

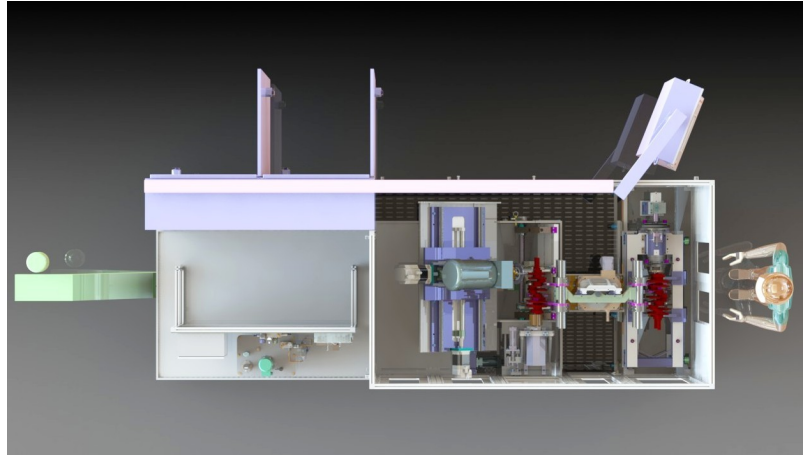
MP Balance Engineering

MicroPoise

A MicroPoise Measurement Systems, LLC Company

Two-Station Rotary Transfer Crankshaft Balancer

The Balance Engineering Two-Station Rotary Transfer crankshaft balancing machine is designed to balance crankshafts up to 600 mm in length with a maximum weight of 45 kg. This re-engineered offering features enhanced accessibility and maintainability unmatched in the industry. Best-in-class cycle times and throughput are achieved by utilizing proven process components in an efficient station layout, serviced by a robust rotary transfer system. Crankshaft loading is typically accomplished using an overhead gantry system.



Leadership in Balancing

Your Key Process Advantages

- Fast machine cycle time
- The industry's best process capability and repeatability
- Lowest cost of ownership through the system life cycle
- Utilizes MQL drilling process for ease of machining

Your Key Technical Advantages

- Design provides for ease of use and maintenance
- Design allows for simple installation and integration with other systems
- Ease of future retool/rework

Critical crankshaft balancing solutions from MicroPoise-Balance Engineering. A global leader in supplying Test and Measurement systems to various industries including Automotive, Heavy Equipment, Agriculture, Transportation, Power Generation and Aerospace.

Leadership in Balancing

Technical Specifications

Dimensions: 4700 mm x 1700mm x 2200mm

Weight: 4800 kg (Complete)

Load Height: 1065 mm

Loading Options: Automatic (Gantry) or Manual

Cycle Time: 39—63 sec. (Part Dependent)

Maximum Crankshaft Weight: 45 kg

Crankshaft Length: 300 mm to 600 mm

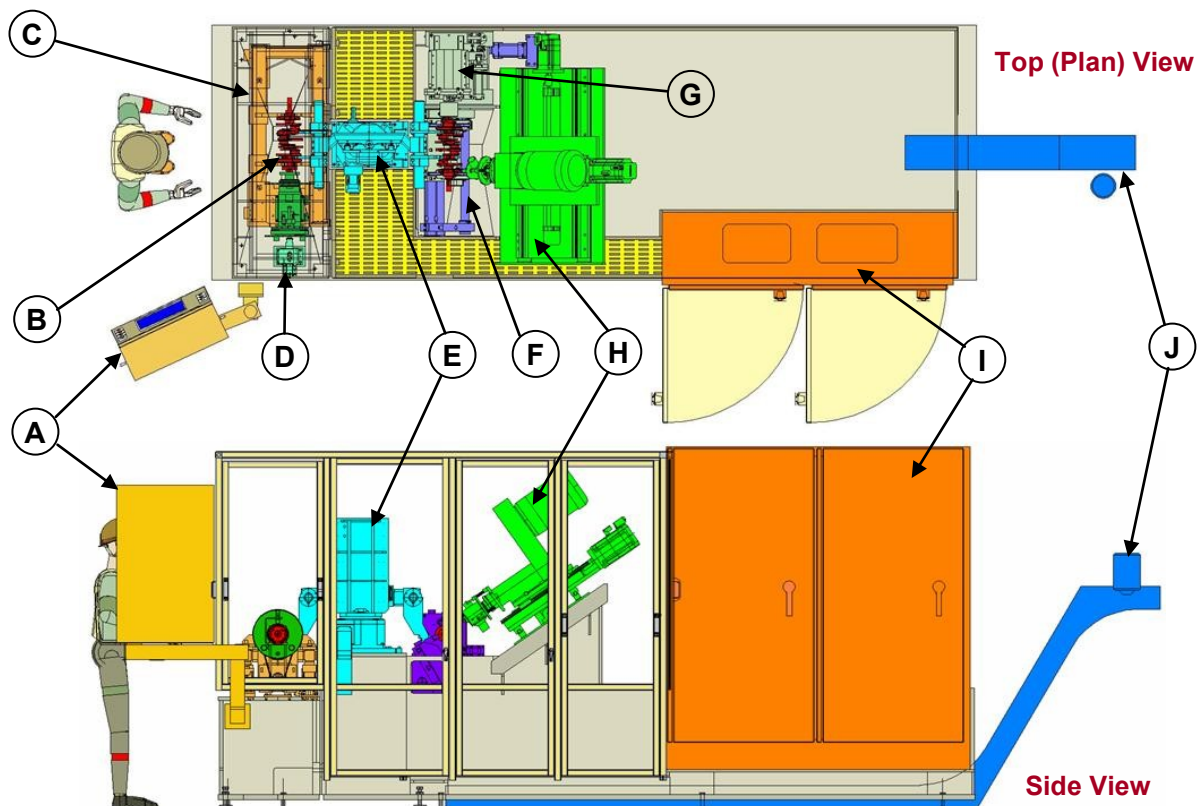
Drill Cross Slide Range: 450 mm

Drill Lubricant System: MQL

Power Requirements: Customer Specified

Electrical Standards: UL / IEC / JIC / CE

Balance Instrument: WinCBI



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|-----------------------------------|---|
| (A) - HMI / Balance Instrument | (F) - Part Clamping System (Correction Station) |
| (B) - Part (Crankshaft) | (G) - Part Indexing Motor (Correction Station) |
| (C) - Balance Measurement Cradle | (H) - Servo Drill System with Cross Slide |
| (D) - Part Drive Tooling Actuator | (I) - Main Electrical Panel (2-Door) |
| (E) - Rotary Part Transfer System | (J) - Chip Conveyor |