



**BULUNMAZ**





# BULUNMAZ



ISTANBUL, 1930

M. Cemalettin  
Bulunmaz

Hüseyin Hilmi  
Efendi

SAN FRANCISCO, 2014



Cemal Bulunmaz

H. Hilmi Bulunmaz

## Bulunmaz in the market

With a passion for precision, we proud to be the industry leader on diamond tools for jewellery. We love to invest on development. We work hard to make our clients happy and make them feel a part of our family.

We keep learning, developing, expanding and rounding the world to bring the newest technologies to your door.

## MILESTONES

Established as a local trading company in Fatih district of Istanbul by *Huseyin Hilmi Efendi* **1916**

Moved to Beykoz district as a metal trading company by *M. Cemalettin Bulunmaz* **1955**

Moved back to Grand Bazaar district and restructured to a jewellery workshop by *Hilmi Bulunmaz* **1977**

Restructured as a diamond tool company and focused on the field **1982**

Started exporting diamond tools **1987**

First appearance in Istanbul Jewellery Show (Taskisla) **1992**

Bought one of the leading diamond tool manufacturing companies and started production in large scale (Leipzig, Germany) **2003**

Started global marketing by Cemal Bulunmaz with first appearance in international exhibitions (Kiev, Ukraine) **2004**

First office abroad (Kostroma, Russia) **2006**

First appearance in major jewellery exhibitions as Vicenza, Basel, Las Vegas, Hong Kong **2010**

Bought a machine manufacturing company and started supplying high precision - low cost CNC machines ( Istanbul, Türkiye ) **2011**

First office in Middle East region (Tebriz, Iran) **2014**

First office in Asia region (Penang, Malaysia) **2015**

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### ► 50.000 rpm electric

Even better than the 60.000 rpm model, you can just go with 50.000 rpm one. It is our best seller model because of its great performance / price values.

It is designed tough and gives the result in any conditions. From hottest to coldest countries, even where the electricity persistence is poor, our best seller 50.000 rpm diamond cutting machine is used successfully.

Just go to our website to watch 50.000 rpm diamond cutting machine in action and see its detailed photos.

### ► 35.000 rpm electric



35.000 rpm machine is the lifeboat of diamond cutter.

If you are not sure about what you want, but still want to try diamond cutting just go with that low cost option.

#### TECHNICAL CHART OF HAND MACHINES

	50.000 rpm.	45.000 rpm.	35.000 rpm.
Max. Speed	50.000 rpm.	45.000 rpm.	35.000 rpm.
Brush	Brushless	Brush	Brush
Sensor	Sensorless	-	-
Volt	110/230V	110/230V	110/230V
WATT	350W	120W	70W
Max Current	3A	3A	2A
Max Torque	7.0 N.cm	4.5 N.cm	2.8 N.cm
Pins	4 Pins	3 Pins	3 Pins
Box Size	26x23.5x18.5	26x23.5x18.5	24.5x24x9
Box Weight	4 kg.	3.8 kg.	2.5 kg.



### ► 45.000 rpm electric

Here is the newcomer to our product line. The new 45.000 rpm machine gives you performance of high speed and low cost of brush type models

## ▶ 80.000 rpm pneumatic point machine



Max. Speed	80.000 rpm.
Working Pressure	6,5 kg/cm <sup>2</sup>
Air Consumption	0,31 CFM
Sound dBA	82 dBA
Vibration	4,2 m/s <sup>2</sup>
Shank	3mm (1/8")

Pneumatic point machine is the new and magic solution to use our newcomer point tools. With that machine, you will have the advantage of angle head and the high speed of 80.000 rpm.

You can basically catch us at any exhibitions or our local offices world-wide and try it now.

All you need to run the 80.000 rpm pneumatic point machine is a middle size air compressor.

Check out our website for the videos of that magic machine in action.



## ▶ 70.000 rpm pneumatic



Here is the old way of diamond cutting by hand. Pneumatic diamond cutting machine is now brought you by the quality of Bulunmaz sign and high working speed of 70.000 rpm.

Max. Speed	70.000 rpm.
Working Pressure	6,5 kg/cm <sup>2</sup>
Air Consumption	0,30 CFM
Sound dBA	83 dBA
Vibration	4,4 m/s <sup>2</sup>
Shank	3mm (1/8")

## ▶ hammering machine pneumatic



Blows/Min.	15.000/min.
Working Pressure	6,5 kg/cm <sup>2</sup>
Air Consumption	0,28 CFM
Sound dBA	79 dBA
Vibration	4,4 m/s <sup>2</sup>
Shank	3mm (1/8")

Another old way of diamond cutting, made by hammering machine. That high quality machine with steel components and high precision manufacture, lets you use it in peace for long years.

Just check our hammering tools in the next pages of your catalog to see the rich variety of the diamond tips.

The strenght is adjustable on hammering machine and you can easily change the connection plug depending on the model of your air compressor.



## ► TOOL SETS



If you don't know where to start, you can just get one of our tool sets with a price advantage and start diamond cutting immediately.

The starter tool set comes with 36 pieces of most popular tools including rich variety of diamond tools, background tools, the legendary rainbow tools and a few of point tools, plus our best seller 50.000 rpm diamond cut machine.

After you advance with the starter tool set, you can just go on specializing on the tools you are interested; diamond, background, point or others...

### ► MINI TOOL



1/140° mini  
1/180° mini  
1/3-line mini

### ► HAND TOOL (Head = 9mm)



1/140°  
1/180°  
2/120°  
2/130°  
2/140°



2/150°  
2/160°  
2/180°  
3/180°



1/CV (convex)  
2/CV (convex)  
2/CC (concave)  
2/4-line  
2/5-facets

### ► HAMMER HEAD



2/140° H=15  
2/180° H=15  
3/150° H=15

### ► EMERY BACKGROUND



Emery Cylinder  
Emery Wheel  
Emery Fan

### ► DIAMOND PLATED BACKGROUND



Conic  
Straight  
Wheel  
Cylinder

### ► CARBIDE BACKGROUND



T1 Background  
T4 Background  
0.50 Background

TOTAL  
**36**  
TOOLS

+ machine

### ► POINT TOOL



Small Point  
Medium Point  
1.5mm CNC Point  
2/3-line

### ► PCD BACKGROUND



2/140° PCD (Long)  
2/4-line PCD

### ► 50.000 RPM Diamond Cutting Machine





### ► Starter's Tool Kit

36 most popular diamond tools + 50.000 rpm diamond cutting machine. Best solution for an easy start. Includes diamond tools, background tools, point and mini tools.

