

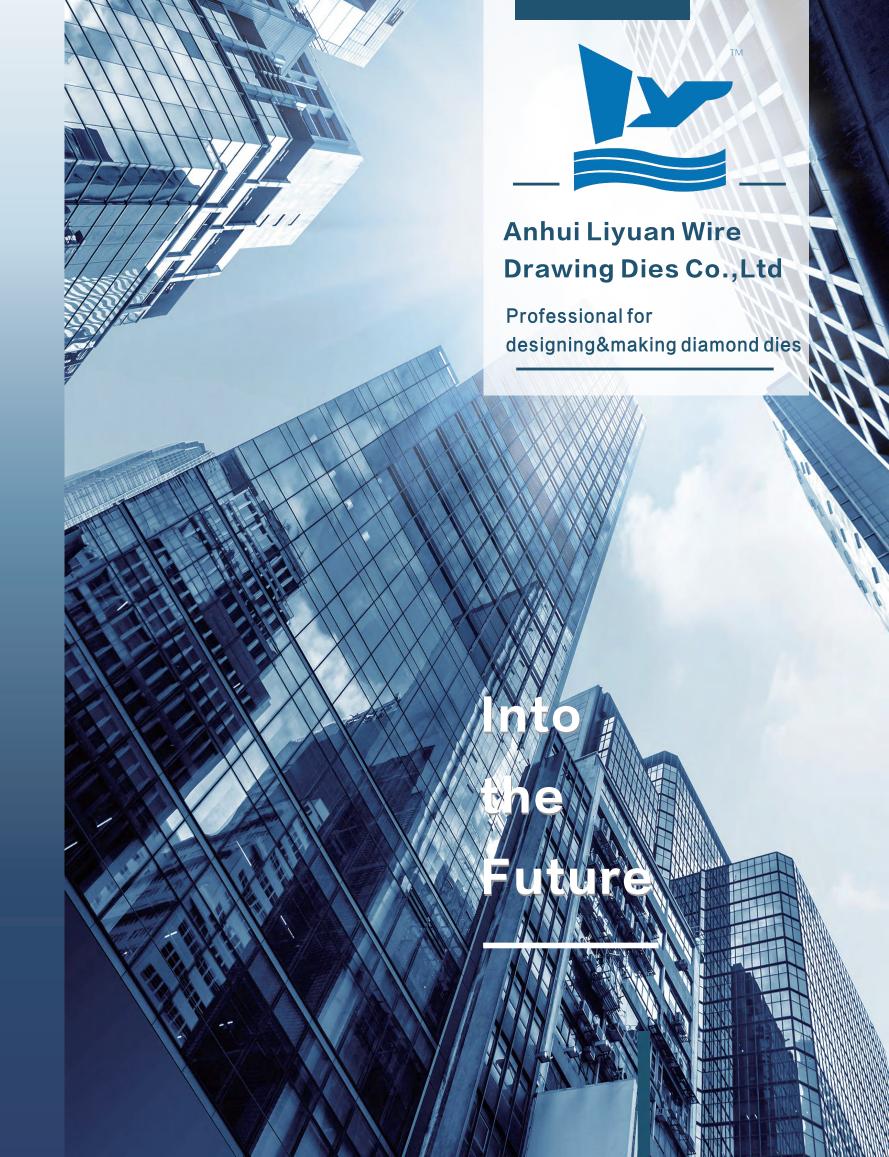
Anhui Liyuan Wire Drawing Dies Co.,Ltd

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Anhui Liyuan Wire Drawing Dies Co., Ltd





COMPANY INTRODUCTION

Anhui Liyuan Wire Drawing Dies Co.,Ltd specializes in manufacturing Synthetic Polycrystalline Diamond Die, Natural Diamond Die, Imported polycrystalline Die, Tin-plated Die, Film-coating Die, Extrusion Die and Special-shaped Die. Besides, we also have the following derivatives: electric wire and cable, electrical alloy, electromagnetic wire, steel cord, King Kong wire, bonding wire, tungsten wire, molybdenum wire, stainless steel wire and so on.

