since 1962

HEJIAN STRAINS OF HARD ALLOY MOULD CO.,LTD

Precise mold drive,
industrial manufacturing upgrade.



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Contact: Baohua Wang +86 13605075188
Phone: 0317-3831082
Fax: 0317-3832799
Email: baohua@mouldzy.com limei@mouldzy.com
Web: https://www.mouldzy.com/
Address: Tangzhuang Mould Park,BeishicaoTown, Hejian City,
Hebei Province,062450, P.R.China



A Enterprise Profile



HEJIAN STRAINS OF HARD ALLOY MOULD CO.,LTD

Founded in 1962, covering an area of 4,000 square meters, we are a professional manufacturer of nail–making moulds in China. In 1981, we successfully developed China's first set of nail–making moulds, filling the domestic industry gap.

Our Strength

We have 280 employees, including dozens of engineers and technicians with college education or above.Fixed assets exceed 20 million RMB, with annual sales of 38 million RMB.

Our product portfolio includes 30 categories and more than 500 varieties, such as wire drawing dies, tube drawing dies, bar drawing dies, hexagonal dies and square dies.

Product Advantages

Our mould service life is over 300 times that of high–speed steel moulds. The moulds can be repaired repeatedly with almost unchanged service life after repair. Featuring standard specification, fine appearance and long durability, our products are highly recognized by customers.

Quality & Global Market

We passed ISO9002 quality system certification in 2000. Our products are exported to Singapore, Malaysia, Indonesia, Hong Kong and other countries and regions, winning consistent praise from overseas custom

1862	4000 ㎡	Singapore, Malaysia, Indonesia, Hong Kong and other countries and regions	500 varieties
Established in	Total Land Area	Exporting to many countries	Mold Range



ZHUYING ALLOY MOULD

500+ DIE TYPES

PRECISION MADE | DURABLE & STABLE |
FULL RANGE OF SIZES



Precise mold drive, industrial manufacturing upgrade.



PCD Diamond Wire Drawing Dies

PCD diamond wire drawing dies are precision wire drawing dies used to reduce the cross-sectional diameter of metal wire through a controlled drawing process. The working part usually consists of a diamond die insert, die holder, entry cone, approach cone, bearing and exit cone. The diamond insert provides a wear-resistant drawing surface, while the bearing controls the final wire diameter and roundness.

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Natural Diamond Wire Drawing Dies

Natural diamond and synthetic single crystal diamond wire drawing dies are suitable for the production of fine and ultra-fine wires. They feature high hardness, high precision, long service life and low friction coefficient, delivering wire with ultra-smooth surface, high output and low energy consumption during wire drawing.



Single Crystal Diamond Wire Drawing Dies

Precision Wire & Cable Processing

PCD wire drawing dies are manufactured with fine and uniform polycrystalline diamond structure, suitable for continuous metal wire drawing. The polishing and finishing process of die holes can be adjusted according to different wire drawing machines, wire materials and drawing conditions, so that the dies can meet specific production requirements.





PCD Special-Shaped Wire Drawing Dies

PCD Special-Shaped Wire Drawing Dies (also known as PCD dies for special profiles) are specially designed for producing metal profiles with non-circular cross-sections. Unlike standard round wire drawing dies, these PCD special-shaped dies deform metal wires and rods into complex geometric cross-sections through precision-machined PCD die inserts.

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Nano-mold

Nano-diamond coated wire drawing dies are manufactured by depositing diamond coating onto cemented carbide substrates via Chemical Vapor Deposition (CVD) technology. This structure combines the dimensional and mechanical support of cemented carbide with a thin, hard diamond coating on the working surface.

These dies are developed for wire drawing applications requiring large bore sizes. Traditional PCD dies are difficult to produce economically and dimensionally for such cases. Uncoated tungsten carbide dies can achieve the required bore diameter yet wear much faster. The diamond coated surface provides a harder working layer, reducing die hole wear during continuous wire drawing.



Tungsten Carbide Special-Shaped Wire Drawing Dies

Tungsten Carbide Special-Shaped Wire Drawing Dies are precision wire drawing dies used to draw metal wires into non-circular profiles such as square, rectangular, hexagonal, oval, flat, trapezoidal and other custom cross-sections. Combining a tungsten carbide working core with a precisely engineered special-shaped profile, these dies control the geometric shape of the wire during cold drawing.

