



YONGYI
Wire Dies Co., Ltd.



东莞市永毅模具有限公司

**DIAMOND WIRE
DIES**



ABOUT US

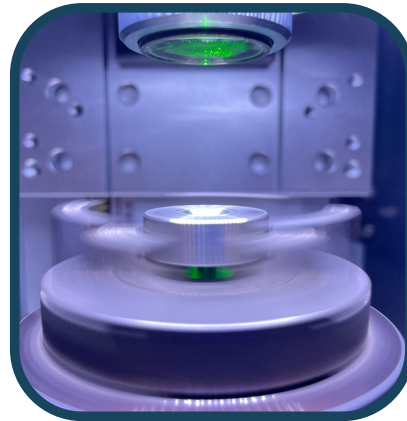
With over 20 years of experience in wire die making, Yongyi Wire Dies Co., Ltd. has established a reputation for providing some of the most reliable, precise, and durable products in the market.

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

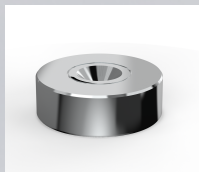


Precision: Our comprehensive system including laser measurement and 3D measurement is in place to oversee the quality of wire drawing dies, guaranteeing that each die adheres to our stringent and long-lasting standards.

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.

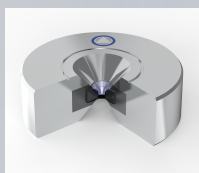
COMPANY SERVICE



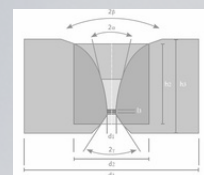
Wire Die Solution



Recutting



Semi-Products



Die Designing

20+ YEARS EXPERIENCE

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:

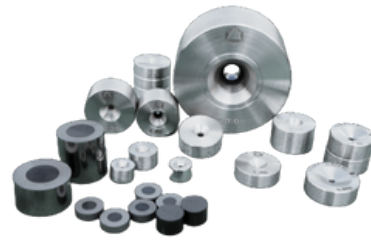
- Copper wire
- Steel wire
- Stainless steel wire
- Gold/silver/platinum wire
- Alloy wire, and more

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

PCD 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
- Saw 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	



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