TOTAL  
**36**  
TOOLS  
+ machine

### ► Background Tool Set

Background tools for surface finishing with the set discount



### ► Mini Tool Set

Most popular 8 tools with the minimum cost

TOTAL  
**8**  
TOOLS  
+ machine

TOTAL  
**20**  
TOOLS  
+ machine

## ► HAND TOOL / STANDART



2.35, 3.0, 4.0 mm.  
shank options

7, 9, 10 mm.  
head size

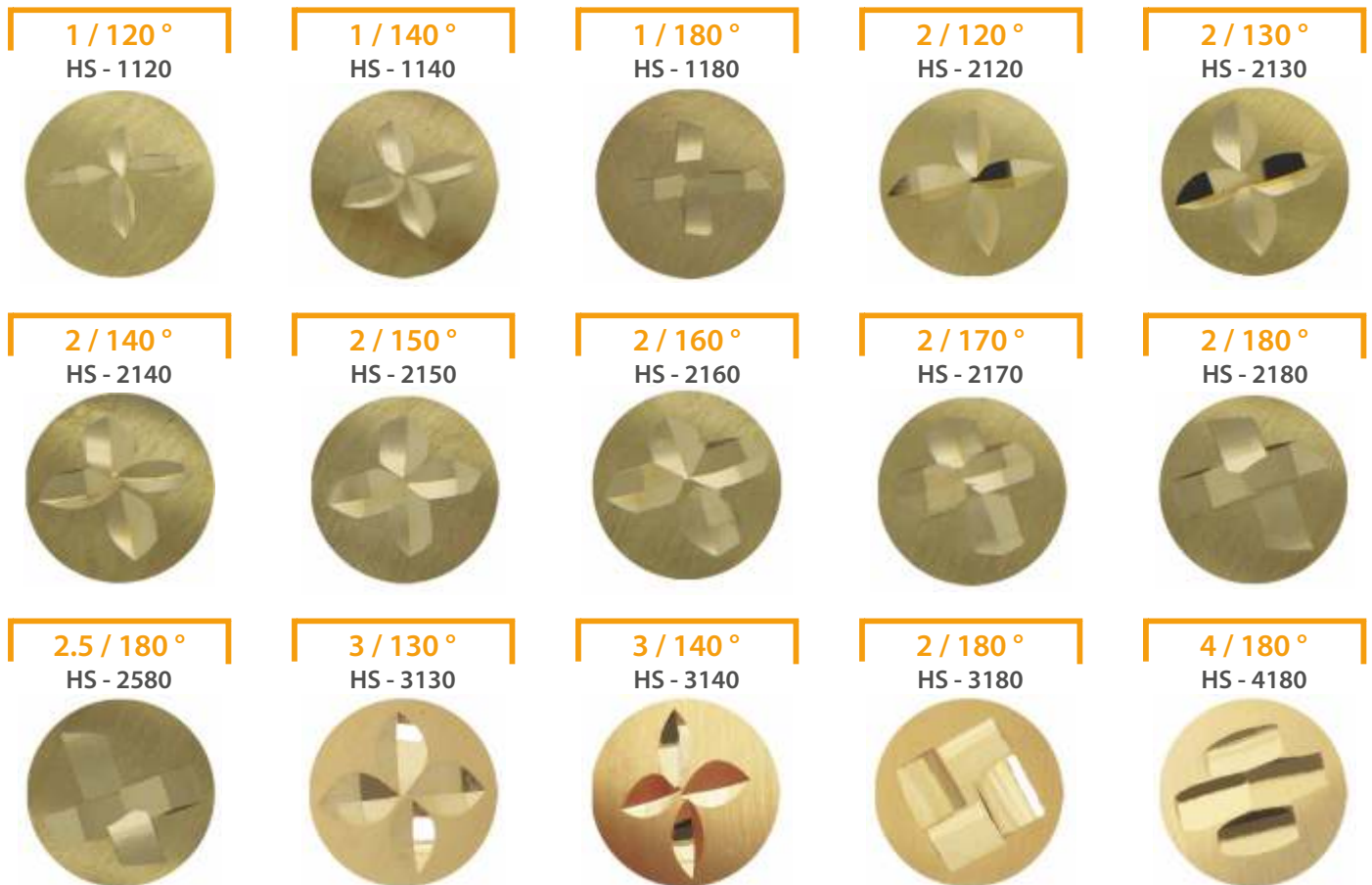


1:1 SCALE



Hand tools are the most popular application of diamond cutting. It is widely used on bangles, bracelets, pendants and rings.

A rich variety over 300 models gives endless opportunities to the users. Flexible use by hand lets the users to be creative without borders.





## ► HAND TOOL / FANCY



There is always more. We are proud to be the company offering widest variety of hand tools on earth.

From the day you start to experience our hand tools, you will need more and more of variety. That is what you can definitely find out here. Convex, concave, lining, facets and many other fancy shapes are waiting for you in stock. Do not forget to catch us at any exhibitions world-wide, to see the newest fancy tools.

**0.5 / CV**  
HS - 4050



**1 / CV**  
HS - 4100



**2 / CV**  
HS - 4200



**1 / CC**  
HS - 5050



**2 / CC**  
HS - 5200



**1 / 4L**  
HS - 6140



**2 / 4L**  
HS - 6240



**3 / 6L**  
HS - 6360



**1 / 5F**  
HS - 7150



**2 / 5F**  
HS - 7250



**3 / 5F**  
HS - 7350



**TYPE 49A**  
HS - 8149



**TYPE 51**  
HS - 8051



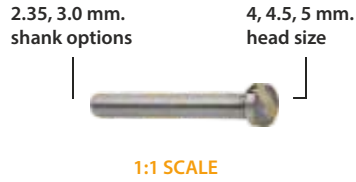
**TYPE 55**  
HS - 8055



**TYPE 61**  
HS - 8061



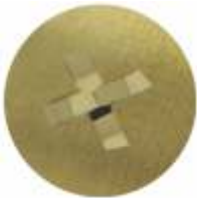














## ► MINI TOOL



On production line today, users really often face challenging ornaments. Sometimes small, sometimes complicated and mostly too thin.

Hand tools with micro and mini head let users to cut on even the smallest surfaces. With trying one of them, you will be surprised how precise you can work on any ornament. The good news is, any sizes and shapes are available on micro / mini tools

<p><b>1 / 120°</b> HM - 1120</p> 	<p><b>1 / 140°</b> HM - 1140</p> 	<p><b>1 / 180°</b> HM - 1180</p> 	<p><b>2 / 120°</b> HM - 2120</p> 	<p><b>2 / 130°</b> HM - 2130</p> 
<p><b>2 / 140°</b> HM - 2140</p> 	<p><b>2 / 150°</b> HM - 2150</p> 	<p><b>2 / 160°</b> HM - 2180</p> 	<p><b>2 / 170°</b> HM - 0580</p> 	<p><b>2 / 180°</b> HM - 7250</p> 
<p><b>1 / CV</b> HM - 4100</p> 	<p><b>2 / CV</b> HM - 4200</p> 	<p><b>2 / CC</b> HM - 5200</p> 	<p><b>1 / 3L</b> HM - 6130</p> 	<p><b>2 / 4L</b> HM - 6240</p> 

## ► HAMMER HEAD TOOL



Beside the small, thin ornaments - we often have products that we need to cut really big, really deep.

You can basically use hammer head tools in such conditions. They cut wide and pretty long thanks to its long head size. Basic head sizes are varied from 15 to 25mm but you can just place an order with even bigger sizes.

Hammer head tools are especially great with thick ornaments in gold, silver, brass, copper and even aluminium.

