

PRAMET
AGE **MILL**



NEW GENERATION OF MILLING CUTTERS WITH INSERTS

ADMX

HIGH PRODUCTIVITY OF MILLING
PRECISE MILLING TOOLS
WIDE APPLICATION AREA



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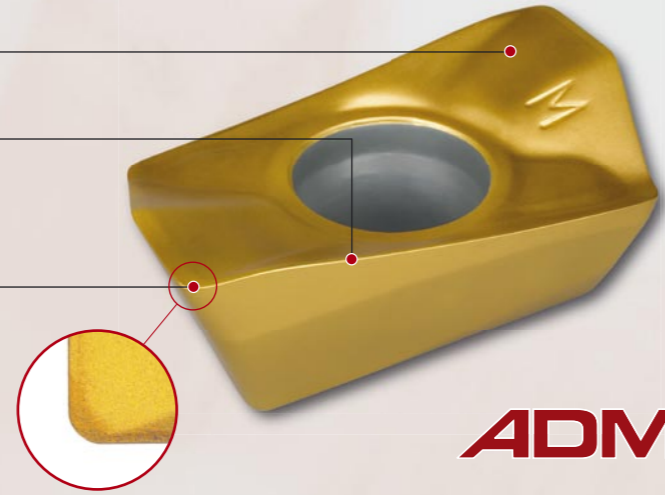
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PRAMET
AGE **MILL**

NEW GENERATION OF INSERTS AND TOOLS FOR MILLING

New generation of inserts ADMX16

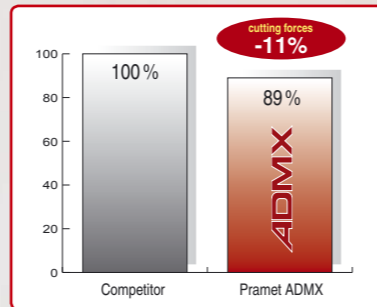
- Highly Positive Geometry (rake angle 25°)**
 - lower machine power
- Optimized Cutting Edge Shape**
 - higher impact resistance
 - lower cutting forces
 - smooth machining
- Smooth Cutting Edge Continuity**
 - higher tool life
 - better roughness quality



ADMX

New generation of milling tools with inserts ADMX16 / ADEX 16

- New Technology and Heat Treatment**
 - higher tool accuracy
- Special Surface Finishing**
 - better corrosion resistance
 - abrasive wear reduction
 - lower friction resistance
- Long-Life Laser Marking**
 - identification of inserts and spare parts
- Internal Fluid Supply**
 - optimal cooling
- Tool Body Design**
 - easy chip removing
- Clamping Screw M4 TORX Plus**
 - reliable insert fixing
- Highly Positive Geometry**
 - cutting forces reduction
 - higher productivity



