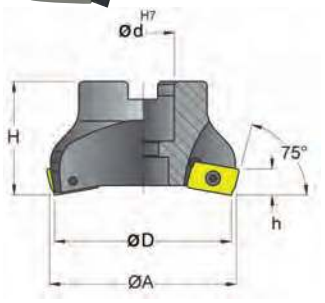
17750 Face milling cutters, 75° (consumable milling cutters)

ATORN®

Design
- **Positive**
- Right cutting
- **Without** indexable inserts

Note:
For indexable inserts see art. no. 17809–17811.

17750



Ø D mm	Ø A mm	Ø d H7 mm	H mm	Z	Indexable inserts	17750	...
50	54	16	40	3	AP..1604		**201**
63	67	22	40	4	AP..1604		**202**
80	84	27	50	5	AP..1604		**203**
100	104	32	50	6	AP..1604		**204**
125	129	40	63	7	AP..1604		**205**

Spare parts		Clamping screw		Wrench	
For indexable inserts size	TX size T	17520	...	52529	...
AP..1003	8		**202**		**403**
AP..1604	15		**205**		**406**

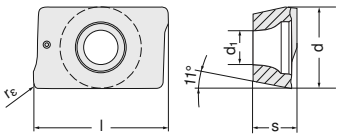
17809 Indexable milling inserts, APKT and APHX

ATORN®

Design
- **Square**
- Positive 11°

17809 101+104
Design
- **Polished**

17809 102–103+105–106
Design
- With sintered chip breaker



17809 104

17809 105

17809 201+204

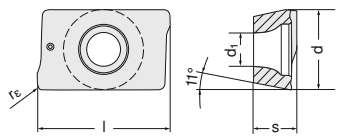
17809 110-111

Applications Cemented carbide grade Coating							N HW 4415 uncoated		PMK HC 4635 coated		MK HC 4535 coated		H HC 4615 coated	
ISO designation	l mm	d mm	s mm	d_1 mm	r		17809	...	17809	...	17809	...	17809	...
APHX100304 FR-ALU	10.5	6.35	3.18	2.85	0.4	10 pcs.		**101**						
APKT1003 PDER-S	10.5	6.35	3.18	2.85	0.5	10 pcs.				**102**		**103**		**110**
APKT1003 PDFR-R04	10.5	6.35	3.18	2.85	0.5	10 pcs.		**201**						
APHX160404 FR-ALU	17.0	9.52	4.76	4.40	0.4	10 pcs.		**104**						
APKT1604 PDER-S	17.0	9.52	4.76	4.40	0.8	10 pcs.				**105**		**106**		**111**
APKT1604 PDFR-R04	17.0	9.52	4.76	4.40	0.8	10 pcs.		**204**						

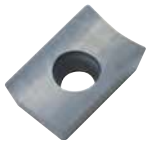
17810 - 17811 Indexable milling inserts, APKT

Design
- **Square**
- Positive 11°

17811
Design
- With sintered chip breaker



17810



17811

Applications Carbide type Coating							N H 25/Al Uncoated		PM H 55 TiAlN+TiN	
ISO designation	l mm	d mm	s mm	d_1 mm	r		17810	...	17811	...
APKT1003	10.5	6.35	3.18	2.85	0.5	10 pcs.		**101**		
APKT1003 PDFR	10.5	6.35	3.18	2.85	0.5	10 pcs.				**101**
APKT1604 PD	17.0	9.52	4.76	4.40	0.8	10 pcs.		**104**		
APKT1604 PDFR	17.0	9.52	4.76	4.40	0.8	10 pcs.				**102**

17550 - 17553 High performance angular milling cutters

ATORN®

Design
- Milling jig with uneven pitch
- The latest generation of high-performance angular milling cutters
- With geometry that reduces cutting forces
- **Precise 90° angular milling**
- Internal coolant feed

Advantage:
- Maximum smoothness with low power consumption
- Large selection of basic bodies and milling inserts
- Indexable inserts in four sizes with different corner radii
- Maximum precision
- High cutting performance
- Positive cutting geometry for a soft cut

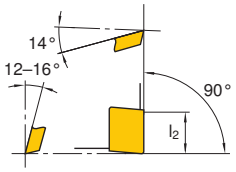
Applications
Ideally suited for almost any milling work even with **unstable conditions and low-performance machines.**

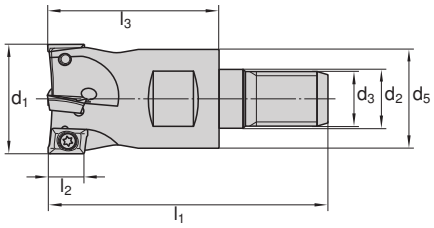
Indexable inserts
ADKX — precision-sintered milling inserts
ADHX — precision-ground milling inserts

Screw-in milling cutters for insert size 06

Applications
For milling inserts AD.X 06..

17550 101-103



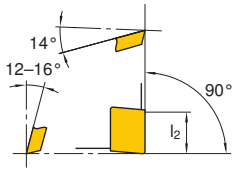


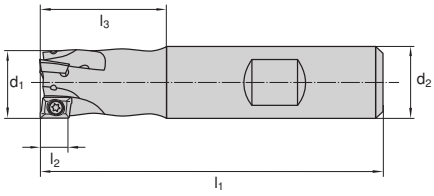
d_1 mm	l_2 mm	l_1 mm	l_3 mm	d_5 mm	d_3 mm	d_2 mm	Z	Indexable inserts	17550 ...
12	5.5	45	28	13	M 8	8.5	2	AD.X 06...	101
16	5.5	45	28	13	M 8	8.5	3	AD.X 06...	102
20	5.5	49	30	18	M 10	10.5	4	AD.X 06...	103

End mills for insert size 06

Applications
For milling inserts AD.X 06..

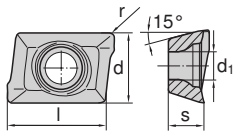
17550 110-114





d_1 mm	l_2 mm	l_1 mm	l_3 mm	d_2 mm	Z	Indexable inserts	17550 ...
10	5.5	60	20	10	1	AD.X 06...	110
12	5.5	70	25	12	2	AD.X 06...	111
16	5.5	76	28	16	3	AD.X 06...	112
20	5.5	86	36	20	4	AD.X 06...	113
25	5.5	86	36	20	6	AD.X 06...	114

Indexable inserts AD.X 06... and spare parts



17550 FR-ALC

17550 SR

Applications Carbide type Coating						N K P HC 4410 Coated		N HW 4410 Uncoated		P M K HC 4640 Coated	
ISO designation	l mm	d mm	s mm	d_1 mm	r mm	17550	...	17550	...	17550	...
ADHX 060202 FR-ALC	6.35	4.76	2.38	2.0	0.2		201		211		
ADKX 060202 SR	6.35	4.76	2.38	2.0	0.2		202				221
ADKX 060204 SR	6.35	4.76	2.38	2.0	0.4		203				222

		Clamping screw		Wrench	
Spare parts For indexable insert	TX size T	17550	...	52529	...
AD.X 06...	6		130		401

Continued

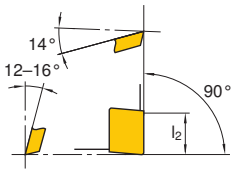
= The specified prices are unit prices. Only sold in the specified packing units. Always specify number of units in order information.

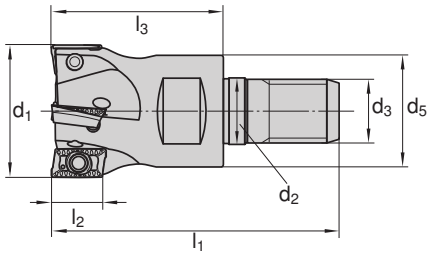
Continued

Screw-in milling cutters for insert size 09

Applications
For milling inserts AD.X 09..

17551 101-103



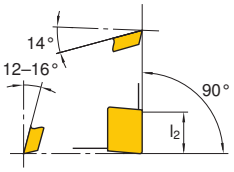


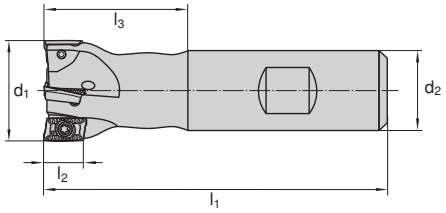
d_1 mm	l_2 mm	l_1 mm	l_3 mm	d_5 mm	d_3 mm	d_2 mm	Z	Indexable inserts	17551 ...
20	8.5	49	30	18	M 10	10.5	3	AD.X 09...	**101**
25	8.5	55	33	21	M 12	12.5	4	AD.X 09...	**102**
32	8.5	67	43	29	M 16	17.0	6	AD.X 09...	**103**

End mills for insert size 09

Applications
For milling inserts AD.X 09..

17551 110-115

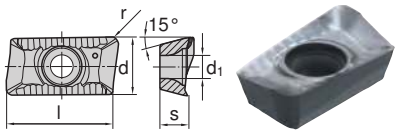




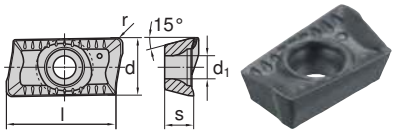
d_1 mm	l_2 mm	l_1 mm	l_3 mm	d_2 mm	Z	Indexable inserts	17551 ...
16	8.5	76	28	16	2	AD.X 09...	**110**
20	8.5	86	36	20	3	AD.X 09...	**111**
20	8.5	86	36	20	**4**	AD.X 09...	**112**
25	8.5	86	36	20	4	AD.X 09...	**113**
25	8.5	86	36	20	**5**	AD.X 09...	**114**
32	8.5	86	40	25	6	AD.X 09...	**115**

Indexable inserts AD.X 09... and spare parts

17551 **FR-ALC**



17551 **SR-TR**



Applications Carbide type Coating						NKP HC 4410 Coated		N HW 4410 Uncoated		PMK HC 4640 Coated		M HC 4540 Coated		M HC 4544 Coated	
ISO designation	l mm	d mm	s mm	d_1 mm	r mm	17551	...	17551	...	17551	...	17551	...	17551	...
ADHX 090308 FR-ALC	9.52	5.56	3.18	2.8	0.8		**201**		**211**						
ADHX 090312 FR-ALC	9.52	5.56	3.18	2.8	1.2		**202**		**212**						
ADKX 090304 SR-TR	9.52	5.56	3.18	2.8	0.4		**203**				**221**				
ADKX 090308 SR-TR	9.52	5.56	3.18	2.8	0.8		**204**				**222**		**231**		**241**
ADKX 090312 SR-TR	9.52	5.56	3.18	2.8	1.2		**205**				**223**		**232**		**242**
ADKX 090316 SR-TR	9.52	5.56	3.18	2.8	1.6		**206**				**224**		**233**		**243**

		Clamping screw		Wrench	
Spare parts For indexable insert	**TX size T**	17551	...	52529	...
AD.X 09...	8		**130**		**403**

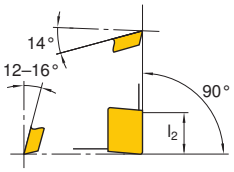
Continued

17550 - 17553 High performance angular milling cutters

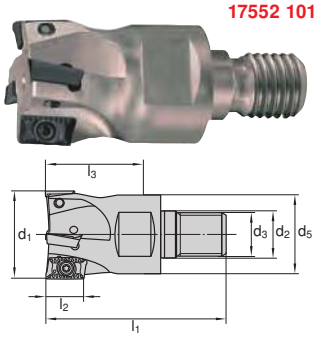
Continued

Screw-in milling cutters for insert size 12

Applications
For milling inserts AD.X 12..



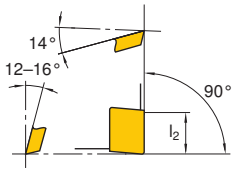
17552 101-102



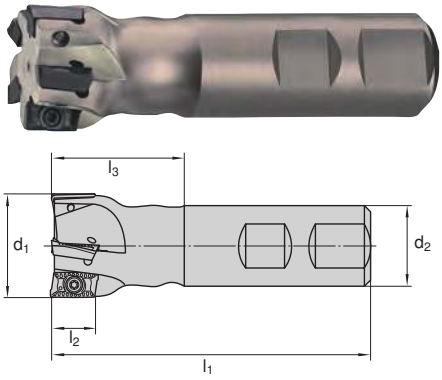
d_1 mm	l_2 mm	l_1 mm	l_3 mm	d_5 mm	d_3 mm	d_2 mm	Z	Indexable inserts	17552 ...
32	12	67	43	29	M 16	17	4	AD.X 12...	101
40	12	67	43	29	M 16	17	6	AD.X 12...	102

End mills for insert size 12

Applications
For milling inserts AD.X 12..



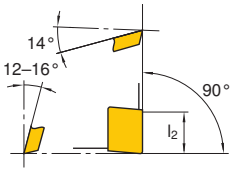
17552 110-114



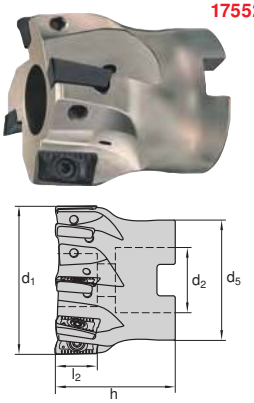
d_1 mm	l_2 mm	l_1 mm	l_3 mm	d_2 mm	Z	Indexable inserts	17552 ...
20	12	86	36	20	2	AD.X 12...	110
25	12	86	36	20	3	AD.X 12...	111
32	12	96	40	25	4	AD.X 12...	112
32	12	96	40	25	**5**	AD.X 12...	113
40	12	110	50	32	6	AD.X 12...	114

Cutters with bore for insert size 12

Applications
For milling inserts AD.X 12..



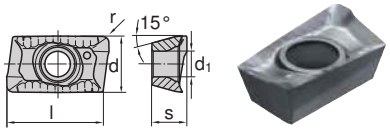
17552 120-125



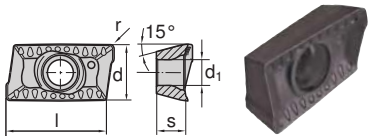
d_1 mm	l_2 mm	h mm	d_5 mm	d_2 mm	Z	Indexable inserts	17552 ...
40	12	40	32	16	4	AD.X 12...	120
40	12	40	32	16	**6**	AD.X 12...	121
50	12	40	40	22	5	AD.X 12...	122
50	12	40	40	22	**7**	AD.X 12...	123
63	12	40	50	22	6	AD.X 12...	124
63	12	40	50	22	**9**	AD.X 12...	125

Indexable inserts AD.X 12... and spare parts

17552 **FR-ALC**



17552 **SR-TR**



Applications							N K P		N		P M K		M		M	
Carbide type							HC 4410		HW 4410		HC 4640		HC 4540		HC 4544	
Coating							Coated		Uncoated		Coated		Coated		Coated	
ISO designation	l mm	d mm	s mm	d_1 mm	r mm		17552	...	17552	...	17552	...	17552	...	17552	...
ADHX 120408 FR-ALC	12.7	7.4	4.76	3.4	0.8			201		211						
ADHX 120412 FR-ALC	12.7	7.4	4.76	3.4	1.2			202		212						
ADHX 120416 FR-ALC	12.7	7.4	4.76	3.4	1.6			203		213						
ADKX 120408 SR-TR	12.7	7.4	4.76	3.4	0.8			204				221		231		241
ADKX 120412 SR-TR	12.7	7.4	4.76	3.4	1.2			205				222		232		242
ADKX 120416 SR-TR	12.7	7.4	4.76	3.4	1.6			206				223		233		243
ADKX 120420 SR-TR	12.7	7.4	4.76	3.4	2.0			207				224				

		Clamping screw		Wrench	
Spare parts For indexable insert	TX size T	17552	...	52529	...
AD.X 12...	8		130		403

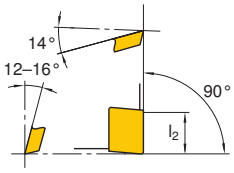
Continued

= The specified prices are unit prices. Only sold in the specified packing units. Always specify number of units in order information.

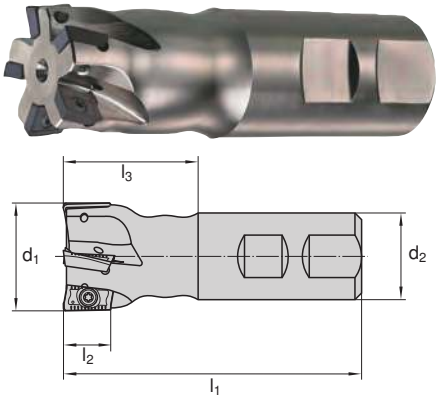
Continued

End mills for insert size 17

Applications
For milling inserts AD.X 17..



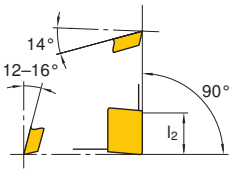
17553 110-112



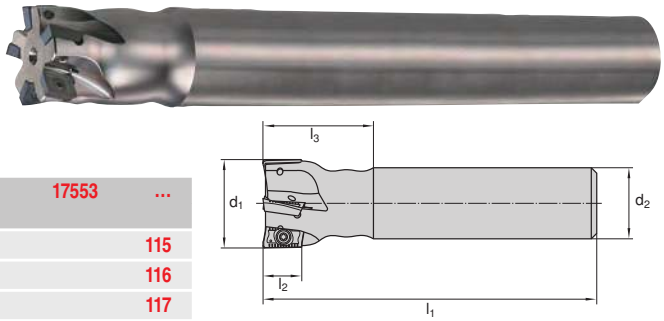
d_1 mm	l_2 mm	l_1 mm	l_3 mm	d_2 mm	Z	Indexable inserts	17553	...
25	16.5	96	40	25	2	AD.X 17...		110
32	16.5	110	50	32	3	AD.X 17...		111
40	16.5	110	50	32	4	AD.X 17...		112

End mills, long, for insert size 17

Applications
For milling inserts AD.X 17..



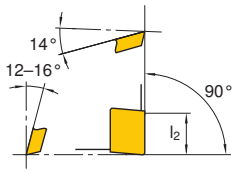
17553 115-117



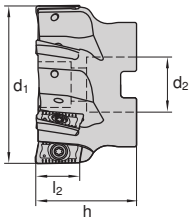
d_1 mm	l_2 mm	l_1 mm	l_3 mm	d_2 mm	Z	Indexable inserts	17553	...
25	16.5	200	40	25	2	AD.X 17...		115
32	16.5	250	50	32	3	AD.X 17...		116
40	16.5	250	50	32	4	AD.X 17...		117

Cutters with bore for insert size 17

Applications
For milling inserts AD.X 17..

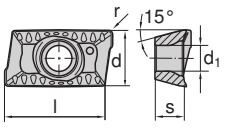


17553 120-124

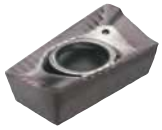


d_1 mm	H mm	d_2 mm	l_2 mm	Z	Indexable inserts	17553	...
40	36	16	16.5	4	AD.X 17...		120
50	40	22	16.5	5	AD.X 17...		121
63	40	22	16.5	6	AD.X 17...		122
80	50	27	16.5	8	AD.X 17...		123
100	50	32	16.5	9	AD.X 17...		124

Indexable inserts AD.X 17... and spare parts



17553 FR-ALC



17553 SR-TR

Applications		N K P		N		P M K		M		M		P K	
Carbide type		HC 4410		HW 4410		HC 4640		HC 4540		HC 4544		HC 4430	
Coating		Coated		Uncoated		Coated		Coated		Coated		Coated	
ISO designation	r mm	17553	...	17553	...	17553	...	17553	...	17553	...	17553	...
ADHX 170508 FR-ALC	0.8		201		211								
ADHX 170512 FR-ALC	1.2		202		212								
ADHX 170516 FR-ALC	1.6		203		213								
ADKX 170508 SR-TR	0.8		204				221						251
ADKX 170512 SR-TR	1.2		205				222		232		242		252
ADKX 170516 SR-TR	1.6		206				223		233		243		253
ADKX 170520 SR-TR	2.0		207				224		234		244		254

								Clamping screw		Wrench	
Spare parts For indexable insert	TX size T							17553	...	52529	...
AD.X 17...	8								130		403

Info — 17556 - 17557 - tangential angular milling cutters

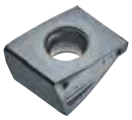
ATORN®

The tangential indexable insert milling system with 4 and 8 cutting edges has been developed for roughing and semi-finishing operations on steel and cast iron. The programme includes supports with diameters ranging from 50 to 160 mm and indexable inserts with cutting depths to 11.5 mm.

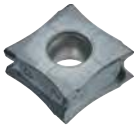
Tangential installation position for process reliability
The tangential installation position of the indexable inserts offers several characteristic features. The favourable ratio between the supporting surface and the clamping force provides maximum stability. Even at a high cutting performance, the tools make the process extremely reliable.