1 / 180° H=15  
HH - 1181



1.5 / 180° H=15  
HH - 1581



2 / 130° H=15  
HH - 2131



2 / 140° H=15  
HH - 2141



2 / 150° H=15  
HH - 2151



2 / 180° H=20  
HH - 2181



2 / 180° H=20  
HH - 2182



3 / 130° H=20  
HH - 3131



3 / 140° H=20  
HH - 3141



3 / 140° H=20  
HH - 3142



3 / 140° H=25  
HH - 3143



3 / 150° H=25  
HH - 3151



3 / 160° H=25  
HH - 3161



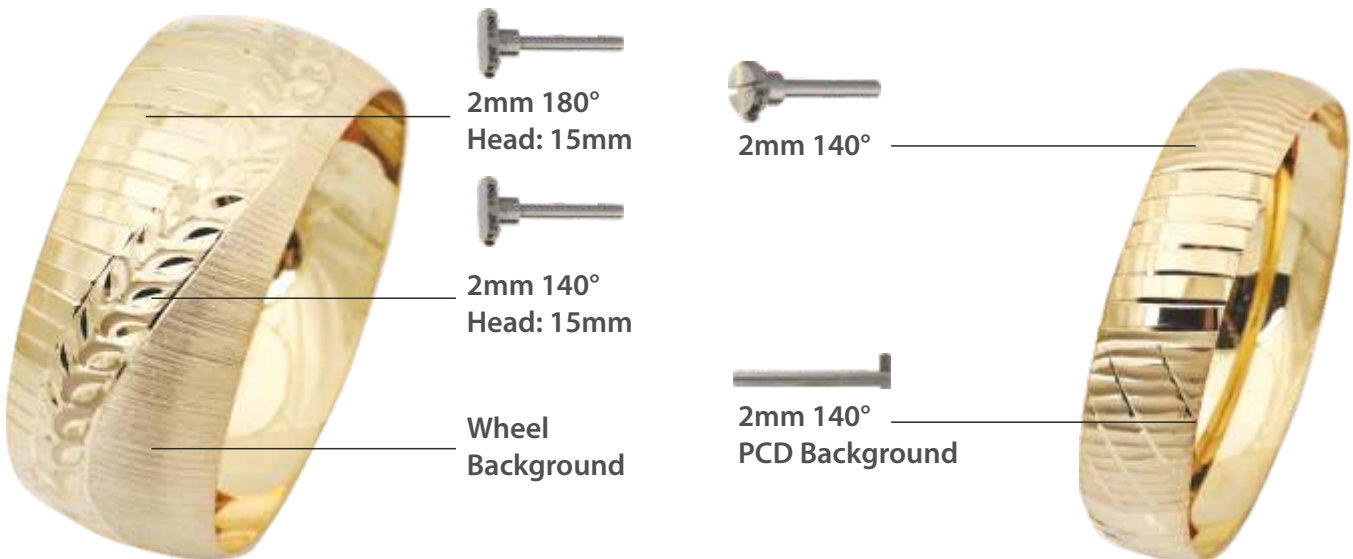
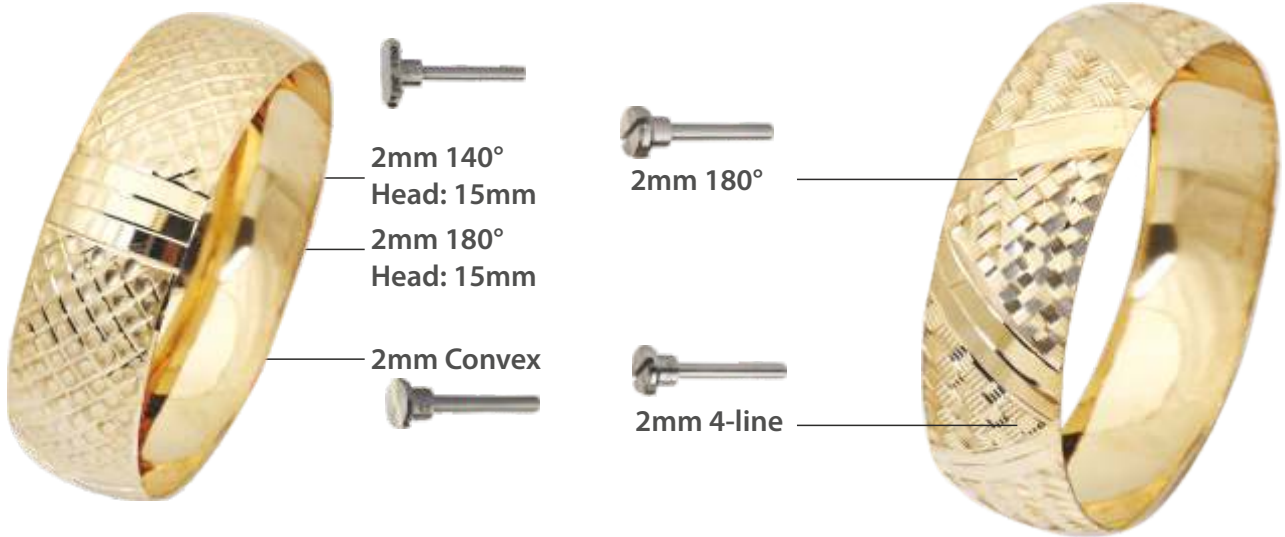
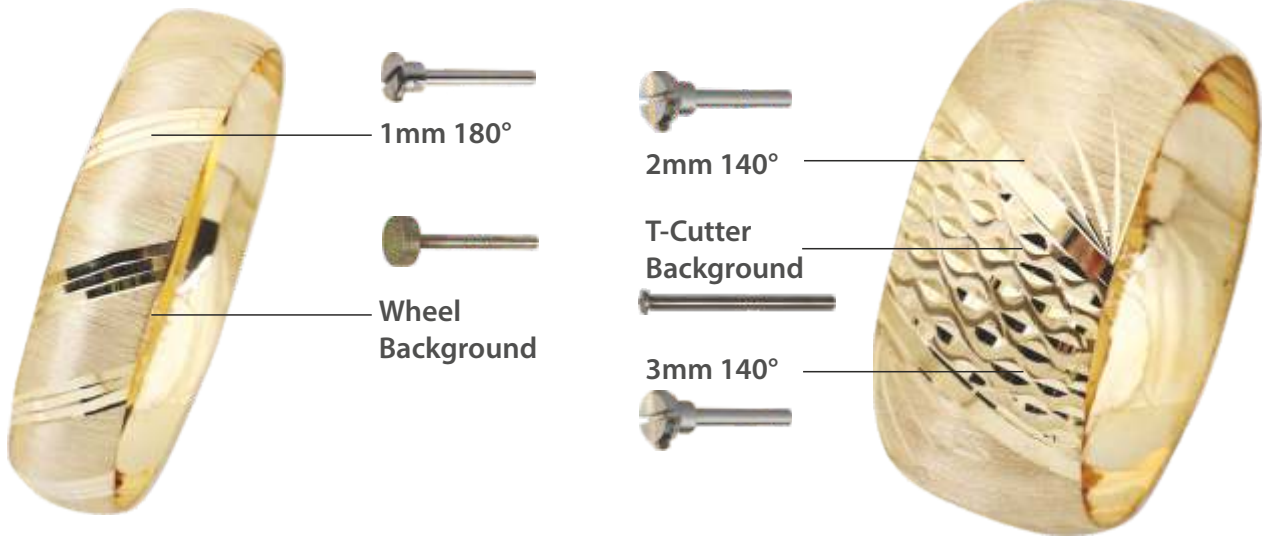
3 / 180° H=25  
HH - 3182



3 / 180° H=25  
HH - 3183



## ► HAND TOOLS FOR STRATCHING



## ► POINT TOOL



Bulunmaz point tools, with the variety of diverse models options can be used both in cnc machines and also hand engraving machines

Today, many manufacturers experience our point tools with a great variety. The 80.000 rpm pneumatic point machine makes the things even easier.



### SMALL

HP - 0001



### MEDIUM

HP - 0002



### BIG

HP - 0003



### 0.75 CNC POINT

HP - 0010



### 1.0 CNC POINT

HP - 0011



### 1.5 CNC POINT

HP - 0012



### 2.0 CNC POINT

HP - 0013



### 1 / 3L

HP - 0020



### 1.5 / 3L

HP - 0021



### 2 / 2L

HP - 0022



### 2 / 4L

HP - 0023



### 2.5 / 3L

HP - 0024



### 2 / 3L

HP - 0025



### 1.0 / BALL

HP - 0030



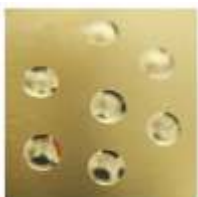
### 1.5 / BALL

HP - 0031



### 2.0 / BALL

HP - 0032



### 0.75 CIRCLE

HP - 0040



### 1.0 CIRCLE

HP - 0041



### 1.5 CIRCLE

HP - 0042



### 2.0 CIRCLE

HP - 0043



<p>2 / 140° PCD HB - 1240</p> 	<p>2 / 150° PCD HB - 1250</p> 	<p>2 / 160° PCD HB - 1260</p> 	<p>2 / 180° PCD HB - 1280</p> 	<p>2 / 140° PCD (LONG) HB - 1241</p> 
<p>1 / CV PCD HB - 1104</p> 	<p>2 / CV PCD HB - 1204</p> 	<p>3 / CV PCD HB - 1304</p> 	<p>2 / 4L PCD HB - 1206</p> 	<p>3 / 6L PCD HB - 1306</p> 
<p>2 / 140° PCD (BIG) HH - 3143</p> 	<p>CONIC HB - 2100</p> 	<p>MINI BALL HB - 2200</p> 	<p>BALL HB - 2201</p> 	<p>STRAIGHT HB - 2300</p> 
<p>ELIPS HB - 2101</p> 	<p>THIN WHEEL HB - 2410</p> 	<p>WHEEL HB - 2400</p> 	<p>CYLINDER HB - 2500</p> 	<p>EMERY WHEEL HB - 3100</p> 
<p>EMERY CYLINDER HB - 3200</p> 	<p>U.T CYLINDER HB - 3300</p> 	<p>0.2 LINE / SMALL HB - 4201</p> 	<p>0.2 LINE / MEDIUM HB - 4202</p> 	<p>0.2 LINE / BIG HB - 4203</p> 
<p>0.50 LINE / SMALL HH - 3143</p> 	<p>0.50 LINE / BIG HH - 3151</p> 	<p>T1 HH - 3161</p> 	<p>T4 HH - 3182</p> 	<p>GRAND WHEEL HH - 3183</p> 

## ▶ HAMMER PIN

**American Type**



**British Type**



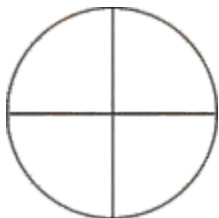
Hammering is an old way of texturing on metal in jewellery industry. Today, you can use the tools with high quality, precision and the variety with Bulunmaz hammering technology.