Cutting forces reduction



Clamping hole with elliptical fixing - optimal insert fixed



Excellent chip removing

Wide area of applications of new milling cutters with inserts ADMX16

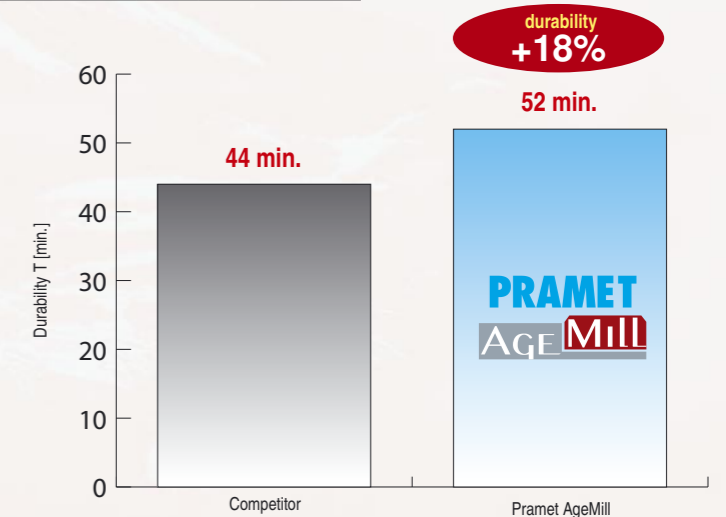
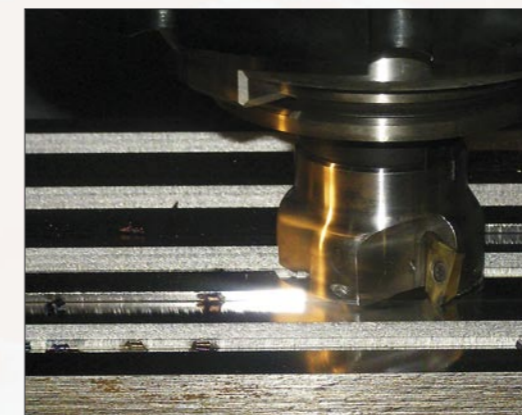
FACE MILLING currently achieved roughness by geometry F $Ra \leq 0,6 [\mu m]$	SHOULDER MILLING areas link-up $x_{max} \leq 0,03 [mm]$	SLOT MILLING achieved roughness $Ra \leq 1,6 [\mu m]$																																																															
RAMPING <table border="1"> <thead> <tr> <th>ø cutter</th> <th>α_{max}</th> </tr> </thead> <tbody> <tr><td>ø 25</td><td>12,5°</td></tr> <tr><td>ø 32</td><td>7,5°</td></tr> <tr><td>ø 40</td><td>5,0°</td></tr> <tr><td>ø 50</td><td>3,5°</td></tr> <tr><td>ø 63</td><td>2,5°</td></tr> <tr><td>ø 80</td><td>2,0°</td></tr> <tr><td>ø 100</td><td>1,0°</td></tr> <tr><td>ø 125</td><td>-</td></tr> <tr><td>ø 160</td><td>-</td></tr> </tbody> </table>	ø cutter	α_{max}	ø 25	12,5°	ø 32	7,5°	ø 40	5,0°	ø 50	3,5°	ø 63	2,5°	ø 80	2,0°	ø 100	1,0°	ø 125	-	ø 160	-	PLUNGE MILLING axial depth of cut $a_{emax} = 7,5 [mm]$	PROGRESSIVE PLUNGING $a_{pmax} = 2,5 [mm]$																																											
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MILLING BY HELICAL INTERPOLATION - END MILLING CUTTERS to diameter 40 mm <table border="1"> <thead> <tr> <th>ø cutter</th> <th>d_{min}</th> <th>d_{max}</th> <th>s_{max}</th> </tr> </thead> <tbody> <tr><td>25</td><td>42</td><td>-</td><td>10,0</td></tr> <tr><td>-</td><td>-</td><td>48</td><td>12,5</td></tr> <tr><td>32</td><td>55</td><td>-</td><td>6,5</td></tr> <tr><td>-</td><td>-</td><td>62</td><td>9,0</td></tr> <tr><td>40</td><td>72</td><td>-</td><td>5,0</td></tr> <tr><td>-</td><td>-</td><td>78</td><td>8,0</td></tr> </tbody> </table>	ø cutter	d_{min}	d_{max}	s_{max}	25	42	-	10,0	-	-	48	12,5	32	55	-	6,5	-	-	62	9,0	40	72	-	5,0	-	-	78	8,0	MILLING BY HELICAL INTERPOLATION - FACE MILLING CUTTERS to diameter 80 mm <table border="1"> <thead> <tr> <th>ø cutter</th> <th>d_{min}</th> <th>d_{max}</th> <th>s_{max}</th> </tr> </thead> <tbody> <tr><td>40</td><td>72</td><td>-</td><td>5,0</td></tr> <tr><td>-</td><td>-</td><td>78</td><td>8,0</td></tr> <tr><td>50</td><td>92</td><td>-</td><td>4,5</td></tr> <tr><td>-</td><td>-</td><td>98</td><td>6,0</td></tr> <tr><td>63</td><td>118</td><td>-</td><td>4,0</td></tr> <tr><td>-</td><td>-</td><td>124</td><td>5,0</td></tr> <tr><td>80</td><td>136</td><td>-</td><td>1,5</td></tr> <tr><td>-</td><td>-</td><td>158</td><td>2,0</td></tr> </tbody> </table>	ø cutter	d_{min}	d_{max}	s_{max}	40	72	-	5,0	-	-	78	8,0	50	92	-	4,5	-	-	98	6,0	63	118	-	4,0	-	-	124	5,0	80	136	-	1,5	-	-	158	2,0
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Practical test of milling tools with inserts ADMX16

