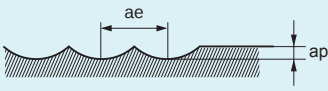


DIAMOND COATED END MILLS

DF2XLB

Ball nose, 2 flute, Long neck, For graphite

RECOMMENDED CUTTING CONDITIONS

Work material		Graphite			
R (mm)	Neck length (mm)	Revolution (min ⁻¹)	Feed rate (mm/min)	Depth of cut ap (mm)	Depth of cut ae (mm)
R0.2	1	40000	1500	0.05	0.15
	2	40000	1500	0.05	0.12
	3	40000	1300	0.04	0.12
	4	40000	1300	0.04	0.1
	8	30000	800	0.03	0.1
	12	20000	450	0.03	0.08
R0.25	4	40000	1500	0.05	0.15
R0.3	2	40000	1800	0.07	0.2
	4	40000	1500	0.06	0.18
	6	40000	1500	0.06	0.15
	10	35000	1000	0.05	0.15
	16	22000	530	0.04	0.12
R0.4	6	40000	1700	0.08	0.2
	8	40000	1700	0.08	0.15
R0.5	4	40000	2500	0.12	0.3
	6	40000	2500	0.1	0.3
	8	40000	2000	0.1	0.25
	10	40000	2000	0.1	0.2
	12	40000	2000	0.1	0.2
	20	30000	1100	0.08	0.2
	30	20000	600	0.06	0.15
	40	15000	400	0.04	0.12
R0.75	8	40000	2800	0.15	0.45
	10	40000	2800	0.15	0.45
	16	35000	2000	0.15	0.3
	30	27000	1000	0.1	0.3
R1	8	40000	3000	0.23	0.7
	10	40000	3000	0.2	0.6
	12	35000	2500	0.2	0.6
	16	30000	2000	0.2	0.5
	20	30000	2000	0.2	0.5
	25	25000	1500	0.18	0.45
	40	20000	1000	0.15	0.4
	60	15000	500	0.1	0.3
R1.5	16	28000	3000	0.3	0.9
	25	20000	2000	0.25	0.75
	40	16000	1500	0.2	0.6
	60	14000	1000	0.17	0.45
R2	20	21000	3300	0.5	1.5
	30	15000	2000	0.4	1.2
	40	13000	1600	0.35	1
	60	12000	1400	0.3	0.9
Depth of cut					

- 1) When high machining accuracy is needed, or the workpiece becomes chipped, we recommend lowering the feed rate.
- 2) Use a milling machine dedicated for graphite.
- 3) If the rigidity of the machine or the work materials installation is very low, or chattering and noise are generated, reduce the revolution and feed rate proportionately.