



BURRAY

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HARDMETAL SPECIALIST

BURRAY

**CARBIDE DIES
NON-STANDARD PARTS**

Sichuan Burray Cemented Carbide Co., Ltd.



About Us

Sichuan Burray Cemented Carbide Co., Ltd.



BURRAY has independent import and export rights. Our products have been passed and are strictly enforced international certification standard for cemented carbide products all the time. High-end devices, super technical skills, perfect team, high-quality products, and satisfying service are our foundation to be a leader in the domestic market. Also, we commit to being a well-known cemented carbide enterprise in the world. So far, our products have been exported to the USA, Russia, India, Japan, etc and enjoyed customers' consistent praise.

BURRAY Adheres to responsible and sustainable business practices, including conflict free raw material sourcing, proactive health management for our employees, and continuous concern about the environmental impacts of our business. Our open and transparent business philosophy allows our customers, employees, and external suppliers, to have confidence in our business, ways of working, and our products.

SICHUAN BURRAY CEMENTED CARBIDE CO., LTD. is a professional high-tech enterprise, specialized in high-performance carbide R&D, design, manufacture, marketing sales, products including cemented carbide precision dies, cutting tools, wear-resisting parts, carbide profiles, etc. It covers an area of over more than 20 mu with 7,800 sq.ft standard workshop and 5,500 sq.ft R&D office. Anbang has many high-quality technical and management personnel who have strong technical strength and rich processing production experience. We are able to make different kinds of special customized cemented carbide products with $\pm 0.002\text{mm}$ machining precision. Our products are widely applied to the following fields: machine manufacturing, metallurgy, mining, oil, electronics, space industry, etc.

BURRAY has complete production line for cemented carbide precision dies and finished products. Besides, we have imported high-end devices for manufacturing, processing, and inspection, such as Agathon, Schneeberger, Moore Tool, Alicona, etc. At the same time, we are continuously optimizing product construction, adjusting business strategy, investing more on R&D, cultivating technical personnel, establishing and perfecting strict inspection and analysis process, improving product precision and quality as a result.



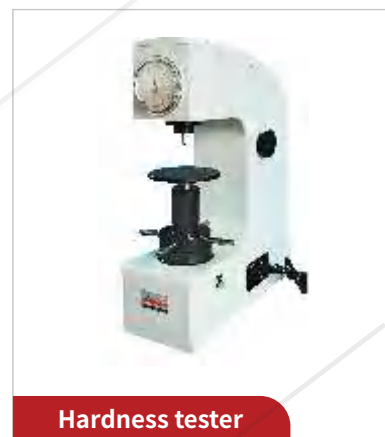
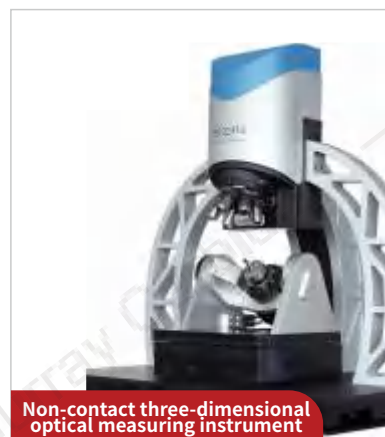
► MATERIAL GRADES ◀

Grades	Co %	Hardness (HRA)	Density (g/cm ³)	Bending Strength (MPa)	Elastic Modulus (GPa)	Coefficient Of Thermal Expansion (10 ⁻⁶ /°C)	Application
AB6BR	6.5	91.4	14.8	3100	525	4.9	Excellent wear resistance, suitable for molds with simple die cavity.
AB9R	9.0	90.6	14.5	3300	500	5.3	High utility, suitable for soft magnetic materials, iron and copper based powder metallurgy dies.
AB6R	6	92.9	14.8	3300	530	4.9	Ultra-fine grain, suitable for hard magnetic material forming mold.
AB10R	10	91.7	14.4	4300	490	5.4	Ultra-fine grains, excellent wear resistance and strength, suitable for soft magnetic materials, iron-based and copper-based powder metallurgy dies.
AB13R	13	90.6	14.1	4100	460	5.8	Ultra fine grain, suitable for dies with complicate cavities and need high wear resistance.
AB12R	12	88.9	14.2	3300	470	5.7	Suitable for dies with more complicate cavities.
AB15R	15	87.9	13.9	3200	440	6.1	Suitable for dies with more complicate cavities.
AB20R	20	85.8	13.4	3300	390	6.8	Suitable for dies with high loads and complicate cavities.

