

PR HOFFMAN MACHINE PRODUCTS:

Innovations in Flatness

Since 1938

Servo RS™ Mark IV Series

Double-Sided Planetary Lapping/Polishing Machine



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Servo **RS**TM Mark IV Series

Double-Sided Planetary Lapping/Polishing Machine

Based on the **Servo RS**TM 5400, the Servo RSTM Mark-IV double side lapping and polishing machine can be adapted to finish many different materials. The planetary action simultaneously removes equal amounts of material from both sides of the pieces.

The **Servo RS**TM Mark-IV planetary lapping and polishing machine can be modified to meet your processing requirements with the addition of a wide variety of optional accessories.

All Model Mark-IV machine design rights are reserved per United States patent number 7399217.

Standard Features

- Cast iron plates with stainless steel inserts and stainless steel edge cladding
- Counter-rotating bottom plate
- Self-aligning swivel-mounted top plate
- Independently programmable top plate, ring gear, and center gear rotation using velocity servo motor motion controls
- Heat-treated stainless steel center and pinion drive gears
- Servo-controlled downforce with load cell feedback
- Pneumatic servo valve controlled air motor pinion gears
- Thick-section plates and sub-plates for improved flatness and stability
- Automatic slurry feed system
 - Pump and mixer are remote controlled by process recipe
 - Slurry tank and distribution lines, with recirculation available
 - Variable speed propeller-style mixer with controls at mixer motor
 - Variable speed, reversible peristaltic pump with controls at panel
 - 10 gallon (38 liter) sluice drain tank with ½ HP (375 watt) pump and float switch, with integrated alarm and operator control
- Automatic flush water system and hand sprayer
 - Flush water is controlled by process recipe
 - Flush flow control valve and distribution lines
 - Two Teflon hand-held sprayers
 - All components are compatible with deionized water
- Automatic lubrication system with low level alarm

Why Choose a **Servo RS™** Mark IV

Better Parts

Faster Results

Gentler Processing

Available Options

Plates

- Stainless steel for polishing or fixed abrasive lapping

Digital gauge

- Thickness control for lapping
- Crash protection for lapping and polishing

Slurry system

- Recirculating slurry
- Multiple or high-capacity peristaltic feed heads and distribution lines
- Centrifuge system
- Slurry tank heating and cooling system
- Variety of customizable configurations available

Chemical injection system

- Auxiliary peristaltic pump and tank system
- Chemical injection pump controlled by process recipe

Wide variety of accessories available

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Mark IV Specifications			
Carriers	Tooth Type:	178/202 Tooth Sprocket Type	
	No. of Carriers:	4	
	Max Part Circle:	26.30"/30.00"	[668mm]/[762mm]
	Root Dia:	27.68"/31.47"	[703mm]/[799mm]
Floor Space	Left to Right:	106"	[270cm]
	Front to Back:	74"	[190cm]
	Height:	117"	[300cm]
	Shipping Height:	100"	[254cm]
Plates	OD:	66"	[1,676mm]
	ID:	18.8"	[478mm]
	Track:	23.6"	[599mm]
Electric Utility	Top Plate Drive:	10 HP D.C	[7.5 KW]
	Ring Gear Drive:	10 HP D.C.	[7.5 KW]
	Center Gear Drive:	5 HP D.C.	[3.75 KW]
	Standard Voltage and Required Service:	480 VAC, 60 Hz, 3 phase, 50 amps	
		380 VAC, 50 Hz, 3 phase, 60 amps	
<i>Optional: 208/230 VAC, 60 Hz, 3 phase, 100 amps</i>			
Weight	Machine weight:	16,340 pounds	[7,400 Kg]

Contact us :prhoff@prhoffman.com**+1 (717) 243-9900****Your Success = Our Success**

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