Profitability through good machining properties
The robust indexable inserts have a positive chip angle resulting in excellent cutting behaviour and low power consumption for the machine. This greatly increases the service life of the cutting edge, which has a direct and positive impact on the tool costs.

Cost savings through cycle time reduction
The ratio of the tool diameter to the number of teeth, combined with the high feed rates that are possible, enables huge material removal rates. This means much shorter cycle times are achieved, which significantly reduces the overall process costs or the cost per part.

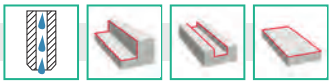


- 4-edged indexable insert for stable processes
- Feed depth to max. ap 11.5 mm
- Stable geometry for a wide range of applications



- 8-edged indexable insert for excellent cost efficiency
- Feed depth to max. ap 10 mm
- Soft cutting geometry for reduced chipping forces

17556 — Tangential angular milling cutters, 90° LNMU 1306



ATORN®

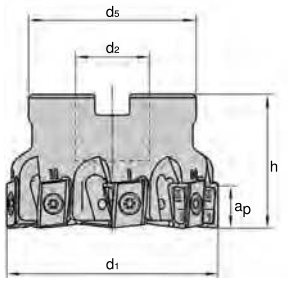
Design
- Angular milling cutter with tangentially arranged indexable inserts and 4 usable cutting edges
- Wear-resistant, nickel-plated version
- With internal cooling up to Ø 125 mm

Advantage:
- Cutting depth down to 11.5 mm

Note:
For clamping screws see art. no. 17557 501.

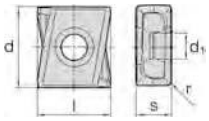
17556 101-112

Ø d_1 mm	h mm	d_2 mm	d_5 mm	ap mm	Z	Indexable inserts	17556 ...
50	40	22	40	11.5	4	LNMU 1306	101
50	40	22	40	11.5	6	LNMU 1306	102
63	40	22	50	11.5	6	LNMU 1306	103
63	40	22	50	11.5	8	LNMU 1306	104
80	50	27	60	11.5	8	LNMU 1306	105
80	50	27	60	11.5	10	LNMU 1306	106
100	50	32	65	11.5	10	LNMU 1306	107
100	50	32	65	11.5	12	LNMU 1306	108
125	63	40	90	11.5	12	LNMU 1306	109
125	63	40	90	11.5	16	LNMU 1306	110
160	63	40	130	11.5	14	LNMU 1306	111
160	63	40	130	11.5	20	LNMU 1306	112

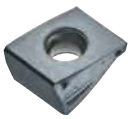


Indexable inserts

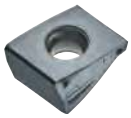
17556 201-221
Design
- 4-edged indexable insert for stable processes
- Feed depth to max. ap 11.5 mm
- Stable geometry for a wide range of applications



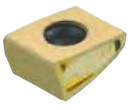
17556 201



17556 211



17556 221



Applications						K	P K	P
Cemented carbide grade						HC 4420	HC 4430	HC 4640
Coating						coated	coated	coated
ISO designation	l mm	d mm	s mm	d_1 mm	r mm	17556 ...	17556 ...	17556 ...
LNMU 1306 SR	13.5	12.4	6	4.4	0.8	201	211	221

= The specified prices are unit prices. Only sold in the specified packing units. Always specify number of units in order information.

ATORN®

Design
- Angular milling cutter with tangentially arranged indexable inserts and 8 usable cutting edges
- Wear-resistant, nickel-plated version

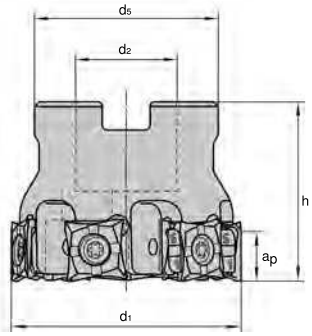
Advantage:
- Cutting depth down to 10 mm

Note:
For clamping screws see art. no. 17557 501.

17557 101-110
Design
- With internal cooling

NEW

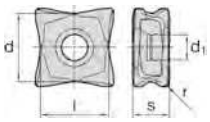
17557 101-112



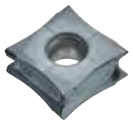
Ø d_1 mm	h mm	d_2 mm	d_5 mm	ap mm	Z	Indexable inserts	17557 ...
50	40	22	40	10	5	XNMU 1206	**101**
50	40	22	40	10	6	XNMU 1206	**102**
63	40	22	50	10	6	XNMU 1206	**103**
63	40	22	50	10	8	XNMU 1206	**104**
80	50	27	60	10	8	XNMU 1206	**105**
80	50	27	60	10	10	XNMU 1206	**106**
100	50	32	65	10	9	XNMU 1206	**107**
100	50	32	65	10	12	XNMU 1206	**108**
125	63	40	90	10	11	XNMU 1206	**109**
125	63	40	90	10	16	XNMU 1206	**110**
160	63	40	130	10	13	XNMU 1206	**111**
160	63	40	130	10	20	XNMU 1206	**112**

Indexable inserts and spare parts

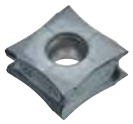
17557 201-221
Design
- 8-edged indexable insert for excellent cost efficiency
- Feed depth to max. ap 10 mm
- Soft cutting geometry for reduced chipping forces



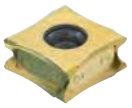
17557 201



17557 211



17557 221



Applications						K	PK	P
Cemented carbide grade						HC 4420	HC 4430	HC 4640
Coating						coated	coated	coated
ISO designation	l mm	d mm	s mm	d_1 mm	r mm	17557 ...	17557 ...	17557 ...
XNMU 1206 SR	12	12	6.35	4.4	0.8	**201**	**211**	**221**

Spare parts		Clamping screw		Wrench	
Size	TX size T	17557	...	52529	...
M 4 x 11.0	15		**501**		**406**

17558 Angular milling cutter 90°

ATORN®

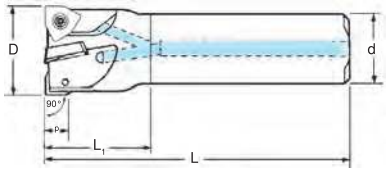
Design
- Wear-resistant, nickel-plated version
- Positive structural design of indexable insert
- Precise 90° angular milling
- Special chip breaker geometry for minimal power consumption
- Double-sided indexable insert with 6 cutting edges per indexable insert, therefore particularly cost-effective
- Substantial insert thickness for optimum process reliability with optimised plane cutting edge for high surface quality
- Internal coolant feed

Scope of delivery:
- Clamping screw and wrench
- Without indexable inserts

NEW

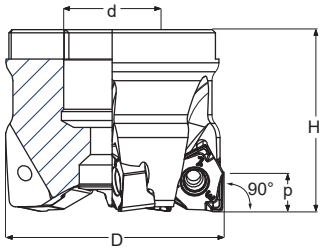
DIN 1835 B

17558 101-106



17558 120-122

Ø D mm	Ø d mm	L mm	L_1 mm	p mm	Z	Indexable inserts	17558 ...
20	20	100	40	4	3	WNEU 0403..	101
20	20	150	40	4	3	WNEU 0403..	102
25	25	115	44	4	4	WNEU 0403..	103
25	25	170	50	4	4	WNEU 0403..	104
32	32	125	50	4	5	WNEU 0403..	105
32	32	195	35	4	15	WNEU 0403..	106



Ø D mm	Ø d mm	H mm	p mm	Z	Indexable inserts	17558 ...
32	16	40	4	6	WNEU 0403..	120
40	16	40	4	6	WNEU 0403..	121
50	22	40	4	6	WNEU 0403..	122

17558 130-135

Ø D mm	Ø d mm	H mm	p mm	Z	Indexable inserts	17558 ...
50	22	40	7	5	WNEU/WNEX 0806..	130
63	22	40	7	6	WNEU/WNEX 0806..	131
80	27	50	7	7	WNEU/WNEX 0806..	132
100	32	50	7	8	WNEU/WNEX 0806..	133
125	40	63	7	10	WNEU/WNEX 0806..	134
160	40	63	7	11	WNEU/WNEX 0806..	135

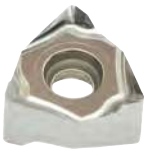
Indexable inserts and spare parts

17558 201-202 + 301-302 + 401-402

17558 203+303+403

17558 404

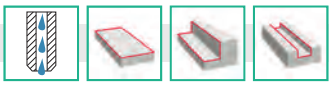
17558 501



Applications Carbide type Coating				P M K HC 4430 Coated		P K HC 4620 Coated		P M HC 4630 Coated		N HW 4415 Uncoated	
ISO designation	l mm	s mm	r mm	17558	...	17558	...	17558	...	17558	...
WNEU 040304-M	4.0	3.30	0.4		201		301		401		
WNEU 040308-M	4.0	3.30	0.8		202		302		402		
WNEU 080608-M	7.5	6.56	0.8		203		303		403		
WNEU 080608-MM	7.5	6.56	0.8						404		
WNEX 080608	7.5	6.56	0.8								501

Spare parts			Clamping screw		Wrench	
For indexable inserts size	Screw	TX size T	17558	...	52529	...
WNEU 04..	M 2.5 x 5.5	8		601		403
WNE. 08..	M 4.0 x 12.0	15		602		406

= The specified prices are unit prices. Only sold in the specified packing units. Always specify number of units in order information.

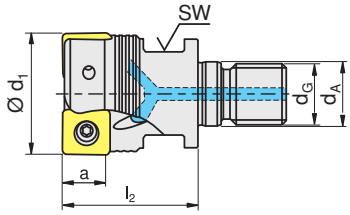


CUTTING SOLUTIONS BY CERATIZIT

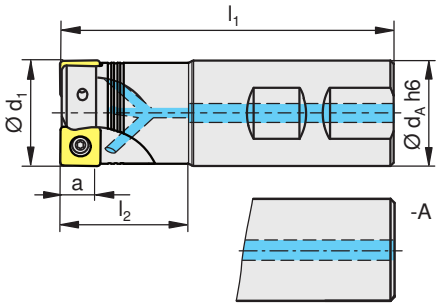
Advantage:
- Patented system
- Exact 90° profile with 8 usable cutting edges per indexable insert
- Ground precision indexable insert in the H tolerance range
- Soft cut with low power consumption
- Perfect surface quality
- Holders available in metric and inch sizes
- For universal use (e.g. face milling, angular milling, trimming, slot milling, trochoidal groove milling)
- Tools with irregular pitch for perfect running smoothness during the milling process
- Smooth running is a great advantage, especially for low-performance machines or thin-walled, fragile components
- Optimum chip removal
- Perfectly adapted chip spaces
- Cooling takes place directly at the cutting edge and is suitable for emulsion, MMS and compressed air
- Innovative insert design with generous contact surfaces for maximum repeat accuracy
- Quick and easy insert assembly
- TX Plus clamping screws
- Milled coolant bore suitable for MMS, emulsion and compressed air
- The range includes tools with narrow or wide pitch
- Durable basic body with new base material and Hard & Tough coating

Great benefits:
- Enormous profitability in terms of price per cutting edge for 90° angular milling
- Exact 90° profile
- Perfect axial and radial runout accuracy
- Also ideally suited to low-performance machines
- The cutter is quickly and easily equipped

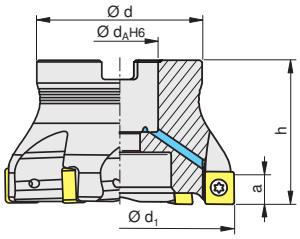
17681 201



17680 201-202



17682 201-214



with thread

Ø d_1 mm	Designation	Z mm	l_2 mm	a mm	Ø dA mm	Ø dG mm	max. rpm	Indexable inserts	17681	...
32	G491.32.R.02-12	2	35	8	17	16	13,600	SN..12..		201

with shank

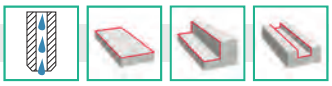
Ø d_1 mm	Designation	Z mm	l_2 mm	Ø dA mm	a mm	max. rpm	Indexable inserts	17680	...
32	C491.32.R.02-12-B-40	2	102	32	8	13,600	SN..12..		201
32	C491.32.R.02-12-A-63-250	2	250	32	8	10,200	SN..12..		202

with bore

Ø d_1 mm	Designation	Z mm	h mm	Ø d mm	Ø dA mm	a mm	max. rpm	Indexable inserts	17682	...
40	A491.40.R.03-12	3	40	38	16	8	11,500	SN..12..		201
40	A491.40.R.04-12	4	40	38	16	8	11,500	SN..12..		202
50	A491.50.R.04-12	4	40	43	22	8	9,800	SN..12..		203
50	A491.50.R.05-12	5	40	43	22	8	9,800	SN..12..		204
63	A491.63.R.05-12	5	40	48	22	8	8,500	SN..12..		205
63	A491.63.R.06-12	6	40	48	22	8	8,500	SN..12..		206
80	A491.80.R.06-12	6	50	58	27	8	7,400	SN..12..		207
80	A491.80.R.08-12	8	50	58	27	8	7,400	SN..12..		208
100	A491.100.R.07-12	7	50	78	32	8	6,500	SN..12..		209
100	A491.100.R.10-12	10	50	78	32	8	6,500	SN..12..		210
125	A491.125.R.08-12	8	63	88	40	8	5,700	SN..12..		211
125	A491.125.R.12-12	12	63	88	40	8	5,700	SN..12..		212
160	A491.160.R.09-12	9	63	98	40	8	5,000	SN..12..		213
160	A491.160.R.14-12	14	63	98	40	8	5,000	SN..12..		214

Continued

17680 - 17685 Angular/slot milling cutters, MaxiMill 491



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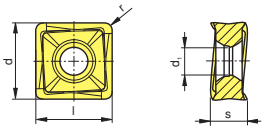

			17685 101		17685 102			17685 103-105				17685 106-107			
															
Applications			K N		P M		P M K	P M		P M		K		K	
Carbide type			CTWN215		CTPM240		CTCP230	CTPM240		CTPP235		CTCK215		CTPK220	
Coating			Uncoated		Coated		Coated	Coated		Coated		Coated		Coated	
Chip breaker			-F10		-F50		-M50	-M50		-M50		-R50		-R50	
Designation	**r mm**		17685	...	17685	...	17685 ...	17685	...	17685	...	17685	...	17685	...
SNHU 120408FR-F10	0.8	10 pcs.		101											
SNHU 120408SR-F50	0.8	10 pcs.				102									
SNHU 120408SR-M50	0.8	10 pcs.					103								
SNHU 120408SR-M50	0.8	10 pcs.						104							
SNHU 120408SR-M50	0.8	10 pcs.								105					
SNHU 120408SR-R50	0.8	10 pcs.										106			
SNHU 120408SR-R50	0.8	10 pcs.													107

Clamping screw	**Wrench**	**l_1 mm**	**d mm**											**17998**	...
M 3.5 x 8.6	IP 15	4.8	5.2												**103**

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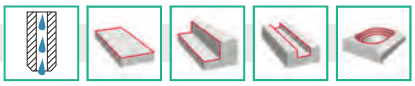


CUTTING SOLUTIONS BY CERATIZIT

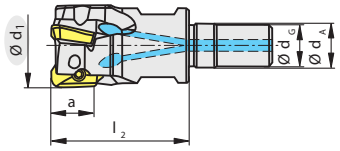
17882

Design
- Sturdy basic body made from tool steel with Hard & Tough coating
- Coolant bore also suitable for MMS
- Precise contact surfaces and exact positioning of the indexable insert

Advantage:
- Soft cut

Scope of delivery:
- Basic body with clamping screws
- **Without** indexable inserts

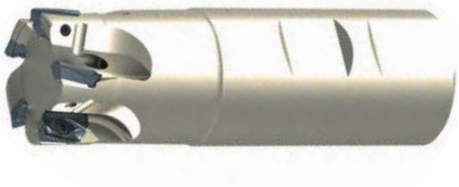
17882 102-106

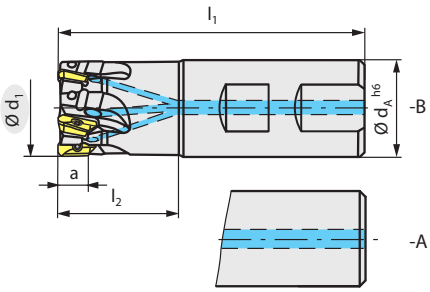


with thread

Ø d_1 mm	Designation	Z	l_2 mm	a mm	Ø d_A mm	Ø d_G mm	Indexable inserts	17882	...
20	G211.20.R.03-11	3	33	10	10.5	10	XD.. 11..		102
25	G211.25.R.03-11	3	34	10	12.5	12	XD.. 11..		103
25	G211.25.R.04-11	4	35	10	12.5	12	XD.. 11..		104
32	G211.32.R.04-11	4	36	10	17.0	16	XD.. 11..		105
32	G211.32.R.05-11	5	37	10	17.0	16	XD.. 11..		106

17882 201-224

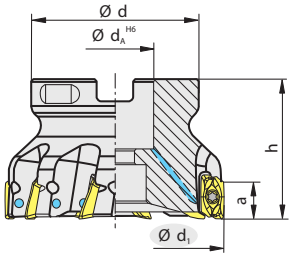




with shank

Ø d_1 mm	Designation	Z	l_1 mm	l_2 mm	Ø d_A mm	a mm	Indexable inserts	17882	...
12	C211.12.R.01-11-B-20	1	75	20	16	10	XD.. 11..		201
16	C211.16.R.02-11-A15-32-165	2	165	32	15	10	XD.. 11..		202
16	C211.16.R.02-11-A-25	2	75	25	16	10	XD.. 11..		203
16	C211.16.R.02-11-A-32-165	2	165	32	16	10	XD.. 11..		204
16	C211.16.R.02-11-B-25	2	75	25	16	10	XD.. 11..		205
20	C211.20.R.02-11-A19-40-200	2	200	40	19	10	XD.. 11..		206
20	C211.20.R.02-11-A-25	2	77	25	20	10	XD.. 11..		207
20	C211.20.R.02-11-A-40-200	2	200	40	20	10	XD.. 11..		208
20	C211.20.R.02-11-B-25	2	77	25	20	10	XD.. 11..		209
20	C211.20.R.03-11-A-25	3	77	25	20	10	XD.. 11..		210
20	C211.20.R.03-11-A-32-165	3	165	32	20	10	XD.. 11..		211
20	C211.20.R.03-11-B-25	3	77	25	20	10	XD.. 11..		212
25	C211.25.R.02-11-A-50-225	2	225	50	25	10	XD.. 11..		213
25	C211.25.R.03-11-A24-50-225	3	225	50	24	10	XD.. 11..		214
25	C211.25.R.03-11-A-32	3	90	32	25	10	XD.. 11..		215
25	C211.25.R.03-11-A-50-225	3	225	50	25	10	XD.. 11..		216
25	C211.25.R.03-11-B-32	3	90	32	25	10	XD.. 11..		217
25	C211.25.R.04-11-A-32	4	90	32	25	10	XD.. 11..		218
25	C211.25.R.04-11-A-40-165	4	165	40	25	10	XD.. 11..		219
25	C211.25.R.04-11-B-32	4	90	32	25	10	XD.. 11..		220
32	C211.32.R.04-11-B-40	4	102	40	32	10	XD.. 11..		221
32	C211.32.R.05-11-B25-40	5	102	40	25	10	XD.. 11..		222
32	C211.32.R.05-11-B-40	5	102	40	32	10	XD.. 11..		223
40	C211.40.R.06-11-B-50	6	122	50	40	10	XD.. 11..		224

17882 301-312

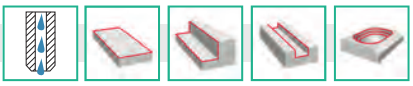


with bore

Ø d_1 mm	Designation	Z	h mm	Ø d mm	Ø d_A mm	a mm	Indexable inserts	17882	...
40	A211.40.R.04-11	4	40	38	16	10	XD.. 11..		301
40	A211.40.R.06-11	6	40	38	16	10	XD.. 11..		302
50	A211.50.R.05-11	5	40	43	22	10	XD.. 11..		303
50	A211.50.R.08-11	8	40	43	22	10	XD.. 11..		304
63	A211.63.R.06-11	6	40	48	22	10	XD.. 11..		305
63	A211.63.R.10-11	10	40	48	22	10	XD.. 11..		306
80	A211.80.R.07-11	7	50	58	27	10	XD.. 11..		307
80	A211.80.R.10-11	10	50	58	27	10	XD.. 11..		308
100	A211.100.R.08-11	8	50	78	32	10	XD.. 11..		310
125	A211.125.R.10-11	10	63	88	40	10	XD.. 11..		312

Continued

17882 - 17884 Angular/slot milling cutter system, MaxiMill 211-11



Continued ▶

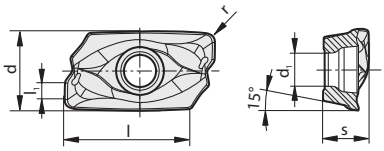
17884
Indexable inserts
Design
The notch makes the difference:
Up to WP radius 1.6 mm, the notch enables smooth, vibration-free operation, higher stability during plunge milling and improved machining performance. The radial forces during plunge milling are compensated.