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► PRODUCT INSPECTION AND TESTING ◀

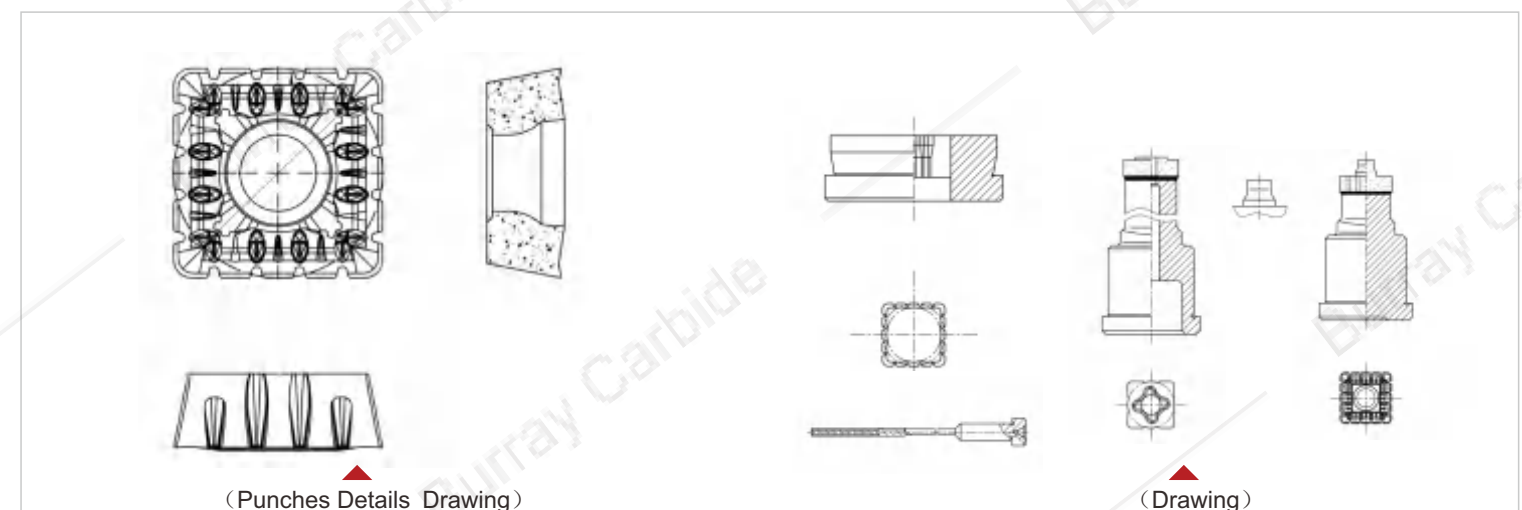


► CUSTOMIZATION SERVICES ◀

CUSTOMIZATION WITH SAMPLE



CUSTOMIZATION WITH DRAWING

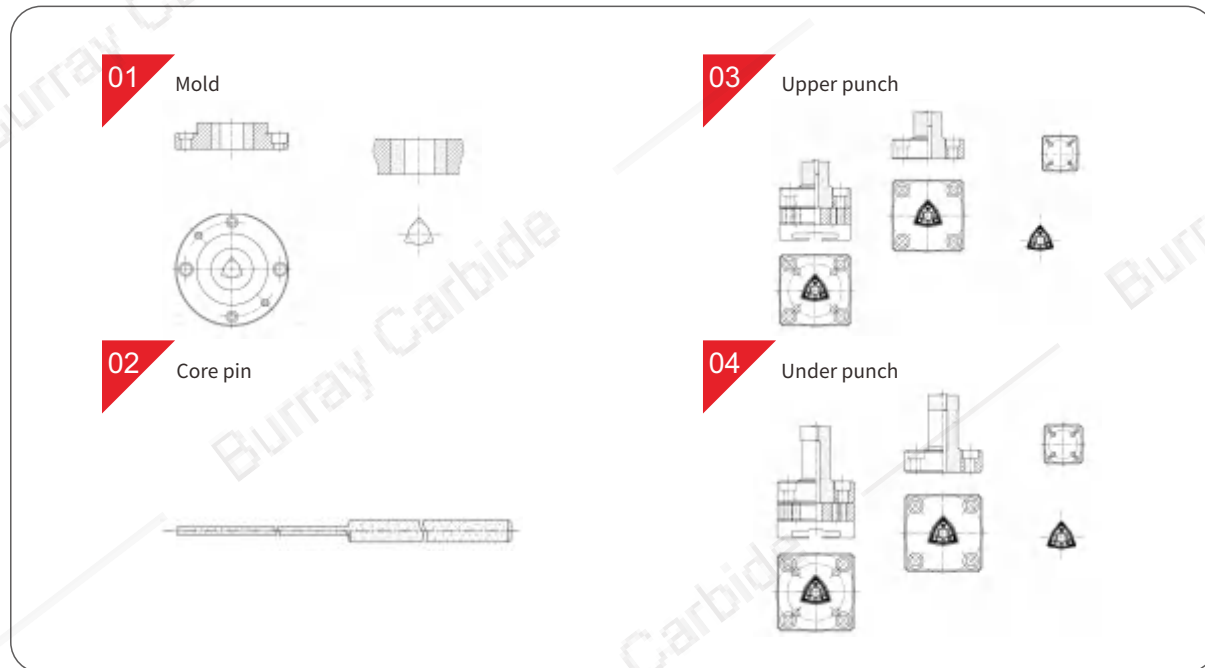


► CEMENTED CARBIDE DIES ◀

POWDER METALLURGY 3R DIES FOR INSERT

3R dies & molds are manufactured with optimized machining technology for high performance in the production of precision components.