EXAMPLE:

Machine: milling centre
 Type: MCV1270 Power
 Operation: face milling with interrupted cut
 Workpiece: steel C45
 Inserts: ADMT 160608 P25 competitor
 ADMX 160608PR-R; 2230 Pramet
 Cooling: with cooling

Cutting speed	v_c	300 m.min ⁻¹
Feed per tooth	f_z	0,2 mm.tooth ⁻¹
Axial depth of cut	a_p	5,0 mm
Radial depth of cut	a_e	50 mm



durability
+18%

**PRAMET
AGE MILL**

Assortment of inserts ADMX

Basic shape of insert	Cutting condition		Initial cutting conditions					
			P	M	K	N	S	H
ADMX 160608SR-F; 8016	feed	[mm.tooth ⁻¹]	0,07 ÷ 0,15	0,07 ÷ 0,11	0,07 ÷ 0,15	0,07 ÷ 0,15	0,07 ÷ 0,09	-
	depth of cut	[mm]	1,0 ÷ 13,0	1,0 ÷ 9,8	1,0 ÷ 13,0	1,0 ÷ 1 ÷ 13,0	1,0 ÷ 7,8	-
	cutting speed	[m.min ⁻¹]	165 ÷ 255	95 ÷ 150	155 ÷ 240	245 ÷ 890	30 ÷ 75	-
ADMX 160608SR-F; 8230	feed	[mm.tooth ⁻¹]	0,07 ÷ 0,15	0,07 ÷ 0,11	0,07 ÷ 0,15	0,07 ÷ 0,15	0,07 ÷ 0,09	-
	depth of cut	[mm]	1,0 ÷ 13,0	1,0 ÷ 9,8	1,0 ÷ 13,0	1,0 ÷ 13,0	1,0 ÷ 7,8	-
	cutting speed	[m.min ⁻¹]	195 ÷ 290	115 ÷ 170	185 ÷ 275	290 ÷ 1015	35 ÷ 85	-
ADMX 160608SR-F; 8240	feed	[mm.tooth ⁻¹]	0,07 ÷ 0,15	0,07 ÷ 0,11	0,07 ÷ 0,15	-	0,07 ÷ 0,09	-
	depth of cut	[mm]	1,0 ÷ 13,0	1,0 ÷ 9,8	1,0 ÷ 13,0	-	1,0 ÷ 7,8	-
	cutting speed	[m.min ⁻¹]	165 ÷ 230	95 ÷ 135	155 ÷ 215	-	30 ÷ 65	-
ADMX 160608SR-M; 2215	feed	[mm.tooth ⁻¹]	0,10 ÷ 0,25	0,10 ÷ 0,19	0,10 ÷ 0,25	-	-	-
	depth of cut	[mm]	1,0 ÷ 13,0	1,0 ÷ 9,8	1,0 ÷ 13,0	-	-	-
	cutting speed	[m.min ⁻¹]	230 ÷ 330	135 ÷ 195	215 ÷ 310	-	-	-
ADMX 160608SR-M; 2230	feed	[mm.tooth ⁻¹]	0,10 ÷ 0,25	0,10 ÷ 0,19	0,10 ÷ 0,25	-	-	-
	depth of cut	[mm]	1,0 ÷ 13,0	1,0 ÷ 9,8	1,0 ÷ 13,0	-	-	-
	cutting speed	[m.min ⁻¹]	180 ÷ 285	105 ÷ 170	170 ÷ 270	-	-	-