Applications
Chip breaker F20:
- Very good cutting efficiency, finishing of non-ferrous metals

Chip breaker F50:
- Chamfered indexable insert, very good cutting efficiency, finishing of steel, stainless steel and cast iron even under unstable conditions

Chip breaker M50:
- For universal use, compromise between cutting efficiency and stability, for medium machining of steel, stainless steel and cast iron

17884



17884 101-103

17884 104-106

17884 107-109

Applications								N		P		M	
Cemented carbide type								CTWN215		CTPP235		CTPM240	
Coating								uncoated		PVD		PVD	
Chip breaker								F20		F50		M50	
Designation	**d** mm	**l** mm	**s** mm	**l_1** mm	**r** mm	**d_1** mm		17884	...	17884	...	17884	...
XDKT 11T304FR-F20	6.8	10.6	3.8	1.8	0.4	2.8	10 pcs.		101				
XDKT 11T308FR-F20	6.8	10.6	3.8	1.4	0.8	2.8	10 pcs.		102				
XDKT 11T3020FR-F20	6.8	10.6	3.8	1.7	2.0	2.8	10 pcs.		103				
XDKT 11T304SR-F50	6.8	10.6	3.8	1.8	0.4	2.8	10 pcs.				104		
XDKT 11T308SR-F50	6.8	10.6	3.8	1.4	0.8	2.8	10 pcs.				105		
XDKT 11T320SR-F50	6.8	10.6	3.8	2.1	2.0	2.8	10 pcs.				106		
XDKT 11T308SR-M50	6.8	10.6	3.8	1.4	0.8	2.8	10 pcs.						107
XDKT 11T312SR-M50	6.8	10.6	3.8	1.0	1.2	2.8	10 pcs.						108
XDKT 11T320SR-M50	6.8	10.6	3.8	2.1	2.0	2.8	10 pcs.						109

Spare parts			Clamping screw 10		Wrench	
for Ø d_1 mm	**Clamping screw**	**Wrench**	17999	...	51932	...
12	M 2.5 x 5.0	IP 8		123		404
15.7–32	M 2.5 x 5.6	IP 8		124		404
40–160	M 2.5 x 7.3	IP 8		125		404

		Power screw	
For cutters with bore Ø d_1 mm	**Power screw**	17998	...
40	M 8 x 30.0		101
50	M 10 x 31.0		102

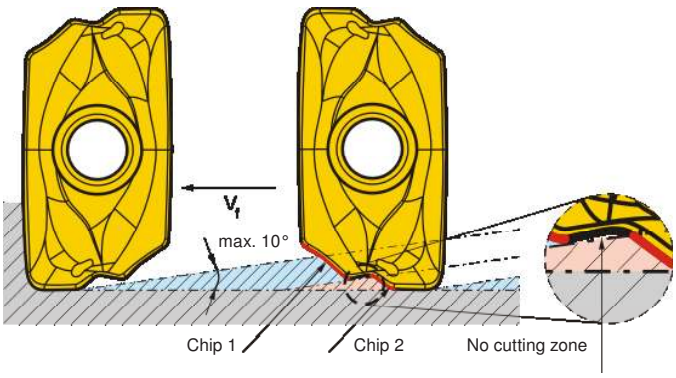
Info MaxiMill 211-11

Active principle by "the notch" during circular and oblique immersion: (r < 2.0 mm)

Radial force compensation
- The notch provides additional stability during immersion.
- Smooth running and vibration-free operation are thus guaranteed to a large extent.

Chip division
- Low cutting pressure
- Low power consumption
- Optimal chip transport
- Minimal vibrations
- Very good chip formation

The PLUS for professional machinists:
- Higher cutting performance
- Better surfaces when milling closed grooves and pockets



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17742 Angular milling cutter 90°

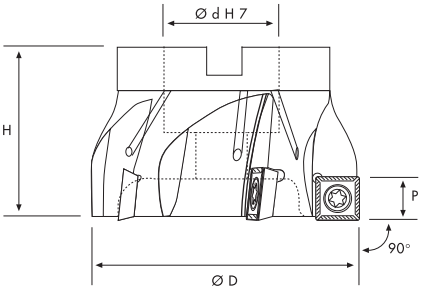
ATORN®

Design
- Positive
- Right cutting
- **Without** indexable inserts
- Insert design with four cutting edges per insert
- Cutting depths up to a maximum of 10.5 mm

Applications
For carbide indexable inserts SD.T 1205.. For general corner and face milling, suitable for use near the clamping device. Core drilling via circular interpolation.

Note:
For cemented carbide indexable inserts SD.T 1205.. see art. no. 17833.

17742



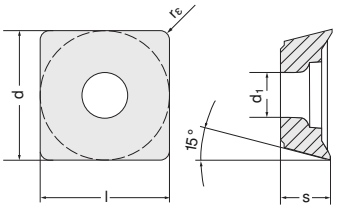
Ø D mm	Ø d H7 mm	H mm	P mm	Z	Indexable inserts	17742	...
40	16	45	10.5	4	SD.T 1205 ..		**100**
50	22	40	10.5	5	SD.T 1205 ..		**101**
63	22	40	10.5	6	SD.T 1205 ..		**102**
80	27	50	10.5	6	SD.T 1205 ..		**103**
100	32	50	10.5	8	SD.T 1205 ..		**104**
125	40	63	10.5	9	SD.T 1205 ..		**105**

Spare parts			Clamping screw 10		Wrench	
For indexable inserts size	**Clamping screw type**	**TX size T**	**17744**	**...**	**52529**	**...**
SD.T 1205..	**VT 40 710**	15		**101**		**406**

17833 Indexable milling insert, SDMT

ATORN®

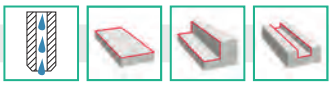
Design
- Square
- Positive 15°



17833

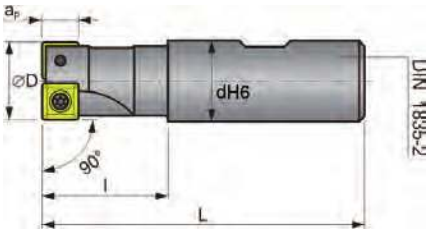
Applications							
Carbide type						**P M**	
Coating						**P 25**	
						TiAlN	
ISO designation	**d+l mm**	**s mm**	**d_1 mm**	**r**		**17833**	**...**
SDMT 1205 PDR69	12.7	5.00	4.40	0.8	10 pcs.		**101**

17662 Angular milling cutter 90°



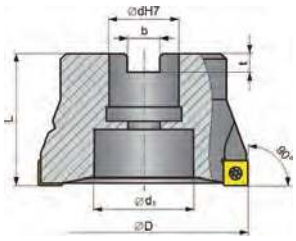
Design
- Nickel-plated milling body made of hardened special steel **for precise 90° cuts**
- **Extremely soft cut**

Applications
Universal use for light to medium machining. **Very good surface** thanks to optimised face cutting. For indexable inserts SOMT 09T304.



17662 101-103

Cutting edge Ø mm	No. of cutting edges	Overall length mm	Shank Ø mm	Working depth L2 mm	with shank 17662	...
20	2	82	20	32		**101**
25	3	98	25	42		**102**
32	4	102	32	42		**103**

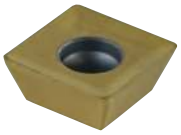


17662 120-122

Cutting edge Ø mm	No. of cutting edges	Overall length mm	Location hole mm	with bore 17662	...
40	5	40	16		**120**
50	6	40	22		**121**
63	7	40	22		**122**

Indexable inserts and spare parts

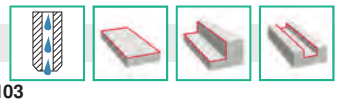
17662 301-304



Indexable inserts		Steel		Steel roughing		UNI - soft cut		VA - soft cut	
Designation	**Carbide type/ coating**	**17662**	**...**	**17662**	**...**	**17662**	**...**	**17662**	**...**
SOMT 09T304	P30/TiN		**301**				**303**		
SOMT 09T304	P40/TiN				**302**				**304**

Spare parts		Clamping screw		Wrench	
For indexable inserts size	**TX size T**	**17662**	**...**	**52529**	**...**
SOMT 09T304	9		**200**		**404**

Angular milling cutters (4-10/4-15 Power)



ATORN®

Design
- Internal coolant feed
- Multifunctional milling tool system with 4 cutting edges on a double-sided indexable insert
- Long tool life due to low cutting forces. Despite the strong cutting edge, the special chip shape geometry enables low power consumption due to the large chip angle
- Special chip geometry guarantees consistently high tool life due to the new carbide types
- Nickel-plated design offers greater protection against wear and a longer service life of the basic body

Use
For face milling, corner milling, trimming and groove milling.

17735 201-203
Screw-in milling cutter
Applications
For the use of ISO indexable milling inserts LN.X 100605 PNR art. no. 17738.

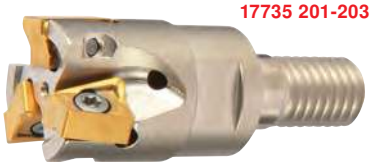
17735 101-103
End mill, 4-10 Power
Applications
For the use of ISO indexable milling inserts LN.X 100605 PNR art. no. 17738.

17735 301-303
End mill, long
Applications
For the use of ISO indexable milling inserts LN.X 100605 PNR art. no. 17738.

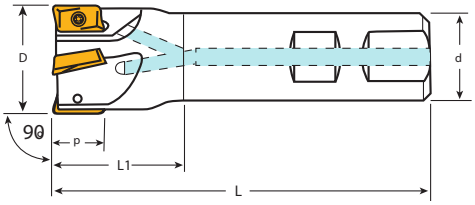
17736 101-103
Angular milling cutter, 4-10 Power
Applications
For the use of ISO indexable milling inserts LN.X 100605 PNR art. no. 17738.

17736 105-109
Angular milling cutter, 4-15 Power
Applications
For the use of ISO indexable inserts LN.X 151008 PNR art. no. 17738.

17735 201-203

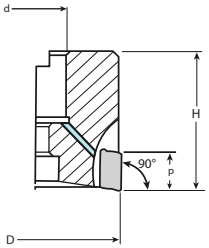


17735 101-103



17735 301-303

17736 101-110



Ø D mm	d mm	L mm	L_1 mm	D_1 mm	M	Z	Indexable inserts	with thread 17735	...
20	10	30	20	10.5	M 10	3	LN.X 100605 PNR		**201**
25	10	35	22	12.5	M 12	3	LN.X 100605 PNR		**202**
32	10	43	24	17.0	M 16	4	LN.X 100605 PNR		**203**

Short

Ø D mm	d mm	L mm	L_1 mm	p mm	Z	Indexable inserts	with shank 17735	...
20	20	100	30	9	3	LN.X 100605 PNR		**101**
25	25	115	35	9	3	LN.X 100605 PNR		**102**
32	25	115	40	9	4	LN.X 100605 PNR		**103**

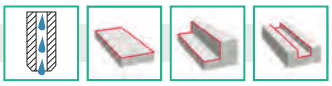
Long

Ø D mm	d mm	L mm	L_1 mm	Z	Indexable inserts	with shank 17735	...
20	20	150	50	3	LN.X 100605 PNR		**301**
25	25	150	50	3	LN.X 100605 PNR		**302**
32	32	200	60	4	LN.X 100605 PNR		**303**

Ø D mm	d mm	H mm	p mm	Z	Indexable inserts	with bore 17736	...
40	16	40	9	5	LN.X 100605 PNR		**101**
50	22	40	9	7	LN.X 100605 PNR		**102**
63	22	40	9	9	LN.X 100605 PNR		**103**
50	22	40	14	5	LN.X 151008 PNR		**105**
63	22	40	14	6	LN.X 151008 PNR		**106**
80	27	50	14	7	LN.X 151008 PNR		**107**
100	32	63	14	8	LN.X 151008 PNR		**108**
125	40	63	14	10	LN.X 151008 PNR		**109**
160	40	63	14	11	LN.X 151008 PNR		**110** NEW

Continued

17735 - 17738 Angular milling cutters (4-10/4-15 Power)



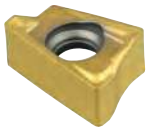
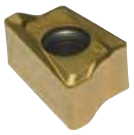
Continued

Indexable inserts and spare parts

17738 101-205
Applications
- **HW 4310:** for aluminium machining
- **HC 4630:** for steel machining
- **HC 4410:** for cast iron machining
- **HC 4535:** for stainless steel machining
- **HC 4635:** for universal machining

Note:
Cutting edges are marked with dots; please always use cutting edges with the same dots.



			17738 101		17738 102		17738 103		17738 104			
Applications			N		P		K		M		P M K	
Carbide type			HW 4310		HC 4630		HC 4410		HC 4535		HC 4635	
Coating			Uncoated		Coated		Coated		Coated		Coated	
ISO designation	**r mm**		17738	...	17738	...	17738	...	17738	...	17738	...
LNEX 100605 PNR-MA	0.5	10 pcs.		101								
LNMX 100605 PNR-MB	0.5	10 pcs.				102		103		104		
LNKX 100605 PNR-MB	0.5	10 pcs.										105
LNEX 151008 PNR-MA	0.8	10 pcs.		201								
LNMX 151008 PNR-MB	0.8	10 pcs.				202		203		204		
LNKX 151008 PNR-MB	0.8	10 pcs.										205

Spare parts			**Clamping screws**		**Wrench**	
For indexable inserts size	**TX size T**		17737	...	52529	...
LN.X 100605 PNR	9			101		404
LN.X 151008 PNR	15			102		406

= The specified prices are unit prices. Only sold in the specified packing units. Always specify number of units in order information.

17560 Plunge mills

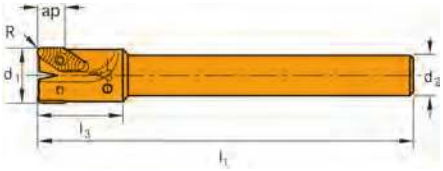
ATORN®

Applications
For non-ferrous metals and plastics.

Note:
For indexable inserts see art. no. 17563.

17560

Ø d_1 mm	Z	R mm	l_1 mm	l_3 mm	ap mm	Ø d_2 mm	Indexable inserts	17560	...
25	2	1.2	200	40	14	20	VPGT 160412-ALM		102
32	2	3.0	220	50	15	25	VCGT 220530-ALM		103



Spare parts		Clamping screws		Wrench	
For indexable inserts size	Screw	TX size T	17564	...	52529	...
VPGT 160412-ALM	M 4.0 x 7.5	15		102		406
VCGT 220530-ALM	M 5.0 x 10.0	15		103		406

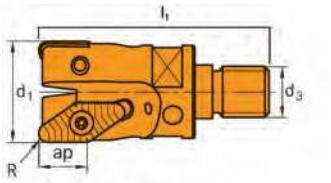
17561 Screw-on mill cutters

ATORN®

Type THR
Applications
For non-ferrous metals and plastics.

Note:
For indexable inserts see art. no. 17563.

17561



Ø d_1 mm	Z	R mm	l_1 mm	ap mm	d_3 mm	Indexable inserts	17561	...
25	2	1.2	40	14	M 12	VPGT 160412-ALM		102
32	2	3.0	50	15	M 16	VCGT 220530-ALM		103
42	3	3.0	50	15	M 16	VCGT 220530-ALM		104

Spare parts		Clamping screws		Wrench	
For indexable inserts size	Screw	TX size T	17564	...	52529	...
VPGT 160412-ALM	M 4.0 x 7.5	15		102		406
VCGT 220530-ALM	M 5.0 x 10.0	15		103		406

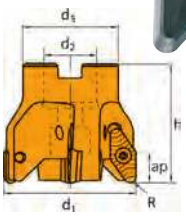
17562 Shell end mills

ATORN®

Design
For non-ferrous metals and plastics.

Note:
For indexable inserts see art. no. 17563.

17562



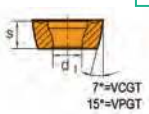
Ø d_1 mm	Z	R mm	h mm	ap mm	Ø d_5 mm	d_2 mm	Indexable inserts	17562	...
42	3	3.0	55	15	32	16	VCGT 220530-ALM		101
52	3	3.0	55	15	40	22	VCGT 220530-ALM		102
66	4	3.0	60	15	48	27	VCGT 220530-ALM		103
80	4	3.0	60	15	60	27	VCGT 220530-ALM		104
100	5	3.0	65	15	80	32	VCGT 220530-ALM		105

Spare parts		Clamping screws		Wrench	
For indexable inserts size	Screw	TX size T	17564	...	52529	...
VCGT 220530-ALM	M 5.0 x 10.0	15		103		406

17563 Indexable milling inserts, VPGT/VCGT

ATORN®

17563



Indexable inserts							Uncoated K 10		Coated K 10	
Type	l mm	s mm	d mm	d_1 mm	R mm		17563	...	17563	...
VPGT 160412-ALM	16.6	4.76	9.52	4.4	1.2	10 pcs.		102		202
VCGT 220530-ALM	22.1	5.56	12.70	5.5	3.0	10 pcs.		103		203

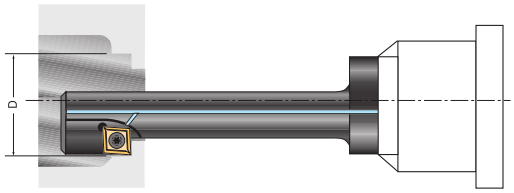
17570 Reverse milling counterbores, 180°/45°

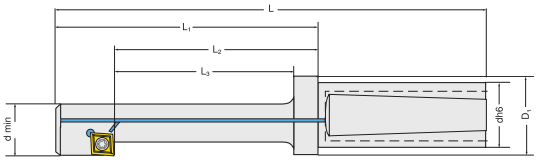
DIN 1835 E

ATORN®

Design
- Supplied **without** indexable inserts

Applications
For reverse countersinking of bores.





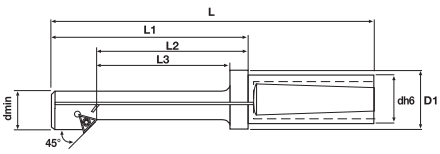
17570 101-114

Reverse milling counterbores, 180°

Ø D mm	d min. mm	L mm	L_1 mm	L_2 mm	L_3 mm	dh6 mm	D_1 mm	e mm	Indexable inserts	17570 ...
18	10.5	112	62	47	40	20	25	4.0	CC.. 0602..	101
20	13.0	117	67	52	45	20	25	3.75	CC.. 0602..	102
24	15.0	122	72	57	50	20	25	4.75	CC.. 0602..	103
26	17.0	132	82	67	60	20	25	5.0	CC.. 0602..	104
30	19.0	142	92	77	65	20	25	6.0	CC.. 0602..	105
33	21.0	152	102	82	75	20	25	6.5	CC.. 09T3..	106
36	23.0	173	113	93	85	32	40	7.0	CC.. 09T3..	107
40	25.0	183	123	103	95	32	40	8.0	CC.. 09T3..	108
43	30.0	183	123	103	95	32	40	7.0	CC.. 09T3..	109
48	33.0	223	163	143	135	32	40	8.0	CC.. 09T3..	110
53	36.0	210	140	40	110	40	-	9.0	CC.. 1204..	111
57	39.0	220	150	40	120	40	-	9.5	CC.. 1204..	112
66	45.0	245	165	50	135	50	-	11.0	CC.. 1204..	113
76	52.0	265	185	50	155	50	-	12.5	CC.. 1204..	114

17570 101
Design
- Without internal cooling

Note:
For indexable inserts see art. no. 18550 ff.



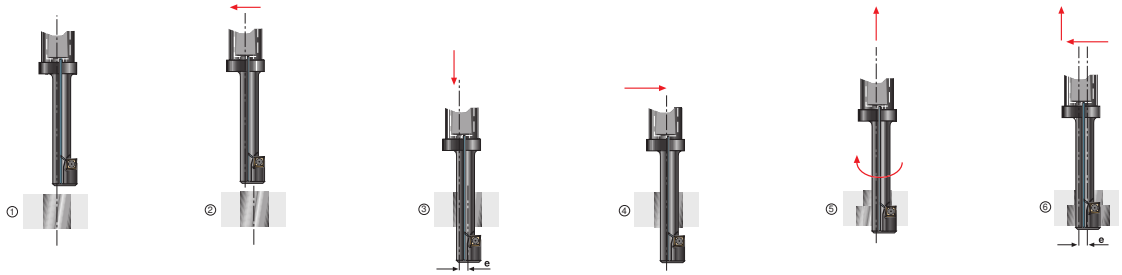
17570 201-209

Reverse milling counterbores, 45°

Ø D mm	d min. mm	L mm	L1 mm	L2 mm	L3 mm	dh6 mm	D1 mm	e mm	Indexable inserts	17570 ...
15	10	105	55	42	35	20	25	2.7	TCMT 0802..	201 NEW
20	14	110	60	47	40	20	25	3.2	TCMT 0802..	203 NEW
23	17	120	70	57	50	20	25	3.2	TCMT 1102..	204 NEW
27	21	140	90	77	70	20	25	3.2	TCMT 1102..	207 NEW
31	24	150	100	87	80	20	25	3.7	TCMT 1102..	209 NEW

17570 201
Design
- Without internal cooling

Note:
For indexable inserts see art. no. 17570 301.



