

flexLoad Automation System

A highly productive part-loading solution
for automated cylindrical grinding



Key data

Developed by UNITED GRINDING Automation Solutions, the flexLoad automation system is a portal-style part loader/unloader with dual grippers designed for compatibility with numerous STUDER O.D. and I.D. cylindrical grinding machines. The loader system is suitable for shaft-style components up to 300 mm in length and between 4 mm and 75 mm in diameter.

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Boost Grinding Productivity With Fully Integrated Automation Design

- Dedicated side-door access for both O.D. and I.D. systems.
- Standard coolant drip pans, dual pneumatic grippers and integrated end-of-arm tooling/sensors, plus additional options.

Keep Operations Running Smoothly With Advanced Safety Features

- Drawers, panels and doors are interconnected, only unlocking with operator permission.
- Flanged side door between machine and robot prevents operator injury.

See Big Results From Your Automation Investment

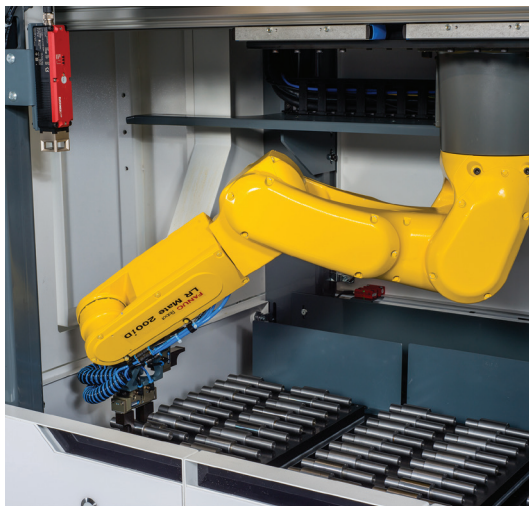
- Save more than \$1.5 million in labor costs and nearly \$500,000 in recovered productivity over 15 years.

Hardware

- Fully integrated FANUC LR Mate 200iD 6-axis robot
- Sheet metal and Lexan enclosure with dedicated side-door access
- Three tray/loading drawers for longer unmanned operation and SPC
- Optional part/fixture blow-off nozzles
- Designed for STUDER models, including S31, S33, S41, S110, S120, S121 and S122
- Operation and control via FANUC R-30iB Mate controller

Dimensions

- | | |
|------------------------------------|---|
| • Max. part length: 11.8" (300 mm) | • Min. grip diameter: 0.16" (4 mm) |
| • Min. part length: 0.8" (20 mm) | • Max. workpiece weight: 11 lbs (5 kg) |
| • Max. grip diameter: 3.0" (75 mm) | • Footprint: 58" x 40" (1,480 v 1,000 mm) |



For more information, visit grinding.com/automation

