

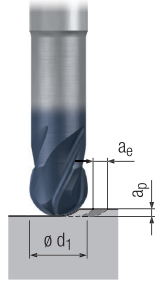


Hartmetall-Kugel- und Torusfräser – kurze und lange Ausführung (4-8 Schneiden)
Solid carbide ball nose and torus end mills – short and long design (4-8 flutes)

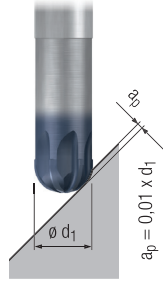
H

Gültig für · Valid for
MED-CC.RD4S
MED-CC.RD4L
MED-CC.RD6S
MED-CC.TR4
MED-CC.TR6

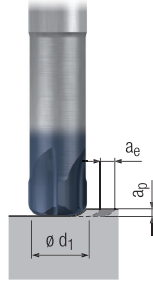
Schruppen (4 Schneiden)
Roughing (4 flutes)



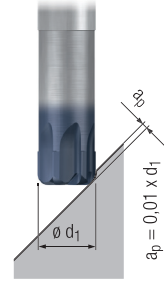
Schlichten (4-8 Schneiden)
Finishing (4-8 flutes)



Schruppen (4 Schneiden)
Roughing (4 flutes)



Schlichten (4-8 Schneiden)
Finishing (4-8 flutes)



