# AI Auto Polishing



## **Specification**

Arm Specifications		
Power Supply	Single-Phase, 230VAC, 50Hz	
Power Consuption	100w / 4 DOPs	
Dimensions	40 x 15 x 26 CM (L x W x H)	
Weight	8 KG/ DOP	May vary based on Model

Operating Environment	
Room Temprature	20°C - 28°C

<sup>\*</sup>Technical specifications are subject to change without prior notice

- Smooth Operation and Userfriendly Software.
  - Al for Prevention of Stone Burting & Pro Longness of Scaifelife.
  - Al-Based Grain Seeking Based On Vibration to Prevent Stone Breaking.
  - AI-Based Advanced Error Identification System.
  - Low Maintenance.
  - Full Pavilion Final Polishing.
  - 8/16 Havles Crown Polishing.
  - 2-Modes Available : Polish / Zeat.
  - The machine capable of Polish a variety of stones, including CVD and HPHT ranging from 0.10Ct to 20Ct.
  - Cuttng quality, symmetry & polish lustre in polished diamonds that meet
    the
  - highest standards of excellence



A new era of diamond polishing tech to archive state of the art cutting quality unmatched with anything in the market.

Our Diamond polishing robots requires minimum attention from human to get maximum output providing great production to match market demand and low production costs.



# **Polishing Bench**

Diamond Polishing Bench is the heart of the Gem polishing industry. This is what gives that pristine shine and sparkle to the diamond and we want to make sure what you get is the best quality possible. Our diamond polishing bench ensures almost Zero vibration and very high speed with addon VFD to achieve superior polish quality

Polishing Bench Specifications		
Power Supply	3-Phase, 380VAC, 50Hz	
Motor Power	1-HP	
Motor Drive	VFD Controlled	
Motor RPM	Upto 4000 RPM	
Spindle Type	2-Bearing Spindle	
Scaife Size	50mm ID, 330mm OD	
Bench Height	1.9 Mtr (6.2 Ft) Total	
Working Plate Height	0.95 Mtr (3.1 Ft) + 50mm (2 ln) adjustable	
Bench Weight	380 KG May vary based on Model	

# **Required Tools**

#### **Pneumatic Die Press**

Pnumatic Die Press is used to setup Wasscover holder and to press loose die in wasscover holder

#### **Angle Setting Machine**

Angle Setting Machine is used to set diamond's parameters of cutting angles to wasscover holder using optical masurements and machine vision.

#### Die Remover

Die Remover is used to remove die from wass cover after diamond is compeletly polished in robot.

#### **Trimmer Machine Tools**

Trimmer Machine is used to restore edge roundness of wasscover. Wasscover can be reused untill edge weares of completely.

# -eatures

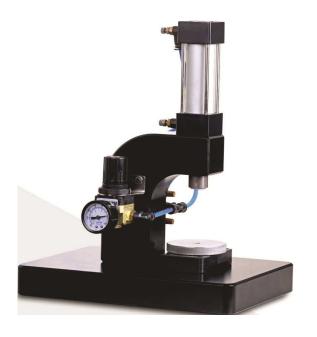
# **Auto Polishing Setup Tools**

## **Trimmer Machine**

- Low Maintenance & Long Spindle Life
- Easy And Quick Operation.
- Precision Cutting on Ring On The Holder.
- Smooth & Even Finish.
- Quck Setting For Holder Size: 10, 12, 14, 16, 18, 20, 22, 24



Trimmer Machine Specifications		
Power Supply	Three Phase, 415 VAC, 50Hz	
Dimentions	40 x 38 x 30 CM	
Weight	25 KG May vary based on Model	



## **Pneumatic Die Press**

- · Easy and Quick Opration.
- Quick Weight Adjustment.
- Safe For All Stones.
- Easy and Quick Operation

Pneumatic Die Press Specifications		
Air Pressure	~50 Psi	
Dimentions	36 x 30 x 22 CM	
Weight	9.2 KG	May vary based on Model

## **Angle Setting Machine**





- 27" Monito
- High Resolution Camera System Ensures accurate Setting of Stones
- Image saving and Label Printing.
- Barecode Scanning for Quick Data Entry.
- Accurate Calculation of Halves Degree.
- Quick Zoom For Close Inspection.
- Quck Setting For Holder Size: 10, 12, 14, 16, 18, 20, 22, 24

Angle Setting Machine Specifications		
Power Supply	12V DC	
Dimentions	38 x 80 x 40 CM	
Weight	10 KG	May vary based on Model





## Die Remover

- Easy, Safe and Quick Opration.
- Adjustable Holder Size: 10, 12, 14, 16, 18, 20, 22, 24

Die Remover Specifications		
Dimentions	35 x 12 x 19 CM	
Weight	13.4 KG	May vary based on Model