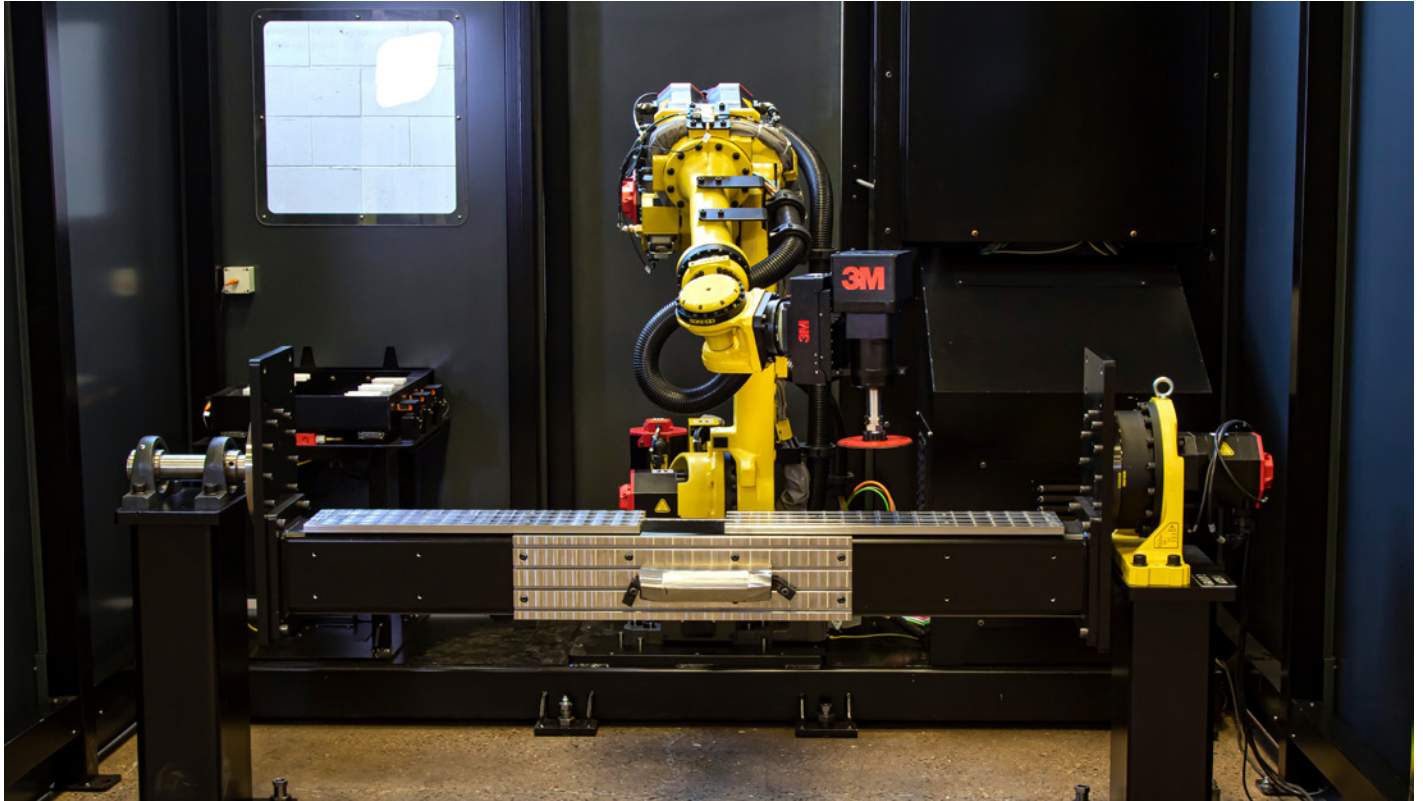


FAB-PAK® OMNICLEAN™ GRINDING CELL 3HP & 5HP

A complete robotic grinding cell



The First Turn-Key Solution For Automated Grinding

Automating your weld grinding process is now easier than ever. Meet the complete all-in-one robotic grinding cell: Fab-Pak® OmniClean™. The Fab-Pak OmniClean cell comes pre-engineered to automate and optimize your grinding and pre- and post-weld prep applications without the added time and expense of a custom-built cell.

