

RECOMMENDED CUTTING CONDITIONS

LB Type Drill

Work material	Aluminium Alloy (Si<5%)		Aluminium Alloy (5%≤Si≤10%)		Aluminium Alloy (Si>10%)	
Drill Dia. (mm)	Revolution (min ⁻¹)	Feed rate (Min.—Max.) (mm/rev)	Revolution (min ⁻¹)	Feed rate (Min.—Max.) (mm/rev)	Revolution (min ⁻¹)	Feed rate (Min.—Max.) (mm/rev)
3.2	11900	0.1 (0.11—0.16)	11900	0.15 (0.16—0.21)	11900	0.15 (0.16—0.21)
4.0	9500	0.15 (0.13—0.20)	9500	0.2 (0.20—0.27)	9500	0.2 (0.20—0.27)
5.0	7600	0.2 (0.17—0.25)	7600	0.25 (0.25—0.33)	7600	0.25 (0.25—0.33)
6.3	7500	0.25 (0.21—0.32)	7500	0.35 (0.32—0.42)	7500	0.35 (0.32—0.42)
8.0	5900	0.3 (0.27—0.40)	5900	0.45 (0.40—0.53)	5900	0.45 (0.40—0.53)
10.0	4700	0.4 (0.33—0.50)	4700	0.55 (0.50—0.67)	4700	0.55 (0.50—0.67)
14.0	5300	0.5 (0.40—0.60)	5300	0.7 (0.60—0.80)	5300	0.7 (0.60—0.80)

(Note 1) When using the drill with a length over l/d 10, it is necessary to use a prep hole as a guide.

(If no prep-hole is used then drill breakage can occur)

(Note 2) For pilot hole drilling, Mitsubishi Materials MNS, MAE-MB or MAS-MB drill is recommended.

DB Type Drill

Work material	Aluminium Alloy (Si<5%)		Aluminium Alloy (5%≤Si≤10%)		Aluminium Alloy (Si>10%)	
Drill Dia. (mm)	Revolution (min ⁻¹)	Feed rate (Min.—Max.) (mm/rev)	Revolution (min ⁻¹)	Feed rate (Min.—Max.) (mm/rev)	Revolution (min ⁻¹)	Feed rate (Min.—Max.) (mm/rev)
3.2	8900	0.1 (0.11—0.16)	8900	0.15 (0.16—0.21)	8900	0.15 (0.16—0.21)
4.0	7100	0.15 (0.13—0.20)	7100	0.2 (0.20—0.27)	7100	0.2 (0.20—0.27)
5.0	5700	0.2 (0.17—0.25)	5700	0.25 (0.25—0.33)	5700	0.25 (0.25—0.33)
6.3	6000	0.25 (0.21—0.32)	6000	0.35 (0.32—0.42)	6000	0.35 (0.32—0.42)
8.0	4700	0.3 (0.27—0.40)	4700	0.45 (0.40—0.53)	4700	0.45 (0.40—0.53)
10.0	3800	0.4 (0.33—0.50)	3800	0.55 (0.50—0.67)	3800	0.55 (0.50—0.67)
14.0	4200	0.5 (0.40—0.60)	4200	0.7 (0.60—0.80)	4200	0.7 (0.60—0.80)

(Note 1) When using the drill with a length over l/d 10, it is necessary to use a prep hole as a guide.

(If no prep-hole is used then drill breakage can occur)

(Note 2) For pilot hole drilling, Mitsubishi Materials MNS, MAE-MB or MAS-MB drill is recommended.