Machining method		Equipment name	Tools required
Cutting	Machining holes on sides and bottom	General purpose milling cutter NC milling cutter Machining center	Drills Reamers End mills Cutting tools
	Machining holes	Drilling machine Boring machine Boring machine Jig borer	Drills Taps Reamers Cutting tools
	Machining cylinders	General purpose lathe NC lathe Turning center	Drills Reamers Taps Cutting tools
Grinding		Surface grinder Cylindrical grinder Jig grinder Profile grinder Forming grinder	Grindstones
Electric discharge		EDM	Electrode master
		WEDM	Wire

Tool material			Machined material: Non-ferrous metal	Untreated	Heat treated	Hardened/tempered
Press die materials			(Al)	(Al—alloy) SS400 (SS41) S45C S50C SKD11 DC53	(Be—Cu) SCM435 HPM2T	DC53 (Carbide) SKD11 SUJ2 SKH51 S45C SKS3
Plastic mold material			CU BsBM2	SKD61 STAVAX ESR RIGOR (SKD12 group)	HPM7 NAK55 PX5 HPM1 NAK80 HPM38 HPM50 S—STAR FDAC STAVAX ESR DH2F	(Electroforming-outside) (Electroforming-inside) ORAVAR SUPREME (Age-hardened) MAS1C HPM38 S—STAR SKD61 STAVAX ESR RIGOR (SKD12 group)
HRC				10 20	30 40	50 60 70
Drills	High-speed steel	SKH—				
Reamers	Carbide	Wn—Co				
Taps	High-speed steel	SKH—				
	Carbide	Wn—Co				
End mills	High-speed steel	SKH—				
	Carbide	Wn—Co				
Cutting tools	Boron	CBN				
	Diamond	D	(Non-ferrous metal)			(Carbide)
Grindstones	White fused alumina	WA				
	Brown fused alumina	A				
	Pink fused alumina	PA				
	Green silicon carbide	GC				
	Black silicon carbide	C	(Non-ferrous metal)			
	ED boron	CBN				
	ED diamond	D	(Non-ferrous metal)			(Carbide)
Electrode master	Electrolytic copper, brass	CU—				
	Copper tungsten, silver tungsten	—Wn				
Wire	Brass	CU—Zn				
	Tungsten	Wn				