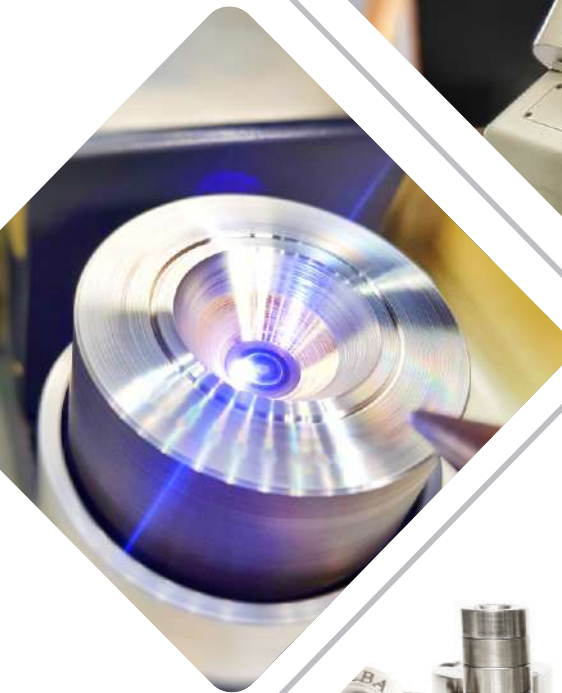




# DEEBA DIES & TOOLS

QUALITY | PRECISION | PERFORMANCE

MANUFACTURER OF ALL TYPES  
OF WIRE DRAWING DIES



“High Quality at  
Lower Costs”

An ISO 9001:2015  
Certified Company

With over  
**65 years**  
of experience



## History of An **INNOVATIVE CORPORATION**

Deeba Dies and tools is an experienced wire drawing dies manufacturing company, from more than 6 decades it has been innovatively serving a highly qualitative range of Natural Diamond Dies, Synthetic Single Crystal Diamond Dies, Polycrystalline Diamond Dies etc.

Originally Deeba Dies and Tools started as HMS in 1956 and served as leading wire drawing Dies Manufacturing Company of that time. But after a few years, the company lost its existence of die-manufacturing in other businesses and diversified. Mr. Mohammad Ayub left HMS and started his own company named as Deeba Dies in 1998.

In 2003, the company registered by the name of Deeba Dies and Tools. Within few years Deeba Dies and Tools consolidated its position in the market and pioneered the Wire Drawing Dies Industry. Till date, Deeba dies and tools has served its excellent product to the market.



### **Our Mission**

“We are dedicated to delivering a high-quality product at the affordable prices with strict precision control to ensure best quality & customer satisfaction”



### **Our Vision**

“We believe in high quality at lower costs”



- We are pioneered die manufacturing company with experience of over 65 Years
- Accommodated with highly experienced and skilled professionals.
- Always work on progressively increasing technology and manufacturing.
- We are dedicated to serving customers high-quality products.
- The best approach for after-sales service.
- Devoted to delivering complete Customer Satisfaction.
- Deliberately growing to the International Market.

# OUR PRODUCTS



## 1. Natural Diamond (ND) Dies:

Natural Diamond Dies are made up of finest quality industrial grade single crystal diamond stones that are mined from the earth. Moreover these types of dies possess very long life than conventional dies.

Deeba Dies and Tools provides diamond dies at industry leading prices all over the world.

**Usage & Application:** These dies are used for producing very fine and medium size wires with super smooth wire surface and minimum friction.



## 2. Synthetic Single Crystal Diamond (SSCD) Dies:

Synthetic Single Crystal Diamond (SSCD) Dies are made up of manmade diamonds that work as a good alternative for natural diamonds, these diamonds are produced by high pressure and high-temperature synthesis. These types of diamonds are cheaper than the natural one.

**Usage & Application:** It is specially designed for industrial use to draw fine & medium size wires with good surface finish.

## 3. Polycrystalline Diamond (PCD) Dies :

Polycrystalline Diamond Dies are manufactured from a highly durable synthetic material with a highly polished surface with higher resistance to wear, cracking and breaking. Our PCD dies are made using the latest laser technology that helps us to maintain appropriate die profile so as to get the maximum production.

PCD dies can be re-cut to the next size, to get the maximum out of your investment in dies and helps in reducing the cost of production for wire manufacturers.

**Usage & Application:** PCD dies can be used for both ferrous and non-ferrous metals. It gives high quality of wire surface finish with accurate size, roundness & good amount of production.





## 4. Nano Dies:



Deeba Dies & Tools offer a new advancement that have arrived in wire drawing industry in which a layer of nanocrystalline diamond particles are coated on a carbide base which provide higher strength to the dies. Due to the nanocrystalline diamond coating these dies possesses a longer lifespan and more wear resistance. These dies can be made for very big sizes also up to which PCD is not available but these dies cannot be resized for further use.

**Usage & Application:** These dies are best for drawing ferrous metals like iron, steel & other hard metals. These dies are also suitable for compacting large number of wires with bigger diameter for cables & conductors.