ADMX 160608SR-M; 8016	feed	[mm.tooth ⁻¹]	0,10 ÷ 0,25	0,10 ÷ 0,19	0,10 ÷ 0,25	-	0,10 ÷ 0,15	-
	depth of cut	[mm]	1,0 ÷ 13,0	1,0 ÷ 9,8	1,0 ÷ 13,0	-	1,0 ÷ 7,8	-
	cutting speed	[m.min ⁻¹]	150 ÷ 240	90 ÷ 140	140 ÷ 225	-	30 ÷ 70	-
ADMX 160608SR-M; 8230	feed	[mm.tooth ⁻¹]	0,10 ÷ 0,25	0,10 ÷ 0,19	0,10 ÷ 0,25	-	0,10 ÷ 0,15	-
	depth of cut	[mm]	1,0 ÷ 13,0	1,0 ÷ 9,8	1,0 ÷ 13,0	-	1,0 ÷ 7,8	-
	cutting speed	[m.min ⁻¹]	175 ÷ 275	105 ÷ 165	165 ÷ 260	-	35 ÷ 80	-
ADMX 160608SR-M; 8240	feed	[mm.tooth ⁻¹]	0,10 ÷ 0,25	0,10 ÷ 0,19	0,10 ÷ 0,25	-	0,10 ÷ 0,15	-
	depth of cut	[mm]	1,0 ÷ 13,0	1,0 ÷ 9,8	1,0 ÷ 13,0	-	1,0 ÷ 7,8	-
	cutting speed	[m.min ⁻¹]	160 ÷ 225	95 ÷ 135	150 ÷ 210	-	30-65	-
ADMX 160608PR-R; 2215	feed	[mm.tooth ⁻¹]	0,17 ÷ 0,35	0,17 ÷ 0,26	0,17 ÷ 0,35	-	-	0,10 ÷ 0,20
	depth of cut	[mm]	1,0 ÷ 13,0	1,0 ÷ 9,8	1,0 ÷ 13,0	-	-	0,3 ÷ 1,5
	cutting speed	[m.min ⁻¹]	220 ÷ 315	130 ÷ 185	205 ÷ 295	-	-	45 ÷ 65
ADMX 160608PR-R; 2230	feed	[mm.tooth ⁻¹]	0,17 ÷ 0,35	0,17 ÷ 0,26	0,17 ÷ 0,35	-	-	-
	depth of cut	[mm]	1,0 ÷ 13,0	1,0 ÷ 9,8	1,0 ÷ 13,0	-	-	-
	cutting speed	[m.min ⁻¹]	170 ÷ 255	100 ÷ 150	160 ÷ 240	-	-	-
ADMX 160608PR-R; 8016	feed	[mm.tooth ⁻¹]	0,17 ÷ 0,35	0,17 ÷ 0,26	0,17 ÷ 0,35	-	0,17 ÷ 0,21	0,10 ÷ 0,20
	depth of cut	[mm]	1,0 ÷ 13,0	1,0 ÷ 9,8	1,0 ÷ 13,0	-	1,0 ÷ 7,8	0,3 ÷ 1,5
	cutting speed	[m.min ⁻¹]	135 ÷ 210	80 ÷ 125	125 ÷ 195	-	25 ÷ 60	30 ÷ 45
ADMX 160608PR-R; 8230	feed	[mm.tooth ⁻¹]	0,17 ÷ 0,35	0,17 ÷ 0,26	0,17 ÷ 0,35	-	0,17 ÷ 0,21	0,10 ÷ 0,20
	depth of cut	[mm]	1,0 ÷ 13,0	1,0 ÷ 9,8	1,0 ÷ 13,0	-	1,0 ÷ 7,8	0,3 ÷ 1,5
	cutting speed	[m.min ⁻¹]	165 ÷ 250	95 ÷ 150	155 ÷ 235	-	30 ÷ 75	35 ÷ 55
ADMX 160608PR-R; 8240	feed	[mm.tooth ⁻¹]	0,17 ÷ 0,35	0,17 ÷ 0,26	0,17 ÷ 0,35	-	0,17 ÷ 0,21	-
