

6 AXIS FIXTURE

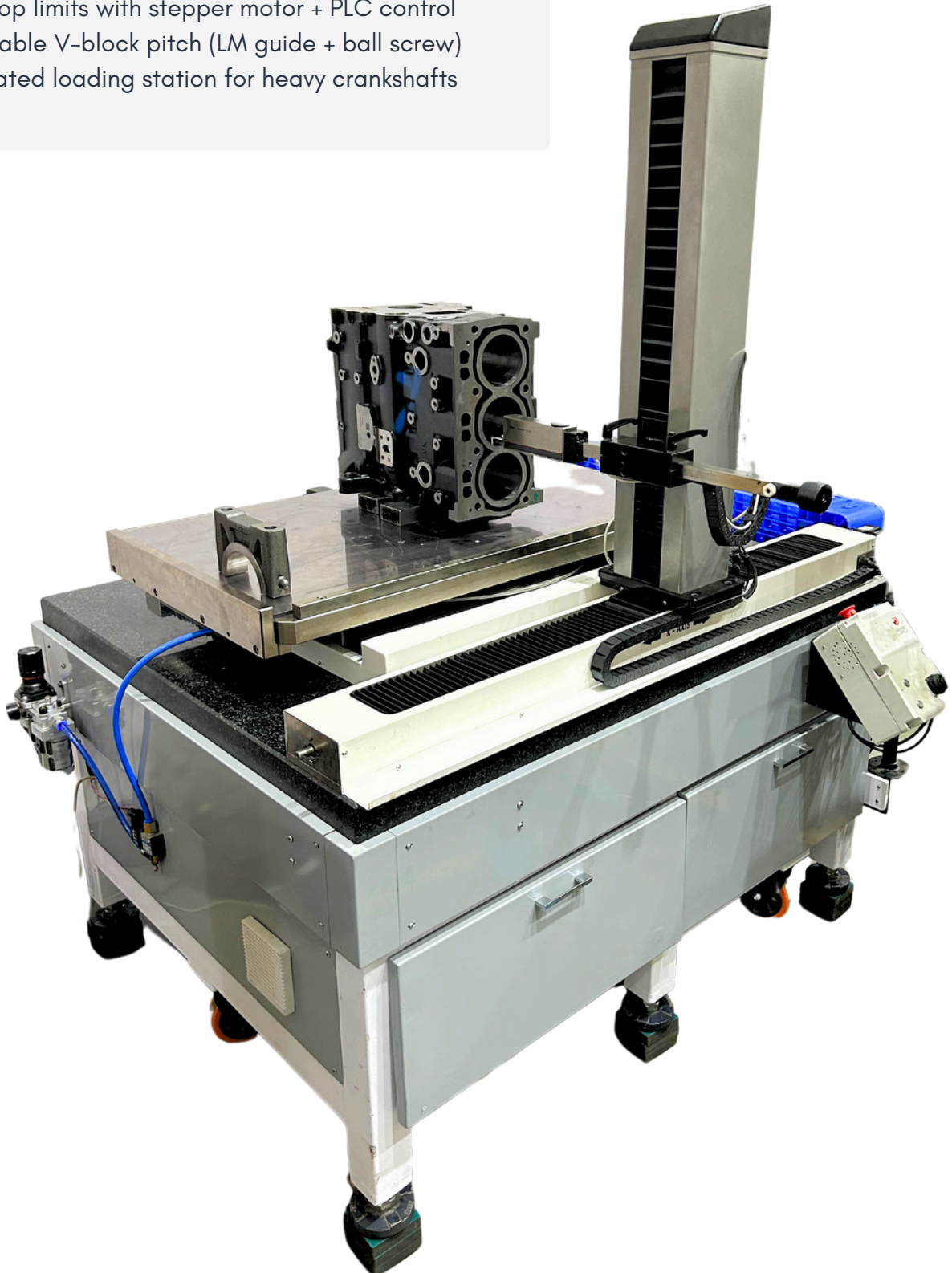
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135 - 6 AXIS FIXTURE

Key Specifications:

- Checks fillet radius on crankshaft pin and journal
- Handles maximum crankshaft length up to 1720 mm
- Motorized moving column with joystick control
- Digital display for precise position readout
- Anywhere zeroing, Inc/Abs measurement modes
- End stop limits with stepper motor + PLC control
- Adjustable V-block pitch (LM guide + ball screw)
- Integrated loading station for heavy crankshafts



135 - 6 AXIS FIXTURE

This machine is designed for precision measurement and machining applications with 6-axis movement capabilities. It is ideal for large-scale parts such as cylinder blocks in automotive manufacturing or similar industries requiring high precision and flexibility. The machine offers flexibility with pneumatic locking and manual slide locks for added safety and versatility.

Key Specifications:

6-Axis Movement:

- Type: 5-axis simultaneous movement.
- Purpose: Allows for multi-directional machining and accurate measurements in all angles.
- Movement: XYZ linear axes and rotational.



1. Rotation:

- Angle: 360° rotation.
- Locking Mechanism: Pneumatic lock for secure positioning and easy rotation during operations.
- Purpose: Enhances versatility by enabling access to all parts of the workpiece for measurement or machining.

2. Linear Axes:

- X-Axis:
 - Travel Length: 1000mm
 - Speed: 25mm/sec
 - Purpose: Provides lateral movement along the horizontal plane, allowing accurate position adjustments.
- Y-Axis:
 - Travel Length: 300mm
 - Slide Length: 250mm (with manual lock for secure positioning)
 - Purpose: Provides vertical adjustments to ensure accurate alignment with workpieces.
- Z-Axis:
 - Travel Length: 600mm
 - Purpose: Provides vertical movement for precise positioning in the machining or measuring process.

3. Manual Lock for Y-Axis Slide:

- Type: Manual lock for securing the Y-axis slide at a desired position.
- Purpose: Ensures precise and safe positioning of the Y-axis slide during operation, reducing the risk of undesired movement.

4. Pneumatic Lock:

- Function: Pneumatic lock for securing rotational and sliding axes in place when not in use, ensuring stability and safety.

X AXIS	Z AXIS	Y AXIS	XYZ AXIS SPEED	Y AXIS SLIDE
1000mm	600mm	300mm	25mm/sec	250mm with manual lock

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