1) Position the tool on the centre of the bore. Spindle orientation 0°.

2) Offset the tool by the programming dimension (e).

3) Plunge to the position below the lower edge of the workpiece with safety clearance.

4) Move back to the centre of the bore by the dimension (e), and then start the spindle.

5) Countersink to the desired depth.

6) Position at the safety distance below the lower edge of the workpiece. Spindle orientation at 0°.
Then offset the tool by the programming dimension (e) and extend the cutter.

Applications							P M K	
Coating							TiN	
ISO Designation	l mm	d mm	s mm	d_1 mm	r mm		17570	...
TCMT 080204	8.2	4.76	2.38	2.3	0.4	10 pcs.		301 NEW

Spare parts		Clamping screw 10		Wrench	
For indexable inserts size	TX size T	17528	...	52529	...
TCMT 080204	7		100 NEW		402 NEW
CC.. 0602..	8		101		403
CC.. 09T3..	15		102		406
CC.. 1204..	20		103		407

= The specified prices are unit prices. Only sold in the specified packing units. Always specify number of units in order information.

DIN 1835 B

ATORN®

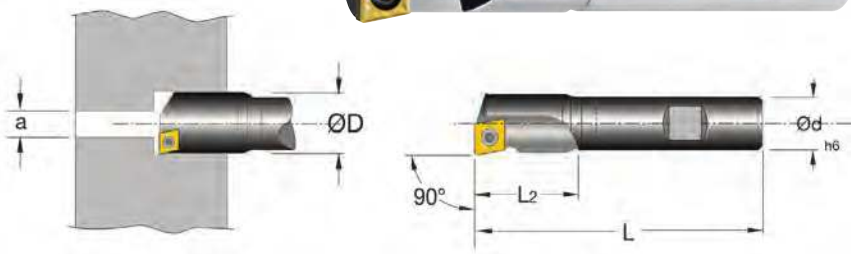
17576

Design
- Single-edged boring bar with internal cooling
- **Without** indexable inserts

Bore tolerances:
Indexable insert radius 0.2 mm = +0.05/-0.10 mm
Indexable insert radius 0.4 mm = +0.03/-0.18 mm

Applications
For countersinking and core drilling.

Note:
For indexable inserts see art. no. 18550 ff.



Ø D mm	Ød h6 mm	a mm	L mm	L_2 mm	Indexable inserts	17576	...
9.8	8	4.5	90	23	CC.. 0602..		201 NEW
10	12	4	85	15	CC.. 0602..		101
10.8	10	3.5	105	24	CC.. 0602..		202 NEW
11	12	4	85	16	CC.. 0602..		102
11.8	10	3	105	25	CC.. 0602..		203 NEW
12	10	4	85	20	CC.. 0602..		103
12.8	10	2.5	105	26	CC.. 0602..		204 NEW
13	12	5	85	21	CC.. 0602..		104
13.8	12	3	110	27	CC.. 0602..		205 NEW
14	12	5	85	21	CC.. 0602..		105
14.8	12	3.5	120	28	CC.. 0602..		206 NEW
15	12	5	85	24	CC.. 0602..		106
15.8	12	4	125	29	CC.. 0602..		207 NEW
16	12	5	85	28	CC.. 0602..		107
16.8	16	5	140	30	CC.. 0602..		208 NEW
17	16	5	95	40	CC.. 09T3..		108
17.8	16	6	140	31	CC.. 0602..		209 NEW
18	16	5	95	40	CC.. 09T3..		109
18.8	16	7	150	32	CC.. 0602..		210 NEW
19	16	5	95	40	CC.. 09T3..		110
19.8	16	8	150	33	CC.. 09T3..		211 NEW
20	16	5	95	40	CC.. 09T3..		111
20.8	16	9	160	34	CC.. 09T3..		212 NEW
21	16	5	95	33	CC.. 09T3..		112

Ø D mm	Ød h6 mm	a mm	L mm	L_2 mm	Indexable inserts	17576	...
21.8	20	10	160	35	CC.. 09T3..		213 NEW
22	16	6	95	37	CC.. 09T3..		113
22.8	20	11	165	36	CC.. 09T3..		214 NEW
23	16	6	95	40	CC.. 09T3..		114
23.8	20	12	170	37	CC.. 09T3..		215 NEW
24	16	6	95	34	CC.. 09T3..		115
24.8	20	13	180	38	CC.. 09T3..		216 NEW
25	16	8	95	33	CC.. 09T3..		116
25.8	20	14	185	39	CC.. 09T3..		217 NEW
26	20	8	120	53	CC.. 09T3..		117
26.8	20	15	190	40	CC.. 09T3..		218 NEW
27	20	9	120	56	CC.. 09T3..		118
27.8	20	16	190	41	CC.. 09T3..		219 NEW
28	20	10	120	53	CC.. 09T3..		119
28.8	20	17	200	42	CC.. 09T3..		220 NEW
29	20	11	120	55	CC.. 09T3..		120
29.8	25	18	200	43	CC.. 09T3..		221 NEW
30	20	12	121	57	CC.. 09T3..		121
30.8	25	19	200	44	CC.. 09T3..		222 NEW
31	20	14	120	55	CC.. 09T3..		122
31.8	25	20	200	45	CC.. 09T3..		223 NEW
32	20	15	120	54	CC.. 09T3..		123
33	20	16	120	55	CC.. 09T3..		124

Spare parts

For indexable inserts size	TX size T	Clamping screw 17528	...	Wrench 52529	...
CC.. 0602..	8		101		403
CC.. 09T3..	15		102		406

17577 Core and countersunk drills (double-edged)

DIN 1835 B

ATORN®

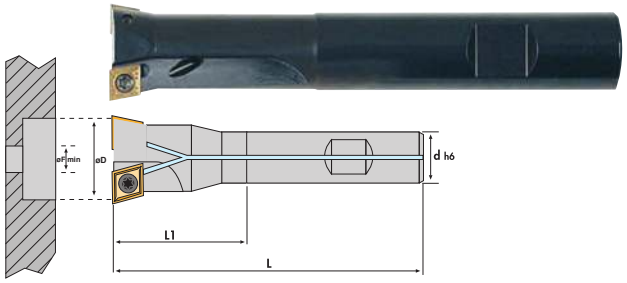
Design
- Double-edged boring bar with internal cooling
- **Without** indexable inserts

Bore tolerances:
Indexable insert radius 0.2 mm = +0.05/-0.10 mm
Indexable insert radius 0.4 mm = +0.03/-0.18 mm

Applications
For countersinking and core drilling.

Note:
For indexable inserts see art. no. 18550 ff.

17577



Ø D mm	Ød h6 mm	Ø F min. mm	L mm	L1 mm	Indexable inserts	17577 ...
16	12	5	92	30	CC.. 0602..	101
17	16	6	94	32	CC.. 0602..	102
18	16	7	97	41	CC.. 0602..	103
19	16	8	100	41	CC.. 0602..	104
20	16	9	102	41	CC.. 0602..	105
21	16	10	105	41	CC.. 0602..	106
22	16	11	110	41	CC.. 0602..	107
23	16	12	112	41	CC.. 0602..	108
24	16	13	115	41	CC.. 0602..	109
25	16	8	120	40	CC.. 09T3..	110
26	20	9	125	55	CC.. 09T3..	111
27	20	10	128	55	CC.. 09T3..	112
28	20	11	130	55	CC.. 09T3..	113
29	20	12	132	55	CC.. 09T3..	114

Ø D mm	Ød h6 mm	Ø F min. mm	L mm	L1 mm	Indexable inserts	17577 ...
30	20	13	134	55	CC.. 09T3..	115
31	20	14	136	55	CC.. 09T3..	116
32	20	15	138	55	CC.. 09T3..	117
33	20	16	140	55	CC.. 09T3..	118
34	25	16	140	60	CC.. 09T3..	119
35	25	17	140	60	CC.. 09T3..	120
36	25	18	140	60	CC.. 09T3..	121
37	25	19	140	60	CC.. 09T3..	122
38	25	20	140	60	CC.. 09T3..	123
39	25	21	140	60	CC.. 09T3..	124
40	25	22	140	60	CC.. 09T3..	125
41	25	23	140	60	CC.. 09T3..	126
42	25	24	140	60	CC.. 09T3..	127

Spare parts		Clamping screw 10		Wrench	
For indexable inserts size	TX size T	17528	...	52529	...
CC.. 0602..	8		101		403
CC.. 09T3..	15		102		406

17578 Adjustable fine boring bars

DIN 1835 B

ATORN®

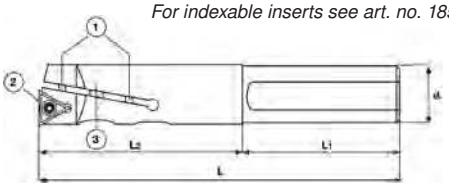
Design
- Special steel, nickel-plated
- Adjustment range 2–5 mm
- **Without** indexable inserts

Advantage:
- Cost-effective alternative to spindle tools

Applications
For ISO indexable inserts CCMT and CCGT.

Note:
For indexable inserts see art. no. 18550 ff.

17578



1 = Draw bolt
2 = Clamping screw
3 = Counter screw

D min. mm	D max. mm	d mm	L mm	L2 mm	L1 mm	Indexable inserts	Holder 17578 ...	Draw bolt 17578 ...	Counter screw 17578 ...
10	12	10	100	30	70	CC.. 0602..	101	201	301
12	15	12	105	30	70	CC.. 0602..	102	201	302
15	20	16	110	50	60	CC.. 0602..	103	202	303
20	25	20	120	60	60	CC.. 0602..	104	203	304
25	30	25	140	70	70	CC.. 09T3..	105	204	305
30	35	25	160	90	70	CC.. 09T3..	106	205	306
35	40	32	170	100	70	CC.. 09T3..	107	206	307
40	45	32	190	120	70	CC.. 09T3..	108	207	308
45	50	32	220	160	70	CC.. 09T3..	109	208	309

Spare parts		Clamping screw 10		Wrench	
For indexable inserts size	TX size T	17528	...	52529	...
CC.. 0602..	8		101		403
CC.. 09T3..	15		102		406

= The specified prices are unit prices. Only sold in the specified packing units. Always specify number of units in order information.

17660 HPC cutters for extreme feeds

Design
- Nickel-plated face milling cutter head made of hardened special steel for **HPC machining**
- Dynamic cutting geometry **for maximum feed rates**
- Very soft cutting
- Reduced **cutting force minimises load on** the spindle

Applications
For face and pocket milling. Even large projection depths can be milled.

17660 101-102

with shank

Cutting edge Ø mm	No. of teeth	Overall length mm	Shank Ø mm	Working depth L2 mm	For indexable insert	17660 ...
25	2	140	25	80	ZDCW 09T304	101
32	2	140	32	80	ZDCW 09T304	102

17660 110-112

with thread

Cutting edge Ø mm	No. of teeth	Overall length mm	Clamping thread mm	For indexable insert	17660 ...
25	2	54	M 12	ZDCW 09T304	110
32	3	63	M 16	ZDEW 120408	111
40	4	63	M 16	ZDEW 120408	112

17660 120-123

with bore

Cutting edge Ø mm	No. of teeth	Overall length mm	Location hole mm	For indexable insert	17660 ...
40	4	40	16	ZDCW 09T304	120
50	4	40	22	ZDEW 120408	121
63	5	40	22	ZDEW 120408	122
80	5	50	27	ZDEW 120408	123

Indexable inserts and spare parts

17660 304

17660 305

17660 306

Designation	Carbide type/ coating	Programmable radius mm	Steel 17660 ...	Steel roughing 17660 ...	Cast iron + hardened 17660 ...
ZDCW 09T304	P25/Al2O3	2.27	301		
ZDCW 09T304	P40/Al2O3	2.27		302	
ZDCW 09T304	K10/Al2O3	2.27			303
ZDEW 120408	P25/Al2O3	3.52	304		
ZDEW 120408	P40/Al2O3	3.52		305	
ZDEW 120408	K10/Al2O3	3.52			306

Spare parts For indexable inserts size	TX size T	Clamping screw 17660 ...	Wrench 52529 ...
ZDCW 09T304	9	200	404
ZDEW 120408	15	201	406

17865 - 17867 HFC milling system

CUTTING SOLUTIONS BY CERATIZIT

Design
- Basic body made of special steel
- Dynamic cutting edge geometry for a soft cut

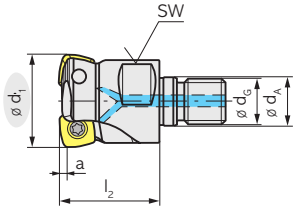
Scope of delivery:
- Basic body with clamping screws
- **Without** indexable inserts

Advantages:
- HyperCoat coating for an extremely long service life
- Maximum running smoothness
- Maximum machining performance
- Maximum cost efficiency

17865 101-104

with thread

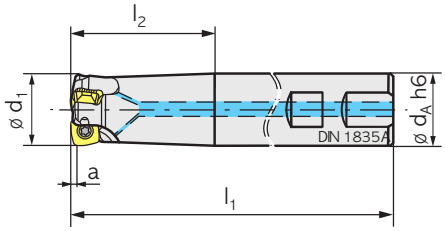
Ø d_1 mm	Designation	Z	l_2 mm	a mm	Ø d_A mm	Ø d_G mm	Indexable inserts	17865 ...
16	GHFC.16.R.02-06-27	2	27	0.8	8.5	M 8	XP.. 06	101
20	GHFC.20.R.03-06-33	3	33	0.8	10.5	M 10	XP.. 06	102
25	GHFC.25.R.04-06-35	4	35	0.8	12.5	M 12	XP.. 06	103
32	GHFC.32.R.05-06-35	5	35	0.8	17.0	M 16	XP.. 06	104

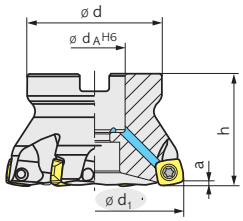


17865 201-204

with shank

Ø d_1 mm	Designation	Z	l_1 mm	l_2 mm	a mm	Ø d_A mm	Indexable inserts	17865 ...
16	CHFC.16.R.02-06-B-40	2	89	40	0.8	16	XP.. 06	201
20	CHFC.20.R.03-06-B-50	3	101	50	0.8	20	XP.. 06	202
25	CHFC.25.R.04-06-B-50	4	107	50	0.8	25	XP.. 06	203
32	CHFC.32.R.05-06-B25-60	5	117	60	0.8	25	XP.. 06	204





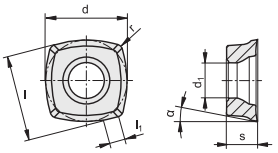
17865 301-304

with bore

Ø d_1 mm	Designation	Z	Ø d_A mm	h mm	Ø d mm	a mm	Indexable inserts	17865 ...
32	AHFC.32.R.03-09	3	16	40	38	1	XD.. 09..	301
42	AHFC.42.R.05-09	5	16	40	38	1	XD.. 09..	302
52	AHFC.52.R.06-09	6	22	40	43	1	XD.. 09..	303
63	AHFC.63.R.06-09	6	22	40	48	1	XD.. 09..	304

Indexable inserts and spare parts

17867



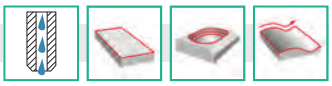
Applications								MP CTPM245 PVD		P CTPP235 PVD	
Cemented carbide grade											
Coating											
Designation	d mm	l mm	s mm	l_1 mm	r mm	d_1 mm		17867	...	17867	...
XPLX 060305SR-M50	6.35	6.00	2.75	1.0	0.50	2.80	10 pcs.		102		
XDLX 09T308ER-F40	9.60	9.60	3.97	1.5	0.80	4.40	10 pcs.		103		
XDLX 09T308SR-M50	9.60	9.60	3.97	1.5	0.80	4.40	10 pcs.				104

Spare parts			Clamping screw 10		Wrench	
for indexable inserts	Clamping screw Size	Key	17999	...	51932	...
XP.. 06	M 2.5 x 5.0	T 8		115		204
XD.. 09..	M 3.5 x 8.6	T 15		116		207

For cutters with bore Ø d_1 mm	Power screw	Power screw 17998	...
32–42	M 8 x 30.0		101

= The specified prices are unit prices. Only sold in the specified packing units. Always specify number of units in order information.

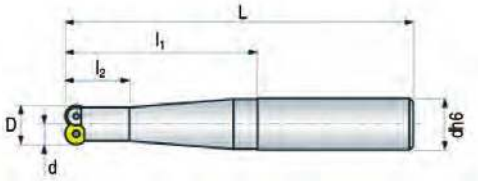
Face and copy milling cutters



Design
- **Nickel-plated** milling cutter body in hardened special steel
- Robust design for smooth running
- High **radial and axial runout accuracy**

Applications
For face and copy milling with high rotation speeds and feed rates. For **toolmaking and mould making.**

17613 104



For indexable inserts RDHX 0702

Copy milling cutters with shank

Cutting edge Ø mm	No. of cutting edges	Overall length mm	Shank Ø mm	Working depth L2 mm	17613	...
15	2	90	16	20		104
15L	2	110	16	20		105
15XL	2	160	20	22		106

Copy milling cutters with thread

Cutting edge Ø mm	No. of cutting edges	Overall length mm	Clamping thread	17613	...
15	2	23	M 8		110
20	4	30	M 10		111
25	5	35	M 12		112
32	5	42	M 12		113

17613 110-113

Indexable inserts and spare parts

ISO designation	Type/ coating	Coated	Applications	s mm	d mm	d1 mm		17824	...
RDHX 0702 MOT	Al, polished	-	N	2.38	7	2.7	10 pcs.		304
RDHX 0702 MOT	K 10/Al2O3	x	K H	2.38	7	2.7	10 pcs.		305
RDHX 0702 MOT	P 25/Al2O3	x	P	2.38	7	2.7	10 pcs.		306
RDHX 0702	ABC10T, chamfered	-	S	2.38	7	2.7	-		330
RDHX 0702	ABC25T, chamfered	-	H	2.38	7	2.7		-	331

17824 304

17824 305

17824 306

17824 330-331

Spare parts For indexable insert	TX size T	Clamping screw 17613	...	Wrench 52529	...
RDHX 0702	7		201		402

For indexable inserts RDHX 1003

Copy milling cutters with shank

Cutting edge Ø mm	No. of cutting edges	Overall length mm	Shank Ø mm	Working depth L2 mm	17614	...
20	2	90	20	30		101
20L	2	110	25	22		102
20XL	2	160	25	25		103

Copy milling cutters with thread

Cutting edge Ø mm	No. of cutting edges	Overall length mm	Clamping thread	17614	...
20	2	28	M 10		110
25	3	32	M 12		111
30	4	42	M 16		112
35	5	42	M 16		113
42	6	42	M 16		114

Copy milling cutters with bore

Cutting edge Ø mm	No. of cutting edges	Overall length mm	Location hole mm	17614	...
42	6	40	16		120
52	7	50	22		121

17614 101

17614 110-114

17614 120-121

Indexable inserts and spare parts

ISO designation	Type/ coating	Coated	Applications	s mm	d mm	d1 mm		17824	...
RDHX 1003 MOT	Al, polished	-	N	3.18	10	3.1	10 pcs.		309
RDHX 1003 MOT	K 10/Al2O3	x	K H	3.18	10	3.1	10 pcs.		310
RDHX 1003 MOT	P 25/Al2O3	x	P	3.18	10	3.1	10 pcs.		311
RDHX 1003 MOT	P 40/Al2O3	x	P	3.18	10	3.1	10 pcs.		312
RDHX 1003 MOT	M 40/Al2O3	x	M	3.18	10	3.1	10 pcs.		313
RDHX 1003	ABC10T, chamfered	-	S	3.18	10	3.1	-		332
RDHX 1003	ABC25T, chamfered	-	H	3.18	10	3.1		-	333

17824 309

17824 310

17824 311

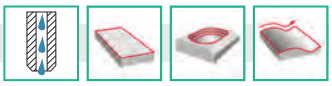
17824 312

17824 332-333

Spare parts For indexable insert	TX size T	Clamping screw 17614	...	Wrench 52529	...
RDHX 1003	15		201		406

Continued

17613 - 17824 Face and copy milling cutters



Continued

Design
- **Nickel-plated** milling cutter body in hardened special steel
- Robust design for smooth running
- High **radial and axial runout accuracy**

