

Application

1. Electrode of Gas Discharging Tube

OD: Φ 5-8mm, H=3mm

Profile accuracy of electrode teeth:0.02

Forming by Progressive Cold Forging

1 cycle one piece parts

Product Tolerance \pm 0.02mm

Roughness RA0.8

2. lead frame for optical module

OD: Φ 5mm, Thickness=1mm

Hold diameter and pitch tolerance \pm 0.01

Forming by Progressive Cold Forging

1 cycle one piece parts

Product Tolerance \pm 0.02mm

Roughness RA0.4

3. Automobile reversing radar shell

OD: Φ 12mm, Thickness:8mm

Position accuracy \pm 0.05

Forming by Progressive Cold Forging

1 cycle one piece parts

Product Tolerance \pm 0.02mm

Roughness RA0.8

4. Safety valve pole of EV lithium battery

OD: Φ 10mm, Thickness=6mm

Position accuracy: \pm 0.02

Forming by Progressive Cold Forging

1 cycle one piece parts

Product Tolerance \pm 0.02mm

Roughness RA0.8



5. Kovar alloy is used in the environment of $-40\text{ }^{\circ}\text{C} \sim 450\text{ }^{\circ}\text{C}$, which is consistent with the expansion coefficient of high borosilicate glass. It is widely used in high vacuum glass-metal air sealing packaging

Out dimension: 5-20mm

Forming by Progressive Cold Forging

1 cycle one piece parts

Product Tolerance $\pm 0.02\text{mm}$

Roughness RA0.8

6. Industrial Precision Part (5G, Industrial Equipment, Security Device, Lightning protection products)

Material: Oxygen free copper, SUS, Aluminum

Forming by Progressive Cold Forging

1 cycle one piece parts

Roughness RA0.8~0.4

Replacement for CNC milling or lathing

Traditional Approach vs Progressive Cold Forging

NO.	Type	Traditional Process	Progressive Cold Forging	Comparison
①	Processing Approach	Lathing&CNC Milling	Progressive Cold Forging	
②	Equipment	Composite CNC	Precision Press Machine	
③	Motion	Cutting with tooling	Progressive One cycle one piece part	Progressive cold forging much better
④	Processing Tolerance	0.02mm	0.02mm	Same level
⑤	Efficiency	300-500pcs/Hour	10000-15000 pcs/Hour	30 times faster with Progressive cold forging
⑥	Quality Consistency	Affected by tool wearing	Formed by tooling, consistent quality guaranteed	consistent with Progressive cold forging