- Simplify your process. It can minimize downtime and connects production flows, increase your production efficiency.
- Decrease your production costs. Reducing the die damage and longer working life through adopt exceptional quality carbide material.
- Outstanding for submicron accuracy. Significantly increased stability by using unique 3R base, aiming the application especially at the high demand of precision, the advanced machining technology of powder compacting die and rational structure design has been carried out to give compacted products unbeatable accuracy.



EXAMPLES

► 3R Dies-WNMG0808408-TN



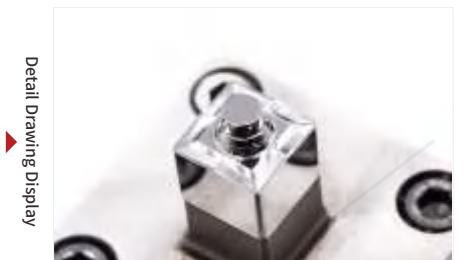
► 3R Dies-880-0906W08H-P-GM



► 3R Dies-880-090608H-C



► 3R Dies-XUMT120408PDER-H



► **3R Dies-QC210404**



Detail Drawing Display



► **3R Dies-WNMG080408-TM**



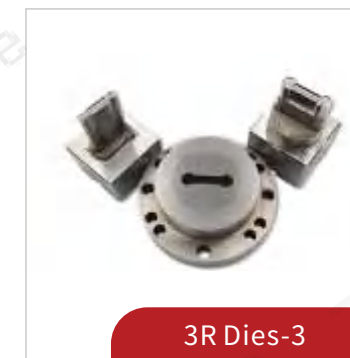
Detail Drawing Display



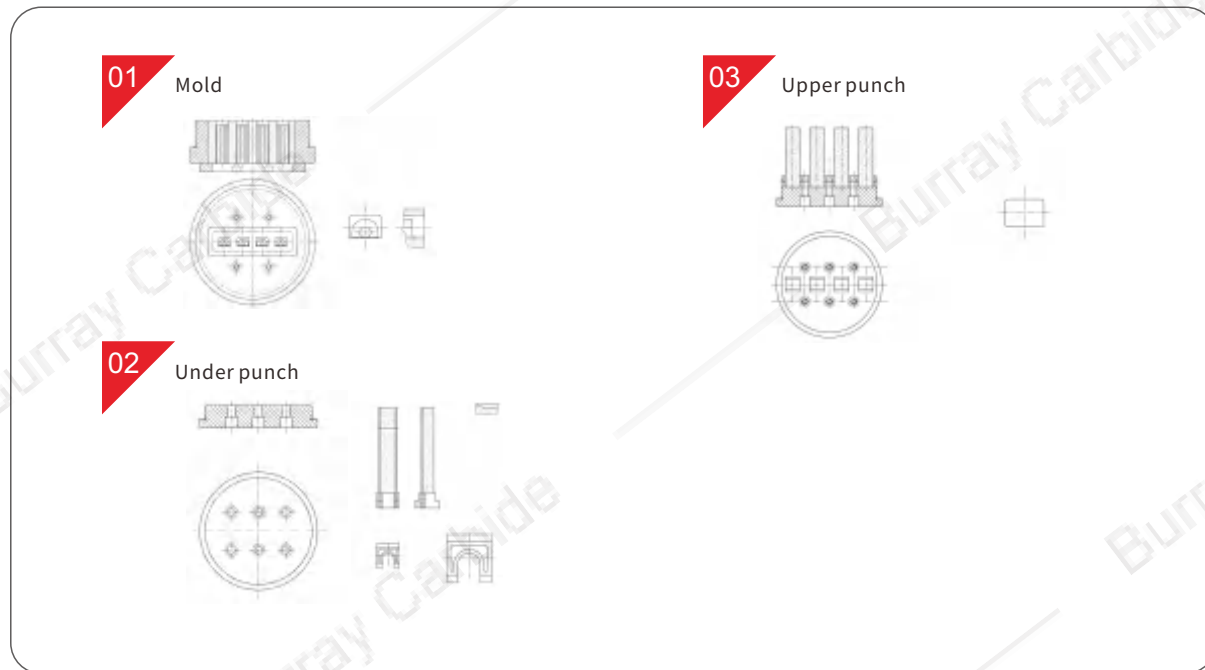
► **3R Dies-RPMT1604-BB**



Detail Drawing Display



MAGNETIC CORE DIES



► Magnetic Core Dies-2



Detail Drawing Display



► Magnetic Core Dies-3



Detail Drawing Display



EXAMPLES

