



### 切削條件表

## Xs-UB

### **MILLING CONDITIONS**

被切削材 Work Material

調質鋼/預硬鋼 Prehardened Steels: NAK80:1.2083: AISI420: M310 (HRc36~45)

冷卻方式 Coolant Type

#### 溼式切削 Wet coolant

	7.1						
型號 Type No.	刀具伸長量 Extension Length (mm)	切削速度 Cutting Speed (m/min)	迴轉速度 Speed (min <sup>-1</sup> )	進給速度 Feed (mm/min)	加工深度 (Aa) Depth of Cut	加工寬度 (A <sub>P</sub> ) Width of Cut	加工方式 Mi <b>ll</b> ing Type
Xs-UB0802	25	280	10000~11000	2000~2400	0.18~0.23	0.36~0.46	3D銑 3D MILLING
Xs-UB0802	25	330	12000~13000	3800~4200	0.08~0.13	0.16~0.26	3D銑 3D MILLING
Xs-UB0802	45	185	6700~7300	1200~1600	0.15~0.2	0.3~0.4	3D銑 3D MILLING
Xs-UB0802	45	225	8300~8800	1800~2200	0.08~0.1	0.16~0.2	3D銑 3D MILLING
Xs-UB0802	65	175	6000~7000	1200~1600	0.08~0.1	0.16~0.2	3D銑 3D MILLING
Xs-UB1002	40	290	8700~9200	2600~3000	0.23~0.28	0.46~0.56	3D銑 3D MILLING
Xs-UB1002	40	290	8700~9200	3600~4000	0.1~0.15	0.2~0.3	3D銑 3D MILLING
Xs-UB1002	60	290	8700~9200	1800~2200	0.1~0.15	0.2~0.3	3D銑 3D MILLING
Xs-UB1002	60	290	8700~9200	2200~2600	0.06~0.1	0.12~0.2	3D銑 3D MILLING
Xs-UB1002	100	195	5700~6200	1100~1300	0.1~0.14	0.2~0.28	3D銑 3D MILLING
Xs-UB1002	100	260	7700~8200	1400~1700	0.06~0.1	0.12~0.2	3D銑 3D MILLING
Xs-UB1202	40	325	8200~8600	2200~2600	0.28~0.3	0.56~0.6	3D銑 3D MILLING
Xs-UB1202	40	325	8200~8600	3000~3400	0.1~0.15	0.2~0.3	3D銑 3D MILLING
Xs-UB1202	60	325	8200~8600	1600~2000	0.2~0.25	0.4~0.5	3D銑 3D MILLING
Xs-UB1202	60	325	8200~8600	2200~2600	0.1~0.15	0.2~0.3	3D銑 3D MILLING
Xs-UB1202	100	220	5300~5800	800~1200	0.1~0.15	0.2~0.3	3D銑 3D MILLING
Xs-UB1602	60	230	4000~4500	1400~1800	0.23~0.28	0.46~0.56	3D銑 3D MILLING
Xs-UB1602	60	305	5500~6000	2800~3200	0.12~0.17	0.24~0.34	3D銑 3D MILLING
Xs-UB1602	100	175	3000~3500	1200~1600	0.23~0.28	0.46~0.56	3D銑 3D MILLING
Xs-UB1602	100	230	4000~4500	2200~2600	0.12~0.17	0.24~0.34	3D銑 3D MILLING
Xs-UB1602	140	140	2300~2800	1300~1600	0.1~0.15	0.2~0.3	3D銑 3D MILLING
Xs-UB2002	80	360	5200~5700	1400~1800	0.23~0.28	0.46~0.56	3D銑 3D MILLING
Xs-UB2002	80	380	5500~6000	2400~2800	0.12~0.17	0.24~0.34	3D銑 3D MILLING
Xs-UB2002	130	190	2500~3000	900~1200	0.2~0.25	0.4~0.5	3D銑 3D MILLING
Xs-UB2002	130	220	3000~3500	1600~2000	0.12~0.17	0.24~0.34	3D銑 3D MILLING
Xs-UB2002	180	140	1700~2200	1000~1300	0.1~0.15	0.2~0.3	3D銑 3D MILLING
Xs-UB2502	80	330	3500~4000	1300~1700	0.23~0.28	0.46~0.56	3D銑 3D MILLING
Xs-UB2502	80	350	4000~4500	1800~2200	0.12~0.17	0.24~0.34	3D銑 3D MILLING
Xs-UB2502	130	220	2400~2800	1000~1400	0.2~0.25	0.4~0.5	3D銑 3D MILLING
Xs-UB2502	130	300	3400~3800	1300~1700	0.12~0.17	0.24~0.34	3D銑 3D MILLING
Xs-UB2502	180	240	2500~3000	1100~1400	0.1~0.15	0.2~0.3	3D銑 3D MILLING

