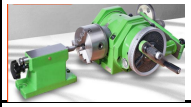
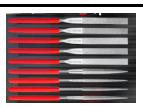
DFM-Process analysis of design information

Purpose: In order to achieve the normal production of the mold to do the preliminary preparation

Design: According to the section of the profile, design the corresponding profile mold processing diagram, and in the computer with 3D to simulate its feasibility.

Manufacturing Bom

Materials and Equipment	Picture	Function	Step	Quality requirement	Components and description
H13 round stee		Parts of upper mold	1	Meet H13 national standard alloy composition requirements and mechanical property requirements	Meet H13 national standard alloy composition requirements and mechanical property requirements
H13 forging piece		Parts of lower mold	2		
Band saw		Prepare the materials for making the mold	3	Processing according to drawing	The saw surface is reserved for finish turning space to ensure that the end face is flat and not overheated
Lineation		Dividing mold	4	Dividing according to the drawing	Dividing according to the drawing
Radial drilling machine		Punch the mold	5	Control the drilling diameter depth	Punch holes according to the drawing, and check the fit of pin fitting bolts
Lathe		Turn the shape of the mold	6	Control outer diameter thickness	The lathe feed is 1MM, and the precision turning is 0.2M
CNC milling machine		Making mold cavity	7	Control welding space	The construction shall be carried out according to the drawing without over cutting
Electrical discharge machining		Processing in the space of calibration strap	8	Spark pattern can not damage the calibration strap	The construction shall be carried out according to the drawing without over drilling
Surface grind		Deal with the flat surface of the mold calibration strap	9	Processing according to drawing	The construction shall be carried out according to the drawing without over cutting, 0.002MM reserved for elaborate Polishing
Wire EDM Machine		Deal with the shape of the mold calibration strap	10	Medium wire feeding processing	The construction shall be carried out according to the drawing without over cutting, 0.002MM reserved for elaborate polishing
Fitter machine		Final assembly the mold	11	Processing according to drawing	Final assembly according to the drawing, wall thickness minus tolerance
Polished		Polishing the calibrating strap of the mold	12	Deburring required	Polishing the calibrating strap of the mold, 1600 mesh sand passing, edge C0.1
Copper seal code		Make mold code	13	The steel seal should be clear	The code specified by the customer shall be printed according to the steel seal of the drawing, and the pin position shall be symmetrical as the starting point
Inspect	Inspection by quality inspector	Acceptance according to the drawing	14	Acceptance according to 18 items above	Follow up the extrusion to check the condition of the mold, and reserve part of the profile to take back to the repair area
Guangdong Zhonglian Aluminum Company (Project Assistance Office-2-2022-11-26)				Person in charge: Luo Xin	