

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 <small>May vary based on Model</small>
Operating Environment	
Room Temperature	20°C - 28°C

*Technical specifications are subject to change without prior notice.

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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.

Features

- Smooth Operation and Userfriendly Software.
- AI for Prevention of Stone Burtng & Pro Longness of Scaifelife.
- AI-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.
- Cuttnq quality, symmetry & polish lustre in polished diamonds that meet the
- highest standards of excellence



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 In) adjustable
Bench Weight	380 KG <small>May vary based on Model</small>

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.

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.
- Quick 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 <small>May vary based on Model</small>

Angle Setting Machine



- Easy and Smooth Opration. & Userfriendly interface.
- 27” Monitor
- High Resolution Camera System Ensures accurate Setting of Stones.
- Image saving and Label Printing.
- Barcode Scanning for Quick Data Entry.
- Accurate Calculation of Halves Degree.
- Quick Zoom For Close Inspection.
- Quick 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 <small>May vary based on Model</small>

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 <small>May vary based on Model</small>

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 <small>May vary based on Model</small>