Applications
For face and copy milling with high rotation speeds and feed rates. For **toolmaking and mould making.**

For indexable inserts RDHX 12T3

17615 110-113

Copy milling cutters with thread

Cutting edge Ø mm	No. of cutting edges	Overall length mm	Shank Ø mm	17615 ...
24	2	35	M 12	110
32	3	42	M 16	111
35	3	42	M 16	112
42	5	42	M 16	113

17615 120-123

Copy milling cutters with bore

Cutting edge Ø mm	No. of cutting edges	Overall length mm	Location hole mm	17615 ...
42	4	40	16	120
52	5	50	22	121
66	6	50	27	122
80	7	50	27	123

Indexable inserts and spare parts

ISO designation	Type/ coating	Coated	Applications	s mm	d mm	d1 mm		17824 ...
RDHX 12T3 MOT	Al, polished	-	N	3.97	12	3.9	10 pcs.	314
RDHX 12T3 MOT	K 10/Al2O3	x	K H	3.97	12	3.9	10 pcs.	315
RDHX 12T3 MOT	P 25/Al2O3	x	P	3.97	12	3.9	10 pcs.	316
RDHX 12T3 MOT	P 40/Al2O3	x	P	3.97	12	3.9	10 pcs.	317
RDHX 12T3 MOT	M 40/Al2O3	x	M	3.97	12	3.9	10 pcs.	318
RDHX 12T3	ABC10T, chamfered	-	S	3.97	12	3.9	-	334
RDHX 12T3	ABC25T, chamfered	-	H	3.97	12	3.9	-	335

17824 314 17824 315 17824 316

17824 317 17824 334-335

Spare parts for indexable insert	TX size T	Clamping screw 17615 ...	Clamping claw 17615 ...	Wrench 52529 ...
RDHX 12T3	15	200	201	406

For indexable inserts RDHX 1604

17616 120-123

Copy milling cutters with bore

Cutting edge Ø mm	No. of cutting edges	Overall length mm	Location hole mm	17616 ...
52	4	50	22	120
66	5	50	27	121
80	6	50	27	122
100	7	50	32	123

Indexable inserts and spare parts

ISO designation	Carbide type/ coating	Coated	Applications	s mm	d mm	d1 mm		17824 ...
RDHX 1604 MOT	Al, polished	-	N	4.76	16	5.0	10 pcs.	319
RDHX 1604 MOT	K 10/Al2O3	x	K H	4.76	16	5.0	10 pcs.	320
RDHX 1604 MOT	P 25/Al2O3	x	P	4.76	16	5.0	10 pcs.	321
RDHX 1604 MOT	P 40/Al2O3	x	P	4.76	16	5.0	10 pcs.	322
RDHX 1604 MOT	M 40/Al2O3	x	M	4.76	16	5.0	10 pcs.	323

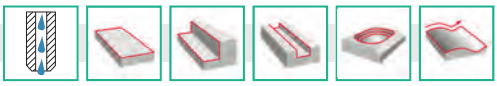
17824 319 17824 320

17824 321 17824 322

Spare parts for indexable insert	TX size T	Clamping screw 17616 ...	Clamping claw 17616 ...	Wrench 52529 ...
RDHX 1604	20	200	201	407

= The specified prices are unit prices. Only sold in the specified packing units. Always specify number of units in order information.

Round insert milling system, 251-RS



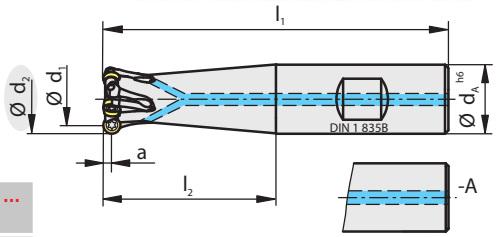
CUTTING SOLUTIONS BY CERATIZIT

Design
- Sturdy basic body with Hard & Tough coating
- Insert seat with indexing aid
- Power screw with Ø 40 mm and Ø 50 mm

Advantages:
- Easy cutting, low-vibration cutting edge geometry
- Maximum process reliability
- Predictable wear behaviour
- Reproducible service life

Scope of delivery:
- Basic body with clamping screws
- **Without** indexable inserts

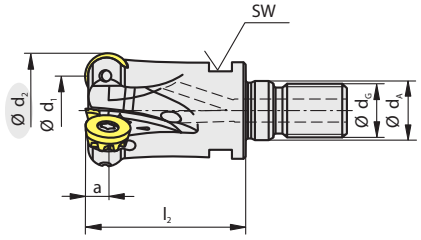
17868 101-126



with shank

Ø d_2 mm	Designation	Z	Ø d_1 mm	l_1 mm	l_2 mm	Ø d_A mm	a mm	Indexable inserts	17868	...
10	C251.10.R.02-05-A-25-165-RS	2	5	165	25	10	2.5	RD.. 0501..		101
10	C251.10.R.02-05-B12-20-RS	2	5	67	20	12	2.5	RD.. 0501..		102
12	C251.12.R.03-05-A-32-165-RS	3	7	165	32	12	2.5	RD.. 0501..		103
12	C251.12.R.03-05-B16-25-RS	3	7	75	25	16	2.5	RD.. 0501..		104
16	C251.16.R.04-05-A-40-165-RS	4	11	165	40	16	2.5	RD.. 0501..		105
16	C251.16.R.04-05-B-32-RS	4	11	81	32	16	2.5	RD.. 0501..		106
20	C251.20.R.05-05-A-50-165-RS	5	15	165	50	20	2.5	RD.. 0501..		107
20	C251.20.R.05-05-B-40-RS	5	15	91	40	20	2.5	RD.. 0501..		108
16	C251.16.R.02-08-A-40-165-RS	2	8	165	40	16	4.0	RD.. 0802..		109
16	C251.16.R.02-08-B-32-RS	2	8	81	32	16	4.0	RD.. 0802..		110
20	C251.20.R.03-08-A-50-200-RS	3	12	200	50	20	4.0	RD.. 0802..		111
20	C251.20.R.03-08-A-60-RS	3	12	110	60	20	4.0	RD.. 0802..		113
20	C251.20.R.03-08-B-40-RS	3	12	91	40	20	4.0	RD.. 0802..		114
25	C251.25.R.04-08-A-60-RS	4	17	116	60	25	4.0	RD.. 0802..		115
25	C251.25.R.04-08-A-60-225-RS	4	17	225	60	25	4.0	RD.. 0802..		116
25	C251.25.R.04-08-B-50-RS	4	17	107	50	25	4.0	RD.. 0802..		117
20	C251.20.R.02-10-A-50-RS	2	10	102	50	20	5.0	RP.. 10T3..		118
20	C251.20.R.02-10-A-50-200-RS	2	10	200	50	20	5.0	RP.. 10T3..		119
25	C251.25.R.03-10-A-60-RS	3	15	116	60	25	5.0	RP.. 10T3..		120
25	C251.25.R.03-10-A-60-225-RS	3	15	225	60	25	5.0	RP.. 10T3..		121
25	C251.25.R.03-10-B-60-RS	3	15	116	60	25	5.0	RP.. 10T3..		122
32	C251.32.R.04-10-A-70-RS	4	22	130	70	32	5.0	RP.. 10T3..		123
25	C251.25.R.02-12-B-30-RS	2	13	86	30	25	6.0	RP.. 1204..		124
32	C251.32.R.03-12-A-40-RS	3	20	100	40	32	6.0	RP.. 1204..		125
32	C251.32.R.03-12-B-40-RS	3	20	100	40	32	6.0	RP.. 1204..		126

17868 201-213



Ø d_2 mm	Designation	Z	Ø d_1 mm	l_2 mm	a mm	Ø d_A mm	Ø d_G mm	Indexable inserts	17868	...
20	G251.20.R.05-05-RS	5	15	33	2.5	10.5	10	RD.. 0501..		201
25	G251.25.R.06-05-RS	6	20	35	2.5	12.5	12	RD.. 0501..		202
32	G251.32.R.07-05-RS	7	27	35	2.5	17.0	16	RD.. 0501..		203
20	G251.20.R.03-08-RS	3	12	33	4.0	10.5	10	RD.. 0802..		204
25	G251.25.R.04-08-RS	4	17	35	4.0	12.5	12	RD.. 0802..		205
32	G251.32.R.05-08-RS	5	24	35	4.0	17.0	16	RD.. 0802..		206
20	G251.20.R.02-10-RS	2	10	33	5.0	10.5	10	RP.. 10T3..		207
25	G251.25.R.03-10-RS	3	15	35	5.0	12.5	12	RP.. 10T3..		208
32	G251.32.R.04-10-RS	4	22	35	5.0	17.0	16	RP.. 10T3..		209
25	G251.25.R.02-12-35-RS	2	13	35	6.0	12.5	12	RP.. 1204..		210
32	G251.32.R.03-12-35-RS	3	20	35	6.0	17.0	16	RP.. 1204..		211
35	G251.35.R.03-12-35-RS	3	23	35	6.0	17.0	16	RP.. 1204..		212
42	G251.42.R.04-12-42-RS	4	30	42	6.0	17.0	16	RP.. 1204..		213

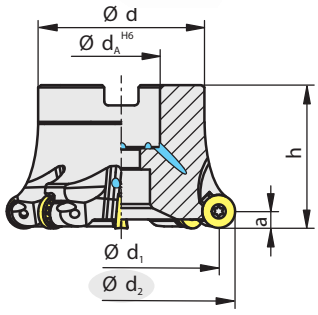
Continued

17868 - 17870 Round insert milling system, 251-RS

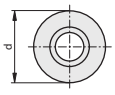
Continued

Ø d_2 mm	Designation	Z	Ø d_1 mm	h mm	Ø d mm	Ø d_A mm	a mm	Indexable inserts	with bore 17868	...
40	A251.40.R.03-10-RS	3	30	40	38	16	5	RP.. 10T3..		301
40	A251.40.R.05-10-RS	5	30	40	38	16	5	RP.. 10T3..		302
42	A251.42.R.06-10-RS	6	32	40	38	16	5	RP.. 10T3..		303
50	A251.50.R.04-10-RS	4	40	40	43	22	5	RP.. 10T3..		304
50	A251.50.R.06-10-RS	6	40	40	43	22	5	RP.. 10T3..		305
52	A251.52.R.06-10-RS	6	42	40	43	22	5	RP.. 10T3..		306
40	A251.40.R.04-12-RS	4	28	40	38	16	6	RP.. 1204..		307
50	A251.50.R.04-12-RS	4	38	40	43	22	6	RP.. 1204..		308
50	A251.50.R.05-12-RS	5	38	40	43	22	6	RP.. 1204..		309
52	A251.52.R.05-12-RS	5	40	40	43	22	6	RP.. 1204..		310
63	A251.63.R.06-12-RS	6	51	40	48	22	6	RP.. 1204..		311
66	A251.66.R.07-12-RS	7	54	40	48	22	6	RP.. 1204..		312
80	A251.80.R.05-12-RS	5	68	50	58	27	6	RP.. 1204..		313
80	A251.80.R.07-12-RS	7	68	50	58	27	6	RP.. 1204..		314
100	A251.100.R.06-12-RS	6	88	50	78	32	6	RP.. 1204..		315
100	A251.100.R.10-12-RS	10	88	50	78	32	6	RP.. 1204..		316
50	A251.50.R.04-16-RS	4	34	40	48	22	8	RP.. 1605..		317
52	A251.52.R.04-16-RS	4	36	40	48	22	8	RP.. 1605..		318
63	A251.63.R.05-16-RS	5	47	40	48	22	8	RP.. 1605..		319
80	A251.80.R.06-16-RS	6	64	50	58	27	8	RP.. 1605..		320
100	A251.100.R.07-16-RS	7	84	50	78	32	8	RP.. 1605..		321

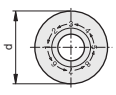
17868 301-321



RDHX ..



RPHX ..



17870 102 17870 105 17870 107 17870 110 17870 113 17870 116

Applications Cemented carbide type Coating Designation	d mm	s mm	d_1 mm		N H216T Uncoated 17870	...	PK CTCP230 CVD 17870	...	MP CTPM245 PVD 17870	...
RDHX 0501MOFN	5	1.59	2.5	10 pcs.		101				
RDHX 0501MOSN	5	1.59	2.5	10 pcs.				106		
RDHX 0802MOFN	8	2.38	2.8	10 pcs.		102				
RDHX 0802MOSN	8	2.38	2.8	10 pcs.				107		
RDHX 0802MOEN-F50	8	2.38	2.8	10 pcs.						116 NEW
RPHX 10T3M8FN-27P	10	3.97	3.4	10 pcs.		103				
RPHX 10T3M8SN	10	3.97	3.4	10 pcs.				108		
RPHX 10T3M8EN-F50	10	3.97	3.4	10 pcs.						113
RPHX 1204M8FN-27P	12	4.76	4.4	10 pcs.		104				
RPHX 1204M8SN	12	4.76	4.4	10 pcs.				109		
RPHX 1204M8EN-F50	12	4.76	4.4	10 pcs.						117 NEW
RPHX 1605M8FN-27P	16	5.56	5.5	10 pcs.		105				
RPHX 1605M8SN	16	5.56	5.5	10 pcs.				110		
RPHX 1605M8EN-F50	16	5.56	5.5	10 pcs.						118 NEW

Spare parts for indexable inserts Size	Clamping screw	Key	Clamping screw 17999	...	Wrench 51932	...
RD.. 0501..	M 2.0 x 3.3	T 6		117		202
RD.. 0802..	M 2.5 x 5.0	T 8		115		204
RP.. 10T3..	M 3.0 x 7.3	T 10		119		206
RP.. 1204..	M 3.5 x 8.6	T 15		116		207
RP.. 1605..	M 4.5 x 10.5	T 20		120		208

For cutters with bore Ø d_1 mm	Power screw	For indexable inserts size	Power screw 17998	...
40	M 8 x 30.0	RP.. 10T3..		101
50	M 10 x 31.0	RP.. 1605..		102

= The specified prices are unit prices. Only sold in the specified packing units. Always specify number of units in order information.

17526 Adjustable chamfer cutter

ATORN®

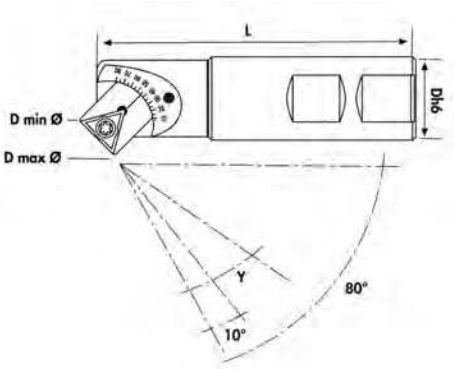
Design
- **Adjustable from 10–80°**
- Straight shank with driving surface according to DIN 1835 B
- **Includes one replaceable cassette** for indexable inserts **TCMT16T3...** and **SCMT1204...**

Scope of delivery:
Counter sink milling cutter with clamping screw and wrench, **without** indexable inserts.

Applications
For chamfering, deburring and countersinking. Stable, smooth running.

Note:
For indexable inserts SCMT see art. no. 18578–18582.
For replacement cassette for TCMT, see art. no. 17526 201.
For replacement cassette for SCMT, see art. no. 17526 202.

17526



Y	TCMT D min. Ø mm	TCMT D max. Ø mm	SCMT D min. Ø mm	SCMT D max. Ø mm
10°	5	32	7.5	30.0
20°	6	33	10.0	32.0
30°	7	34	13.0	32.5
40°	10	33	16.5	33.5
45°	11	33	17.5	33.5
50°	13	32	19.0	33.5
60°	16	31	22.0	33.5
70°	19	29	24.5	33.5
80°	23	27	27.0	31.0

D h6 mm	L mm	17526 ...
20	100	100
25	100	101
25	150	102
25	200	103

17530 Adjustable chamfer cutter

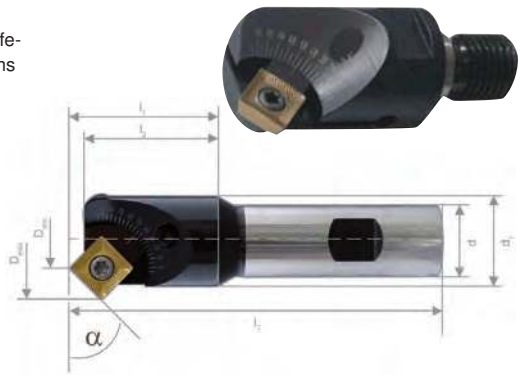
HHW

Design
- Continuously adjustable angle range from 0° to 90°
- Stable structure enables minimal machining times due to high cutting values
- For standard indexable inserts SD...
- All four cutting edges can be used
- Clearance of two indexable insert edges enables forward and reverse chamfering
- Deep engraved scale for extra-long service life
- Straight shank with driving surface according to DIN 1835 B
- No need for special tools, complex 5-axis programming or additional clamping of the sine bar or angle table

Applications
For chamfering, deburring and countersinking to the full cutting edge length. For face milling, profile groove milling, pocket milling and circular chamfering of larger countersinks at all angular positions from 0° to 90°, and for oblique plunge milling.

Quality
Made of high-quality, heat-treated steel.

17530



Ø D_2 mm	d_1 mm	l_2 mm	l_3 mm	D max. mm	D min. mm	L min.–max. mm	AF mm	Indexable inserts	17530 ...
16	18.65	32	89.0	20.54–23.99	2.94–20.79	33.0–35.0	-	SD... 09T3	201
20	25.00	37	101.5	27.00–31.60	3.20–27.00	35.9–40.5	-	SD... 1205	301
M 16	28.50	46	73.5	27.00–31.60	3.20–27.00	44.9–49.5	24	SD... 1205	302

Applications		P	M	NK
Cemented carbide type		CTCP230	CTPM240	H216T
Coating		coated	coated	coated
ISO designation	r mm	17530 ...	17530 ...	17530 ...
SDHT 09T308SR-29	10.75	500		
SDHT 09T308SR-33	10.75		501	
SDHT 09T308FR-27P	10.75			502
SDMT 1205ZZSN-29	14.60	510		
SDMT 1205ZZSN-29	14.60		511	
SDHT 120508FR-27P	14.60			512

Spare parts	Clamping screw	Adjustable angle
Indexable insert	17530 ...	17530 ...
SD... 09T3	210	211
SD... 1205	310	311

17527 Chamfer cutters, 30°/45°/60°

DIN 1835 B

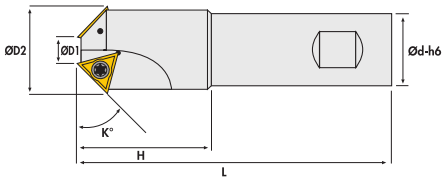
ATORN®

Design
Countersink angles 30°, 45°, 60°, straight shank in accordance with DIN 1835 B, right-hand cutting.
Without indexable inserts.

Applications
For countersinking screw heads and deburring bores and slots.

Note:
For indexable inserts see art. no. 17856.

17527



K°	Ø D2 mm	Ø D1 mm	Ø d h6 mm	H mm	Z	L mm	Indexable inserts	17527 ...
30	32.0	6.0	25	38	2	95	TCMT 16T3	100
45	16.0	1.2	12	20	1	70	TCMT 1102	101
45	21.0	6.2	20	35	2	90	TCMT 1102	102
45	32.5	10.4	25	42	2	95	TCMT 16T3	103
60	16.0	5.4	12	20	1	70	TCMT 1102	104
60	26.0	15.8	20	35	2	90	TCMT 1102	105
60	35.0	20.0	25	39	2	95	TCMT 16T3	106

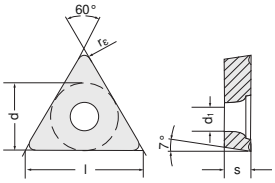
Spare parts

For indexable inserts size	Clamping screw	L mm	TX size IP	Clamping screws 17528 ...	Wrench 51932 ...
TCMT 1102	M 2.5 x 0.45	6.3	8	101	404
TCMT 16T3	M 4.0 x 0.7	8.0	15	102	407

17856 Indexable milling inserts, TCMT

HW

Design
- **Triangular**
- Positive 7°
- With sintered chip breaker



17856

Applications P M
Cemented carbide grade H 42
Coating TiN

ISO designation	l mm	d mm	d_1 mm	s mm	r		17856 ...
TCMT 110202	11.0	6.35	2.80	2.38	0.20	10 pcs.	101
TCMT 16T304	16.5	9.52	4.40	3.97	0.40	10 pcs.	102

17529 Chamfer cutters, 45°

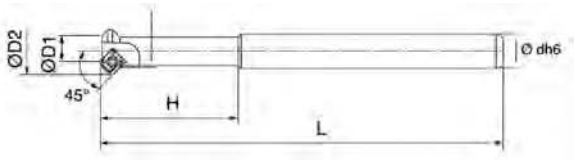
DIN 1835 B

ATORN®

Design
Chamfer cutters, 45° with Weldon shank.
Applications
For chamfer cutting from Ø 4 mm.