From 4 to 16 facet options of hammering pins give you chance to have smooth or rough texturing on your ornaments.

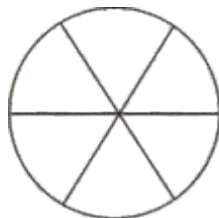
You can use the hammering machine manufactured with Bulunmaz quality. It comes with steel components and adjustable strenght of air.



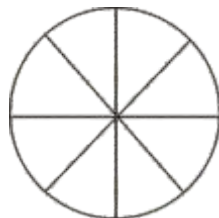
**4 Facets**  
Rough cut with  
thick dost



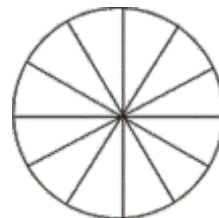
**6 Facets**  
Medium cut



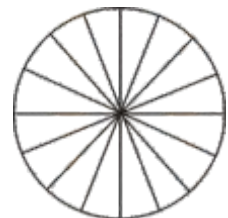
**8 Facets**  
Standart cut  
(Regular size)



**12 Facets**  
Thin cut



**16 Facets**  
Smooth cut



## ▶ DIAMOND CUT BOX

Totally isolated diamond cut box with integrated LED light. You will love its compact design.

If you are not able to order it to us, you can simply ask for the sizes and order your local manufactuzrer.



*Passion for precision*



**2/75°**

Available 60° to 110°



**120°**

1 to 5mm



**0.5/180°**

Available 0.2 to 0.5mm



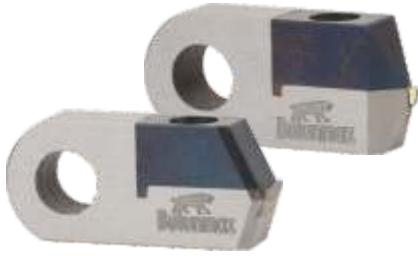
**1/180°**

1 to 1.9mm





## ► MACHINE TOOL



DIAMOND MACHINE TOOLS

Without any doubt, machine tools are the core of diamond cutting. More than half a century ago, it was invented in Switzerland and spread to the world with the rise of Swiss diamond cutting machines.

The president of Bulunmaz Diamond Tools, Mr. Hilmi Bulunmaz prouds to be the first person who met and used Swiss diamond cutting machines in Turkey.



PCD ( poli - carbon ) TOOLS

Today, Bulunmaz offers you the best quality, the best precision and a huge variety of quality options from A to Z.

Our legandary stock of machine tools give us chance to serve our clients mostly faster than they can imagine.











































CARBIDE TOOLS

Bulunmaz machine tools quality codes:

- BAS (basic)
- ECO (economy)
- STD (standard)
- PRO (professional)
- LUX (luxury)
- MON (mono-crystal)
- VAC (vacuum brazed)
- PCD (poli-carbon diamond)
- CAR (carbide)

\*Check our website to see the comparison chart of codes.

<p><b>130°</b> 1 to 5mm</p> 	<p><b>140°</b> 1 to 5mm</p> 	<p><b>150°</b> 1 to 5mm</p> 	<p><b>160°</b> 1 to 5mm</p> 	<p><b>170°</b> 1 to 5mm</p> 
<p><b>2 / 180°</b> 2 to 2.9mm</p> 	<p><b>3 / 180°</b> 3 and 3.5mm</p> 	<p><b>4 / 180°</b> 4 to 4.9mm</p> 	<p><b>5 / 180°</b> 5 and 5.5mm</p> 	<p><b>6 / 180°</b> 6 to 12mm</p> 

<b>0.5 / CV</b> 0.3 to 0.9mm 	<b>1 / CV</b> 1 to 1.9mm 	<b>2 / CV</b> 2 to 2.9mm 	<b>1 / CC</b> 0.4 to 1mm 	<b>1.5 / CC</b> 1.1 to 1.9mm 
<b>2 / CC</b> 2 to 2.9mm 	<b>3 / CC</b> 3 to 3.9mm 	<b>4 / CC</b> 4 to 6mm 	<b>2 / 5F</b> 1 to 4mm 	<b>1 / 3L</b> 3 to 6 lines 
<b>1.5 / 3L</b> 3 to 6 lines 	<b>2 / 4L</b> 3 to 10 lines 	<b>2 / 6L</b> 2 to 8 lines 	<b>2 / 8L</b> 2 to 10 lines 	<b>3 / 3L</b> 3 to 12 lines 
<b>3 / 4L</b> 3 to 15 lines 	<b>3 / 6L</b> 3 to 15 lines 	<b>3 / 8L</b> 3 to 15 lines 	<b>4 / 12L</b> 4 to 20 lines 	<b>6 / 15L</b> 6 to 30 lines 
<b>Double CC</b> 1 to 4mm 	<b>V- Flat</b> 1 to 4mm 	<b>2mm TYPE 49a</b> 1 to 4mm 	<b>3mm TYPE 49a</b> 1 to 4mm 	<b>TYPE 50</b> 1 to 4mm 
<b>TYPE 52</b> 1 to 4mm 	<b>TYPE 55</b> 1 to 4mm 	<b>TYPE 61</b> 2 to 4mm 	<b>TYPE 63</b> 2 to 4mm 	<b>TYPE 65</b> 1 to 4mm 

## ► DIAMOND TOOLS for LATHE MACHINE

Use our machine tools on your lathe machines to get eternal lines. With incredibly wide variety of our tools, you will get endless designs on wedding bands.

Follow [www.bulunmaz.com](http://www.bulunmaz.com) for the latest designs.



0.3 / 180°



2 / CV



3 / CV



0.5 / CC



3 / 3CC



1 / 3 - Line



1 / 4 - Line



2 / 5 - Facet



3 / 4 - Facet



1 / V - Flat



2 / Type 50



2 / Type 53a



2 / Type 62



4 / Type 62



2 / Type 63



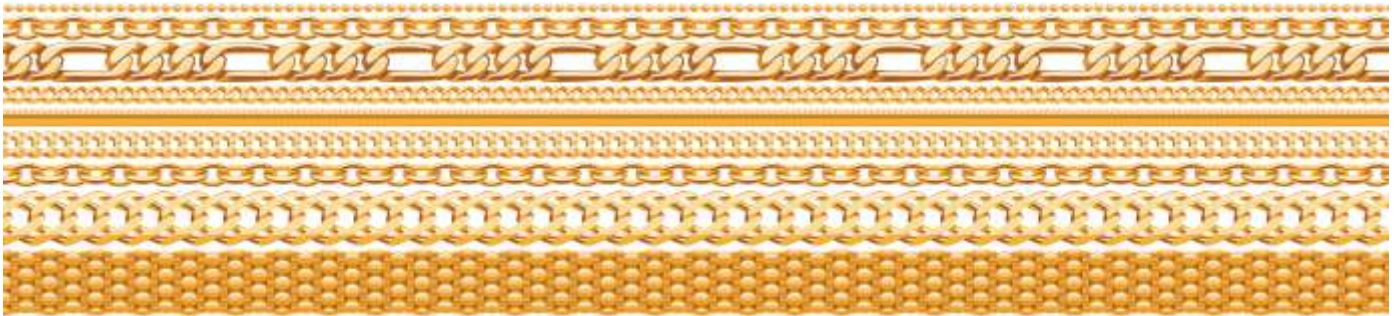
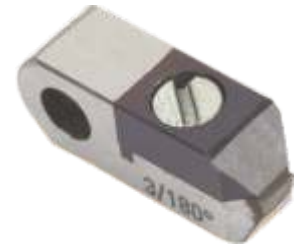
## ► CHAIN TOOL



Today, chains are a very important part of jewellery industry. Especially because of the quantities are extremely high and the profits are going down each day, the chain manufacturers need the best quality with lowest rates possible.

We understand the idea of chain manufacture and work hard to reach the standards of world-wide manufacturers. From Singapore to Mexico, Turkey to Russia, we keep in touch and keep the relations more than alive. We follow up with chain machine manufacturers and do our best to deliver the new technologies and developments to our clients.

Beside side cutting tools with several angles for left and right cutting, we also offer the mini tools, tools with long body and different tools depending on different machine manufacturers, for ice lathe. Even special design tools with high precision values are always welcome as orders.