## 5. Compacting Dies:

Compacting dies are used to bind the bunch of wires together. These are also known as stranding dies, bunching dies or cabling dies. Our compacting dies are made with the appropriate profile particularly for the compacting purpose which results in a smooth compaction process & a big relief for the cable & conductor manufacturers. Compacting dies can be made up of PCD, NANO & TC depending upon your need & due to there wear resistance property the lifespan of the dies would be different for all three.



### Usage & Application:

It is used to manufacture cables in which a large number of wires are combined & compressed together with a minimum gap in between so as to ensure the superior quality flow of the electric current. These dies are also used for wire ropes.

## 6. Tinning Dies:

Tinning dies also known as floating dies are used to coat a certain liquid metal upon a specific metal wire. These dies are made up of a very light weight & strong metal that does not allow the die to sink in the liquid metal solution. Moreover our tinning dies give the uniform amount of coating across the wire. Tinning dies are the dies designed to fullfill the varying needs of our prestigious clients. These are the quality tested dies produced from industry recommended raw material and modern machinery to get the best quality of dies.

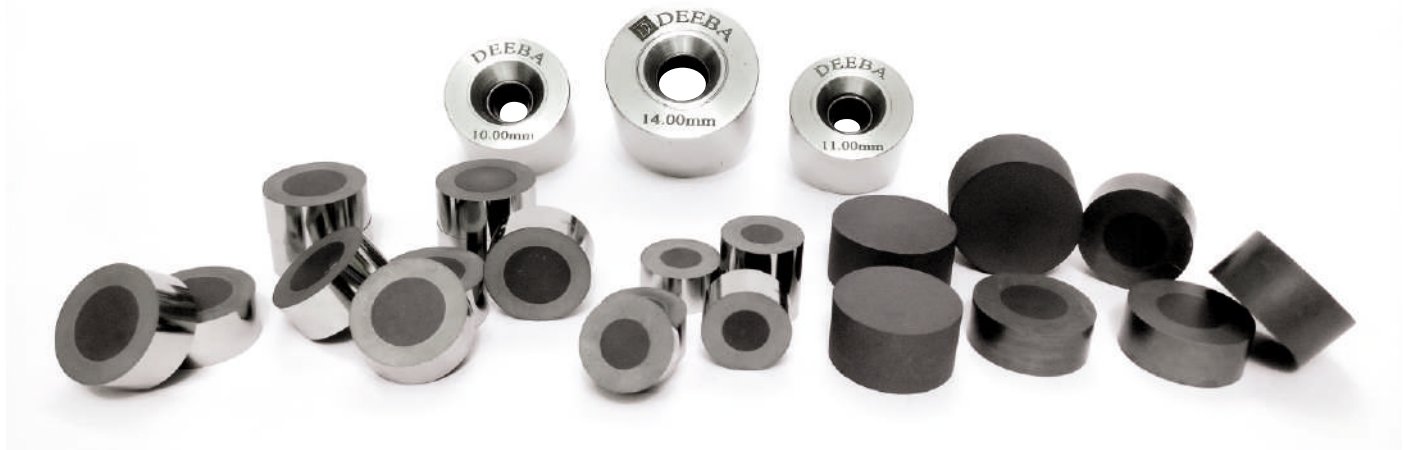
**Usage and Application:** Where coating of a liquid metal upon a wire is needed this die is the option, like coating tin on a copper wire is done with these dies.



## 7. Tube Dies:

The function of the tube dies is same as its name. These dies are used for manufacturing tubes of different metals like aluminium, copper, steel and other metals with a good surface finish & precise dimensions. Tube dies are made from Polycrystalline diamonds, therefore, these dies possess higher wear resistance.

**Usage and Application:** These dies are used for drawing Tubes & Pipes with preciseness and excellent surface finish.



## 8. Tungsten Carbide Dies:

Tungsten Carbide dies are made from a chemical compound containing tungsten and Carbon. These types of dies are provided at the places where cost reduction has more priority over tolerance and surface finish of the wire. Tungsten carbide dies are used for drawing wire from tough materials like carbon steel, or stainless steel. These dies are less expensive and wear out quickly with a shorter lifespan.

**Usage:** TC dies are mostly used to draw MS wire, steel wire & other hard wires with less surface finish. We manufacture tungsten carbide dies in different sizes and shapes like triangular, square, round, trapezium, hexagonal, octagonal, semicircle, stripped or as per the requirement of patrons.



## 9. Shape Dies:

Shape Dies are used to draw a shape wire to reduce its size or to change the shape of wire. The most common shapes are Square, Rectangle, Triangle, Hexagon, Half round, Trapezoidal, Groove dies for contact wire etc. Deeba Dies & tools makes specially customized & best quality shape dies to meet requirement of the clients. Shape dies can be made in PCD & TC according to your need.

