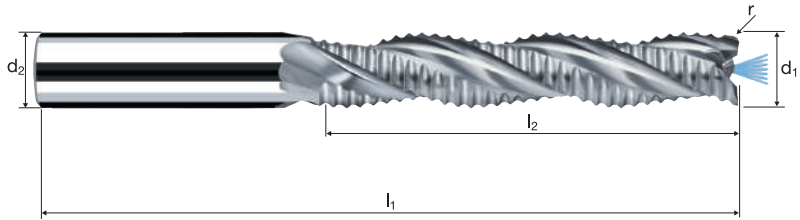
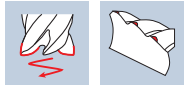
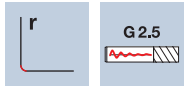


# Cylindrical end mills AX-FPS

Profiled, extra-long version 5.2xd  
High-performance penetration edge, central cooling channel



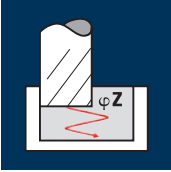
**HM** λ 30°  
**MG10** γ 20°



			Al Aluminium > 99%	Al Aluminium Alloy	Al Aluminium Cast		Cu Copper	Plastic Thermoplast	
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Ø Code	d <sub>1</sub> e8	d <sub>2</sub> h5	l <sub>1</sub>	l <sub>2</sub>	r	z	Example: Order-N°.	
							Coating	Article-N°.
							<b>15507</b>	<b>300</b>
							<b>15607</b>	
<b>300</b>	6.00	6.00	73	32.00	0.100	3	●	
<b>391</b>	8.00	8.00	84	42.00	0.150	3	●	
<b>450</b>	10.00	10.00	100	53.00	0.200	3	●	
<b>501</b>	12.00	12.00	117	63.00	0.200	3	●	
<b>610</b>	16.00	16.00	144	84.00	0.200	3	●	
<b>682</b>	20.00	20.00	169	105.00	0.200	3	●	

## Application



## Material

Wrought aluminium  
Construction aluminium



Cast aluminium



Unalloyed copper

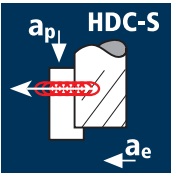


d1 [mm]	z	v <sub>c</sub> [m/min]	f <sub>z</sub> [mm]	a <sub>p</sub> [mm]	a <sub>e</sub> [mm]	n [min <sup>-1</sup> ]	v <sub>r</sub> [mm/min]	φZ [°]
6.00	3	300	0.065	32.000	5.400	15915	3105	5°
8.00	3	300	0.080	42.000	7.200	11935	2865	5°
10.00	3	350	0.095	53.000	9.000	11140	3175	5°
12.00	3	350	0.110	63.000	10.800	9285	3065	5°
16.00	3	400	0.130	84.000	14.400	7960	3105	5°
20.00	3	400	0.145	105.000	18.000	6365	2770	5°

6.00	3	270	0.065	32.000	5.400	14325	2795	5°
8.00	3	270	0.080	42.000	7.200	10745	2580	5°
10.00	3	315	0.095	53.000	9.000	10025	2860	5°
12.00	3	315	0.110	63.000	10.800	8355	2755	5°
16.00	3	360	0.130	84.000	14.400	7160	2795	5°
20.00	3	360	0.145	105.000	18.000	5730	2490	5°

6.00	3	240	0.052	32.000	5.400	12730	1985	4°
8.00	3	240	0.064	42.000	7.200	9550	1835	4°
10.00	3	280	0.076	53.000	9.000	8915	2030	4°
12.00	3	280	0.088	63.000	10.800	7425	1960	4°
16.00	3	320	0.104	84.000	14.400	6365	1985	4°
20.00	3	320	0.116	105.000	18.000	5095	1770	4°

## Application



## Material

Wrought aluminium  
Construction aluminium



Cast aluminium



Unalloyed copper



d1 [mm]	z	v <sub>c</sub> [m/min]	f <sub>z</sub> [mm]	a <sub>p</sub> [mm]	a <sub>e</sub> [mm]	n [min <sup>-1</sup> ]	v <sub>r</sub> [mm/min]	Q [cm <sup>3</sup> /min]
6.00	3	300	0.106	32.000	0.600	15915	5060	97.2
8.00	3	350	0.153	42.000	0.800	13925	6390	214.8
10.00	3	400	0.174	53.000	1.000	12730	6645	352.3
12.00	3	400	0.211	63.000	1.200	10610	6715	507.8
16.00	3	500	0.214	84.000	1.600	9945	6385	858.3
20.00	3	500	0.241	105.000	2.000	7960	5755	1208.2

6.00	3	270	0.106	32.000	0.600	14325	4555	87.5
8.00	3	315	0.153	42.000	0.800	12535	5755	193.3
10.00	3	360	0.174	53.000	1.000	11460	5980	317.0
12.00	3	360	0.211	63.000	1.200	9550	6045	457.0
16.00	3	450	0.214	84.000	1.600	8950	5745	772.5
20.00	3	450	0.241	105.000	2.000	7160	5180	1087.4

6.00	3	240	0.085	32.000	0.600	12730	3240	62.2
8.00	3	280	0.122	42.000	0.800	11140	4090	137.5
10.00	3	320	0.139	53.000	1.000	10185	4255	225.4
12.00	3	320	0.169	63.000	1.200	8490	4300	325.0
16.00	3	400	0.171	84.000	1.600	7960	4085	549.3
20.00	3	400	0.193	105.000	2.000	6365	3680	773.3



Use  
**ToolExpert AX-FPS**  
to determine the best  
possible cutting data  
for your machining  
environment!