► Magnetic Core Dies-1



Detail Drawing Display



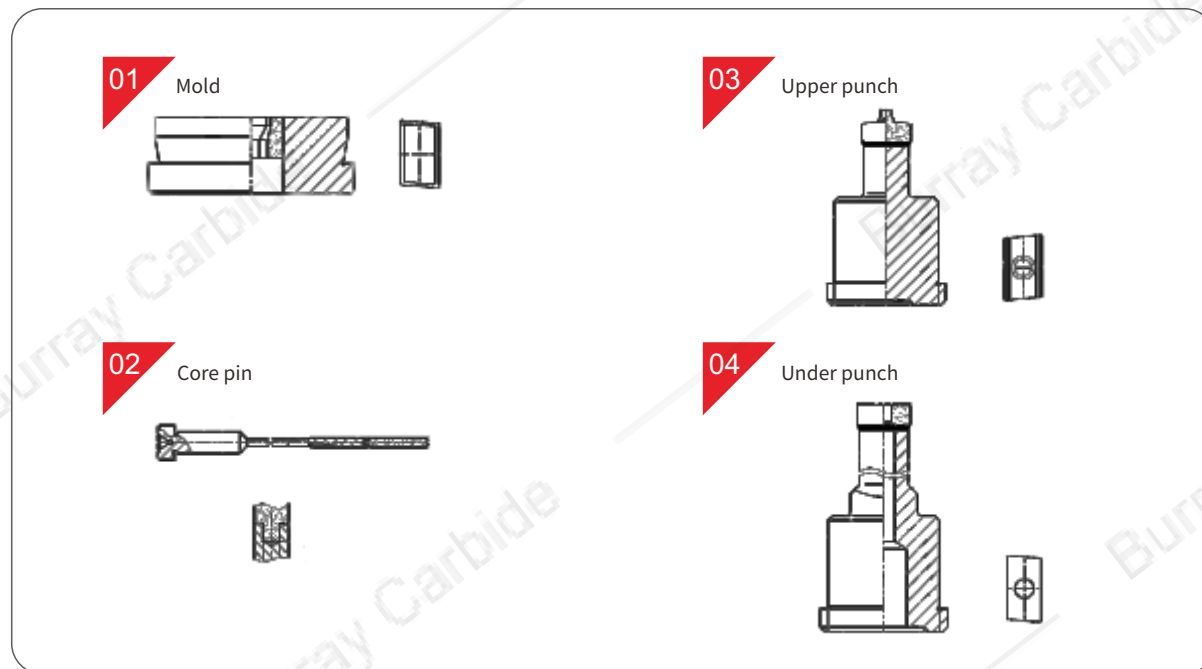
► Magnetic Core Dies-4



Detail Drawing Display



POWDER METALLURGY INSERT DIES



► Insert Dies-15.5X15.4X2.76-B



► Insert Dies-RPMT1204-JS



EXAMPLES

► Insert Dies-VCGT250606



► Insert Dies-ADMT11-F





RPMT1203MO



ROMW120300



SCMT



7GR-YX



XLNUX161105



VNMG160408-MS



CCMW120408



ABS15R4005R



9GR-YX



MRMN800-LH



XPNUG090508



TNGA1604-D-M



ADMT11-F



XHNUG050508



XAPUT191140-LN



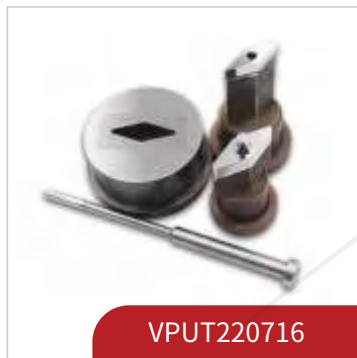
CNMG120404-PF



TNMX15T9



CNMM190624PR



VPUT220716



KTAB201016-180



B-XLNUX110408



APKT1604PDR-76



TNMG160404-HK



XHCUT040304



16GR-G55



TNGX160504



VRMG310



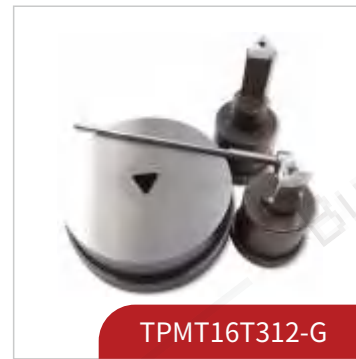
EDPT220508



SNMG250924-HR



WNGA0804



TPMT16T312-G



APKT1604PDER



YNMF1608



XEDUT10T304



WNUG090608



SEMT120404-F



WNMG080408-63



XTPUW110204

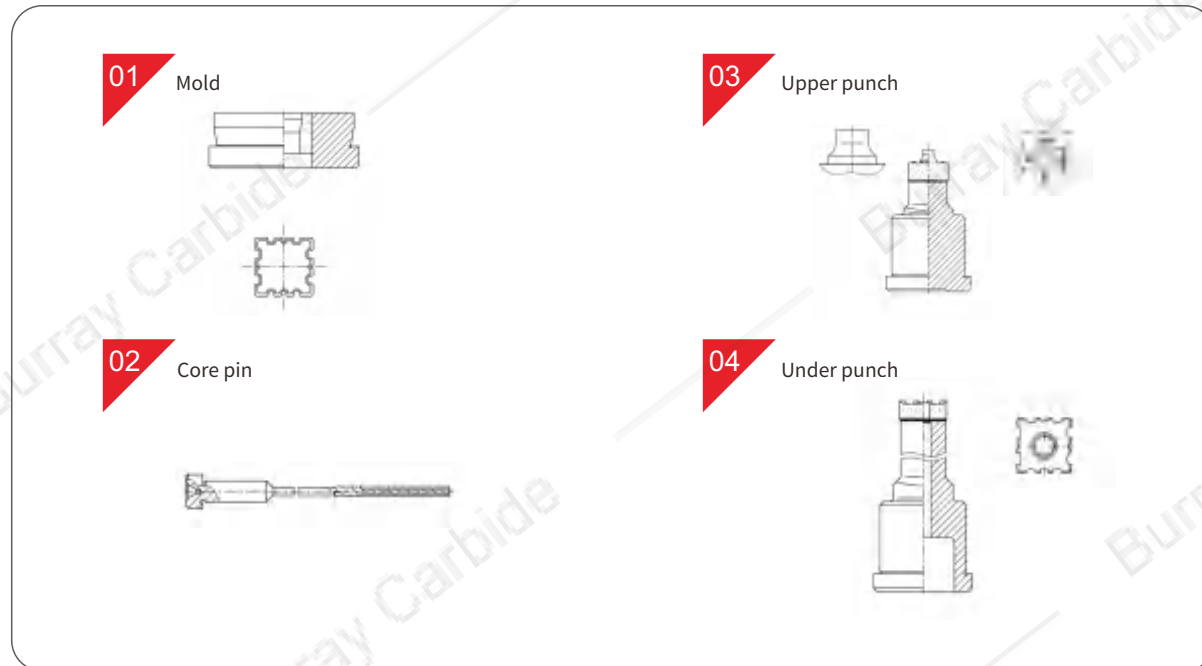


N123H2-0470-0005-GF



TNMG160408-63

POWDER METALLURGY NON-STANDARD INSERT DIES



► Non-standard Insert Dies-15.5X15.4X2.76-B



► Non-standard Insert Dies-489032-1