## ► DISK TOOL

Disk tools are a part of chain manufacture. We also offer a wide range of them. Even that unusual tools of chain manufacture, are always in our stock with most sizes. Disk tools are also used with sheet cutting machines today for line cutting and surface finishing.



## ► LATHE TOOLS



INSIDE LATHE TOOL | DIAMOND, PCD AND CARBIDE



INSIDE LATHE TOOL | SQUARE SHAPE TOOL BODY



PCD LATHE TOOL | FOR WEDDING RINGS



LATHE TOOL | FOR ICE LATHE

Lathe tools are widely used for inside, outside and side cutting of wedding rings and bangles

Beside wedding rings and bangles, they can be used on most round shape ornaments.

The diamond lathe tools let the user get mirror-like shine. With natural or laboratory made mono-crystal diamond options, you can find the best solution for your manufacture.

PCD (poli-carbon diamond) and carbide tool options exist for rough and low cost lathe.

Special design orders are always welcome.

## ► SPECIAL TOOLS

We give extra importance on orders with special tool body and diamond sizes. As the special orders come with extremely high precision requests, we take care much more than mass production tools



Whatever brand of manual or CNC machines you have, even whatever products you are producing from jewellery to aerospace, watches to aluminium spare parts, mobile phones to contact lenses, we are ready, eagerly waiting for your special orders.

We know very well that only your most complicated orders move us for ahead.



## ► MAGIC WHEEL



PLATED NANO DIAMONDS



“Magic wheel” is the magic newcomer for wedding ring manufacturers.

You can basically hold the magic wheel by your hands and apply it on the wedding bands or even bangles running on your lathe machine.

Magic wheel is produced with plated real diamonds on it! That gives a unique shine comparing to similar technologies available. As they are plated with high tech baths, they stay there until they finish.

Just do not forget to steam clean your rings if you will apply diamond cut !



## ► MILLGRAIN



Beside the magic wheel, you can also use millgrain tool with your lathe machines also on wedding rings and bagles.

Each millgrain come with different size and shape on it. Soon in 2015, a detailed catalog of millgrains with tool and wedding ring sample photos will be published on our website and as an extra printed catalog.

PRECISELY GRINDED CARBIDE



Use millgrains to turn the boring plain rings into new, fresh ideas.



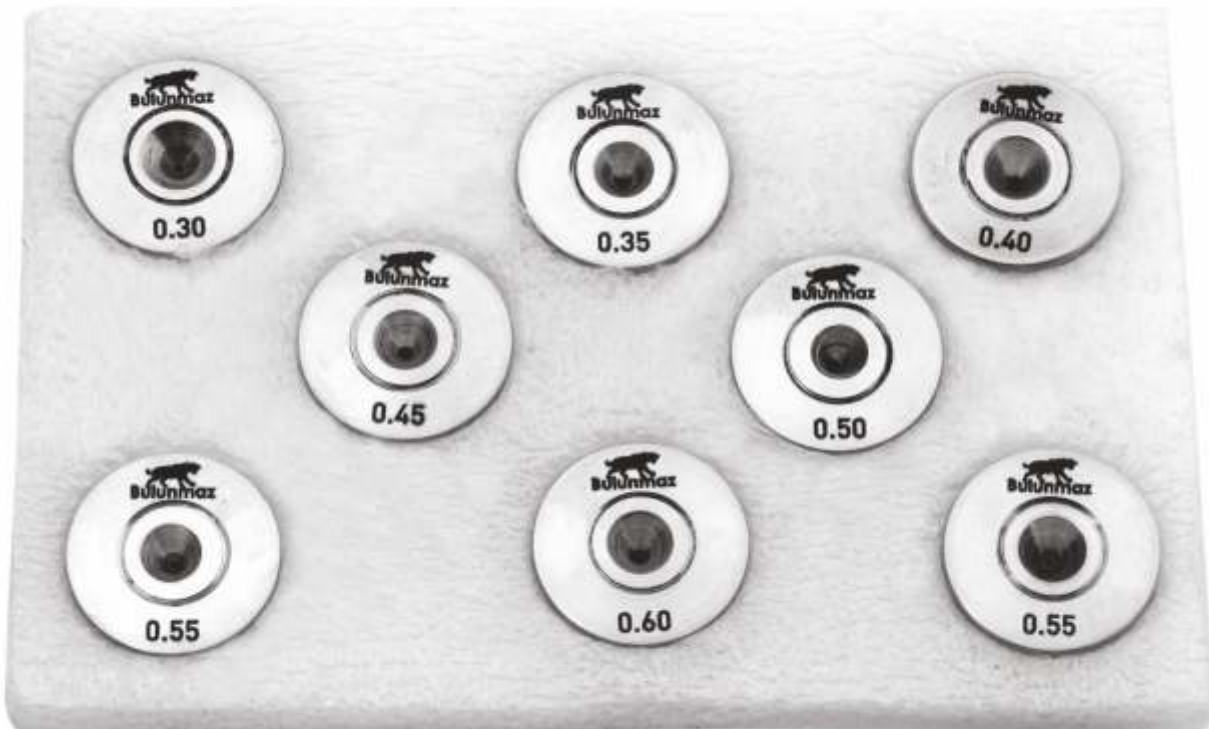
## ► WIRE DRAWING DIES



Natural diamond wire drawing dies are produced in our factory with the highest technology and precision machines.

Sizes start from 0.05mm and goes up to big sizes as 2.00mm.

Discover today the unique shine and long life-time of diamond drawing with Bulunmaz Wire Drawing Dies.









**COLLETS**

THIN      STANDARD      WIDE

WITHOUT WALL      WAVE RINGS      HIGH WALL

COLLETS FOR INSIDE

Diagram labels: RING THICKNESS, HOLE, RING SIZE, TOTAL LENGTH

You can place your orders just sending a drawing, indicating the collet sizes or informing about the model number of your diamond cutting machine.

We use soft brass as the raw material on collets.

## ► PROPELLERS



Standard propellers from 10 cm. to 25 cm.

The propellers are an important part of diamond cutting. With a simple change of propeller, you can get a totally different effect with diamond cut. Just check our propeller catalog to meet new ideas of various propellers.

Standard propellers come usually between 10-15 cm sizes. With choosing a bigger size propeller, you can just have extremely long cut on the ornaments, as the small ones let you have tiny cuts.



Round cut propeller for wedding rings

Mini cut propellers



By using the round cut propellers that you can see on the right side, you can cut continuous, long cuts on round objects as wedding rings or bangles. Soon, you will be able to see on our website the detailed product samples and videos of the propellers in action.

Round cut propeller for bangles



## ► CNC LINE



Join today's advanced CNC technology with us. Our high precision CNC tools let you manufacture your jewellery at the highest value possible.

You can use our CNC line tools for engraving, writing, designing and even just side cutting.

CNC point, ball, circle and other fancy tools give you chance to make punching in different shapes on your wedding rings, bangles, sheets and other ornaments.

BALL



0.10 LINE



0.20 LINE



0.30 LINE



0.40 LINE



0.50 LINE



0.60 LINE



0.70 LINE



0.80 LINE



1.00 LINE



1.50 LINE



2.00 LINE



3.00 LINE



## ► POINT | BALL | CIRCLE | LINING for CNC



**Point**

0.10 POINT



0.20 POINT



0.30 POINT



0.40 POINT



0.5 POINT



1.0 POINT



1.5 POINT



2.0 POINT



**Ball**



0.5 BALL



1.0 BALL



1.5 BALL



2.0 BALL



**Circle**



0.5 CIRCLE



1.0 CIRCLE



1.5 CIRCLE



2.0 CIRCLE



**Lining**



1 / 3 LINE



2 / 3 LINE



2 / 4 LINE



3 / 3 LINE



**► CNC BACKGROUND TOOLS**



**T1 Mini**  
CB- 1403



**T1 Thick**  
CB- 1405



**T2 Mini**  
CB- 2405



**T4 Mini**  
CB- 4403



**T4**  
CB- 4405



**T4 Thick**  
CB- 4406



**T4 Double**  
CB- 4445



**T4 160°**  
CB- 4805



**T1 180°**  
CB- 1403



**T4 V- Flat**  
CB- 1403



## ► CNC BACKGROUND TOOLS



**T4 CV**  
CB- 4905



**T4 CV 90° / 140°**  
CB- 4945



**T4 CV 90° / 160°**  
CB- 4965



**T6**  
CB- 6405



**T8**  
CB- 8408



**T12**  
CB- 9409



**T1 0.50**  
CB- 1058



**T6 0.50**  
CB- 6055



**PCD**  
CB- 1408



**PCD Big**  
CB- 1412



## ► END MILL



### End mills for engraving

End mills are widely used in many industries. With the rise of CNC machines in jewellery, they also arrived to our industry.

