

TECHNICAL BULLETIN

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BALL VALVE APPLICATION STUDY: LSA 8-200



Application / Part Family Details:

- Part:** Ball Valve Body
- Size:** 2.5" x 1.75" x 1.5"
- Cycle Time:** 12 - 25 Seconds
Depending on Material
- Material Types:** Brass, Stainless Steel, Carbon Steel, Nodular Iron



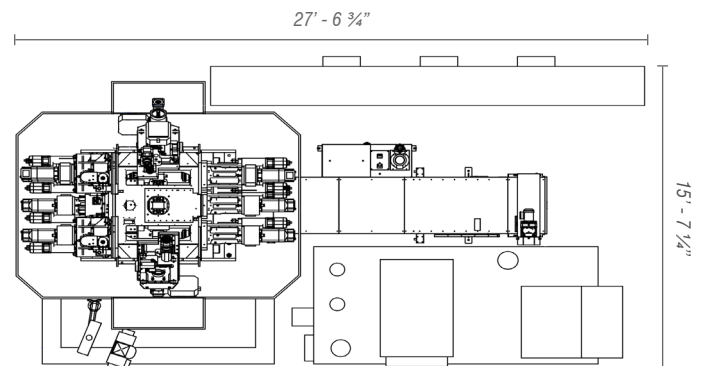
Multi-Way Production Cell for 3-Sided Machining In One Clamping

- CNC controlled units for flexible machining
- Free chips fall with rear or lateral evacuation
- Closed, stable double-wall welded machine frame
- Extremely high thermic stability rigid frame construction
- Easily accessible working area
- Modular construction with different machining units
- Compact trunnion transfer machine
- Limited floor space requirements
- Cycle-time independent loading and unloading
- Rotary transfer unit with counter support
- Simultaneous machining with up to 19 machining units



LSA 8-200 Machine Specifications

- Work Envelope:** 150mm x 100mm x 125mm
- Machining Stations:** 7
- Max Stations:** Horizontal 14 | Radial 5
- Fixtures:** 2-Jaw Chucks or Custom
- Table Index Time:** 1.5 seconds with 50 kg Fixture Weight



HYDROMAT INC. • ADVANCED MACHINING SOLUTIONS



FANUC 30i A Control

The LSA 8-200 is equipped with a Fanuc 30i-Model A featuring an Integrated Ladder III PLC control. The control allows communication via internal network and the internet, with remote service by our technicians to assist and evaluate to resolve any issues.

Left: LSA 8-200 with FANUC 30i Model A Control

Ball Screw Technology

The 3-axis modules feature 20m/mm single lead ball screw assemblies, with the Z-Axis having a 180mm stroke while the X-Axis and Z-Axis both featuring a 60mm stroke each.

The feed rate is 0 to 20,000 mm/min with a rapid feed rate of 20,000 mm/min. The LSA modules feature size 35 preloaded linear monorail guides.

This powerful system yields a maximum feed force of 7000N, yet holds an impressive position accuracy of TP 0.007mm.



Additional LSA 8-200 Sample Applications