Note:
For indexable inserts see art. no. 18578 ff.

17529 (Z2 + 3)



45°

Ø D2 mm	Ø D1 mm	L mm	H mm	Ød h6 mm	Z mm	Indexable inserts	17529 ...
10.0	4	80	28	12	1	SCMT 0602	101
20.0	11	80	33	12	2	SCMT 0602	102
23.7	12	100	37	20	1	SCMT 09T3	103
28.8	16	100	31	16	2	SCMT 09T3	104
42.3	30	100	32	20	3	SCMT 09T3	105
23.7	12 L	200	37	20	1	SCMT 09T3	106
28.8	16 L	200	32	16	2	SCMT 09T3	107
42.3	30 L	200	32	20	3	SCMT 09T3	108

Spare parts

For indexable inserts size	Clamping screw	L mm	TX size IP	Clamping screws 17528 ...	Wrench 51932 ...
SCMT 0602	M 2.5 x 0.45	6.3	8	101	404
SCMT 09T3	M 4.0 x 0.7	8.0	15	102	407

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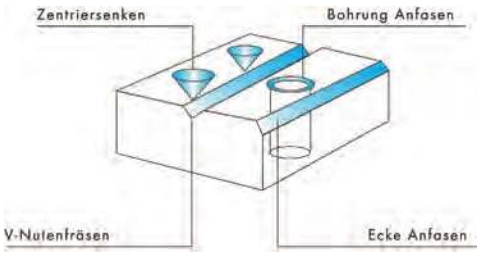
17536 - 17857 Chamfer and centring cutters

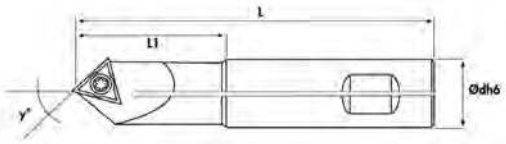
ATORN®

Design
- Indexable insert holder
- Tip angle 45°
- With coolant bore
- Without indexable inserts

Applications
For NC spot drilling, chamfering and V-groove milling.



17536



d1 h6 mm	L mm	L1 mm	y°	Z	D min. mm	D max. mm	17536	...
20	115	40	45	1	0.2	20		101
20	150	60	45	1	0.2	20		102
20	200	80	45	1	0.2	20		103

Indexable inserts and spare parts

17857

Applications				P M K
Cemented carbide grade				H 42
Coating				TiN
ISO designation			17857	...
TCMX 16T3 ZR	10 pcs.			101

		Clamping screw		Wrench	
Size	**TX size T**	17761	...	52529	...
M 4 x 8	15		101		406

17536 Chamfer and centring cutters, 30°/45°

ATORN®

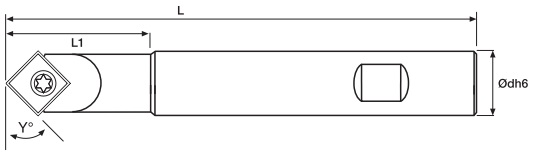
Design
- With straight shank and clamping surface in accordance with DIN 1835 B
- Tip angles 30° and 45°
- Shaft tolerance h6
- **Without** indexable insert (art. no. 17536 201 + 202)

Latest technology:
- Indexable insert sits in the tool holder rotated by 180°

Applications
For NC spot drilling, chamfering and engraving.

NEW

17536 201-202



d1 h6 mm	Ø Ds mm	L mm	L1 mm	Y°	Z	D min. mm	D max. mm	17536	...
16	0.8	120	40	30°	1	0.8	17		201
16	0.8	120	40	45°	1	0.8	21		202

17536 203-204

17536 203-204
Design
Set comprises a chamfer cutter and engraver's milling cutter 30° or 45° including five indexable inserts SEEX 12T408, 1 clamping screw, 1 wrench. In a practical tool box.

Set	17536	...
30°		203
45°		204

17536 205

Applications						P M K
Coating						TiN/PVD
ISO designation	**l mm**	**s mm**	**r mm**		17536	...
SEEX 12T408	12.25	5.25	0.8	10 pcs.		205

Spare parts		Clamping screw		Wrench	
Size	**TX size T**	17536	...	52529	...
M 4 x 11.0	15		206		406

17540 - 17541 T-slot cutter

ATORN®

Design
- T-slot cutter made of special steel with driving surface according to DIN 1835 B

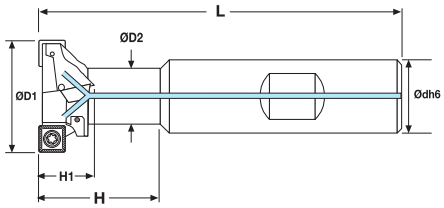
Advantage:
For ISO indexable inserts SPMT.

Scope of delivery:
- With clamping screw and wrench
- **Without** indexable inserts

Applications
For T-slots in accordance with DIN-UNI 4788-ISO 299.

17540

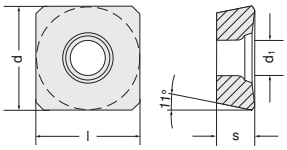
Ø D1 mm	Ø D2 mm	L mm	H mm	H1 mm	Ø dh6 mm	K mm	Z	Indexable inserts	17540 ...
21	11	76	26	9	16	1	2	SPMT 060304	**110**
25	13	82	31	11	16	2	4	SPMT 060304	**111**
32	17	88	38	14	20	2	4	SPMT 09T308	**112**
40	21	108	50	17	25	2	4	SPMT 09T308	**113**
50	27	120	56	22	32	2	4	SPMT 120408	**114**



Indexable inserts and spare parts

17541

Applications / Cemented carbide grade						P M K HC 4635	
ISO designation	l mm	d mm	s mm	d_1 mm	r mm	17541	...
SPMT 060304	6.35	6.35	3.18	2.8	0.4		**201**
SPMT 09T308	9.52	9.52	3.97	4.5	0.8		**202**
SPMT 120408	12.70	12.70	4.76	5.5	0.8		**203**

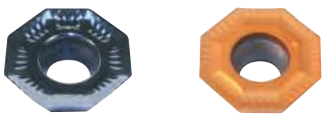


Spare parts		Clamping screw		Wrench	
For indexable inserts size	TX size T	17520	...	52529	...
SPMT 06..	8		**202**		**403**
SPMT 09..	15		**206**		**406**
SPMT 12..	20		**207**		**407**

17710 Indexable milling inserts OFEX/OFMT

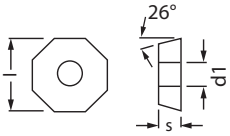
ATORN®

17710 401 17710 403



Applications / Carbide type / Coating				N HW 4410 Uncoated		P K HC 4635 Coated		P M HC 4535 Coated	
ISO designation	l mm	d1 mm	s mm	17710	...	17710	...	17710	...
OFEX 05T305	12.7	4.5	3.97		**401**				
OFMT 05T305	12.7	4.5	3.97				**402**		**403**

Spare parts		Clamping screw		Wrench	
For indexable inserts size	TX size T	17710	...	52529	...
OF.. 05T3..	15		**301**		**406**



Face and copy milling cutters

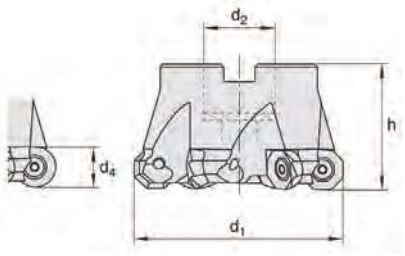
ATORN®

Design
- High feed rates and smooth running
- Wide pitch means minimal power required
- Suitable for low-performance machines
- Axial and oblique plunge milling possible, suitable for excavation and pocket milling
- **Without** indexable inserts

Applications
Universal use for a broad range of materials.
For face milling with 8-edge, 12-edge or round indexable inserts **OCKX, RCKX or XCKX.**

Note:
*Ø 52–100 mm **with** internal cooling supply*
*Ø 125 mm **without** internal cooling supply*

17707



Face and copy milling cutters

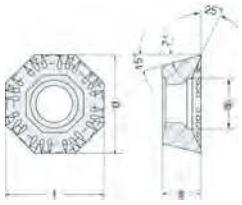
d_1 mm	d_2 mm	h mm	d_4 mm	Z	17707	...
52	22	40	16	4		**101**
66	27	50	16	5		**102**
80	27	50	16	6		**103**
100	32	50	16	7		**104**
125	40	63	16	8		**105**

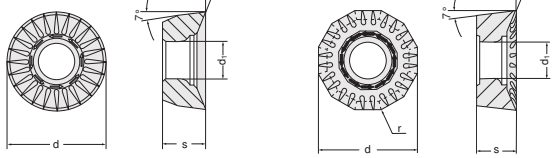
Indexable inserts and spare parts

17817
Design
- TRT with wide cutting edge chamfer

Applications
HC 4640 = roughing.
HC 4410 = aluminium/non-ferrous metals.

OCKX **RCKX** **XCKX** 17817





Applications Cemented carbide grade Coating ISO designation	s mm	l mm	d mm	d_1 mm	r mm		PM HC 4640 coated 17817	...	KN HC 4410 coated 17817	...
OCKX 0606 AD-TR	6.35	16	16	5.8	0.5	10 pcs.		**115**		**105**
RCKX 1606 MO-TR	6.35	-	16	5.8	-	10 pcs.		**117**		**107**
RCKX 1606 MO-TRT	6.35	-	16	5.8	-	10 pcs.				**108**
XCKX 1606 ZDR-TR	6.35	-	16	5.8	-	10 pcs.		**119**		

		Clamping screw		Wrench	
Size	**TX size T**	**17708**	...	**52529**	...
M 5 x 12	20		**101**		**407**

Info — The HHW colour guidance system

With the **HHW** colour guidance system you can see at first glance which materials the tool is suitable for. In most catalogue sections, the **HHW** also informs you about the application data for the corresponding tool. The **HHW** colour guidance system is logically structured according to the steel key. This means that you can select the appropriate tools in advance of the machining process, saving you time and money.

St<1200N	St<1400N	<45HRC	<55HRC	<60HRC	<67HRC	VA-steel<900N	VA-steel>900N	Ti alloys	GG(G)	plastics
40-50	35-40	-	-	-	-	35-45	35-45	-	80-120	-

Use HM grade Coating Designation	$W^{\pm 0,1}$ mm	$R^{\pm 0,05}$ mm		PMK H 42 coated 18674	...
GTN-2	2,2	0,16	10 pieces		**113**
GTN-3	3,1	0,20	10 pieces		**114**

17722 - 17847 Face milling cutters, 45°

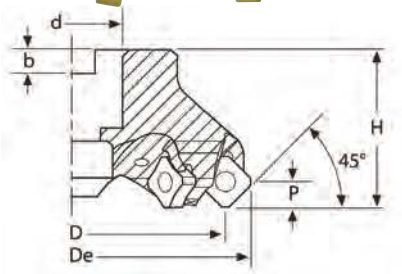
ATORN®

Design
- Double-sided indexable inserts
- Large clamping angle
- Eight cutting edges
- Cutting with low cutting force and excellent surface finish
- With internal cooling (except art. no. 17722 107–108)

Applications
For universal use.

Note:
Supplied with clamping screw and wrench.

17722

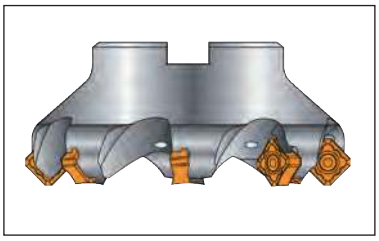


Narrow pitch

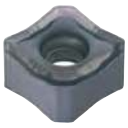
Ø D mm	Ø De mm	d mm	b mm	H mm	p mm	Z	17722 ...
50	63	22	6.3	40	6	4	101
63	76	22	6.3	40	6	6	102
80	93	27	7.0	50	6	7	103
100	113	32	8.0	50	6	8	104
125	138	40	9.0	63	6	10	105
160	173	40	9.0	63	6	12	106
200	213	60	13.5	63	6	14	107
250	263	60	13.5	63	6	16	108

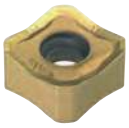
Extra narrow pitch

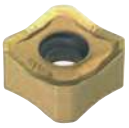
Ø D mm	Ø De mm	d mm	b mm	H mm	p mm	Z	17722 ...
50	63	22	6.3	40	6	6	110
63	76	22	6.3	40	6	8	111
80	93	27	7.0	50	6	10	112
100	113	32	8.0	50	6	12	113
125	138	40	9.0	63	6	16	114
160	173	40	9.0	63	6	20	115

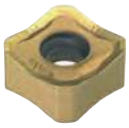


Indexable inserts and spare parts


17847 101


17847 103+203


17847 102+202


17847 104+204


17847 105


17847 205-207

Applications / Carbide type / Coating	KF mm		N HW 4310 Uncoated 17847 ...	P HC 4630 Coated 17847 ...	M HC 4535 Coated 17847 ...	K HC 4410 Coated 17847 ...	P M K HC 4635 (UNI) Coated 17847 ...
ISO designation							
SNEX 1206 ANN-MA	2.36	10 pcs.	101				
SNMX 1206 ANN-MB1	2.36	10 pcs.		103	102	104	
SNKX 1206 ANN-MM1	2.36	10 pcs.					105
SNMU 1206 ANER	2.36	10 pcs.		203	202	204	
ONMU 1205 ANN	2.36	10 pcs.		205 NEW	206 NEW	207 NEW	

Spare parts / For indexable inserts size	Screw	TX size T	Clamping screw 17723 ...	Wrench 52529 ...
SN.X 1206	M 4.0 x 11.0	20	101	407

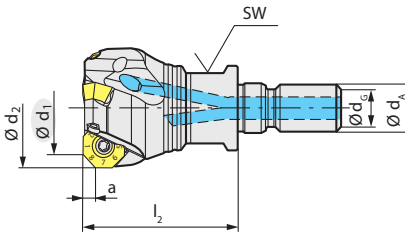
= The specified prices are unit prices. Only sold in the specified packing units. Always specify number of units in order information.

CUTTING SOLUTIONS BY CERATIZIT

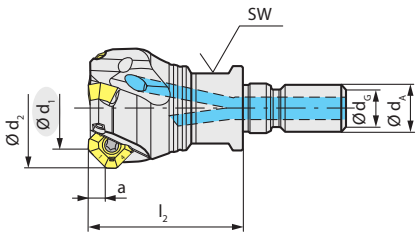
Design
- Sturdy basic body
- Extremely positive installation position of the indexable insert
- Patented screw clamping

Advantages:
- Soft cut
- Low power requirement
- 8 usable cutting edges

Scope of delivery:
- Basic body with clamping screws
- **Without** indexable inserts



17876 101-103
(with indexable insert OF..)

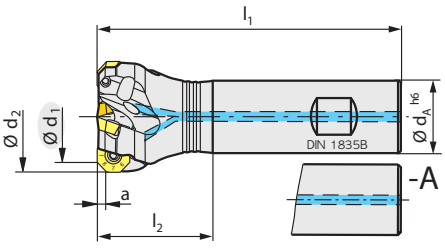


17876 101-103
(with indexable insert SF..)

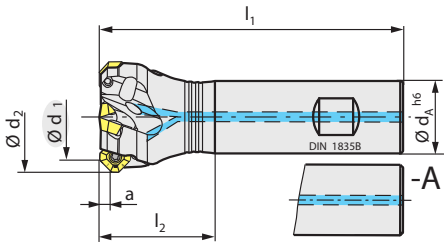
with thread

Ø d_1 mm	Designation	Z	Ø d_2 mm	l_2 mm	a mm	Ø d_A mm	Ø d_G mm	Indexable inserts	17876	...
20 (18.9)	G274.20.R.03-09	3	25.6 (27.4)	35 (35.7)	2.5 (3.8)	12.5	12	OF.. 04.. / SF.. 09..		**101**
25 (23.8)	G274.25.R.04-09	4	30.6 (32.5)	35 (35.7)	2.5 (3.8)	12.5	12	OF.. 04.. / SF.. 09..		**102**
32 (30.7)	G274.32.R.05-09	5	37.7 (39.5)	35 (35.7)	2.5 (3.8)	17.0	16	OF.. 04.. / SF.. 09..		**103**

(*) Dimensions for indexable insert SF



17876 201-206
(with indexable insert OF..)



17876 201-206
(with indexable insert SF..)

with shank

Ø d_1 mm	Designation	Z	Ø d_2 mm	l_1 mm	l_2 mm	a mm	Ø d_A mm	Indexable inserts	17876	...
20 (18.9)	C274.20.R.03-09-A-25	3	25.6 (27.4)	77 (77.7)	25 (25.7)	2.5 (3.8)	20	OF.. 04.. / SF.. 09..		**201**
20 (18.9)	C274.20.R.03-09-B-25	3	25.6 (27.4)	77 (77.7)	25 (25.7)	2.5 (3.8)	20	OF.. 04.. / SF.. 09..		**202**
25 (23.8)	C274.25.R.04-09-A-20-32	4	30.7 (32.5)	84 (84.7)	32 (32.7)	2.5 (3.8)	20	OF.. 04.. / SF.. 09..		**203**
25 (23.8)	C274.25.R.04-09-B-20-32	4	30.7 (32.5)	84 (84.7)	32 (32.7)	2.5 (3.8)	20	OF.. 04.. / SF.. 09..		**204**
32 (30.7)	C274.32.R.05-09-A-25-40	5	37.7 (39.5)	98 (98.7)	40 (40.7)	2.5 (3.8)	25	OF.. 04.. / SF.. 09..		**205**
32 (30.7)	C274.32.R.05-09-B-25-40	5	37.7 (39.5)	98 (98.7)	40 (40.7)	2.5 (3.8)	25	OF.. 04.. / SF.. 09..		**206**

(*) Dimensions for indexable insert SF

Continued

17876 - 17877 Face milling cutter system 274

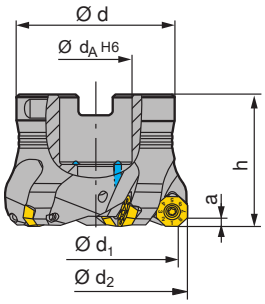
Continued

CUTTING SOLUTIONS BY CERATIZIT

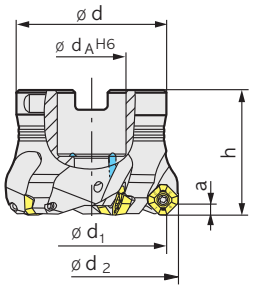
Design
- Sturdy basic body
- Extremely positive installation position of the indexable insert
- Patented screw clamping

Advantages:
- Soft cut
- Low power requirement
- 8 usable cutting edges

Scope of delivery:
- Basic body with clamping screws
- **Without** indexable inserts



17876 301-312
(with indexable insert OF..)

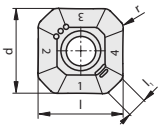


17876 301-312
(with indexable insert SF..)

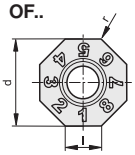
Ø d_1 mm	Designation	Z	Ø d_2 mm	h mm	Ø d mm	Ø d_A mm	a mm	Indexable inserts	with bore 17876	...
32 (30.7)	A274.32.R.05-09	5	37.7 (39.2)	40 (40.7)	38	16	2.5 (3.8)	OF.. 04.. / SF.. 09..		**301**
40 (38.7)	A274.40.R.04-09	4	45.7 (47.6)	40 (40.7)	38	16	2.5 (3.8)	OF.. 04.. / SF.. 09..		**302**
40 (38.7)	A274.40.R.06-09	6	45.7 (47.6)	40 (40.7)	38	16	2.5 (3.8)	OF.. 04.. / SF.. 09..		**303**
50 (48.7)	A274.50.R.05-09	5	55.7 (57.6)	40 (40.7)	48	22	2.5 (3.8)	OF.. 04.. / SF.. 09..		**304**
50 (48.7)	A274.50.R.07-09	7	55.7 (57.6)	40 (40.7)	48	22	2.5 (3.8)	OF.. 04.. / SF.. 09..		**305**
63 (61.7)	A274.63.R.06-09	6	68.7 (70.5)	40 (40.7)	48	22	2.5 (3.8)	OF.. 04.. / SF.. 09..		**306**
63 (61.7)	A274.63.R.09-09	9	68.7 (70.5)	40 (40.7)	48	22	2.5 (3.8)	OF.. 04.. / SF.. 09..		**307**
80 (78.7)	A274.80.R.07-09	7	85.7 (87.5)	50 (50.7)	58	27	2.5 (3.8)	OF.. 04.. / SF.. 09..		**308**
80 (78.7)	A274.80.R.11-09	11	85.7 (87.5)	50 (50.7)	58	27	2.5 (3.8)	OF.. 04.. / SF.. 09..		**309**
100 (98.7)	A274.100.R.09-09	9	105.7 (107.5)	50 (50.7)	78	32	2.5 (3.8)	OF.. 04.. / SF.. 09..		**310**
100 (98.7)	A274.100.R.13-09	13	105.7 (107.5)	50 (50.7)	78	32	2.5 (3.8)	OF.. 04.. / SF.. 09..		**311**
125 (123.7)	A274.125.R.12-09	12	130.7 (132.5)	63 (63.7)	88	40	2.5 (3.8)	OF.. 04.. / SF.. 09..		**312**

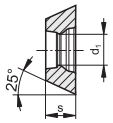
(*) Dimensions for indexable insert SF

SF..



