

ND/SSCD/PCD Drawing Dies

Multi-Wire Die Sets

Diamond Coated Dies

Bunching/Stranding Dies

Shaped Dies

Extrusion Tools



**YONGYI**  
Wire Dies Co., Ltd.



东莞市永毅模具有限公司  
**YONGYI WIRE DIES CO., LTD.**

# ABOUT US

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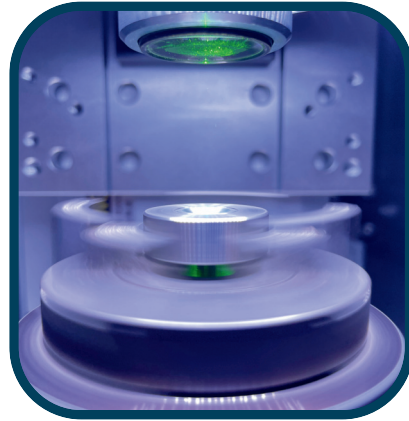
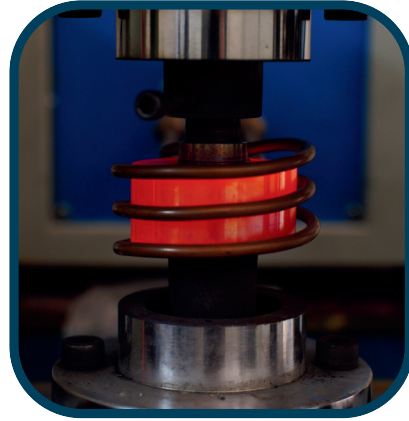
With over 20 years of experience in wire die making, Yongyi Wire Dies Co., Ltd. has established a reputation for providing some of the most reliable, precise, and durable products in the market.

From the initial design phase to the final product, we pay meticulous attention to detail to guarantee superior performance and longevity. We believe in building long-lasting partnerships with our customers based on trust, reliability, and exceptional service.

At Yongyi Wire Dies Co., Ltd., we are not just selling products; we are providing solutions that empower our customers to succeed in their endeavors. Whether you are in the automotive, aerospace, telecommunications, or any other industry that relies on wire drawing processes, you can trust us to deliver wire dies that meet your exact specifications and exceed your expectations.



# OUR STRENGTH



**Precision:** Our comprehensive system including laser measurement and 3D measurement is in place to oversee the quality of wire drawing dies, guaranteeing that each die adheres to our stringent and long-lasting standards.

**Perfection:** Our quality control process begins with a meticulous inspection of raw materials, followed by the expert craftsmanship of the dies by our skilled artisans.

**Consistency:** The dies undergo rigorous testing to ensure exceptional performance and durability. By implementing this meticulous system, we consistently deliver wire drawing dies that excel across various industrial applications.

# COMPANY PRODUCTS

## Nature Diamond Dies

Wire drawing is the process of reducing wire diameter using a tool called a "die" available in various sizes. Diamond dies, utilizing natural diamond as an abrasive, provide unparalleled precision and durability. These natural diamond dies have an extended lifespan and can withstand high drawing speeds without frequent breakage. Moreover, the orifices in diamond dies are exceptionally smooth, making them perfect for drawing a range of non-ferrous and ferrous metals, especially wires needing a superior surface finish.



### Product Features:

- Durable lifespan
- Reduced surface friction
- Smooth and shiny wire surface

### Examples of Applications:

- Copper wire
- Steel wire
- Stainless steel wire
- Gold/silver/platinum wire
- Alloy wire, and more

ND dies specification				unit:mm
Item	ΦD min. *	T	Recommended hole size	Max. recut size
1#	0.60	0.50-0.60	0.0100-0.050	0.200
1#	0.70	0.61-0.70	0.0301-0.150	0.300
2#	0.80	0.71-0.80	0.0301-0.200	0.400
3#	0.90	0.81-1.00	0.201-0.300	0.500
4#	1.00	1.00-1.20	0.301-0.400	0.600
5#	1.10	1.21-1.30	0.401-0.500	0.800
6#	1.30	1.31-1.50	0.501-0.600	1.000
8#	1.60	1.51-1.70	0.601-0.800	1.200
10#	1.90	1.71-1.90	0.801-1.000	1.400
12#	2.20	1.91-2.10	1.001-1.200	1.600
14#	2.60	2.11-2.30	1.201-1.400	1.700
16#	3.00	2.31-2.50	1.401-1.600	1.800

# COMPANY PRODUCTS

## Synthetic Single Crystal Diamond Dies

SSCD, a synthetic diamond created under controlled conditions, boasts high purity, free from impurities and cracks. These quality features contribute to the stability and predictability of the service life of wire drawing dies.