Our company has successively introduced the advanced production and inspection equipment from Norway "CONOPTLCA" and German "SCOB" company. Therefore, with such large technical capacity, sophisticated production equipment, perfect craftsmanship, rigorous quality control and modern management approaches, we can offer extremely high quality products to our customers. And our product quality is at the leading level at home and abroad.

Our company has accumulated rich production experience in long—term production practice, and our production is strictly in accordance with ISO9002 international quality standard. We have advanced production equipment, strong technical force and stable product quality. In the fierce market competition, we will continue to increase investments in science and technology to improve product quality and the service system. Our business philosophy is to dedicate first—class products and services to our customers, Sincerely thank the old and new users for your love for Liyuan, and we hope to cooperate with you sincerely.

Workshop equipment

Work in process

- 1. Our company has a full set of production equipment and testing machines, can pull specifications of 0.01mm 6.0mm of a variety of metal materials
- 2. Develop new metal materials and new drawing process according to different requirements of customers
- 3. Improve production efficiency and reduce cost



Die blank precision machining



Program controlled hot press sintering machine



Laser precision drilling

Finished operation

We have rich experience in mold production and quality control system, and have been widely used in copper wire alloy copper wire aluminum clad copper, bonded gold wire single crystal copper copper carbon wire and various coating wires









Quality Control

- Quality Certificate
- 2 QC Equipment

1

Quality Certificate





2

QC Equipment

Quality always comes first, we have established strict quality controls ystem, and cooperated with colleges and universities to inspect raw material, semifinished and finished dies by using advanced detection equipment.









Raw Material

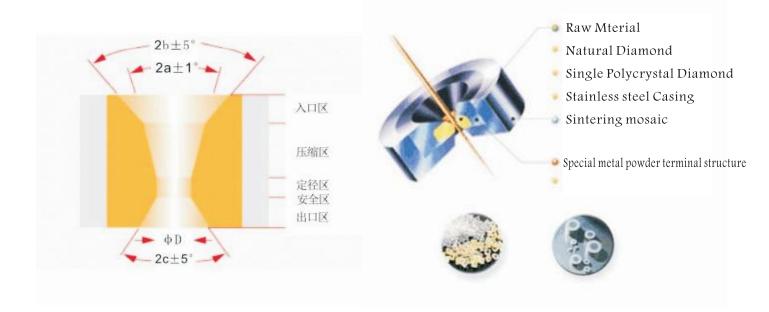






Hole Design

Material	Soft wire			Hard wire			
Name	Gold, silver	Aluminum, lead	Copper	Copper clad steel	Stainless steel	High carbon steel	
Entrance	80°	80°	80°	80°	80°	80°	
Lubricat ion	35°	35°	35°	35°	35°	35°	
Reductio n cone	20 ± 2°	18 ± 2°	16±2°	14±2°	12±2°	10±2°	
Bearing	0. 1-0. 3D	0. 2-0. 4D	0.3-0.5D	0.4-0.6D	0.4-0.7D	0.5-0.8D	
Back relief	25 ± 5°	25 ± 5°	25 ± 5°	25 ± 5°	25 ± 5°	25 ± 5°	
Exit	60°	60°	60°	60°	60°	60°	





Product Contents

- Polycrystal Diamond Dies
 - Single crystal Dies
 - Nano Coating Dies
 - Natural Diamond Dies
 - Shaped drawing dies







Domestic Polycrystal Diamond Dies



Domestic polycrystalline diamond is a kind of diamond aggregate synthesized under high temperature and pressure with diamond powder, using cobalt or silicon as a catalyst. Relatively speaking, diamond made by these two methods has different characters. Domestic cobalt based polycrystalline diamond is closer to the characteristics of imported diamond, as to silicon-based polycrystalline diamond, except for the lower price, it has a wide gap in physical properties and product stability with imported polycrystalline diamond and domestic cobalt-based polycrystalline diamond.

