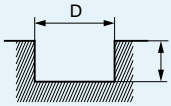


RECOMMENDED CUTTING CONDITIONS

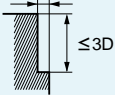
Slotting

Dia. (mm)	Carbon steel, Cast iron, Alloy steel (-30HRC) Cf53, GG25			Alloy steel, Tool steel, Pre-hardened steel X40CrMoV51		
	Revolution (min ⁻¹)	Feed rate (mm/min)	Depth of cut (mm)	Revolution (min ⁻¹)	Feed rate (mm/min)	Depth of cut (mm)
0.2	40000	400	0.001	30000	250	0.001
0.3	40000	600	0.005	35000	420	0.005
0.4	40000	700	0.007	30000	420	0.007
0.5	40000	800	0.01	24000	380	0.01
0.6	33000	800	0.015	21000	480	0.01
0.7	28000	800	0.015	18000	480	0.015
0.8	25000	800	0.02	16000	480	0.02
0.9	22000	800	0.03	15000	500	0.03
1	20000	800	0.04	13000	500	0.04
1.5	13000	800	0.10	9000	500	0.10
2	10000	800	0.15	6700	500	0.15
2.5	9000	800	0.20	6000	500	0.20
3	8000	800	0.20	5200	460	0.20
4	6000	600	0.20	4000	340	0.20
5	4800	480	0.30	3200	280	0.20
6	4000	400	0.30	2600	210	0.20
8	3000	300	0.30	2000	170	0.30
10	2400	240	0.30	1600	140	0.30
12	2000	200	0.30	1300	110	0.30

Depth of cut	 <p>≤ Please refer to the list above for depth of cut.</p> <p style="text-align: right;">D: Dia.</p>					
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Shoulder milling

Dia. (mm)	Carbon steel, Cast iron, Alloy steel (-30HRC) Cf53, GG25			Alloy steel, Tool steel, Pre-hardened steel X40CrMoV51		
	Revolution (min ⁻¹)	Feed rate (mm/min)	Depth of cut (mm)	Revolution (min ⁻¹)	Feed rate (mm/min)	Depth of cut (mm)
3	3500	370	0.05	2600	250	0.03
4	2800	370	0.06	2100	200	0.03
5	2200	330	0.06	1700	160	0.03
6	1800	300	0.06	1500	140	0.03
8	1600	270	0.08	1100	140	0.04
10	1400	240	0.10	900	140	0.05
12	1200	200	0.10	750	120	0.06

Depth of cut	<p>≤ Please refer to the list above for depth of cut.</p>  <p>≤ 3D</p> <p style="text-align: right;">D: Dia.</p>					
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- 1) If the depth of cut is shallow, the revolution and feed rate can be increased.
- 2) When drilling, please set the feed rate at 1/3 or below the values above.
- 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.