OF..





	17877 101	17877 104	17877 102	17877 105	17877 103	17877 106
Applications		N		M P		P
Cemented carbide type		CTWN215		CTPM245		CTPP235
Coating		uncoated		PVD		PVD

Designation	d mm	l mm	s mm	l_1 mm	r mm	d_1 mm		17877 ...	17877 ...	17877 ...
SFHT 0903AFFR-F10	9.52	9.52	3.18	1.73	1.0	3.35	10 pcs.	101		
SFHT 0903AFSR-F50	9.52	9.52	3.18	1.73	1.0	3.35	10 pcs.		102	
SFKT 0903AFSR-M50	9.52	9.52	3.18	1.73	1.0	3.35	10 pcs.			103
OFHT 040305FN-F10	9.52	3.94	3.18	-	0.5	3.35	10 pcs.	104		
OFHT 040305SN-F50	9.52	3.94	3.18	-	0.5	3.35	10 pcs.		105	
OFHT 040305SN-M50	9.52	3.94	3.18	-	0.5	3.35	10 pcs.			106

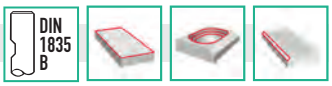
Spare parts for indexable inserts Size	Clamping screw	Key	Clamping screw 10 17999 ...	Wrench 51932 ...
OF.. 04.. / SF.. 09..	M 2.5 x 7.6	IP 8	122	404

For cutters with bore Ø d_1 mm	For indexable inserts size	Power screw	Power screw 17998 ...
32 (30.7)–40 (38.7)	OF.. 04.. / SF.. 09..	M 8 x 30.0	**101**

(*) Dimensions for indexable insert SF

= The specified prices are unit prices. Only sold in the specified packing units. Always specify number of units in order information.

17534 Chamfer cutters, 45°



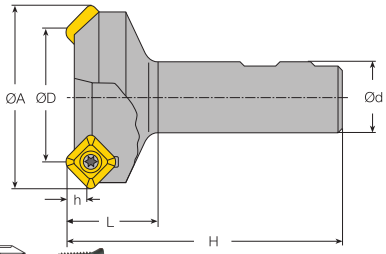
ATORN®

Design
- **Positive**
- Right cutting
- Combination shank with straight shank in accordance with DIN 1835 B
- **Without** indexable inserts

Applications
For chamfering, face milling and circular milling.

Note:
For indexable inserts see art. no. 17838 and 17845.

17534

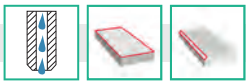


Ø D mm	Ø d h6 mm	L mm	Z	Indexable inserts	17534	...
24	25	100	2	SE.T 1204..		102
32	25	110	3	SE.T 1204..		103
40	32	115	4	SE.T 1204..		104

Spare parts

For indexable inserts size	Clamping screw	Length mm	TX size T	Clamping screw 17721	...	Wrench 52529	...
SE.T 1204..	M 5.0 x 0.8	11	20		101		407

17720 Face milling cutter 45°

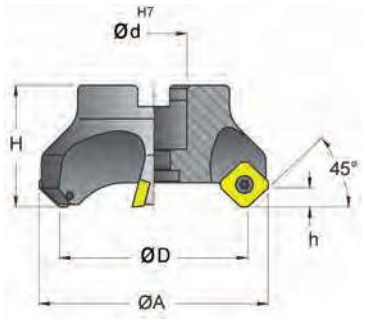


ATORN®

Design
- **Positive**
- Right cutting
- **Without** indexable inserts
- With internal cooling (except art. no. 17720 214–215)

Applications
For square indexable inserts SE.T 1204..
Item no. 17838 and 17845.

17720



Narrow pitch

Ø D mm	Ø d H7 mm	H mm	Ø A mm	h mm	Z	Indexable inserts	17720	...
40	16	40	53	6	3	SE.T 1204..		200
50	22	48	63	6	4	SE.T 1204..		201
63	22	48	76	6	5	SE.T 1204..		202
80	27	50	93	6	6	SE.T 1204..		203
100	32	50	113	6	6	SE.T 1204..		204
125	40	63	138	6	7	SE.T 1204..		205
160	40	63	173	6	8	SE.T 1204..		206
200	60	63	213	6	12	SE.T 1204..		214
250	60	63	263	6	16	SE.T 1204..		215

Extra narrow pitch

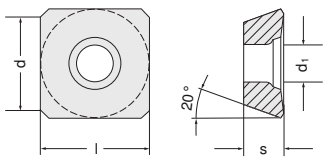
Ø D mm	Ø d H7 mm	H mm	Ø A mm	h mm	Z	Indexable inserts	17720	...
40	16	40	53	6	4	SE.T 1204..		207
50	22	48	63	6	5	SE.T 1204..		208
63	22	48	76	6	6	SE.T 1204..		209
80	27	50	93	6	7	SE.T 1204..		210
100	32	50	113	6	8	SE.T 1204..		211
125	40	63	138	6	9	SE.T 1204..		212
160	40	63	173	6	10	SE.T 1204..		213

Spare parts

For indexable inserts size	Clamping screw	Length mm	TX size T	Clamping screw 17721	...	Wrench 52529	...
SE.T 1204..	M 5.0 x 0.8	11	20		101		407

17838 Indexable milling inserts, SEHT

Design
- **Square**
- Positive 20°
- With chip breaker



17838 203

17838 202

Applications
Carbide type
Coating

N
H 25/Al
Uncoated

PM
H 42
TiN

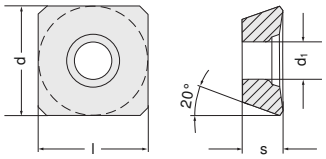
ISO designation	d+l mm	d_1 mm	s mm		17838	...	17838	...
SEHT 1204 AF	12.7	5.50	4.76	10 pcs.				202
SEHT 1204 AF-AL	12.7	5.50	4.76	10 pcs.		203		

17845 Indexable milling inserts, SEET

ATORN®

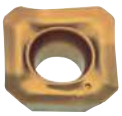
Design
- **Square**
- Positive 20°
- With chip breaker

Tolerance classes in comparison:
SEET +/- 0.025 mm,
SEKT +/- 0.130 mm.



17845 101

17845 102-103



Applications					N		P M K		M K	
Cemented carbide grade					HW 4410		HC 4540		HC 4620	
Coating					uncoated		coated		coated	
ISO designation	d+l mm	d_1 mm	s mm		17845	...	17845	...	17845	...
SEET 1204 AF SN	12.7	5.50	4.76	10 pcs.		101		103		102

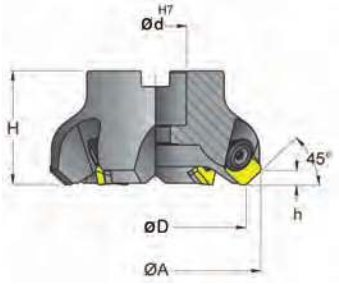
17728 - 17729 Face milling cutter 45°

ATORN®

Design
- **Positive**
- Right- and left-hand cutting
- **Without** indexable inserts

Applications
For square indexable inserts, SEE. 1203, art. no. 17841 + 17843.

17728



		Right-hand cutting		Left-hand cutting	
Ø D mm	Ø d mm	H mm	Ø A mm	h mm	Z	Indexable inserts	17728	...	17728	...
50	22	48	63	6	4	SEE. 1203		101		109 NEW
63	22	40	76	6	5	SEE. 1203		102		110 NEW
80	27	50	93	6	6	SEE. 1203		103		111 NEW
100	32	50	113	6	6	SEE. 1203		104		112 NEW
125	40	63	138	6	7	SEE. 1203		105		113 NEW
160	40	63	173	6	8	SEE. 1203		106		
200	60	63	213	6	10	SEE. 1203		107		
250	60	63	263	6	13	SEE. 1203		108		

		Spare parts 17729	...
Support plate	-		101
Screw for support plate	10 pcs.		102
Clamping screw for right-hand cutting face milling cutters	10 pcs.		103
Clamping screw for left-hand cutting face milling cutters	10 pcs.		104 NEW

17729 101

17729 102

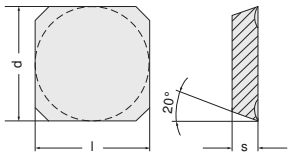
17729 103

17841 Indexable milling inserts, SEEN

ATORN®

Design
- **Square**
- Positive 20°
- Without chip breaker

Tolerance classes in comparison:
SEEN +/- 0.025 mm,
SEKN +/- 0.130 mm.



17841 103

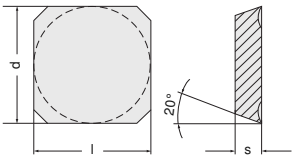
Applications				P M K		M K	
Cemented carbide grade				HC 4540		HC 4620	
Coating				coated		coated	
ISO designation	d+l mm	s mm		17841	...	17841	...
SEEN 1203 AF FN	12.7	3.18	10 pcs.		103		102
SEEN 1203 AF SN	12.7	3.18	10 pcs.		107		106

17843 Indexable milling inserts, SEER

ATORN®

Design
- **Square**
- Positive 20°
- With chip breaker

Tolerance classes in comparison:
SEER +/- 0.025 mm,
SEKR +/- 0.130 mm.



17843 102

Applications				P M K		M K	
Cemented carbide grade				HC 4540		HC 4620	
Coating				coated		coated	
ISO designation	d+l mm	s mm		17843	...	17843	...
SEER 1203 AF SN	12.7	3.18	10 pcs.		102		101

= The specified prices are unit prices. Only sold in the specified packing units. Always specify number of units in order information.

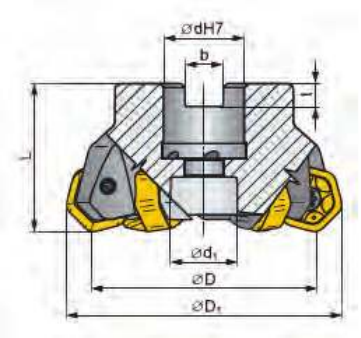
17739 Face milling cutter 45°

Design
- Indexable insert tool for roughing and for medium machining
- Uneven tooth pitch for smooth running
- New material and hardening technologies for maximum tool accuracy
- Special surface treatment for optimum corrosion resistance and longer service life

Advantage:
- Favourable cutting costs due to the 12-edged indexable insert

Applications
For face milling, chamfering, oblique plunge milling.
HNGJ09-S indexable insert for medium machining
HNGJ09-R indexable insert for roughing

17739 101-105

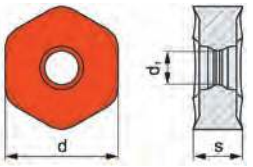


Ø D mm	Ø d H7 mm	d_1 mm	L mm	D_1 mm	Z		17739 ...
50	22	18	40	61.7	4		101
63	22	19	41	74.7	6		102
80	27	38	50	91.7	6		103
80	27	39	51	91.7	8		104
100	32	45	52	111.7	8		105

Indexable inserts and spare parts

17739 201-204

Applications				PM		PK		PK	
Carbide type				P 40		P 30		K 15	
Coating				coated		coated		coated	
Designation	d mm	s mm	d_1 mm	17739	...	17739	...	17739	...
HNGJ09-S	16.5	6.35	4.9		201		202		
HNGJ09-R	16.5	6.35	4.9				204		203



Spare parts		Clamping screw	
Indexable insert size	Size	17739	...
HNGJ09	M4		301

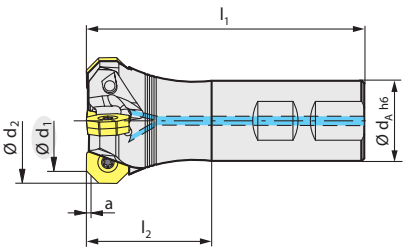
17873 - 17874 Face milling cutter system 273-6

CUTTING SOLUTIONS BY CERATIZIT

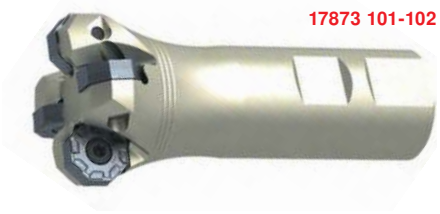
Design
- Sturdy basic body with Hard & Tough coating
- Maximum number of cutting edges

Advantages:
- Highly economical
- Reduced power consumption
- High stability and running smoothness

Scope of delivery:
- Basic body with clamping screws
- **Without** indexable inserts



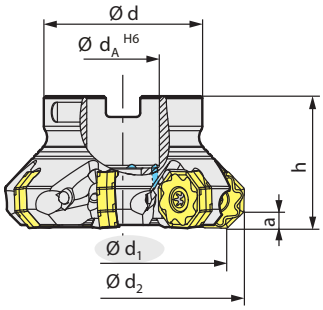
17873 101-102



with shank

Ø d_1 mm	Designation	Z	Ø d_2 mm	l_1 mm	l_2 mm	Ø d_A mm	a mm	Indexable inserts	17873 ...
32	C273.32.R.03-06-B-40	3	42.2	101	40	32	3.5	OAKU 06..	101
40	C273.40.R.04-06-B32-50	4	50.2	111	50	32	3.5	OAKU 06..	102

17873 201-206

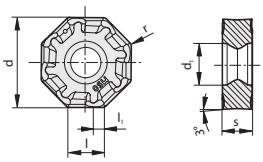


with bore

Ø d_1 mm	Designation	Z	Ø d_2 mm	h mm	Ø d mm	Ø d_A mm	a mm	Indexable inserts	17873 ...
40	A273.40.R.04-06	4	50.2	40	38	16	3.5	OAKU 06..	201
50	A273.50.R.05-06	5	60.2	40	48	22	3.5	OAKU 06..	202
63	A273.63.R.07-06	7	73.2	40	48	22	3.5	OAKU 06..	203
80	A273.80.R.08-06	8	90.2	50	58	27	3.5	OAKU 06..	204
100	A273.100.R.10-06	10	110.2	50	78	32	3.5	OAKU 06..	205
125	A273.125.R.12-06	12	135.2	63	88	40	3.5	OAKU 06..	206

Indexable inserts and spare parts

17874



Applications								M P	P
Cemented carbide grade								CTPM245	CTPP235
Coating								PVD	PVD
Designation	d mm	l mm	s mm	l_1 mm	r mm	d_1 mm		17874 ...	17874 ...
OAKU 060508ER-F40	17.18	6.00	5.56	2.0	0.8	5.8	10 pcs.	101	
OAKU 060508SR-M50	17.18	6.00	5.56	2.0	0.8	5.8	10 pcs.		102

Spare parts for indexable inserts Size	Clamping screw	Key	Clamping screw 17999 ...	Wrench 51932 ...
OAKU 06..	M 5.0 x 14.0	T 20	121	208

Power screw

For cutters with bore Ø d_1 mm	Power screw	For indexable inserts size	17998 ...
40	M 8 x 30.0	OAKU 06..	101
50	M 10 x 31.0	OAKU 06..	102

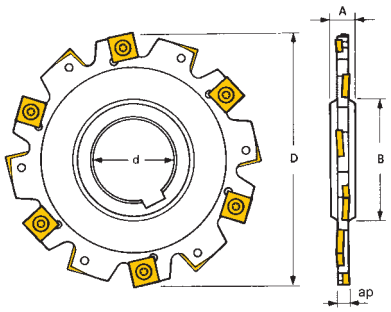
= The specified prices are unit prices. Only sold in the specified packing units. Always specify number of units in order information.

ATORN®

17780

Design
Three-sided cutting, fixed width. Generates a slight arched shape in the groove base. Supplied with clamping screws.

Applications
For bolted indexable inserts (see art. no. 17785–17786). For slitting, cutting and grooving.



For indexable inserts SNHX 1102T

D mm	d mm	ap mm	A mm	B mm	Z	Z eff.	Cutting depth ae max. mm	Indexable inserts	Clamping screws	17780	...
63	22	4	8	34	8	4	14	SNHX 1102T	VTX 3503		**101**
80	22	4	8	34	10	5	22	SNHX 1102T	VTX 3503		**104**
100	27	4	12	45	12	6	24	SNHX 1102T	VTX 3503		**107**
125	40	4	12	58	14	7	33	SNHX 1102T	VTX 3503		**114**
160	40	4	12	68	18	9	45	SNHX 1102T	VTX 3503		**122**
200	50	4	12	72	18	9	62	SNHX 1102T	VTX 3503		**131**

For indexable inserts SNHX 1103T

D mm	d mm	ap mm	A mm	B mm	Z	Z eff.	Cutting depth ae max. mm	Indexable inserts	Clamping screws	17780	...
63	22	5	8	34	8	4	14	SNHX 1103T	VTX 3504		**102**
80	22	5	8	34	10	5	22	SNHX 1103T	VTX 3504		**105**
100	27	5	12	45	12	6	24	SNHX 1103T	VTX 3504		**108**
125	40	5	12	58	14	7	33	SNHX 1103T	VTX 3504		**115**
160	40	5	12	68	18	9	45	SNHX 1103T	VTX 3504		**123**
200	50	5	12	72	18	9	62	SNHX 1103T	VTX 3504		**132**

For indexable inserts SNHX 1203T

D mm	d mm	ap mm	A mm	B mm	Z	Z eff.	Cutting depth ae max. mm	Indexable inserts	Clamping screws	17780	...
63	22	6	8	34	6	3	14	SNHX 1203T	VTX 405		**103**
80	22	6	8	34	8	4	22	SNHX 1203T	VTX 405		**106**
100	27	6	12	45	10	5	24	SNHX 1203T	VTX 405		**109**
125	40	6	12	58	12	6	33	SNHX 1203T	VTX 405		**116**
160	40	6	12	68	16	8	45	SNHX 1203T	VTX 405		**124**
200	50	6	12	72	18	9	62	SNHX 1203T	VTX 405		**133**

For indexable inserts SNHX 1205T

D mm	d mm	ap mm	A mm	B mm	Z	Z eff.	Cutting depth ae max. mm	Indexable inserts	Clamping screws	17780	...
100	27	10	12	45	10	5	24	SNHX 1205T	VTX 408		**113**
125	40	10	12	58	12	6	33	SNHX 1205T	VTX 408		**120**
160	40	10	12	68	16	8	45	SNHX 1205T	VTX 408		**128**
160	40	14	14	68	15	5	45	SNHX 1205T	VTX 408		**130**
200	50	10	12	72	18	9	62	SNHX 1205T	VTX 408		**135**
200	50	14	14	72	18	6	62	SNHX 1205T	VTX 408		**137**
250	50	10	12	72	24	12	88	SNHX 1205T	VTX 408		**139**

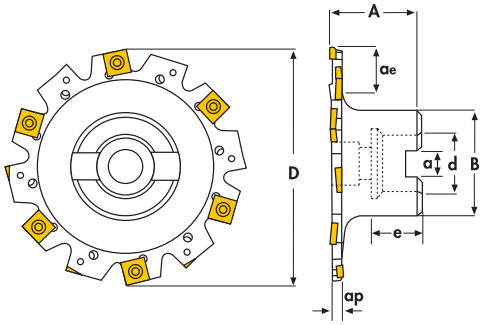
Al<10%Si	Al>10%Si	Cu	St<520N	St<750N	St<900N	St<1100N	St<1200N	St<1400N	<45HRC	<55HRC	<60HRC	<67HRC	VA<900N	VA>900N	Ti alloy	GG(G)	Plastic
300-350	300-350	-	140-200	140-200	140-200	120-150	120-150	120-150	-	-	-	-	130-160	130-160	-	100-140	-

17782 - 17789 Disc milling cutters with collar

ATORN®

Design
With collar. Three-sided cutting, fixed width.
Generates a slight arched shape in the groove base.
Supplied with clamping screws.

Applications
For bolted indexable inserts.
For slitting, cutting and grooving.