	depth of cut	[mm]	1,0 ÷ 13,0	1,0 ÷ 9,8	1,0 ÷ 13,0	-	1,0 ÷ 7,8	-
	cutting speed	[m.min ⁻¹]	160 ÷ 220	95 ÷ 130	150 ÷ 205	-	30 ÷ 65	-
ADMX 160616SR-M; 8016	feed	[mm.tooth ⁻¹]	0,10 ÷ 0,30	0,10 ÷ 0,23	0,10 ÷ 0,30	-	0,10 ÷ 0,18	-
	depth of cut	[mm]	1,0 ÷ 13,0	1,0 ÷ 9,8	1,0 ÷ 13,0	-	1,0 ÷ 7,8	-
	cutting speed	[m.min ⁻¹]	155 ÷ 265	90 ÷ 155	145 ÷ 250	-	30 ÷ 75	-
ADMX 160616SR-M; 8230	feed	[mm.tooth ⁻¹]	0,10 ÷ 0,25	0,10 ÷ 0,19	0,10 ÷ 0,25	-	0,10 ÷ 0,15	-
	depth of cut	[mm]	1,0 ÷ 13,0	1,0 ÷ 9,8	1,0 ÷ 13,0	-	1,0 ÷ 7,8	-
	cutting speed	[m.min ⁻¹]	195 ÷ 300	115 ÷ 180	185 ÷ 285	-	35 ÷ 90	-
ADMX 160616SR-M; 8240	feed	[mm.tooth ⁻¹]	0,10 ÷ 0,30	0,10 ÷ 0,23	0,10 ÷ 0,30	-	0,10 ÷ 0,18	-
	depth of cut	[mm]	1,0 ÷ 13,0	1,0 ÷ 9,8	1,0 ÷ 13,0	-	1,0 ÷ 7,8	-
	cutting speed	[m.min ⁻¹]	175 ÷ 250	105 ÷ 150	165 ÷ 235	-	35 ÷ 75	-
ADMX 160632SR-M; 8016	feed	[mm.tooth ⁻¹]	0,10 ÷ 0,30	0,10 ÷ 0,23	0,10 ÷ 0,30	-	0,10 ÷ 0,18	-
	depth of cut	[mm]	1,0 ÷ 13,0	1,0 ÷ 9,8	1,0 ÷ 13,0	-	1,0 ÷ 7,8	-
	cutting speed	[m.min ⁻¹]	165 ÷ 275	95 ÷ 165	155 ÷ 260	-	30 ÷ 80	-
ADMX 160632SR-M; 8230	feed	[mm.tooth ⁻¹]	0,10 ÷ 0,25	0,10 ÷ 0,19	0,10 ÷ 0,25	-	0,10 ÷ 0,15	-
	depth of cut	[mm]	1,0 ÷ 13,0	1,0 ÷ 9,8	1,0 ÷ 13,0	-	1,0 ÷ 7,8	-
	cutting speed	[m.min ⁻¹]	205 ÷ 315	120 ÷ 185	190 ÷ 295	-	40 ÷ 90	-
ADMX 160632SR-M; 8240	feed	[mm.tooth ⁻¹]	0,10 ÷ 0,25	0,10 ÷ 0,19	0,10 ÷ 0,25	-	0,10 ÷ 0,15	-
	depth of cut	[mm]	1,0 ÷ 13,0	1,0 ÷ 9,8	1,0 ÷ 13,0	-	1,0 ÷ 7,8	-
	cutting speed	[m.min ⁻¹]	185 ÷ 265	110 ÷ 155	175 ÷ 250	-	35 ÷ 75	-
ADEX 160608FR-FA; HF7	feed	[mm.tooth ⁻¹]	-	-	-	0,03 ÷ 0,20	-	-
	depth of cut	[mm]	-	-	-	1,0 ÷ 13	-	-
	cutting speed	[m.min ⁻¹]	-	-	-	110 ÷ 560	-	-