		H				H						MMS MQL						
		V_c [m/min]	f_z [mm]	a_e [mm]	a_p [mm]	V_c [m/min]	f_z [mm]	V_c [m/min]	f_z [mm]					a_e [mm]	a_p [mm]	V_c [m/min]	f_z [mm]	
P	1.1	280	$0,011 \times d_1$	$0,1 \times d_1$	$0,05 \times d_1$	360	$0,008 \times d_1$	280	$0,011 \times d_1$	$0,4 \times d_1$	$0,03 \times d_1$	360	$0,008 \times d_1$	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	2.1	240	$0,011 \times d_1$	$0,1 \times d_1$	$0,05 \times d_1$	320	$0,008 \times d_1$	240	$0,011 \times d_1$	$0,4 \times d_1$	$0,03 \times d_1$	320	$0,008 \times d_1$	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	3.1	210	$0,009 \times d_1$	$0,1 \times d_1$	$0,05 \times d_1$	270	$0,007 \times d_1$	210	$0,009 \times d_1$	$0,4 \times d_1$	$0,03 \times d_1$	270	$0,007 \times d_1$	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	4.1	170	$0,008 \times d_1$	$0,1 \times d_1$	$0,05 \times d_1$	220	$0,006 \times d_1$	170	$0,008 \times d_1$	$0,4 \times d_1$	$0,03 \times d_1$	220	$0,006 \times d_1$	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	5.1	140	$0,006 \times d_1$	$0,1 \times d_1$	$0,05 \times d_1$	180	$0,0054 \times d_1$	140	$0,006 \times d_1$	$0,4 \times d_1$	$0,03 \times d_1$	180	$0,005 \times d_1$	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
M	1.1																	
	2.1																	
	3.1																	
	4.1																	
	4.2																	
K	1.1	280	$0,011 \times d_1$	$0,1 \times d_1$	$0,05 \times d_1$	360	$0,008 \times d_1$	280	$0,011 \times d_1$	$0,4 \times d_1$	$0,03 \times d_1$	360	$0,008 \times d_1$	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	1.2	280	$0,011 \times d_1$	$0,1 \times d_1$	$0,05 \times d_1$	360	$0,008 \times d_1$	280	$0,011 \times d_1$	$0,4 \times d_1$	$0,03 \times d_1$	360	$0,008 \times d_1$	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	2.1	250	$0,009 \times d_1$	$0,1 \times d_1$	$0,05 \times d_1$	320	$0,006 \times d_1$	250	$0,009 \times d_1$	$0,4 \times d_1$	$0,03 \times d_1$	320	$0,006 \times d_1$	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	2.2	250	$0,009 \times d_1$	$0,1 \times d_1$	$0,05 \times d_1$	320	$0,006 \times d_1$	250	$0,009 \times d_1$	$0,4 \times d_1$	$0,03 \times d_1$	320	$0,006 \times d_1$	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	3.1	210	$0,009 \times d_1$	$0,1 \times d_1$	$0,05 \times d_1$	270	$0,006 \times d_1$	210	$0,009 \times d_1$	$0,4 \times d_1$	$0,03 \times d_1$	270	$0,006 \times d_1$	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	3.2	210	$0,009 \times d_1$	$0,1 \times d_1$	$0,05 \times d_1$	270	$0,006 \times d_1$	210	$0,009 \times d_1$	$0,4 \times d_1$	$0,03 \times d_1$	270	$0,006 \times d_1$	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	4.1	170	$0,006 \times d_1$	$0,1 \times d_1$	$0,05 \times d_1$	220	$0,005 \times d_1$	170	$0,006 \times d_1$	$0,4 \times d_1$	$0,03 \times d_1$	220	$0,005 \times d_1$	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	4.2	150	$0,006 \times d_1$	$0,1 \times d_1$	$0,05 \times d_1$	180	$0,005 \times d_1$	150	$0,006 \times d_1$	$0,4 \times d_1$	$0,03 \times d_1$	180	$0,005 \times d_1$	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	1.1																	
	1.2																	
1.3																		
1.4																		
1.5																		
1.6																		
N	2.1																	
	2.2	250	$0,011 \times d_1$	$0,1 \times d_1$	$0,05 \times d_1$	320	$0,008 \times d_1$	250	$0,011 \times d_1$	$0,4 \times d_1$	$0,03 \times d_1$	320	$0,008 \times d_1$	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	2.3	250	$0,011 \times d_1$	$0,1 \times d_1$	$0,05 \times d_1$	320	$0,008 \times d_1$	250	$0,011 \times d_1$	$0,4 \times d_1$	$0,03 \times d_1$	320	$0,008 \times d_1$	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	2.4	210	$0,009 \times d_1$	$0,1 \times d_1$	$0,05 \times d_1$	270	$0,007 \times d_1$	210	$0,009 \times d_1$	$0,4 \times d_1$	$0,03 \times d_1$	270	$0,007 \times d_1$	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	2.5	210	$0,009 \times d_1$	$0,1 \times d_1$	$0,05 \times d_1$	270	$0,007 \times d_1$	210	$0,009 \times d_1$	$0,4 \times d_1$	$0,03 \times d_1$	270	$0,007 \times d_1$	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	2.6	210	$0,009 \times d_1$	$0,1 \times d_1$	$0,05 \times d_1$	270	$0,007 \times d_1$	210	$0,009 \times d_1$	$0,4 \times d_1$	$0,03 \times d_1$	270	$0,007 \times d_1$	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	2.7	130	$0,006 \times d_1$	$0,1 \times d_1$	$0,05 \times d_1$	170	$0,006 \times d_1$	130	$0,006 \times d_1$	$0,4 \times d_1$	$0,03 \times d_1$	170	$0,005 \times d_1$	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	2.8	130	$0,006 \times d_1$	$0,1 \times d_1$	$0,05 \times d_1$	170	$0,005 \times d_1$	130	$0,006 \times d_1$	$0,4 \times d_1$	$0,03 \times d_1$	170	$0,005 \times d_1$	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	3.1																	
	3.2																	
4.1																		
4.2																		
4.3																		
4.4																		
5.1																		
5.2																		
5.3																		
S	1.1					150	$0,007 \times d_1$					150	$0,007 \times d_1$	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	1.2					120	$0,006 \times d_1$					120	$0,006 \times d_1$	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	1.3					70	$0,005 \times d_1$					70	$0,005 \times d_1$	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	2.1					110	$0,006 \times d_1$					110	$0,006 \times d_1$	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	2.2					50	$0,004 \times d_1$					50	$0,004 \times d_1$	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	2.3					40	$0,004 \times d_1$					40	$0,004 \times d_1$	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	2.4					40	$0,004 \times d_1$					40	$0,004 \times d_1$	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2.5					30	$0,004 \times d_1$					30	$0,004 \times d_1$	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
2.6					40	$0,004 \times d_1$					40	$0,004 \times d_1$	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
H	1.1	130	$0,008 \times d_1$	$0,05 \times d_1$	$0,02 \times d_1$	180	$0,006 \times d_1$	130	$0,008 \times d_1$	$0,4 \times d_1$	$0,03 \times d_1$	180	$0,006 \times d_1$	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	1.2	120	$0,007 \times d_1$	$0,05 \times d_1$	$0,02 \times d_1$	160	$0,005 \times d_1$	120	$0,007 \times d_1$	$0,4 \times d_1$	$0,03 \times d_1$	160	$0,005 \times d_1$	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	1.3					140	$0,005 \times d_1$	110	$0,006 \times d_1$	$0,2 \times d_1$	$0,02 \times d_1$	140	$0,005 \times d_1$	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	1.4					110	$0,004 \times d_1$	80	$0,005 \times d_1$	$0,2 \times d_1$	$0,02 \times d_1$	110	$0,004 \times d_1$	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	1.5					90	$0,003 \times d_1$	70	$0,004 \times d_1$	$0,2 \times d_1$	$0,01 \times d_1$	90	$0,003 \times d_1$	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

■ = sehr gut geeignet · very suitable
□ = gut geeignet · suitable

