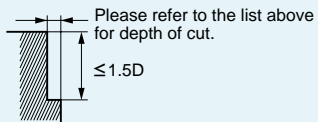
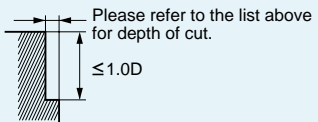
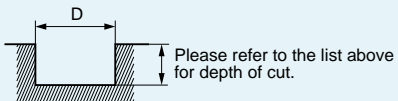


## RECOMMENDED CUTTING CONDITIONS

Work material	Hardened steel (45–55HRC)			Hardened steel (55–62HRC)			Hardened steel (62–70HRC)		
	X40CrMoV51			X210Cr12			070M55, 1.3343 (W6Mo5Cr4V2)		
Dia. (mm)	Revolution (min <sup>-1</sup> )	Feed rate (mm/min)	Depth of cut (mm)	Revolution (min <sup>-1</sup> )	Feed rate (mm/min)	Depth of cut (mm)	Revolution (min <sup>-1</sup> )	Feed rate (mm/min)	Depth of cut (mm)
1	40000	1200	0.05	40000	800	0.03	32000	500	0.02
2	40000	2000	0.1	24000	1000	0.05	16000	600	0.05
3	32000	3800	0.2	16000	1900	0.1	11000	1200	0.05
4	24000	4400	0.2	12000	2200	0.1	8000	1300	0.05
6	16000	5800	0.3	8000	2900	0.2	5300	1800	0.1
8	12000	5800	0.4	6000	2900	0.2	4000	1800	0.1
10	9600	5800	0.5	4800	2900	0.3	3200	1800	0.2
12	8000	4800	0.6	4000	2400	0.3	2700	1500	0.2
16	6000	3600	0.8	3000	1800	0.5	2000	1100	0.3
20	4800	2900	1.0	2400	1400	0.5	1600	880	0.3
25	3800	2300	1.0	1900	1100	0.5	1300	720	0.3
Depth of cut	 <p>Please refer to the list above for depth of cut. ≤ 1.5D</p>			 <p>Please refer to the list above for depth of cut. ≤ 1.0D</p>					

D:Dia.

## Slot milling with small diameter tools

Work material	Hardened steel (45–55HRC)			Hardened steel (55–62HRC)			
	X40CrMoV51			X210Cr12			
Dia. (mm)	Revolution (min <sup>-1</sup> )	Feed rate (mm/min)	Depth of cut (mm)	Revolution (min <sup>-1</sup> )	Feed rate (mm/min)	Depth of cut (mm)	
1	15000	300	0.1	9500	110	0.05	
2	8000	320	0.2	4800	190	0.1	
Depth of cut	 <p>Please refer to the list above for depth of cut.</p>						D:Dia.

- 1) If the depth of cut is shallow, the revolution and feed rate can be increased.
- 2) 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.