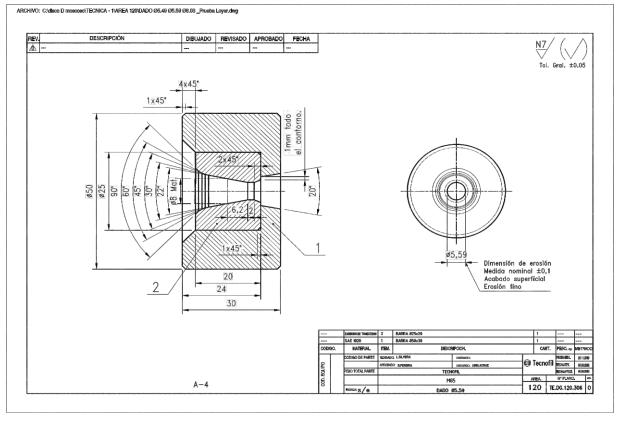


Domestic Polycrystal Diamond Dies



Material selection reference table:

Die aperture diameter and select material							
Size(mm)	ND	SD	PCD	TC	Nano coating		
0.0200-0.0299	\[\]						
0.0300-0.0499	V	☑					
0.0500-0.0799	✓	 ✓					
0.0800-0.1999	4	V	V				
0.2000-0.4999	\		abla	✓	V		
0.5000-1.1999		V	V	V	V		
1.2000-12.000			V	V	V		
Main applicable materials	Gold,Silver,Tin,Copper,Aluminu m.Copper clad aluminum wire,Tin plated copper wire,Silver plated copper wire			um,Tungsten,Mo wire,stainless st wire			



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Single crystal Dies



CD cobalt based polycrystalline diamond drawing dies adopt advanced process of high temperature and ultra high pressure and refined. High bonding between diamond particles makes CD dies have superior quality and good wear resistance. Besides, our dies have accurate bore diameter, high finish and precise size, all these are benefit to deform wire uniformly, minimize the pull and acquire the best surface quality. It is the best choice for wire drawing of metal wire such as electromagnetic wire, stainless steel wire, platinum wire, copper wire and alloy wire.



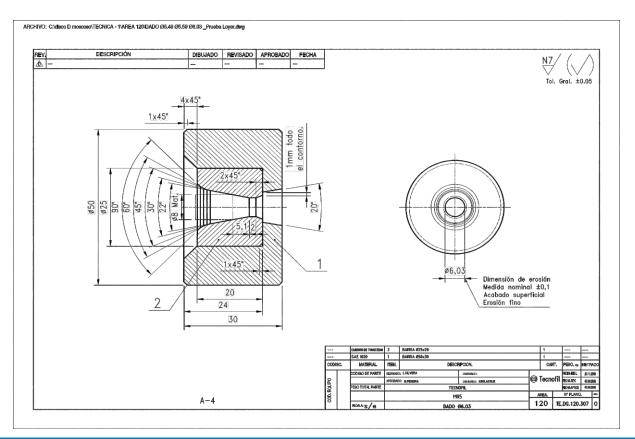
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Single crystal Dies



Material selection reference table:

Die aperture diameter and select material							
Size(mm)	ND	SD	PCD	TC	Nano coating		
0.0200-0.0299	V						
0.0300-0.0499	V	V					
0.0500-0.0799	V	V					
0.0800-0.1999	V	V	V				
0.2000-0.4999	V	V	V	V	V		
0.5000-1.1999		V	V	V	✓		
1.2000-12.000			V	V	✓		
Main applicable materials	Gold,Silver,Tin,Copper,Aluminu m.Copper clad aluminum wire,Tin plated copper wire,Silver plated copper wire		Copper,Alumin	um,Tungsten,Mo wire,stainless st wire	olybdenum,Cutti eel wire, Alloy		



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Nano Coating Dies



Its hardness is up to 90gpa, melting point reaches 3550 degrees, density is 3.51. Nano dies have the advantages of high strength and good toughess of hard alloy and super wear resistance of natural diamond dies, at the same time, nano dies overcome the limitation of producing small aperture of natural diamond dies.