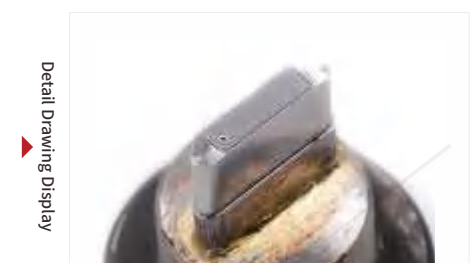


EXAMPLES

► Non-standard Insert Dies-SPMW2006M08



► Non-standard Insert Dies-489425





XNMU40



FC32R-24



ODMT



C10T308-12-0306



LNC120502P



VRMG310



WL-18001



WL-20039



2ESN-A



LNE120906-R



6790-20



YNMF1608



SK20017



SK20020



NG3M100L



13-6x3x3-75°



XN331-1A-115008H-WL



WJD1485



GW-036-1515



ST20025



ST-21010



STM22



ABM23R



A415Z



WL-20042



LNC120502



9GR-YX



7GR-YX



151825



CA-VK500



TN164



TN162



FB120904



YJC7054



QH10303



C-26417-MP

POWDER METALLURGY RING DIES

Ring Dies-2

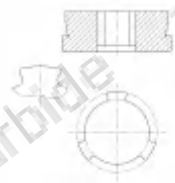


Ring Dies-3



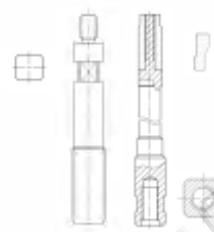
01

Mold



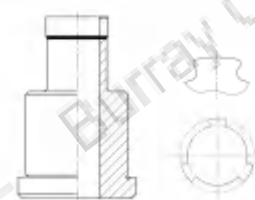
02

Core pin



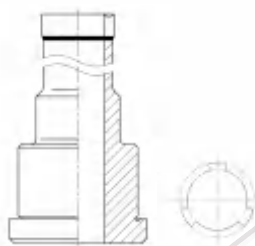
03

Upper punch



04

Under punch



EXAMPLES

Ring Dies-1



POWDER METALLURGY BAR DIES

► Bar Dies-2



Detail Drawing Display



► Bar Dies-3



Detail Drawing Display



EXAMPLES

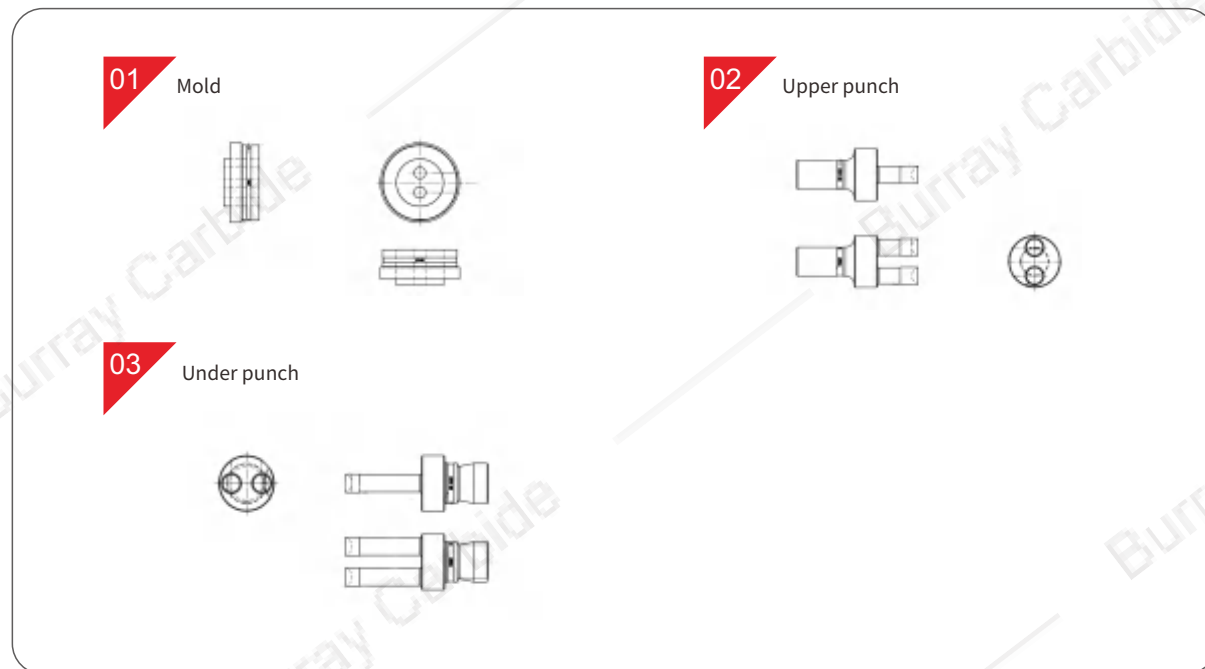
► Bar Dies-1



Detail Drawing Display



POWDER METALLURGY BALL DIES (HALF BALL)



