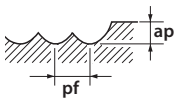
CUTTING CONDITIONS

Milling | Endmills | Cutting conditions

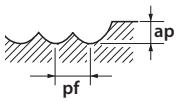
CAP-EBD

Regular milling

	AL		AC		Magnesium Alloy Copper Alloy	
	A7075		<Si 13%		AZ91 • AZ80A • C1100	
Ø	S (min^{-1})	F (mm/min)	S (min^{-1})	F (mm/min)	S (min^{-1})	F (mm/min)
R 0,5 X 1	32.000	845	32.000	845	32.000	845
R 1 X 2	31.800	1.550	31.800	1.550	23.900	1.150
R 1,5 X 3	21.200	1.550	21.200	1.550	15.900	1.150
R 2 X 4	15.900	1.550	15.900	1.550	11.900	1.150
R 3 X 6	10.600	1.600	10.600	1.600	7.950	1.150
R 4 X 8	7.950	1.950	7.950	1.950	5.950	1.450
R 5 X 10	6.350	1.750	6.350	1.750	4.750	1.300
R 6 X 12	5.300	1.650	5.300	1.650	3.950	1.200
R 8 X 16	3.950	1.500	3.950	1.500	2.950	1.150
R10 X 20	3.150	1.350	3.150	1.350	2.350	1.000
Max cutting depth						

1. Use a high rigidity machine set up.
2. Use soluble oil.
3. When chattering occurs, reduce the speed and feed simultaneously.

High speed milling

	AL		AC		Cu	
	A7075		<Si 13%		C1100	
Ø	S (min^{-1})	F (mm/min)	S (min^{-1})	F (mm/min)	S (min^{-1})	F (mm/min)
R 0,5 X 1	50.000	1.200	50.000	1.200	50.000	1.200
R 1 X 2	50.000	2.200	47.700	2.100	39.800	1.750
R 1,5 X 3	50.000	3.300	31.800	2.100	26.500	1.750
R 2 X 4	39.800	3.500	23.800	2.100	19.900	1.750
R 3 X 6	26.500	3.550	15.900	2.150	13.000	1.800
R 4 X 8	19.500	4.500	11.900	2.650	9.900	2.250
R 5 X 10	15.500	4.050	9.550	2.450	7.950	2.000
R 6 X 12	13.000	3.750	7.950	2.250	6.600	1.900
R 8 X 16	9.900	3.550	5.950	2.100	4.950	1.800
R10 X 20	7.950	3.200	4.750	1.900	3.950	1.600
Max cutting depth						

1. Use a high rigidity machine set up.
2. Use soluble oil.
3. When chattering occurs, reduce the speed and feed simultaneously.