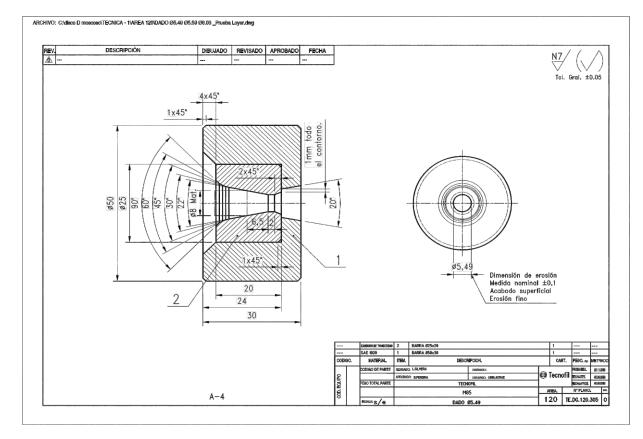


Nano Coating Dies



Material selection reference table:

Die aperture diameter and select material							
Size(mm)	ND	SD	PCD	TC	Nano coating		
0.0200-0.0299	V						
0.0300-0.0499	V	V					
0.0500-0.0799	V	V					
0.0800-0.1999	V	✓	V				
0.2000-0.4999	V	V	V	V	V		
0.5000-1.1999		V	~	V	V		
1.2000-12.000			V	V	V		
Main applicable materials	Gold,Silver,Tin,Copper,Aluminu m.Copper clad aluminum wire,Tin plated copper wire,Silver plated copper wire		Copper,Alumin	um,Tungsten,Mo wire,stainless st wire	olybdenum,Cutti eel wire, Alloy		



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Natural Diamond Dies



Our Company produce natural diamond wire drawing mould, which is made of excellent and high-quality natural diamond material and has the advantages of strong abrasion resistance, high finish and long service life. It is an indispensable tool for wire and cable manufacturers. Synthetic diamond wire drawing die, choose high strength artificial polycrystalline diamond core material, has the high thermal conductivity of hardness, good resistance that is not easy to break, long service life, and high economic benefit, is suitable for the control of various kinds of metal wire.

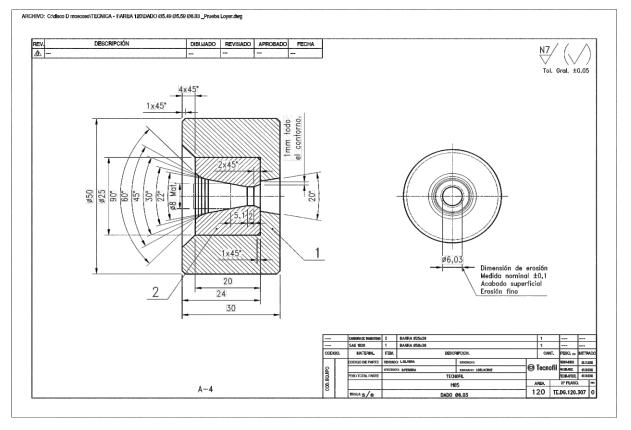


Natural Diamond Dies



Material selection reference table:

Die aperture diameter and select material							
Size(mm)	ND	SD	PCD	TC	Nano coating		
0.0200-0.0299	V						
0.0300-0.0499	V	☑					
0.0500-0.0799	V	☑					
0.0800-0.1999	V	☑	V				
0.2000-0.4999	V	☑	\	√	V		
0.5000-1.1999		V	V	√	V		
1.2000-12.000			V	√	V		
Main applicable materials	Gold,Silver,Tin,Copper,Aluminu m.Copper clad aluminum wire,Tin plated copper wire,Silver plated copper wire		Copper,Alumin	um,Tungsten,Mo wire,stainless st wire			



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Shaped drawing dies



The special shaped dies we produce include retangular, oval, semicircle, triangle, hexagon and so on. We aslo can produce other shapes according to customers' demand and need. Besides, we have professional engineers who can provide customers withe a whole set design of dies to meet customers' needs of special shaped wire.

