

# 1660 - XT:FXT

## Horizontal Microfinishing System

**IMPCO**  
Microfinishing



### MACHINE OVERVIEW

#### Machine Summary

- Flexible machine
- PLC or CNC controlled
- Easily changed to different part
- Maximum part length 760mm
- Maximum Microfinish length 635mm
- Maximum swing diameter 203mm
- Maximum crankshaft throw 65mm
- Maximum bearing C/L to C/L 38mm
- Maximum bearing diameter 76mm
- Maximum pin diameter 76mm

#### Machine Services

- Manufactured to customer specifications

#### Automation Configuration

- Automated [XT] or flexible automated [FXT]
  - Gantry load/unload
  - Manual load/unload

#### Microfinishing Features

- Automated arm pitch change
- Modular station design with 'zero' changeover solution
- Various part type Microfinishing
- Microfinishing levels – GBQ I, II or III
- Microfinishing main, pin, oil seal and thrust wall features
- Individual arm control

#### Microfinishing Components

- Crankshafts

#### Filtration System Available

- Coolant filtration, water or oil based

#### GBQ Microfinishing

- Quick changeover between part type
- Dry floor guarding

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### Worldstar Machine

- Modular design allows multiple standard bases to be configured into a solution
- Ergonomically designed for both operator and maintenance

### Standard Solution

- Standard Worldstar arm pack with rigid wear plates incorporating IMPCO GBQ process
- Arm pack configured to support cycle
- Front 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 1660 was developed by the customer for the customer and the global distribution of this product has meant over 50 million components that have been successfully produced.

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

The Worldstar 1660 has become the global reference for crankshaft Microfinishing.

**IMPCO**  
**WORLDSTAR**<sup>TM</sup>  
Microfinishing Systems

ISO-9001:2015 CERTIFIED