附註 Note

- 1. 由於機器剛性及主軸扭力不同,加工時若有尖銳聲音,請調降轉速(S)及進給(F)。
- 2. 使用BT50 (SK50/HSK100A) 刀把夾持之機器,可視情況調高轉速(S)及進給(F)。
- 1. Due to spindle torque and the rigidity of machine differs, please lower the Speed(S) and Feed(F) if hearing sharp voices while milling.
- 2. For the machine use with holder of BT50(SK50/HSK100A), please higher Speed(S) and Feed(F) according to the cutting condition.



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### 切削條件表

# Xs-UB

### MILLING CONDITIONS

被切削材 Work Material

熱處理鋼 Hardened Steels SKD61/ STAVAX / 17-4PH: 1.2083 / 1.2344 / 1.4542: H13 / 420 (HRc48~54)

冷卻方式 Coolant Type

乾式切削 Dry coolant

型號 Type No.	刀具伸長量 Extension Length (mm)	切削速度 Cutting Speed (m/min)	迴轉速度 Speed (min <sup>-1</sup> )	進給速度 Feed (mm/min)	加工深度 (Aa) Depth of Cut	加工寬度 (Ap) Width of Cut	加工方式 Mi <b>ll</b> ing Type
Xs-UB0802	25	280	10000~11000	2600~3000	0.06~0.09	0.12~0.18	3D銑 3D MILLING
Xs-UB0802	45	145	5400~5800	1600~2000	0.06~0.08	0.12~0.16	3D銑 3D MILLING
Xs-UB0802	65	130	4700~5200	1200~1600	0.06~0.08	0.12~0.16	3D銑 3D MILLING
Xs-UB1002	40	260	7700~8200	2600~3000	0.08~0.13	0.16~0.26	3D銑 3D MILLING
Xs-UB1002	60	230	6700~7200	1400~1800	0.08~0.13	0.16~0.26	3D銑 3D MILLING
Xs-UB1002	80	185	5300~5800	1000~1200	0.07~0.1	0.16~0.2	3D銑 3D MILLING
Xs-UB1202	40	305	7500~8000	1800~2200	0.08~0.13	0.16~0.26	3D銑 3D MILLING
Xs-UB1202	60	290	7200~7700	1200~1600	0.08~0.13	0.16~0.26	3D銑 3D MILLING
Xs-UB1202	100	220	5300~5800	800~1100	0.08~0.13	0.16~0.26	3D銑 3D MILLING
Xs-UB1602	60	215	3800~4200	2000~2400	0.1~0.15	0.2~0.3	3D銑 3D MILLING
Xs-UB1602	100	160	2800~3200	1600~2000	0.1~0.15	0.2~0.3	3D銑 3D MILLING
Xs-UB1602	130	115	2000~2300	800~1200	0.1~0.12	0.2~0.24	3D銑 3D MILLING
Xs-UB2002	80	315	4500~5000	1200~1600	0.1~0.15	0.2~0.3	3D銑 3D MILLING
Xs-UB2002	130	190	2500~3000	800~1200	0.1~0.15	0.2~0.3	3D銑 3D MILLING
Xs-UB2002	180	140	1700~2200	800~1000	0.08~0.1	0.16~0.2	3D銑 3D MILLING
Xs-UB2502	80	315	3500~4000	1300~1700	0.1~0.15	0.2~0.3	3D銑 3D MILLING
Xs-UB2502	130	240	2500~3000	1000~1400	0.1~0.15	0.2~0.3	3D銑 3D MILLING
Xs-UB2502	180	200	2000~2500	800~1200	0.1~0.15	0.2~0.3	3D銑 3D MILLING

- 1. 由於機器剛性及主軸扭力不同,加工時若有尖銳聲音,請調降轉速(S)及進給(F)。
- 2. 使用BT50 (SK50/HSK100A) 刀把夾持之機器,可視情況調高轉速(S)及進給(F)。
- 3. Xs-UB1002在HRc52伸長量100mm時,條件非常差。
- 1. Due to spindle torque and the rigidity of machine differs, please lower the Speed(S) and Feed(F) if hearing sharp voices while milling.
- 2. For the machine use with holder of BT50(SK50/HSK100A), please higher Speed(S) and Feed(F) according to the cutting condition.
- 3. When Xs-UB1002 of extension is 100mm in HRc52, the cutting data is not good.