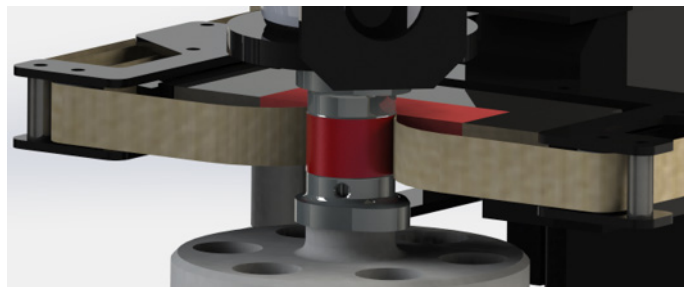


1040 - XT:XE

Vertical Microfinishing System

impcO
Microfinishing



MACHINE OVERVIEW

Machine Summary

- Flexible machine
- PLC or CNC controlled
- Vertical spindle machine
 - With or without tail stock
 - Tail stock adjustable for multiple part lengths
- Component drive solutions
 - ID or OD chuck drive
 - Pin or key drive
 - OD gear drive
- Maximum part length 550mm
- Maximum part diameters 100mm

Machine Services

- Manufactured to customer specifications

Automation Configuration

- Automated [XT] or manual load [XE]
- Internal rotary table (2-3 position)
- Internal gantry – dual gripper
- Infeed/outfeed conveyor
- Automatic door opening at end of cycle

Microfinishing Features

- Various part type Microfinishing
- Microfinishing levels – GBQ I or II
- Microfinishing main and oil seal diameters and faces
- Flat face Microfinishing

Microfinishing Components

- Base / balance shafts
- Carriers
- Pump gears
- Transmission shafts
- CV shafts
- Sun shafts
- Torque converters

Filtration System Available

- Coolant filtration, water or oil based

Flexible Machine Concept

- Quick changeover between part type
- Dry floor guarding

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1040 - XT:XE

Vertical Microfinishing System

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Worldstar Machine

- Ergonomically designed for both operator and maintenance

Standard Solution

- Standard Worldstar horizontal arm configuration incorporating IMPCO GBQ process
- Two vertical columns allowing multiple arm configuration
- Rear mounted indexer assemblies allow efficient monitoring and adjustable indexing of the film

Standard Tooling Solution

- GBQ tooling feature as standard along with fool proofing
- GBQ shoes with both hard and soft shoes

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 1040 was developed to allow processing of key features with production requirements as follows :

- Production rates of 200 JPH
- Remove effects of grind chatter
- Dramatically improve circular geometry
- Create a no-lead surface for oil seal option
- Rotary table allowing part processing while loading and unloading the component
- Thrust wall unit for processing faces
- Automatic broken tape detection

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Microfinishing Systems

ISO-9001:2015 CERTIFIED

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