► Ball Dies-2



Detail Drawing Display



► Ball Dies-3



Detail Drawing Display



EXAMPLES

► Ball Dies-1



Detail Drawing Display



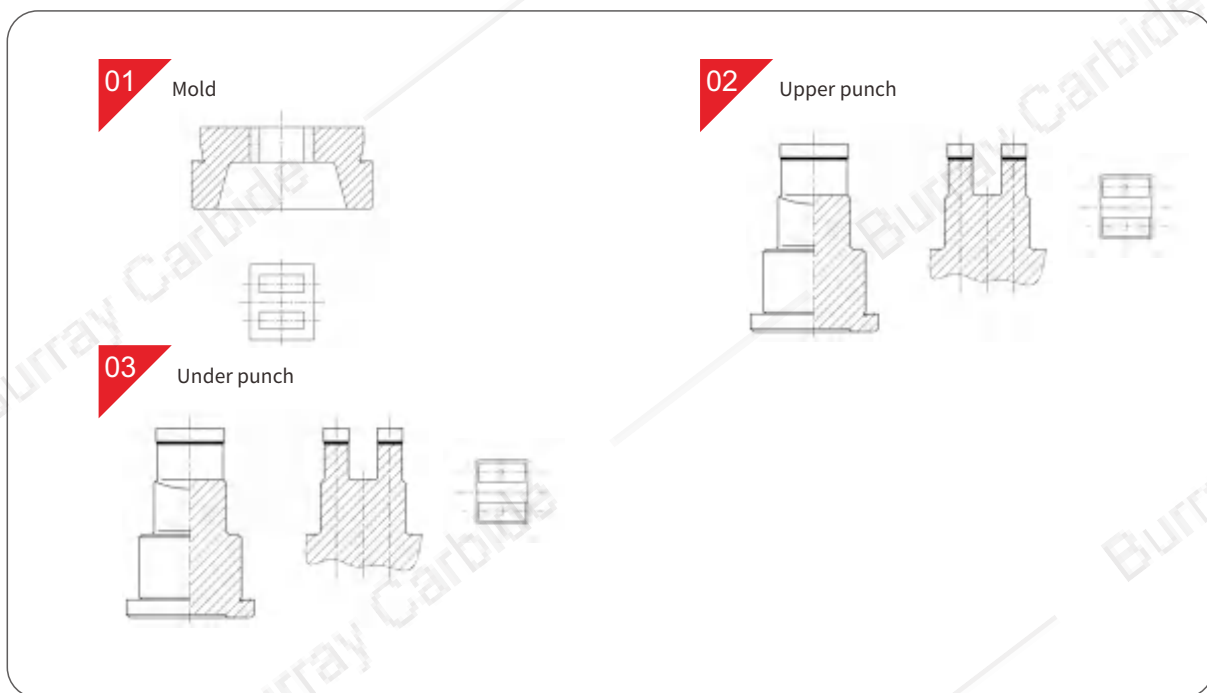
► Ball Dies-4



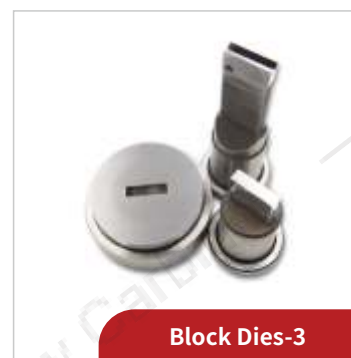
Detail Drawing Display



POWDER METALLURGY BLOCK DIES



Block Dies-2



Block Dies-3



Block Dies-4



Block Dies-5

EXAMPLES

Block Dies-1



POWDER METALLURGY OTHER DIES



Steel Circular Dies-1



XMTN



NL-SP-W12



36X11.5X17



Other Dies-11



Other Dies-12



KY-1,21-4



JJ-021-R3-06



LS-φ18xφ6.2x12



102960323



Other Dies-1



Other Dies-2



14.9X7.54



Sd30



JM-SB38-2



Nr091914



Other Dies-3



Other Dies-4



Other Dies-5



Other Dies-6



D3.4xd2.3x38.9



RNGF55-B



13 Punches Dies



Other Dies-7



Other Dies-8

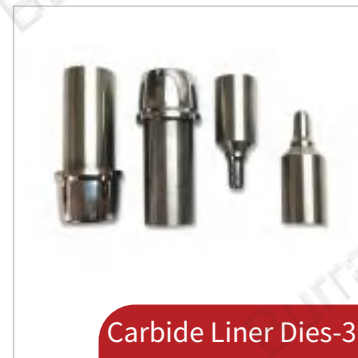
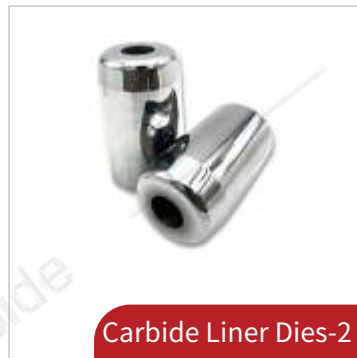


Other Dies-9