17782

For indexable inserts SNHX 1102T

D mm	d mm	ap mm	A mm	B mm	a mm	e mm	Z	Z eff.	Cutting depth ae max. mm	Indexable inserts	Clamping screws	17782 ...
63	22	4	50	40	10.4	21	6	3	10.5	SNHX 1102T	VTX 3503	101
80	22	4	50	40	10.4	21	8	4	20.2	SNHX 1102T	VTX 3503	104
100	27	4	50	48	12.4	23	12	6	24.2	SNHX 1102T	VTX 3503	107

For indexable inserts SNHX 1103T

D mm	d mm	ap mm	A mm	B mm	a mm	e mm	Z	Z eff.	Cutting depth ae max. mm	Indexable inserts	Clamping screws	17782 ...
63	22	5	50	40	10.4	21	6	3	10.5	SNHX 1103T	VTX 3504	102
80	22	5	50	40	10.4	21	8	4	20.2	SNHX 1103T	VTX 3504	105
100	27	5	50	48	12.4	23	12	6	24.2	SNHX 1103T	VTX 3504	108

For indexable inserts SNHX 1203T

D mm	d mm	ap mm	A mm	B mm	a mm	e mm	Z	Z eff.	Cutting depth ae max. mm	Indexable inserts	Clamping screws	17782 ...
63	22	6	50	40	10.4	21	6	3	10.5	SNHX 1203T	VTX 405	103
80	22	6	50	40	10.4	21	8	4	20.2	SNHX 1203T	VTX 405	106
100	27	6	50	48	12.4	23	10	5	24.2	SNHX 1203T	VTX 405	109
125	40	6	50	70	16.4	30	12	6	23.7	SNHX 1203T	VTX 405	111
160	40	6	50	70	16.4	30	16	8	41.2	SNHX 1203T	VTX 405	113

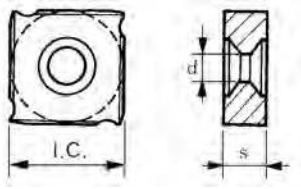
For indexable inserts SNHX 1205T

D mm	d mm	ap mm	A mm	B mm	a mm	e mm	Z	Z eff.	Cutting depth ae max. mm	Indexable inserts	Clamping screws	17782 ...
100	27	10	50	48	12.4	23	10	5	24.2	SNHX 1205T	VTX 408	110
125	40	10	50	70	16.4	30	12	6	23.7	SNHX 1205T	VTX 408	112
160	40	10	50	70	16.4	30	16	8	41.2	SNHX 1205T	VTX 408	114

Indexable inserts and spare parts

17785 - 17786

Applications					PMK	K
Carbide type					HC 4630	HW 7415
Coating					TiAlN-coated	Uncoated
ISO designation	l.C. mm	d mm	s mm		17785 ...	17786 ...
SNHX 1102T	11.0	4.4	2.3	10 pcs.	101	101
SNHX 1103T	11.0	4.4	2.7	10 pcs.	102	102
SNHX 1203T	12.7	5.0	3.2	10 pcs.	103	103
SNHX 1205T	12.7	5.0	5.4	10 pcs.	105	105



Type	Size	TX size T	Clamping screws 10	17789 ...	Wrench	52529 ...
VTX 3503	M 3.5 x 3	9		101		404
VTX 3504	M 3.5 x 4	9		102		404
VTX 405	M 4.0 x 5	15		103		406
VTX 408	M 4.0 x 8	15		104		406

Al<10%Si	Al>10%Si	Cu	St<520N	St<750N	St<900N	St<1100N	St<1200N	St<1400N	<45HRC	<55HRC	<60HRC	<67HRC	VA<900N	VA>900N	Ti alloy	GG(G)	Plastic
300-350	300-350	-	140-200	140-200	140-200	120-150	120-150	120-150	-	-	-	-	130-160	130-160	-	100-140	-

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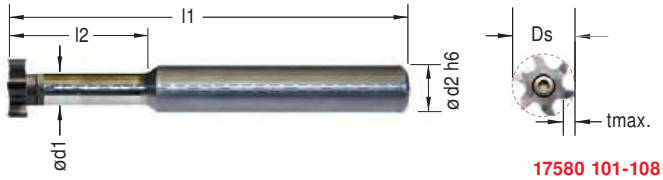
Dümmel WERKZEUGFABRIK

17580
Clamp holder type ZH22
Design
- With internal coolant supply
- 3-rib toothing

Applications
For producing grooves,
Seeger ring grooves, metric ISO threads, Whitworth pipe threads and full radius grooves, and for chamfering and deburring.



17580 101-108
Solid carbide shaft, DIN 6535 HA

17580 101-108

Designation	Ø d2 h6 mm	Ø d1 mm	l1 mm	l2 mm	Cutting circle Ø DS mm	t max. mm	Clamping screw	TX wrench	17580	...
ZH22.1212.42.A.HM	12	-	100	42	21.7	4.5	M5 (17581 101)	T 20 (51932 208)		101
ZH22.1212.60.A.HM	12	-	130	60	21.7	4.5	M5 (17581 101)	T 20 (51932 208)		102
ZH22.1611.30.A.HM	16	11.5	90	30	21.7	3.9	M5 (17581 101)	T 20 (51932 208)		103
ZH22.1612.42.A.HM	16	12.0	100	42	21.7	4.5	M5 (17581 101)	T 20 (51932 208)		104
ZH22.1612.60.A.HM	16	12.0	130	60	21.7	4.5	M5 (17581 101)	T 20 (51932 208)		105
ZH22.1612.85.A.HM	16	12.0	160	85	21.7	4.5	M5 (17581 101)	T 20 (51932 208)		106
ZH22.2016.45.A.HM	20	16.0	110	45	21.7	2.5	M5 (17581 101)	T 20 (51932 208)		107
ZH22.2016.65.A.HM	20	16.0	130	65	21.7	2.5	M5 (17581 101)	T 20 (51932 208)		108

17580 201-203
Steel shaft, DIN 1835

17580 201-203

Designation	Ø d2 h6 mm	Ø d1 mm	l1 mm	l2 mm	Cutting circle Ø DS mm	t max. mm	Clamping screw	TX wrench	17580	...
ZH22.1011.10.A.ST	10	11.3	60	10.7	21.7	4.5	M5 (17581 101)	T 20 (51932 208)		201
ZH22.1311.25.A.ST	13	11.3	70	25.7	21.7	4.0	M5 (17581 101)	T 20 (51932 208)		202
ZH22.1612.24.A.ST	16	12.0	80	24.0	21.7	4.5	M5 (17581 101)	T 20 (51932 208)		203

17580 301-308
Solid carbide shaft, DIN 6535 HB

17580 301-308

Designation	Ø d2 h6 mm	Ø d1 mm	l1 mm	l2 mm	Cutting circle Ø DS mm	t max. mm	Clamping screw	TX wrench	17580	...
ZH22.1212.42.B.HM	12	-	100	42	21.7	4.5	M5 (17581 101)	T 20 (51932 208)		301
ZH22.1212.60.B.HM	12	-	130	60	21.7	4.5	M5 (17581 101)	T 20 (51932 208)		302
ZH22.1611.30.B.HM	16	11.5	90	30	21.7	3.9	M5 (17581 101)	T 20 (51932 208)		303
ZH22.1612.42.B.HM	16	12.0	100	42	21.7	4.5	M5 (17581 101)	T 20 (51932 208)		304
ZH22.1612.60.B.HM	16	12.0	130	60	21.7	4.5	M5 (17581 101)	T 20 (51932 208)		305
ZH22.1612.85.B.HM	16	12.0	160	85	21.7	4.5	M5 (17581 101)	T 20 (51932 208)		306
ZH22.2016.45.B.HM	20	16.0	110	45	21.7	2.5	M5 (17581 101)	T 20 (51932 208)		307
ZH22.2016.65.B.HM	20	16.0	130	65	21.7	2.5	M5 (17581 101)	T 20 (51932 208)		308

17580 401
Steel shaft, DIN 1835 B

17580 401

Designation	Ø d2 h6 mm	Ø d1 mm	l1 mm	l2 mm	Cutting circle Ø DS mm	t max. mm	Clamping screw	TX wrench	17580	...
ZH22.1612.24.B.ST	16	12	80	24	21.7	4.5	M5 (17581 101)	T 20 (51932 208)		401

Spare parts		Clamping screw		TX wrench	
Clamping screw	TX size T	17581	...	51932	...
M5	20		101		208

Continued

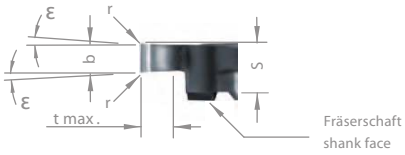
17580 - 17593 Groove and circular form milling system, MINI MILL

Continued

17582

Dümmel WERKZEUGFABRIK

- Cutting inserts for **Seeger ring grooves,** DIN 471/472 and **general groove milling**
- Cemented carbide/AL 41F TiAlN-coated

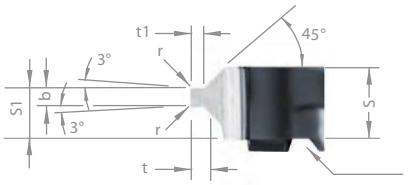


Description	Groove width mm	S mm	Clearance angle (epsilon)	r mm	b -0.02 mm	t max. mm	17582	...
Z22.0070.00	0.7	5.7	1°	-	0.74	1.5		101
Z22.0080.00	0.8	5.7	1°	-	0.84	1.7		102
Z22.0090.00	0.9	5.7	1°	-	0.94	1.9		103
Z22.0100.00	1.0	5.7	1°	-	1.04	2.1		104
Z22.0110.00	1.1	5.7	1°	-	1.21	2.5		105
Z22.0130.00	1.3	5.7	3°	0.1	1.41	4.5		106
Z22.0160.00	1.6	5.7	3°	0.1	1.71	4.5		107
Z22.0185.02	1.85	5.7	3°	0.15	1.96	4.5		108
Z22.0215.02	2.15	5.7	3°	0.15	2.26	4.5		109
Z22.0265.02	2.65	5.7	3°	0.15	2.76	4.5		110
Z22.0315.02	3.15	5.7	3°	0.15	3.26	4.5		111
Z22.0415.02	4.15	5.7	3°	0.15	4.26	4.5		112
Z22.0515.02	5.15	5.7	3°	0.15	5.26	4.5		113

17583

Dümmel WERKZEUGFABRIK

- Cutting inserts with groove outer edge chamfer for **Seeger ring grooves,** DIN 471/472
- Cemented carbide/AL 41F TiAlN-coated

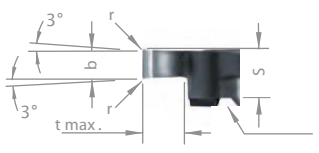


Description	Groove width mm	S mm	S1 mm	r mm	b -0.02 mm	Groove depth t mm	Forming depth t1 -0.04 mm	17583	...
Z22.1105.30	1.1	5.85	5.07	-	1.21	0.50	0.49		101
Z22.1307.30	1.3	5.85	5.17	-	1.41	0.70	0.67		102
Z22.1308.30	1.3	5.85	5.17	-	1.41	0.85	0.83		103
Z22.1609.35	1.6	5.85	5.07	-	1.71	0.85	0.83		104
Z22.1610.35	1.6	5.85	5.07	-	1.71	1.00	0.97		105
Z22.1812.35	1.85	5.85	5.19	0.15	1.96	1.25	1.23		106
Z22.2215.35	2.15	5.85	5.34	0.15	2.26	1.50	1.47		107
Z22.2616.45	2.65	5.85	5.09	0.15	2.76	1.50	1.47		108
Z22.2617.45	2.65	5.85	5.09	0.15	2.76	1.75	1.72		109
Z22.3118.45	3.15	5.85	5.34	0.20	3.26	1.75	1.72		110
Z22.4120.55	4.15	5.85	5.34	0.20	4.26	2.00	1.97		111
Z22.4125.55	4.15	5.85	5.34	0.20	4.26	2.50	2.47		112

17584

Dümmel WERKZEUGFABRIK

- Cutting inserts for **general groove milling**
- Cemented carbide/AL 41F TiAlN-coated



Designation	S mm	r mm	b +0.02 mm	t max. mm	17584	...
Z22.0150.02	5.7	0.2	1.5	4.5		101
Z22.0200.02	5.7	0.2	2.0	4.5		102
Z22.0250.02	5.7	0.2	2.5	4.5		103
Z22.0300.02	5.7	0.2	3.0	4.5		104
Z22.0400.02	5.7	0.2	4.0	4.5		105

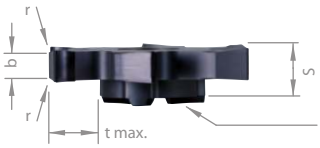
Continued

Continued

17585

Dümmel WERKZEUGFABRIK

- Cutting inserts for **general groove milling with 6 teeth**
- Cemented carbide/AL 41F TiAlN-coated



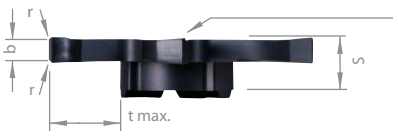
stirnseitig freigeschliffen
frontside freegrinded

Designation	S mm	r mm	b +0.02 mm	t max. mm	17585 ...
Z622.0150.01	6.2	0.1	1.5	4.5	101
Z622.0200.02	6.2	0.2	2.0	4.5	102
Z622.0250.02	6.2	0.2	2.5	4.5	103
Z622.0300.02	6.2	0.2	3.0	4.5	104
Z622.0400.02	6.2	0.2	4.0	4.5	105

17586

Dümmel WERKZEUGFABRIK

- Cutting inserts for **general groove milling with 6 teeth**
- t max. 12 mm can only be used in combination with holder ZH22
- Cemented carbide/AL 41F TiAlN-coated



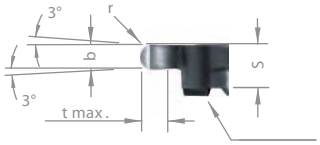
stirnseitig freigeschliffen
frontside freegrinded

Designation	S mm	r mm	b +0.02 mm	b +0.05 mm	t max. mm	D min. mm	17586 ...
Z637.0050.00	5.85	-	-	0.5	12	37	101
Z637.0100.01	5.85	0.1	1.0	-	12	37	102
Z637.0150.01	5.85	0.1	1.5	-	12	37	103

17587

Dümmel WERKZEUGFABRIK

- Cutting inserts for **full radius grooving**
- Cemented carbide/AL 41F TiAlN-coated



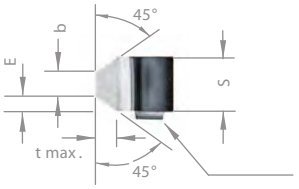
Fräserschaft
shank face

Designation	S mm	r mm	b +0.03 mm	t max. mm	17587 ...
Z22.0005.10	5.75	0.5	1.0	4.5	101
Z22.0010.20	5.75	1.0	2.0	4.5	102
Z22.0014.28	5.75	1.4	2.8	4.5	103
Z22.0015.30	5.75	1.5	3.0	4.5	104
Z22.0020.40	5.75	2.0	4.0	4.5	105

17588

Dümmel WERKZEUGFABRIK

- Cutting inserts for **bore milling, forward and reverse chamfering**
- Cemented carbide/AL 41F TiAlN-coated



Fräserschaft
shank face

Designation	S mm	E mm	b +0.03 mm	t max. mm	17588 ...
Z22.4545.58	5.85	2.00	2.0	1.7	101
Z22.4545.94	9.40	3.25	3.0	3.0	102

Continued

17580 - 17593 Groove and circular form milling system, MINI MILL

Continued

17589

17589

Dümmel WERKZEUGFABRIK

- Cutting pates for **bore milling, forward and reverse chamfering with 6 teeth**
- Cemented carbide/AL 41F TiAlN-coated

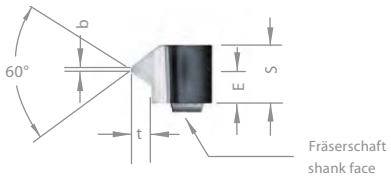
Designation	S mm	E mm	b mm	t max. mm	17589 ...
Z622.4545.63	6.2	3.65	0.2	1.9	101

17590

17590

Dümmel WERKZEUGFABRIK

- Cutting inserts for **metric ISO threads, partial profile**
- Cemented carbide/AL 41F TiAlN-coated



Designation	S mm	Pitch P mm	E mm	b mm	t max. mm	17590 ...
Z22.0720.01	5.85	1.0–2.0	4.6	0.12	1.19	101
Z22.2545.01	5.85	2.0–4.5	3.7	0.31	2.71	102
Z22.0815.01	5.85	1.5–2.75	4.8	0.18	1.62	103
Z22.1020.01	5.85	2.0–3.75	4.6	0.25	2.22	104
Z22.1630.01	5.85	2.5–5.0	4.0	0.37	2.98	105

17591

17591

Dümmel WERKZEUGFABRIK

- Cutting inserts for **metric ISO threads, internal partial profile with 6 teeth**
- Cemented carbide/AL 41F TiAlN-coated

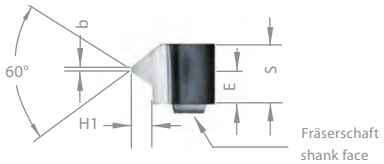
Designation	S mm	Pitch P mm	E mm	Min. thread size	t max. mm	17591 ...
Z622.0720.01	6.20	1.0–2.0	5.1	M 27	1.19	101
Z622.2545.01	6.05	2.0–4.5	4.3	M 27	2.71	102

17592

17592

Dümmel WERKZEUGFABRIK

- Cutting inserts for **metric ISO threads, full profile**
- Cemented carbide/AL 41F TiAlN-coated



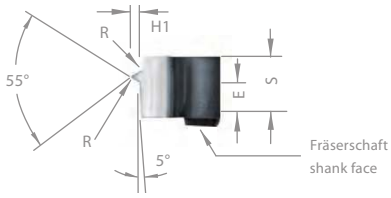
Designation	S mm	Pitch P mm	E mm	b mm	H1 mm	17592 ...
Z22.0815.02	5.85	1.5	4.8	0.19	0.81	101
Z22.0917.02	5.85	1.75	4.7	0.22	0.95	102
Z22.1020.02	5.85	2.0	4.6	0.25	1.08	103
Z22.1630.02	5.85	3.0	4.3	0.37	1.62	104
Z22.1835.02	5.85	3.5	4.1	0.43	1.89	105
Z22.2140.02	5.85	4.0	3.9	0.50	2.16	106
Z22.2445.02	5.85	4.5	3.7	0.56	2.43	107

17593

17593

Dümmel WERKZEUGFABRIK

- Cutting inserts for **Whitworth pipe threads, DIN ISO 228(259) and 2999 full profile**
- Cemented carbide/AL 41F TiAlN-coated

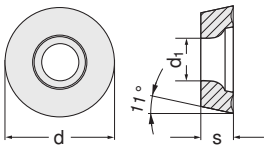


Designation	S mm	Pitch TPI	E mm	R mm	H1 mm	17593 ...
Z22.5506.02	5.85	6 (4.23)	3.1	0.58	2.71	101
Z22.5508.02	5.85	8 (3.17)	3.5	0.43	2.03	102
Z22.5511.02	5.85	11 (2.30)	4.0	0.31	1.48	103

= The specified prices are unit prices. Only sold in the specified packing units. Always specify number of units in order information.

17826 Indexable milling insert, RPMT

Design
- **Round**
- Positive 11°
- With sintered chip breaker

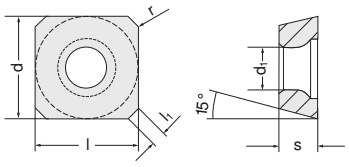


17826

Applications							P M K	
Cemented carbide grade							H 42	
Coating							TiN	
ISO designation	d mm	s mm	d_1 mm				17826	...
RPMT 1204 MOSN	12	4.76	4.40	10 pcs.				102

17834 Indexable milling inserts, SDHT/SDNT

Design
- **Square**
- Positive 14°
- With chip breaker



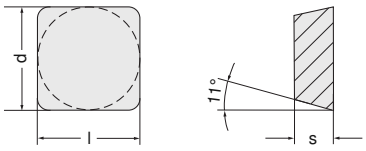
17834

Applications							N		P M	
Carbide type							H 25/Al		H 42	
Coating							Uncoated		TiN	
ISO designation	d+l mm	d_1 mm	s mm	l_1 mm	r		17834	...	17834	...
SDHT 0903 AE	9.52	3.40	3.18	1.68	1.0	10 pcs.		102		
SDNT 0903 AESN	9.52	3.40	3.18	1.68	1.0	10 pcs.				101

17849 Indexable milling inserts, SPKN

ATORN®

Design
- **Square**
- Positive 11°
- Without chip breaker
- With chamfer milling



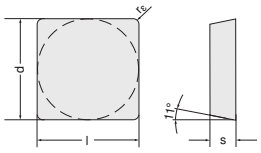
17849

Applications					P M K		M K	
Cemented carbide grade					HC 4540		HC 4620	
Coating					coated		coated	
ISO designation	d+l mm	s mm			17849	...	17849	...
SPKN 1203 ED SR	12.7	3.18	10 pcs.			103		102

17855 Indexable milling insert, SPUN

ATORN®

Design
- **Square**
- Positive 11°



17855

Applications						P	
Carbide type						HW 4640	
Coating						uncoated	
ISO designation	d+l mm	s mm	r			17855	...
SPUN 120308	12.7	3.18	0.4	10 pcs.			101