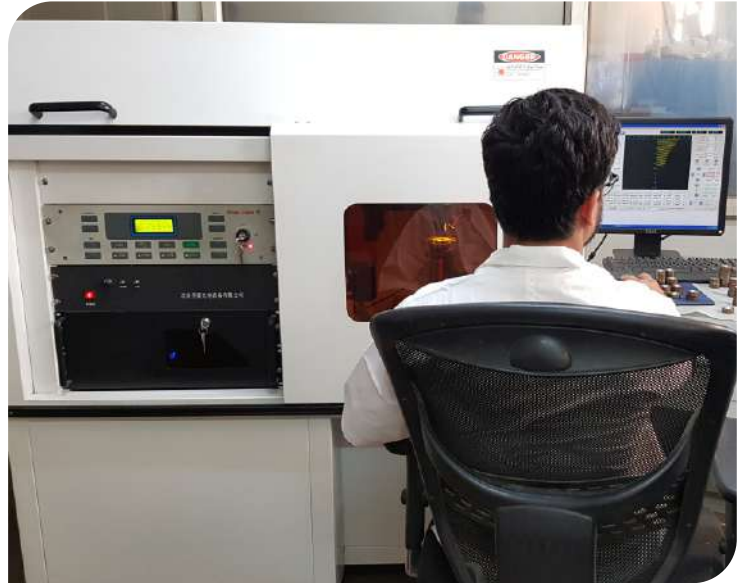




## MACHINES WE USE:

### Laser Drilling and Profiling Machine:

Deeba dies & tools uses the latest laser technology for drilling & profiling all our Diamond & PCD wire drawing dies. Laser drilling & profiling machine helps us to achieve desired bore size with appropriate angles & bearing length. It also helps us to speed up the production process with precision & quality.



### Ultrasonic Dies Polishing Machine:

Deeba Dies and Tools uses Ultrasonic machines for cutting and polishing of dies and to give them finishing touch. Our specially designed ultrasonic machines provide firm and continuous power used for casting dies from raw materials and are user-friendly too.

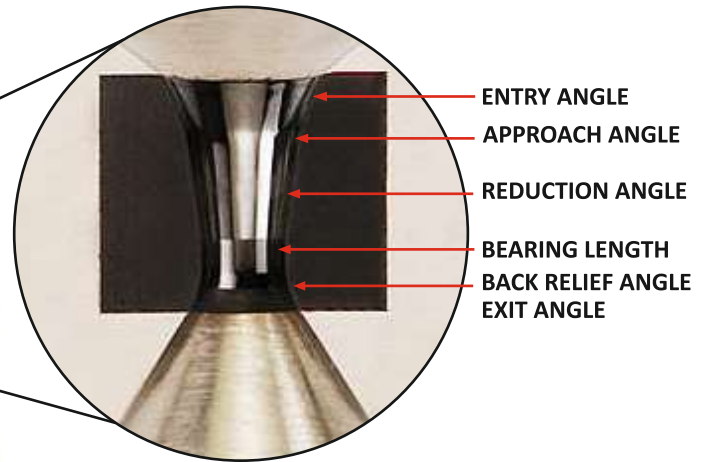
These are the machines used for designing and polishing of conical portions of natural, SSCD, and polycrystalline diamond dies. The working of these ultrasonic machines is appreciated by our clients for their preciseness and consistent performance.

### Wire Polishing Machine:

Deeba Dies and Tools uses wire polishing machines for sizing and polishing the bearing part of ND, SSCD and polycrystalline diamond dies. These machines are precisely engineered to produce dies at high speed and wire tension adjustment, spindle angle adjustment & various other adjustment makes our wire polishing machines user friendly & works with precision that speeds up the production process.



# Technical Specification:



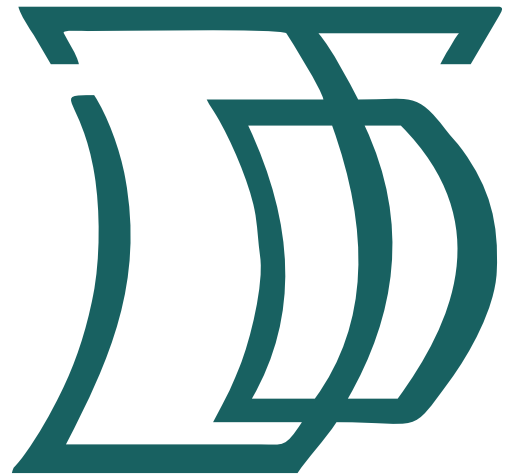
	Soft Wire	Hard Wire
Entry Angle	70° +/- 20°	60° +/- 20°
Approach Angle	35° +/- 5°	30° +/- 5°
Reduction Angle	16° - 20°	12° - 16°
Bearing Length	20% - 40%	40% - 60%
Back Relief Angle	10° +/- 5°	10° +/- 5°
Exit Angle	70° +/- 20°	60° +/- 20°

## Wire Elongation Set:





# DEEBA DIES AND TOOLS



QUALITY | PRECISION | PERFORMANCE

### Registered Office

**Deeba Dies & Tools**  
104, 1st Floor, Lane No. 4,  
Johri Farm , Jamia Nagar,  
Okhla, New Delhi - 110 025,  
INDIA

### Workshop Unit 1

**Deeba Dies & Tools**  
1/422, Lane No. 6, Friends  
Colony Industrial Area,  
Shahadra Delhi - 110 095,  
INDIA

### Workshop Unit 2

**Deeba Dies & Tools**  
C-38, Phase-1 Okhla Industrial  
Area, New Delhi - 110 020,  
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