Overview of geometries ADMX16 / ADEX 16

Geometry	Insert / Geometry	Description of geometry	Geometry	Insert / Geometry	Description of geometry
F		<ul style="list-style-type: none"> - highly positive geometry - first choice for machined materials group P (low carbon steel) and group M - light and medium machining 	R		<ul style="list-style-type: none"> - in comparison to F and M nor less positive geometry - suitable for machining of materials groups P and K - suitable for medium and heavy machining
M		<ul style="list-style-type: none"> - highly positive geometry - suitable for machining of materials groups P, K and M - for medium machining - geometry M also on inserts with r_e 1,6 and 3,2 mm 	FA		<ul style="list-style-type: none"> - highly positive geometry, sharp cutting edge - especially for machining in group N - polished top reduces built-up effect

all dimension in [mm]

Grades - application area

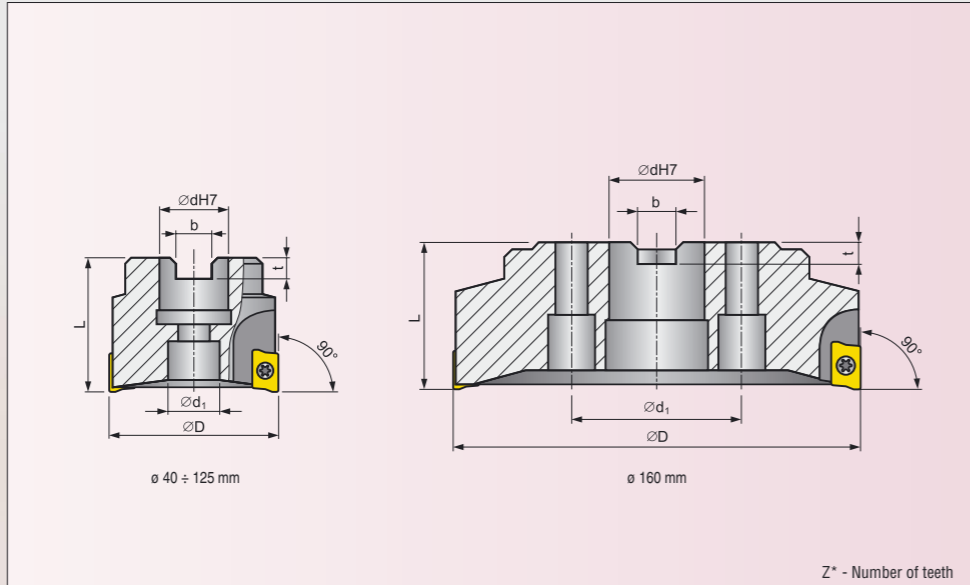
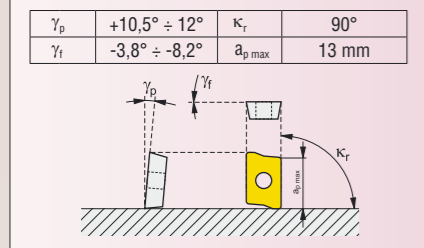
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	10	20	30	40	P	M	K	N	S	H																																																															
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NEW

