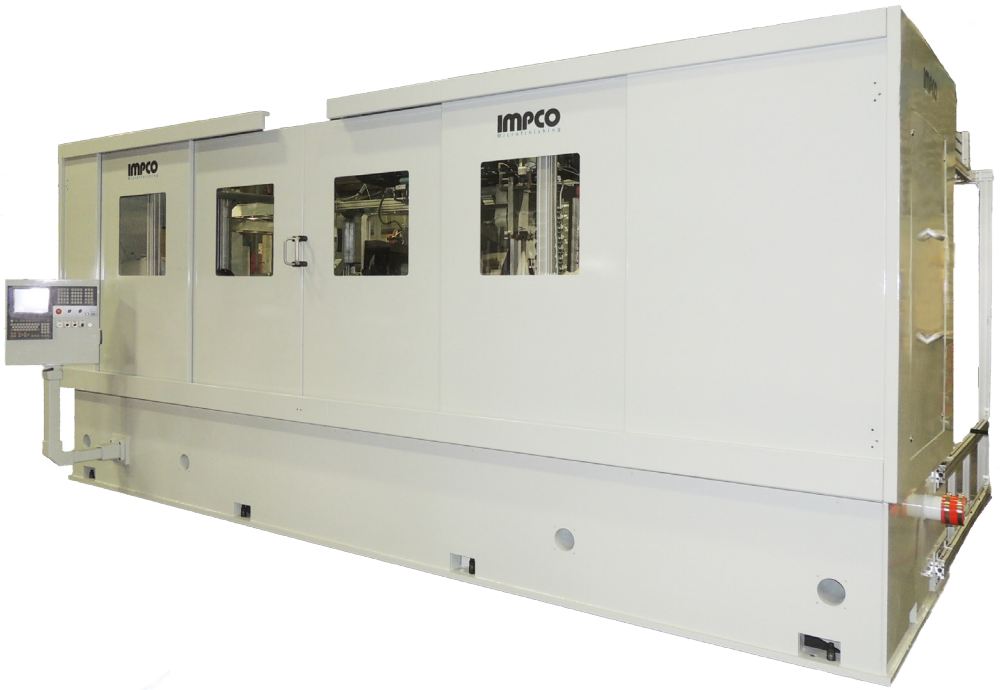
1240 - HD

Horizontal Microfinishing System

IMPCO Microfinishing



MACHINE OVERVIEW

Machine Summary

- Flexible machine
- PLC or CNC controlled
- Maximum part length 5000mm
- Maximum swing diameter 600mm
- Maximum crankshaft throw 150mm
- Minimum bearing C/L to C/L 57mm
- Maximum bearing diameter 150mm
- Maximum pin diameter 150mm

Machine Services

- Manufactured to customer specifications

Automation Configuration

- Heavy duty [HD]
  - Gantry load/unload
  - Manual load/unload

Microfinishing Features

- Various part type Microfinishing
- Microfinishing levels – GBQ I or II
- Microfinishing main, pin, oil seal and thrust wall features
- Individual arm control

Microfinishing Components

- Large Crankshafts

Filtration System Available

- Coolant filtration, water or oil based

Flexible Machine Concept

- Quick changeover between part type
- Dry floor guarding

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Worldstar Machine

- The heavy duty 1240 Microfinishing system will allow processing of parts in excess of 3,000kg
- Ergonomically designed for both operator and maintenance

Standard Solution

- Heavy duty Worldstar arm pack with rigid wear plates incorporating IMPCO GBQ process
- Arm pack configured to support low volume cycle
- 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
- 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
- Removal of ferrite caps on cast-iron workpieces
- Profile generation around oil hole edges

Range of Application

The Worldstar 1240 was developed by the customer for the customer. With global distribution, these machines support many off-road and rail applications.

The Original design scope for this product was for the processing of large rail and off-road crankshafts, with equipment that could accommodate the high mix and low production volumes required.

Our continuous development in this proven product has allowed IMPCO to generate a robust and reliable system that incorporates the latest process technologies.

IMPCO WORLDSTAR™ Microfinishing Systems

ISO-900I:2015 CERTIFIED

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