You can just pick our small size end mills from 0.40mm up to 1mm for engraving of wedding rings or cutting of sheet pendants and spare parts. You can use the big sizes as 1mm, 1.5mm or 2mm for engraving or cutting of bangles.

The end mills usually come with 2 blades (flutes) and a standard tip length of 1 or 1.2mm.

You can always place special orders with your specific sizes.



Size	Lenght	Shank	Total Lenght	Blades
0.40	0.50	3.0	40	2
0.50	0.50	3.0	40	2
0.50	1.00	3.0	40	2
0.60	0.50	3.0	40	2
0.60	1.00	3.0	40	2
0.70	1.00	3.0	40	2
0.70	1.20	3.0	40	2
0.80	1.20	3.0	40	2
0.90	1.20	3.0	40	2
1.00	1.20	3.0	40	2
1.00	1.50	3.0	40	2
1.25	1.50	3.0	40	2

Size	Lenght	Shank	Total Lenght	Blades
1.50	1.50	3.0	40	2
1.50	2.00	3.0	40	2
1.75	2.00	3.0	40	2
2.00	2.00	3.0	40	2
2.75	2.00	3.0	40	2
3.00	2.00	3.0	40	2
0.40	0.50	4.0	40	2
0.50	0.50	4.0	40	2
0.50	1.00	4.0	40	2
0.70	1.00	4.0	40	2
0.80	1.00	4.0	40	2
1.00	1.00	4.0	40	2

## ► BALL NOSE



### Ball nose cutter for 3D work

Ball nose cutters are mostly used on 3D design. You can engrave casting models or any other special 3D designs directly on gold, silver or other soft metals with ball nose cutters.

Ball nose cutters are also widely used on steel mold making which is an important process of jewellery manufacture. If you are one of the advanced companies who manufactures its own steel molds, just check our different variety of ball nose cutters.

In case you are into steel molds, do not forget checking our 35.000 rpm electric micro motor or 70.000 rpm pneumatic air grinder which are used on final finishing of the molds after CNC machine process.



Size	Lenght	Shank	Total Lenght	Blades	Radius
0.40	2.00	3.0	40	2	0.20
0.50	2.00	3.0	40	2	0.25
0.50	3.00	3.0	40	2	0.25
0.70	3.00	3.0	40	2	0.35
0.80	3.00	3.0	40	2	0.40
1.00	3.00	3.0	40	2	0.50
1.00	5.00	3.0	40	2	0.50
1.25	5.00	3.0	40	2	0.62
1.50	5.00	3.0	40	2	0.75
2.00	5.00	3.0	40	2	1.00
2.50	5.00	3.0	40	2	1.25
3.00	5.00	3.0	40	2	1.50

### Offers for stamp makers



35.000 rpm micro motor  
for surface finishing of steel moulds  
Comes with 2.35mm and 3mm shank

70.000 rpm  
pneumatic  
grinder

For grinding  
and finishing  
of stamps



## ► DRILL BIT

You can directly open stone places on your wedding rings or other ornaments with drill bits.

They usually come with 90° standard type. You can also order different sizes and angles.

With using drill bits, you can basically open stone places with precise sizes and minimum effort of design.

Drill bits are made of special alloys best for soft metal drilling and they come with a standard shank of 3mm.

Most popular stone sizes come as 1mm, 1.25mm and 1.5mm.



Size	Lenght	Shank	Total Lenght	Blades
0.25	3.00	3.0	40	2
0.50	3.00	3.0	40	2
0.75	3.00	3.0	40	2
1.00	3.00	3.0	40	2
1.25	3.00	3.0	40	2
1.50	3.00	3.0	40	2
1.75	3.00	3.0	40	2
2.00	3.00	3.0	40	2
2.25	3.00	3.0	40	2
2.50	3.00	3.0	40	2
2.75	3.00	3.0	40	2
3.00	3.00	3.0	40	2

## ► GRAVER

Graver tool is widely used on small scale CNC machines. As they do not really require precision, any type of machines can be run with these tools.

Standard degrees varies as 30°, 40° and 50°. Any other degrees can be produced depending on orders.

Graver tool comes with a flat surface on the tip of the tool to help the cut shine and avoid breaking. 0.10 and 0.20mm sizes are mostly preferred.

Beside using the graver tool to cut a thin surface, you can also cut deep on mostly wedding rings.

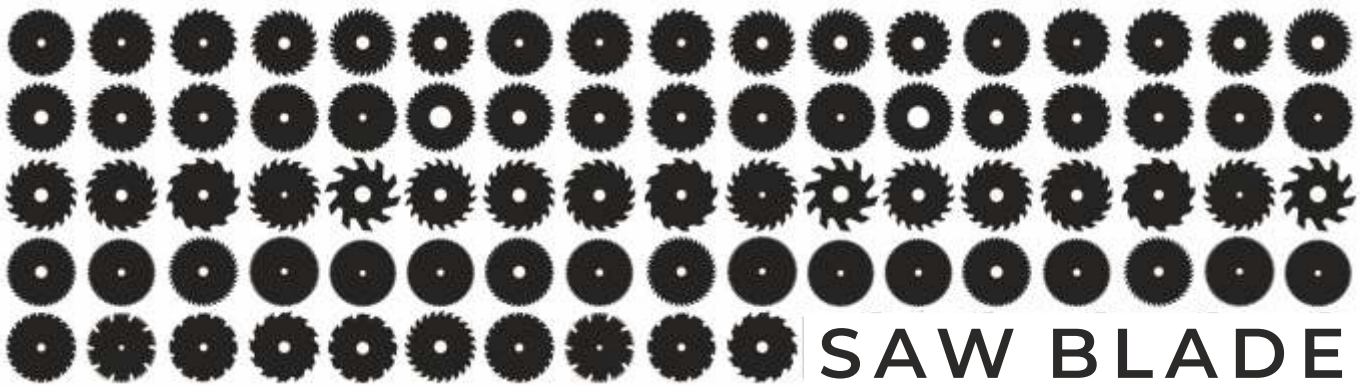
Our graver tools are manufactured with carbide as the raw material not like most of the gravers are made from basic steel.

Graver tools come with different tool body sizes. As our standard is 40mm lenght and 3mm shank, it can be longer and thicker as 3.175mm, 4mm or 6mm.



Tip	Shank	Total Lenght	Angle
0.10	3.0	40	30° / 40° / 50°
0.20	3.0	40	30° / 40° / 50°
0.30	3.0	40	30° / 40° / 50°
0.40	3.0	40	30° / 40° / 50°
0.50	3.0	40	30° / 40° / 50°





### Saw blades for tube cutting

Saw blades are used in many processes of jewellery manufacture as tube, chain, wire or any other ornaments' cutting.

Most popular sizes varies as 0.20, 0.30 and 0.40mm sizes. But beside these, you can always place an order with your spesific sizes or any other available sizes from the chart below.

Saw blades are made of carbide which gives much longer life time than the steel ones. We keep popular sizes in stock to avoid the pauses on our customers' manufacture.