■ main area □ other application □ conditional application

S90AD16E

Shoulder milling cutter with ADMX 16

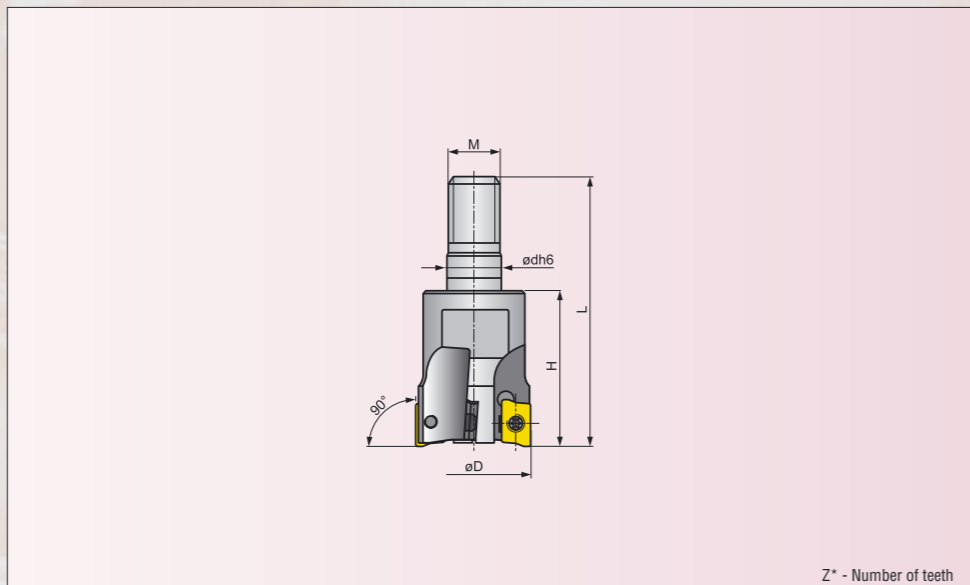
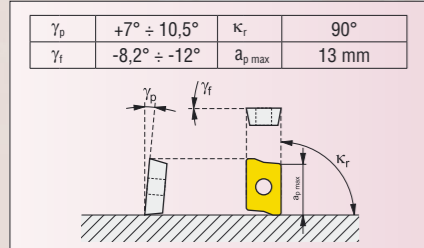


Z* - Number of teeth

ISO	Assortment	Dimensions							[kg]	Cooling	Spare Parts		Inserts
		D	dH7	d ₁	L	b	t	Z*					
40A04R-S90AD16E-C	●	40	16	14	40	8,4	5,6	4	0,16	+	US4008-T15P	SDR T15P	AD.X 1606.....
50A03R-S90AD16E-C	●	50	22	18	40	10,4	6,3	3	0,30	+			
50A05R-S90AD16E-C	●	50	22	18	40	10,4	6,3	5	0,29	+			
63A04R-S90AD16E-C	●	63	22	18	40	10,4	6,3	4	0,48	+			
63A06R-S90AD16E-C	●	63	22	18	40	10,4	6,3	6	0,46	+			
80A05R-S90AD16E-C	●	80	27	38	50	12,4	7,0	5	0,98	+			
80A07R-S90AD16E-C	●	80	27	38	50	12,4	7,0	7	0,96	+			
100A06R-S90AD16E-C	●	100	32	45	50	14,4	8,0	6	1,80	+			
100A08R-S90AD16E-C	●	100	32	45	50	14,4	8,0	8	1,68	+			
125A09R-S90AD16E-C	●	125	40	56	63	16,4	9,0	9	3,48	+			
160C10R-S90AD16E	●	160	40	67	63	16,4	9,0	10	5,70	+			

SAD16E

Exchangable heads with ADMX 16

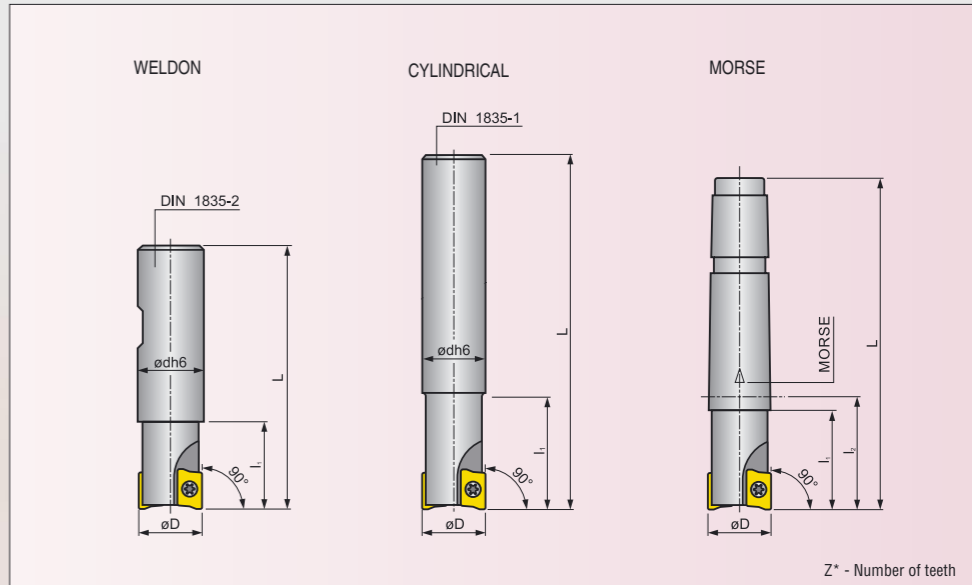
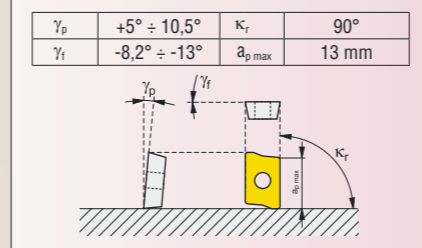


