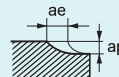


RECOMMENDED CUTTING CONDITIONS

Work material			Graphite				Copper, Copper alloys			
Dia. DC (mm)	Corner radius RE (mm)	Neck length LU (mm)	Revolution (min ⁻¹)	Feed rate (mm/min)	Depth of cut ap (mm)	Depth of cut ae (mm)	Revolution (min ⁻¹)	Feed rate (mm/min)	Depth of cut ap (mm)	Depth of cut ae (mm)
0.5	0.1	4	30000	1100	0.05	0.23	24000	700	0.04	0.23
	0.1	5	28000	960	0.05	0.23	22000	600	0.04	0.23
	0.1	6	25000	850	0.05	0.23	20000	540	0.04	0.23
	0.1	10	22000	600	0.04	0.21	—	—	—	—
	0.1	15	20000	500	0.03	0.18	—	—	—	—
0.8	0.1	6	28000	1300	0.08	0.45	22000	830	0.06	0.45
	0.1	8	22000	900	0.08	0.45	18000	580	0.06	0.45
1	0.1	8	25000	1500	0.1	0.6	20000	960	0.08	0.6
	0.1	12	22000	1300	0.1	0.6	18000	830	0.08	0.6
	0.2	8	25000	1500	0.1	0.45	20000	960	0.08	0.45
	0.2	12	22000	1300	0.1	0.45	18000	830	0.08	0.45
	0.2	16	18000	1000	0.08	0.4	14000	640	0.06	0.4
	0.2	20	15000	800	0.08	0.4	—	—	—	—
1.5	0.2	10	18000	1400	0.15	0.8	14000	900	0.12	0.8
	0.2	20	12000	900	0.12	0.65	9600	580	0.1	0.65
2	0.1	8	24000	3300	0.2	1.2	19000	2100	0.16	1.2
	0.2	12	22000	3000	0.2	1.2	18000	1900	0.16	1.2
	0.2	16	19000	2500	0.2	1.2	15000	1600	0.16	1.2
	0.2	20	16000	2000	0.2	1.2	13000	1300	0.16	1.2
	0.2	30	13000	1600	0.16	1.0	—	—	—	—
	0.2	40	11000	1200	0.14	0.8	—	—	—	—
	0.3	8	24000	3300	0.3	1.2	19000	2100	0.24	1.2
3	0.2	20	18000	3000	0.3	2.0	14000	1900	0.24	2.0
	0.2	40	12000	1800	0.25	1.7	9600	1100	0.2	1.7
	0.5	20	18000	3000	0.3	1.5	14000	1900	0.24	1.5
	0.3	12	20000	4500	0.3	1.5	16000	2900	0.24	1.5
4	0.2	20	18000	4200	0.4	2.7	14000	2700	0.3	2.7
	0.2	40	13000	2800	0.4	2.7	10000	1800	0.3	2.7
	0.5	20	18000	4200	0.4	2.3	14000	2700	0.3	2.3
	0.5	40	13000	2800	0.4	2.3	10000	1800	0.3	2.3
6	0.1	24	14000	4600	0.6	3.8	11000	2900	0.5	3.8
	0.3	24	14000	4600	0.6	3.8	11000	2900	0.5	3.8
	0.5	24	14000	4600	0.6	3.8	11000	2900	0.5	3.8
	0.5	30	14000	4600	0.6	3.8	11000	2900	0.5	3.8
	1	30	14000	4600	0.6	3.0	11000	2900	0.5	3.0
8	0.5	30	10500	4000	0.8	5.3	8400	2600	0.6	5.3
	1	30	10500	4000	0.8	4.5	8400	2600	0.6	4.5
10	0.5	40	8700	3500	1.0	6.8	7000	2200	0.8	6.8
	1	40	8700	3500	1.0	6.0	7000	2200	0.8	6.0
12	0.5	40	7200	3000	1.2	8.0	5800	1900	1.0	8.0

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.