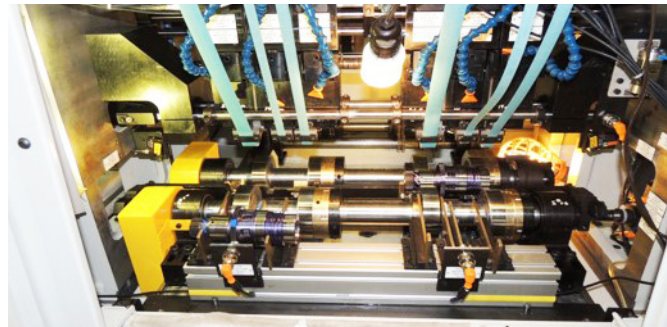


1140 - XT:XE

Horizontal Microfinishing System

IMPCO
Microfinishing



MACHINE OVERVIEW

Machine Summary

- Compact flexible machine
- PLC or CNC controlled
- Horizontal roller drive machine
 - Centerless
- Simultaneous part processing
- Maximum part length 500mm
- Maximum diameter 120mm
- Minimum diameter 10mm

Machine Services

- Manufactured to customer specifications

Automation Configuration

- Automated [XT] or manual load [XE]
- Optional:
 - Conveyor feed either direction
 - Front part load
 - Part exit front or side
 - Pick and place

Microfinishing Features

- Centerless finishing of various part types
- Microfinishing levels – GBQ I or II
- Microfinishing diameters and oil seals
- Sequential processing under multiple heads

Microfinishing Components

- Compressor shafts
- Balance shafts
- Input/output shafts
- Piston pins
- Pump gears
- Track pins & bushings

Filtration System Available

- Coolant filtration, water or oil based

Flexible Machine Concept

- Quick changeover between part type
- Dry floor guarding

1140 - XE:XT

Horizontal Microfinishing System

IMPCO
Microfinishing

Worldstar Machine

- Ergonomically designed for both operator and maintenance

Standard Solution

- Multiple heads can be fitted to allow multiple parts to be processed per cycle, giving quick cycle time per part
- Rear mounted indexer assemblies allow efficient monitoring and adjustable indexing of the film.

Standard Tooling Solution

- GBQ tooling feature is standard along with fool proofing
- GBQ shoes with both hard and soft shoes
- Machine is designed with tool change feature and operation to ease and reduce changeover time

Special Processes

- Utilize the GBQ Microfinishing process
- Reduction and removal of high and low frequency chatter
- Reduction and removal of profile waviness

Range of Application

The Worldstar 1140 was developed to allow processing of key features with production requirements as follows :

- Production rates of 500 JPH
- Remove effects of grind chatter
- Create a no-lead surface for oil seals

Options

- Up to 5 individual Microfinishing heads for processing multiple parts
- Automatic broken tape detection
- Through-feed solution along with part transfer

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Microfinishing Systems

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IMPCO. 3417 W. St. Joseph St., Lansing, MI 48917. USA

WWW.IMPCO.COM