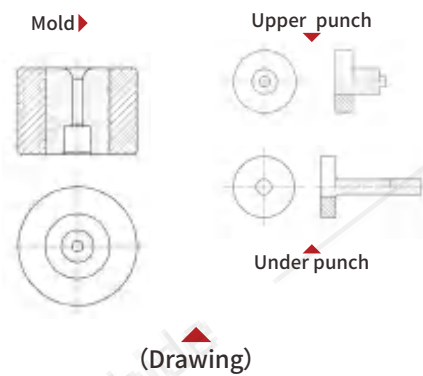


Other Dies-10

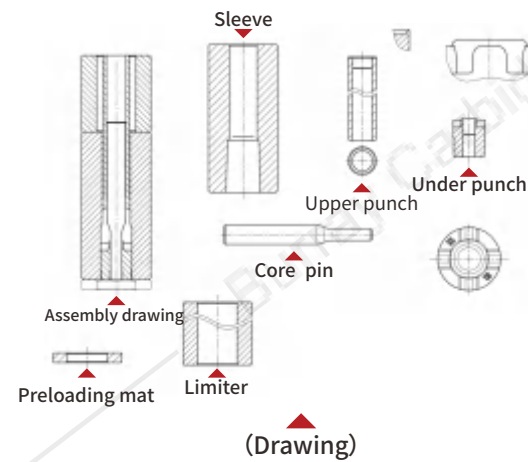
CARBIDE LINER DIES



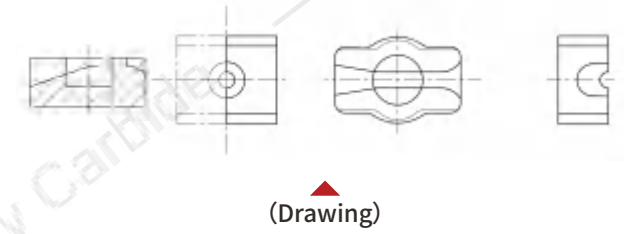
CARBIDE PUNCHING DIES



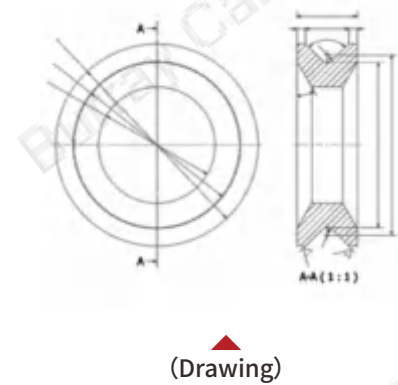
CARBIDE NOZZLE DIES



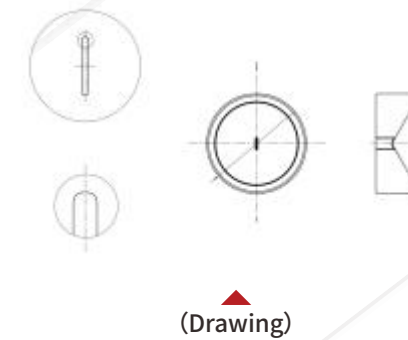
WIRE TOOLS



Tungsten Carbide Descaling Roller & Straightening Roller



Carbide Wire Drawing Dies



► Tungsten Carbide Wire Guide Dies



► Nail Tools



► PCD Wire Drawing Dies



► Nail Making Thread Rolling Dies



► Tungsten Carbide Wire Guide Dies & Roller



► Tungsten Carbide Mill Roll

OD $\varnothing$ 145-450mm
 ID $\varnothing$ 87-280mm
 H 62-150mm



► CARBIDE SPECIAL SHAPES CUSTOMIZED ◀

► Tungsten Carbide Wire Rolls

Ø 123	x	Ø 82	x	15 / 20mm
Ø 125	x	Ø 82	x	15 / 20mm
Ø 140	x	Ø 90	x	15 / 20mm
Ø 150	x	Ø 90	x	15 / 20mm
Ø 190	x	Ø 90	x	15 / 20mm
Ø 220	x	Ø 130	x	15 / 20mm