Round	Hole	Thickness	Blades
63	10 / 16	0.20	200
63	10 / 16	0.25	200
63	10 / 16	0.30	200
63	10 / 16	0.40	200
63	10 / 16	0.50	200
50	10 / 13	0.20	180
50	10 / 13	0.25	180
50	10 / 13	0.30	180
50	10 / 13	0.40	180
50	10 / 13	0.50	180
40	8	0.20	160
40	8	0.25	160

Round	Hole	Thickness	Blades
40	8	0.30	160
40	8	0.40	160
40	8	0.50	160
30	8	0.20	120
30	8	0.30	120
30	8	0.40	120
20	5	0.20	100
20	5	0.30	100
20	5	0.40	100
15	5	0.20	80
15	5	0.30	80
15	5	0.40	80

## ► RINGMAKER

**4 AXIS CNC MACHINE**  
FOR RING AND BANGLE PRODUCTION



- ▶ 40.000 rpm x 2 - double vertical spindles
- ▶ 12.000 rpm horizontal spindle for background designs
- ▶ Hammering spindle for gold dust effect
- ▶ 70.000 rpm pneumatic spindle for point tools
- ▶ Optional surface scanner for thin materials
- ▶ Full dust collection
- ▶ Free training for controller software and life time support for design software

### TOTAL 4 AXIS / 6 HEADS JEWELRY CNC MILLING MACHINE

- ▶ Ringmaker 4 axis / 6 heads CNC machine with additional 360 degree horizontal diamond cutting
- ▶ Additional 5th axis option for flat pieces working
- ▶ Hiachi South Korea high speed spindles
- ▶ Mitsubishi servo motors
- ▶ DXF drawing direct upload



## ► R4

### MACHINABLE PRODUCTS

Wedding rings, bangles, round objects, pendants, various flat items

### ► TECHNICAL SPECIFICATIONS

**VERTICAL MOTOR** 2 x 40.000 rpm, 1.2 kW, MTC (ISO10) (Hiachi South Korea) + 70.000 rpm

Pneumatic Spindle+Hammering attachment (Chicago Pneumatics, USA)

**HORIZONTAL MOTOR** 12.000 rpm, 1.1kW, MTC

10.000 rpm 0.75 kW Horizontal Diamond Cut Head

**SURFACE SCANNER** Optional

**POWER** 220V, 50/60 Hz, 3.5 kW

**MOTORS** Servo motors (Mitsubishi Japan)

(400W x 3, 750W x 1 Mitsubishi )

**COOLING OF MOTORS** Air cooling

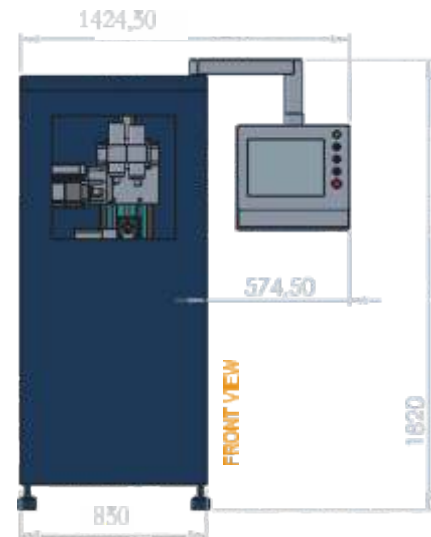
**COOLING OF WORK AREA** Spray cooling

**WORKING AREA** : X: 150 mm, Y: 360°, Z: 150 mm

**SIZE/WEIGHT** 85 x 75 x 180 cm (body) / 400 kg

**PERIPHERALS** 4 kW UPS, 100 lt. compressor

**CONTROLLER** PC Control



### ► PACKING DETAILS

**VERTICAL** 125 x 97 x 213 cms.

**HORIZONTAL** 190 x 115 x 95 cms.

**WEIGHT** Net: 400 kg / Gross: 475 kg



## ▶ BANGLEMASTER

### MULTI AXIS CNC MACHINE FOR BANGLE AND RING PRODUCTION



- ▶ 50.000 rpm 2.8kw Hiachi (South Korea) automatic tool changer spindle
- ▶ Automatic tool changer with taper tool holder (ISO10)
- ▶ Mitsubishi servo motors - 12 servo motors for 12 independent moving axis
- ▶ 360 degree head for horizontal diamond cutting 12.000 rpm 0.75kw
- ▶ 360 degree head for background cutting with 12.000 rpm 0.75kw
- ▶ PC controlled software. Easy to convert, track and process.
- ▶ Multi-languages support.
- ▶ Hammering spindle for diamond hammering
- ▶ Optional surface scanner for thin materials
- ▶ Hiachi South Korea heavy duty spindle with automatic tool changer
- ▶ Mitsubishi Japan motion control system
- ▶ PC based controller software.
- ▶ DXF drawing direct to transfer to machine controller.



## ► B12

### MACHINABLE PRODUCTS

Bangles or wedding rings with any radius, flat objects, round earrings, various round objects.

### ► TECHNICAL SPECIFICATIONS

**VERTICAL MOTOR** 50.000 rpm, 2.8 kW, ATC (ISO10)

(Hiachi South Korea)

**HORIZONTAL MOTOR** (360°) 12.000 rpm, 0.75 kW, MTC x 2 motors (Hertz Turkey)

**EXTRA HEAD** 70.000 rpm Pneumatic Spindle + Hammering attachment (Chicago Pneumatics USA)

**SURFACE SCANNER** Optional

**POWER** 220V, 50/60 Hz, 5.5 kW

**MOTORS** Servo motors (Mitsubishi Japan)

(750W x 3, 400W x 7, 200W x 2 Mitsubishi Japan)

**COOLING OF MOTORS** Water cooling

**COOLING OF WORK AREA** Spray cooling

**WORKING AREA** X: 500 mm, Y: 360°, Z: 200 mm

**SIZE/WEIGHT** 130 x 90 x 180 cm (body) / 1000 kg

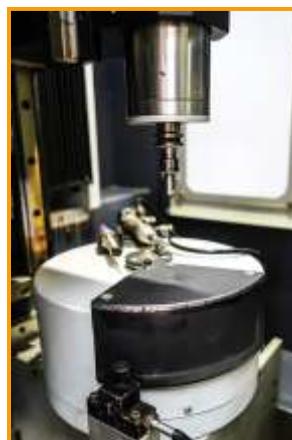
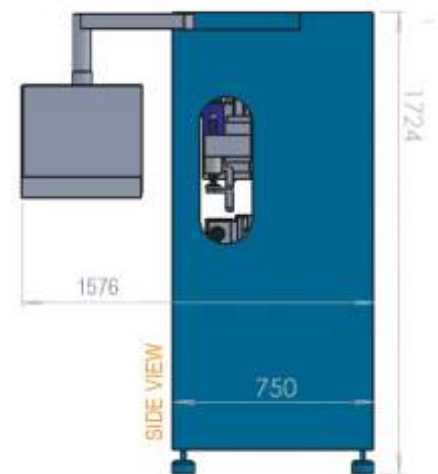
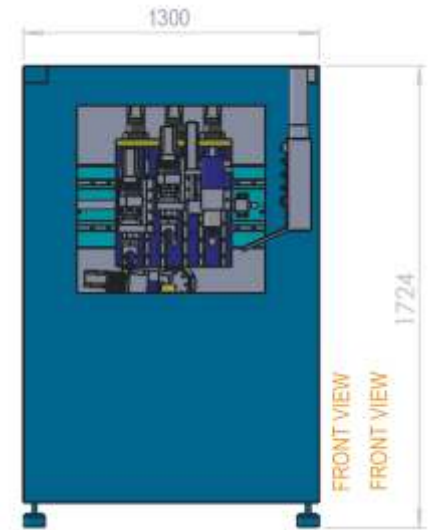
**PERIPHERALS** 10+ kW UPS, 100 lt. compressor

**CONTROLLER** PC Control / BulunmazSoft

### PACKING DETAILS

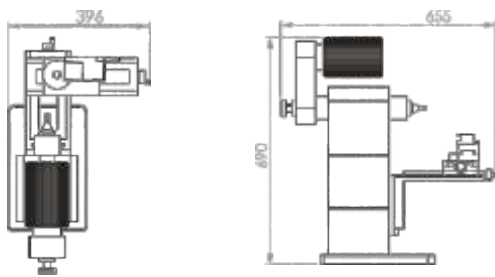
**VERTICAL** 160 x 100 x 200 cms.