### Product Features:

- Consistent geometric dimensions
- Long life
- Lower surface friction
- All 111 oriented

### Examples of Applications:

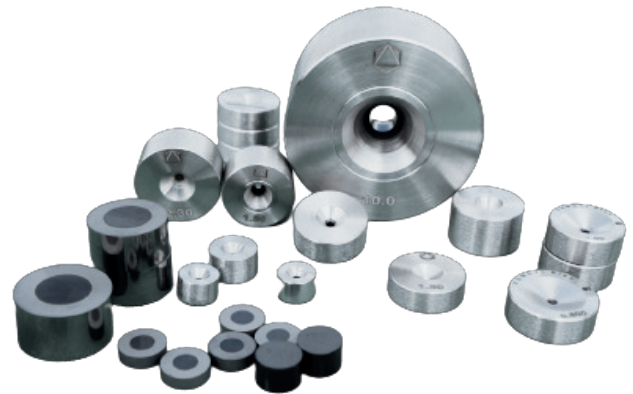
- Copper wire
- Steel wire
- Stainless steel wire
- Gold/silver/platinum wire
- Alloy wire, and more

SSCD dies specification			unit:mm	
Item	ØD min. *	T	Recommended hole size	Max. recut size
MD111/05	0.6	0.46-0.55	0.010-0.050	0.15
MD111/06	0.7	0.56-0.65	0.0301-0.100	0.2
MD111/07	0.8	0.66-0.75	0.0501-0.200	0.3
MD111/08	0.9	0.76-0.85	0.101-0.250	0.4
MD111/09	1	0.86-0.95	0.101-0.300	0.5
MD111/10	1.1	0.96-1.05	0.101-0.400	0.6
MD111/11	1.2	1.06-1.15	0.201-0.500	0.7
MD111/12	1.3	1.16-1.25	0.301-0.600	0.8
MD111/13	1.4	1.26-1.35	0.301-0.700	0.9
MD111/14	1.45	1.36-1.45	0.401-0.800	1
MD111/15	1.5	1.46-1.55	0.401-0.900	1.1
MD111/16	1.6	1.56-1.65	0.501-1.000	1.2
MD111/17	1.7	1.66-1.75	0.601-1.100	1.3
MD111/18	1.8	1.76-1.85	0.701-1.200	1.4
MD111/19	1.9	1.86-1.95	0.801-1.300	1.5
MD111/20	2	1.96-2.05	0.901-1.400	1.6

# COMPANY PRODUCTS

## Polycrystalline Diamond Dies

Polycrystalline Diamonds (PCD) are commonly created by sintering diamond crystals at high temperature and pressure. PCD demonstrates exceptional fracture toughness and thermal stability. Additionally, PCD can be readily shaped into dies with a broader diameter range, extended lifespan, and significant economic advantages.



### Product Features:

- Long-lasting durability
- Offered in a variety of grain and blank sizes
- Resistant to fractures and breakage

### Examples of Applications:

- Aluminum wire
- Copper wire
- Stainless steel wire
- Tire cord
- Welding wire

PCD dies specification				unit:mm
Item	Blank type*	Dimension*	Recommended hole size	Max. recut size
D6	Self-supported blank	3*1	0.10-0.29	0.500
D12		3*1.5	0.30-0.49	1.000
D15		5*2.5	0.50-0.79	1.500
D18		5*3.5	0.80-1.49	2.000
D21		8*4	1.50-2.49	3.000
D24		9.8*5.3	2.50-2.99	4.000
D27		12*8.5	3.00-3.99	5.000
D30		16*12	4.00-5.99	7.000
D12	Tungsten carbide supported blank	4*1.5	0.30-0.79	1.000
D15		4*2.3	0.80-1.49	1.800
D18		4*2.9	1.50-1.99	2.300
D21		7*4	2.00-2.99	3.500
D24		7*5.3	3.00-3.99	4.600
D27		13*8.6	4.00-4.99	5.800
D30		13*11.6	5.00-5.99	7.600
D31		15*12	6.00-6.99	8.000
D33	18*15.5	7.00-7.99	12.00	
D36	18*18.5	8.00-9.99	12.50	

# COMPANY PRODUCTS

## Multi-Wire Die Sets

High-speed multi-wire drawing machines require higher-precision dies. The precision multi-wire die sets from Yongyi help reduce wire breaks, lower pulley wear, and increase drawing speed by matching mechanical elongation. With well-designed die openings and smooth polishing, friction is greatly reduced, output per change increases, die replacement frequency drops, scrap decreases, and product quality rises—bringing more profit to wire and cable manufacturers.



## Extrusion Tools



Yongyi's extrusion tools are crafted to deliver exceptional durability and performance, ensuring consistent product quality and efficiency. Our tools are engineered to withstand high pressure and temperatures, providing reliable operation under demanding conditions. With a focus on innovation and quality, Yongyi's extrusion tools support manufacturers in achieving optimal production results and maintaining a competitive edge in the market.

## Diamond Coated Dies



Yongyi's Diamond coated dies (Nano Die) offer an advanced solution for enhancing the longevity and performance. The application of a nano coating creates a hard, wear-resistant surface that significantly reduces abrasion and friction during the wire drawing process. This innovative technology not only extends the lifespan of the dies but also improves the overall efficiency of the manufacturing process, leading to fewer interruptions and maintenance needs.



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[www.yongyidies.com](http://www.yongyidies.com)