

# MODEL 36 / 48 ABOP

AIR BEARING OPTICAL POLISHING MACHINE







*Model 36 ABOP (left), Model 48 ABOP*



PLATE DIAMETER: 36" (914 MM) / 48" (1219 MM)  
NO. OF CONDITIONING RINGS: 3 / 4  
TYPE: SINGLE SIDED

## MEETING TODAY'S PRECISION SURFACING REQUIREMENTS

- 
 Designed for production of large area high quality plano optics, or where high outputs are required
- 
 The machine has a 36" (914 mm) / 48" (1219 mm) optical pitch annular lap, and three work stations that can be reciprocated
- 
 The unique air bearing feature has the pitch lap and its support plate riding on a very thin cushion of compressed air
- 
 Drive is from an offset motor via a lay shaft, and is transferred to the lap using a multi vee drive belt located on the periphery of the support plate

ACHIEVING HIGH STANDARDS OF FLATNESS AND SURFACE FINISH

### HIGHLIGHTS MODEL 36 / 48 ABOP

#### PITCH LAP

- ✔ Manufactured and cast to suit the requirements of the customer
- ✔ The maximum depth of pitch is approximately 2" (50 mm)
- ✔ Pitch lap conditioning is via a glass disc faced conditioning weight fitted to the fourth work station

#### WORKHOLDER RING

- ✔ The machine can accommodate unblocked and irregular shaped pieces
- ✔ The three workholder ring stations are fitted with friction drive, ensuring continuous rotation
- ✔ An eccentric oscillating motion drive is incorporated allowing reciprocation of the work across the lap plate track
- ✔ The amplitude of the reciprocation is adjustable via a simple screwed mechanism

#### OPTIONAL FEATURES

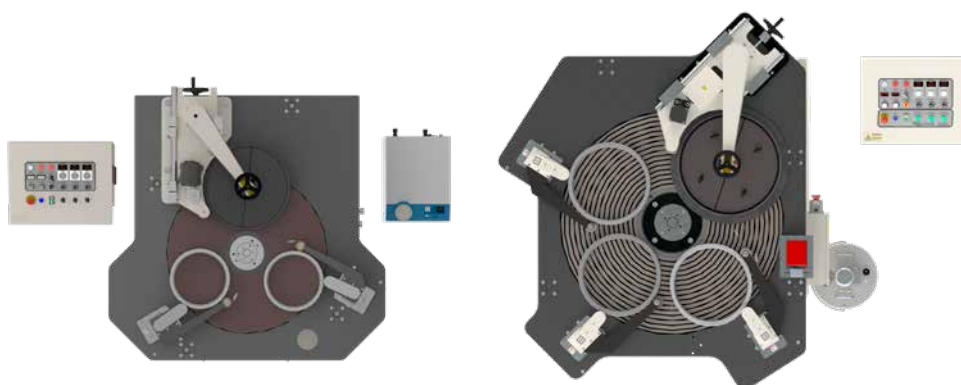
- ✔ Water cooled
- ✔ Peristaltic pump

#### OPTIONAL FEATURES

- ✔ PLC
- ✔ Diamond unit

#### OPTIONAL TOOLING

- ✔ Pitch Trimmer Bar
- ✔ Water Cooling Chiller unit
- ✔ Granite conditioner
- ✔ Zerodur glass pucks
- ✔ Suspended rings
- ✔ Granite support plate



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TECHNICAL DATA	AIR BEARING OPTICAL POLISHING MACHINE	
VERSION	36 AB	48 AB
Plate O.D. [in / mm]	36 / 914	48 / 1219
Plate I.D. [in / mm]	10 / 254	12.9 / 330
Ring O.D. [in / mm]	13.7 / 350	20 / 508
Ring I.D. [in / mm]	11.8 / 300	17 / 432
Ring height [in / mm]	1.73 / 44	1.97 / 50
# of rings	2	3
Pressure plate thickness [in / mm]	-	-
Pressure plate weight [lbs / kg]	-	-
Plate RPM	2 - 25	1.6 - 20
Motor [hp / kW]	2 / 1.5	2.9 / 2.2
Voltage	380 / 480 V, 3 Phase   230 V, 3 Phase   50 / 60 Hz (Non-standard voltage available)	
Controls	Adjustable	Adjustable
Dimensions (W x D x H) [in / mm]	63 / 1600 x 64.2 / 1630 x 59.4 / 1510	66.9 / 1700 x 81.9 / 2080 x 59.4 / 1510
Weight [lbs / kg]	3740 / 1700	7495 / 3400

**GET IN TOUCH WITH US TODAY**  
**TOGETHER WE WILL FIND A SOLUTION**  
**FOR YOUR REQUIREMENTS**

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