**WEIGHT** Net: 1000 kg / Gross: 1100 kg

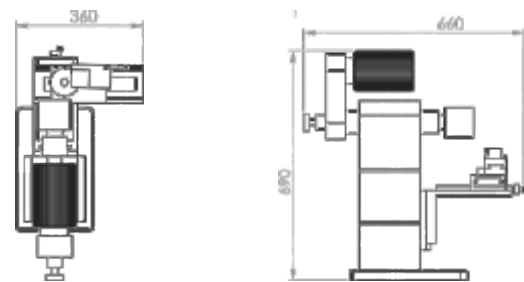


## ► LATHE MACHINE

### ► Outside Lathe Machine



### ► Inside Lathe Machine



### ► TECHNICAL SPECIES

**MOTOR :** 1400 rpm, 0.55 kW

**ADDITIONAL HEAD :** Round ring/bangle head (included)

**POWER :** 220V, 50/60 Hz, 0.55 kW 4.5A

**COOLING OF WORK AREA :** Manual spray cooling

**WORKING AREA :** X: 85 mm, Y: 110 mm, Z: 120 mm

**SIZE / WEIGHT :** 40 x 60 x 70 cms / 90 kg

**PERIPHERALS :** N/A

**CONTROLLER :** Manual control

### ► PACKING DETAILS

**Vertical** 50 x 70 x 90cm

**Weight Net :**

90 kg / Gross : 110 kg



## ► FACETING MACHINE



### ► TECHNICAL SPECIES

HORIZONTAL MOTOR: 2800 RPM 0.37 kW 1.9 A

POWER : 220V 50/60 HZ

SIZE / WEIGHT : 75/75/105 cm, 180 KG

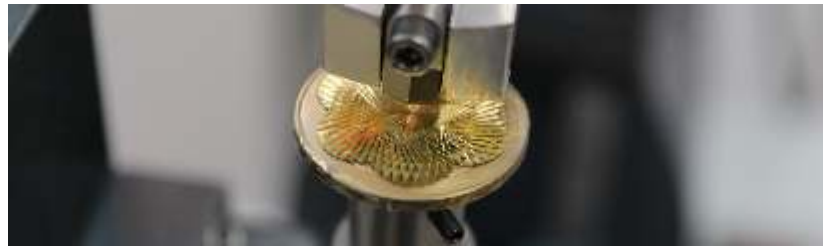
CONTROLLER : Manual/ Adjustable

VERTICAL MOTOR: 2800 RPM 0.37 kW 1.9 A

### ► PACKING DETAILS

Vertical : 85/85/100 cms.

Weight Net : 180 kg Gross: 200 kg



### FACETING MACHINE PARTS





Choosing diamonds for production

Antwerp, 2005



Practising in gold production  
(Cemal Bulunmaz, 7 years old)

Istanbul, 1989



Bulunmaz billboard in Russia since 2006

Kostroma, 2015



Bulunmaz CNC machines in production

Istanbul, 2016



Diamond cutting training class

Kostroma, 2015



In jewellery capital of Germany

Pforzheim, 2003



Bulunmaz catalogues are ready to go

Istanbul, 2012







## Exhibitions

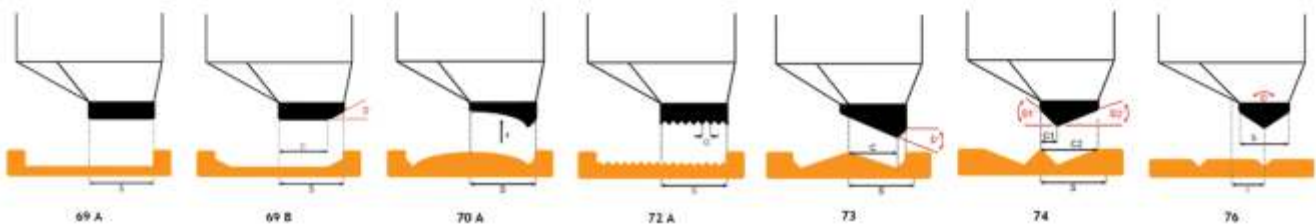
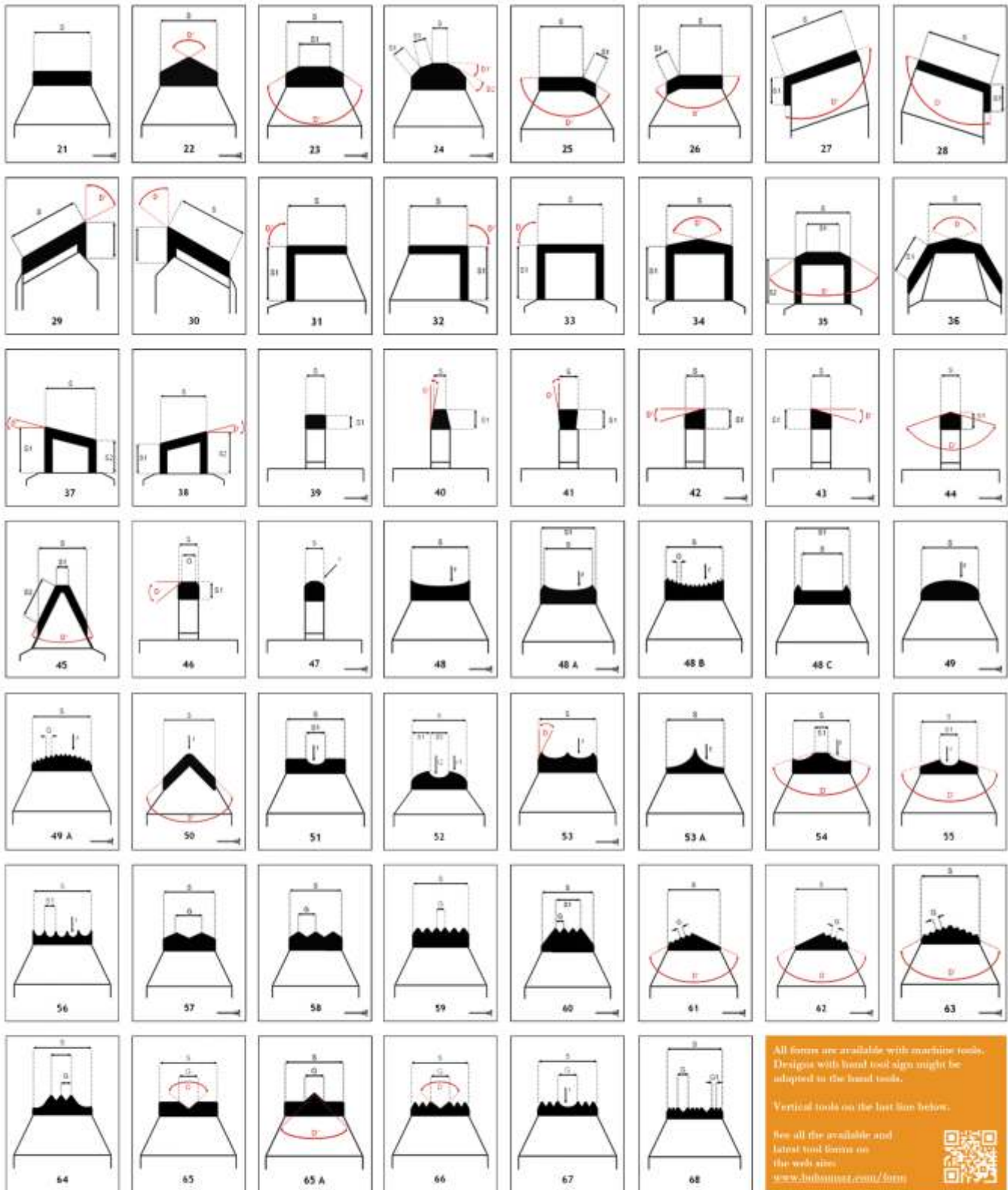
Exhibition	City & Country
 VicenzaOro First T-Gold	Vicenza, Italy
 Bangkok Jewellery Show	Bangkok, Thailand
 Hong Kong Jewellery Show (T-Gold)	Hong Kong
 Istanbul Jewellery Show	Istanbul, Turkey
 Oro Arezzo	Arezzo, Italy
 JCK Las Vegas	Las Vegas, U.S.A.
 Tecnogold Sao Paulo	Sao Paulo, Brazil
 Isfahan Gold	Isfahan, Iran
 Mumbai Jewellery Show	Mumbai, India
 Penang Signature Gold Fair	Penang, Malaysia
 Hong Kong Jewellery Show (T-Gold)	Hong Kong
 Junwex Moscow	Moscow, Russia
 Expojoya Guadalajara	Guadalajara, Mexico
 Istanbul Jewellery Show	Istanbul, Turkey
 Surabaya International Jewellery Fair	Surabaya, Indonesia
 Vietnam International Jewelry Fair	HCMC, Vietnam
 Dubai International Jewellery Show	Dubai, U.A.E.



Please check our website for the actual exhibition list with dates and booth locations:

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

# ► TOOLS FORMS





passion for *precision*

   **bulunmaz**

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



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