Compared with conventional round wire drawing dies, the design of special-shaped dies centers on the final cross-section of the finished wire, rather than merely focusing on the incoming and finished diameters. Therefore, when selecting special-shaped wire drawing dies, comprehensive consideration must be given to factors including die profile, bearing length, area reduction per pass, tungsten carbide grade, surface finish and wire material.

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Tungsten Carbide Round Hole Dies

Tungsten Carbide Wire Drawing Dies are precision wire drawing dies made of cemented carbide, used to reduce the diameter of metal wires through controlled plastic deformation.

The die mainly consists of a tungsten carbide insert, entry cone, reduction zone, bearing, exit zone and supporting metal housing.

Compared with diamond wire drawing dies, tungsten carbide dies are generally used in applications requiring a balance of die bore size, reduction capacity, mechanical strength and production cost. Depending on the tungsten carbide grade and wire drawing conditions, they can be applied in continuous wire drawing processes for steel wire and non-ferrous metal wire.



Tungsten Carbide Wire Forming Rolls

Tungsten Carbide Ribbed Forming Rolls (Cemented Carbide Roll Rings)

Designed specifically for the rolling of ribbed steel wire and threaded wire rods. The roll surface is precision–machined with rib grooves. Made of highly wear–resistant tungsten carbide cemented carbide material, it features high hardness, excellent compressive strength, fatigue resistance and low risk of tooth chipping.

In wire rolling production lines, it transforms smooth round wire into continuous ribbed threaded wire. It delivers precise rib profiles, clear wire textures and high dimensional consistency of finished wires. Capable of long–duration continuous high–speed rolling, it greatly reduces roll wear and minimizes downtime for roll replacement. Widely applied in rolling processes for prestressed steel wire, ribbed rebars and construction threaded wire rods, it effectively improves the surface quality of finished wire products and boosts production efficiency.

Shedding Dies

Custom tungsten carbide scraping dies (scrapers) deliver excellent surface finish and ultra–tight dimensional tolerances.

These high–density tungsten carbide dies are engineered for demanding wire drawing and surface defect removal processes. They can efficiently remove oxide layers, seams, burrs and microcracks on non–ferrous and ferrous metal rods, wires and tubes.

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Pressure Dies

This combined pressure die adopts forcedlubrication structure. It can squeeze lubricant toform a continuous dense lubricating film on wiresurface during high–speed drawing.It effectively reduces friction and heat, preventswire breakage, improves wire surface finish, andgreatly extends service life of main drawing die.Suitable for high carbon steel wire, spring wire,galvanized wire, steel wire rope and other high–demand wire drawing processes.











Extrusion & Guide Dies

Cable extrusion dies are precision tooling components for cable extrusion production lines. They are used to coat and shape insulating or protective polymer materials around conductors, wires and cable cores.

The dies control the flow of extruded material and help define the diameter, insulation thickness, concentricity and surface profile of finished cables.

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Nail Making Dies, Nail Cutters & Punches

Nail–making dies, nail cutters and punches are the core forming components of nail making machines. The complete set is supporting for continuous production of various iron nails and steel nails.

Nail–making Dies: Shape wire rod, control the outer diameter of nail shanks, ensure dimensional accuracy and surface finish of nail bodies. Featuring excellent wear resistance, they resist deformation during long–term production.

Nail Cutters: Responsible for wire cutting. The cutting edges are sharp and durable, delivering flat cut ends. They guarantee consistent nail length and reduce burrs.

Punches: Stamp and form nail heads. With strong impact toughness, they are not easy to crack, producing full and well–shaped nail heads.





Cold Heading Dies

Cold heading dies are the core tooling for cold forming of fasteners and special-shaped metal parts. By powerful extrusion at room temperature, they enable plastic deformation of metal blanks and complete part forming in a single operation.

They feature high hardness, high strength, impact resistance and wear resistance, supporting stable mass production of bolts, rivets, nails, special-shaped pins and other products.

The dies deliver high precision. The formed workpieces have smooth surfaces and stable dimensions, which greatly reduces subsequent cutting operations, improves material utilization and production efficiency. They are widely applied in production lines for nail-making, standard fasteners and automotive fasteners.

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