► Roller Holder, Cooling Pin & Disassembling Unit

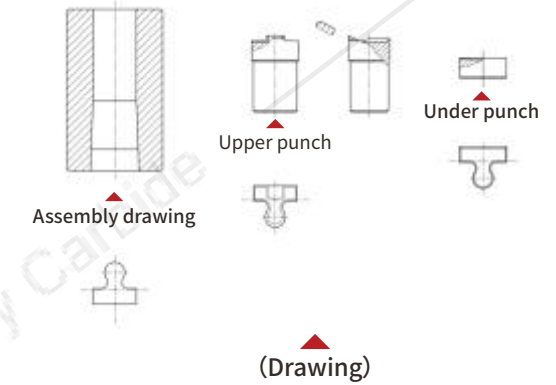
Ø82	x	25	x	15 / 20 / 25
Ø82	x	26	x	15 / 20 / 25
Ø82	x	30	x	15 / 20 / 25
Ø90	x	30	x	15 / 20 / 25

Ø25mm	Ø26mm	30mm
Ø125mm	Ø150mm	

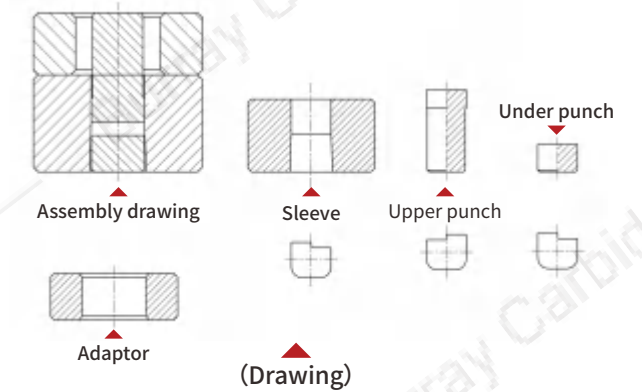


CARBIDE SPECIAL SHAPES CUSTOMIZED

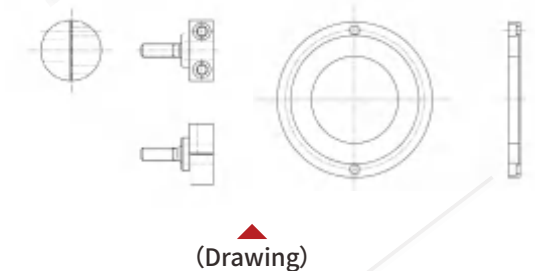
► Non-standard Dies-1



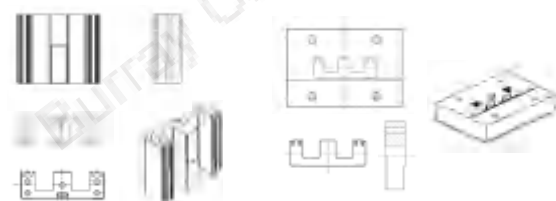
► Non-standard Dies-2



► Non-standard Dies-3

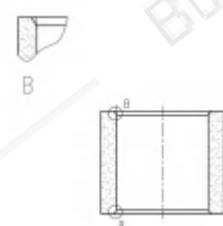


► Non-standard Dies-4



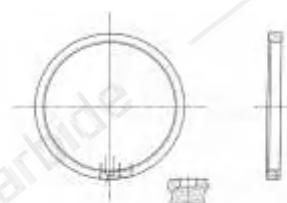
(Drawing)

► Carbide Bushes & Sleeves



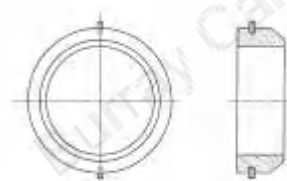
(Drawing)

► Tungsten Carbide Rings



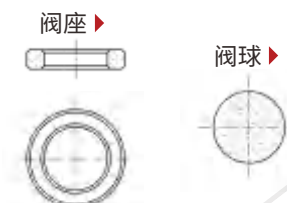
(Drawing)

► Silicon Carbide Rings



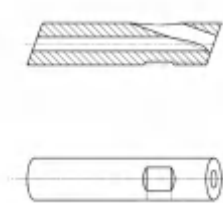
(Drawing)

► Carbide Seats & Balls



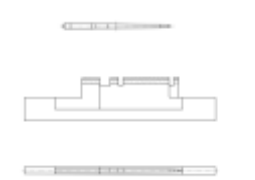
(Drawing)

► Precision Machining



(Drawing)

► Carbide Support Plates



(Drawing)

► MACHINING EQUIPMENT ◀



Precision EDM



Computerized Numerical Control



Surface Grinder



Jig Grinding Machine



CNC Lathe



Low Speed Wire Cut



Cylindrical Grinder



Internal Grinding Machine