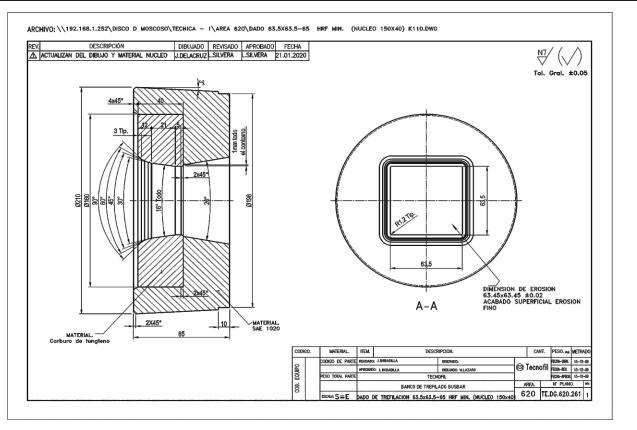


Shaped drawing dies



Material selection reference table:

Die aperture diameter and select material						
Size(mm)	ND	SD	PCD	TC	Nano coating	
0.0200-0.0299	✓					
0.0300-0.0499	V	V				
0.0500-0.0799	V	√				
0.0800-0.1999	V	V	V			
0.2000-0.4999	V	V	V	 ✓	V	
0.5000-1.1999		V	V	V	✓	
1.2000-12.000			V	V	V	
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Spiral dies



Tungsten steel spiral die is made of Taiwan Chunbao, Zhuzhou Diamo nd, Zigong Great Wall hard alloy materials, It has the follwing advantages: good toughness, strong wear resistance, high smoothness, high precision, long service life, etc. It is mainly used for drawing square spiral nails, sixflower spiral nails, PC steel rods, etc.



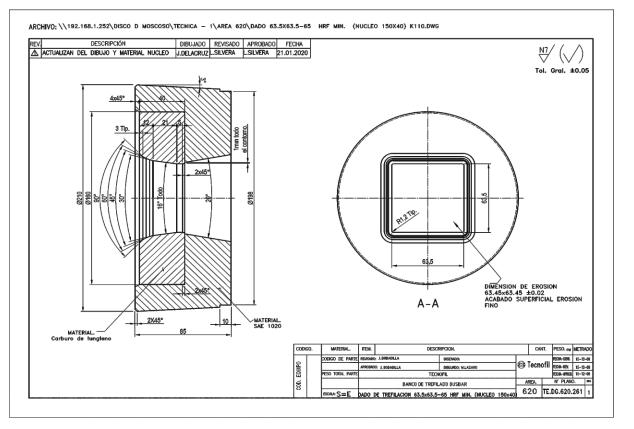


Spiral dies



Material selection reference table:

Die aperture diameter and select material							
Size(mm)	ND	SD	PCD	TC	Nano coating		
0.0200-0.0299	V						
0.0300-0.0499	V	V					
0.0500-0.0799	V	V					
0.0800-0.1999	V	V	V				
0.2000-0.4999	V	V	V	 ✓	V		
0.5000-1.1999		✓	V	 ✓	V		
1.2000-12.000			abla	V	abla		
Main applicable materials	Gold,Silver,Tin,Copper,Aluminu m.Copper clad aluminum wire,Tin plated copper wire,Silver plated copper wire		Copper,Alumin	um,Tungsten,Mo wire,stainless st wire	olybdenum,Cutti eel wire, Alloy		



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