Z* - Number of teeth

ISO	Assortment	Dimensions					[kg]	Cooling	Spare Parts		Inserts
		D	L	H	dh6	M			Z*		
32A3R043M16-SAD16E-C	●	32	66	43	16	M16	0,16	+	US4008-T15P	SDR T15P	AD.X 1606.....
40A4R043M16-SAD16E-C	●	40	66	43	16	M16	0,20	+	US4008-T15P	SDR T15P	AD.X 1606.....

SAD16E

End milling cutters with ADMX 16

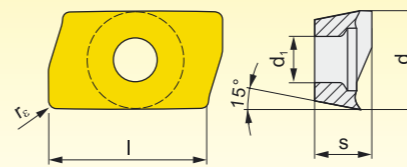


Z* - Number of teeth

ISO	Assortment	Dimensions						[kg]	Cooling	Spare Parts		Inserts
		D	L	l ₁	dh6	Morse	Z*					
WELDON												
25A2R042B25-SAD16E-C	●	25	98	42	25	-	2	0,28	+	US 4008-T15P	SDR T15P	AD.X 1606.....
32A3R040B32-SAD16E-C	●	32	100	40	32	-	3	0,48	+			
40A3R050B32-SAD16E-C	●	40	110	50	32	-	3	0,60	+			
40A4R050B32-SAD16E-C	●	40	110	50	32	-	4	0,58	+			
CYLINDRICAL												
25A2R033A25-SAD16E-C	●	25	165	33	25	-	2	0,47	+	US 4008-T15P	SDR T15P	AD.X 1606.....
32A3R033A32-SAD16E-C	●	32	195	33	32	-	3	0,90	+			
MORSE												
25A2R043E03-SAD16E-C	●	25	98	42	-	3	2	0,28	+	US 4008-T15P	SDR T15P	AD.X 1606.....
32A3R043E03-SAD16E-C	●	32	100	40	-	3	3	0,48	+			
40A3R054E04-SAD16E-C	●	40	110	50	-	4	3	0,58	+			
40A4R054E04-SAD16E-C	●	40	110	50	-	4	4	0,60	+			

Indexable cutting inserts AD.X16

ADMX 16 / ADEX 16



Size	l	d	s	d ₁	r _c
1606	16,000	9,95	6,25	4,50	0,8 ÷ 3,2

Chip breaker	ISO	ANSI	Grade					Radius	
			2215	2230	8016	8230	8240		HF7
	ADMX 160608SR-F	ADMX -42SR-F		●	●	●			0,8
	ADMX 160608SR-M	ADMX -42SR-M	●	●	●	●			0,8
	ADMX 160608PR-R	ADMX -42SR-R	●	●	●	●			0,8
	ADMX 160616SR-M	ADMX -44SR			●	●	●		1,6
	ADMX 160632SR-M	ADMX -48SR			●	●	●		3,2
	ADEX 160608FR-FA	ADEX -42FR-FA					●		0,8

● Stock assortment ○ Non-stock assortment

all dimensions in [mm]