Automate with the Fab-Pak OmniClean grinding system and take advantage of Lincoln Electric Automation's robotic integration expertise along with world-class 3M™ abrasives and application engineering support.

The Fab-Pak OmniClean grinding cell comes packaged with everything you need to get started with automated material removal. The Fab-Pak Omniclean grinding system is equipped with either a 3HP or 5HP 3M Servo Rotary Tool to accommodate your grinding needs. The headstock/ tailstock system includes Fanuc® robot equipped with a 3M Servo Rotary Tool and 3M Active Compliant Tool. These components optimize the performance of the included 3M Abrasives to boost productivity and part consistency.

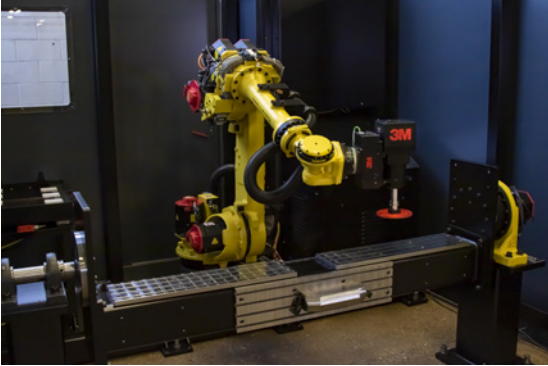
Ideal For »

- » Metal Fabrication
 - » General Fabrication
 - » Low-Mix, High-Volume job shop industries.
- Weld grinding is the removal of excess stock from the weld itself- a process that often results in ergonomic strain on the worker, slower production as well as grinding results that vary.

Benefits »

- » Ideal for grinding small to medium-sized parts
- » Minimal installation
- » Improves productivity, quality and safety
- » Consistent, Ideal Weld Results
- » Integrated safety measures
- » Everything needed to grind parts robotically
- » Single base design for easy installation and setup
- » Fully Integrated Active Compliance Software

WHAT'S INCLUDED



Minimal Installation

The Fab-Pak OmniClean grinding cell has a single base design for easy installation and setup. Obtain higher levels of quality and safety with the fully integrated active compliance software and integrated safety features of the Fab-Pak OmniClean grinding cell.

Built-in Active Compliance

An in-line 3M Active Compliant Tool ensures the robot applies the right amount of force for optimal grinding performance in your specific application.



Rotary Tool

The system's electric 3M Servo Rotary Tool ensures consistent speed at varying force loads and features built-in tool changing functionality.

3M Abrasives Starter Pack

Choose from premium 3M Cubitron™ II Fibre Discs and Scotch-Brite™ Surface Conditioning Discs designed to quickly remove and clean welds.



Media Change Drawer

Store your discs in the media change drawer so that everything you need to robotically grind parts within reach.

Application Engineering Support

This all-in-one solution includes application support from robotics experts at 3M and Lincoln Electric Automation — ensuring you achieve the many benefits of automation.

SYSTEM OPTIONS

- » Integrated Media Change Drawer
- » FANUC Headstock Positioner

PRODUCT SPECIFICATIONS

Product Name	Product Number	System Dimensions L x W x H – in (mm)	Fixed Table Work Envelope in (mm)	Repeatability in (mm)	Arm Reach in (mm)	Payload lbs (kg)
Fab-Pak OmniClean Grinding Cell 5HP	AD2479-2	4500 x 3400 x 4500	2000 x 1000	+/- .03mm	2032 mm	1500 (3300)
Fab-Pak OmniClean Grinding Cell 3HP	AD2479-1					

PRODUCT SPECIFICATIONS

Product Name	System Dimensions L x W x H – in (mm)	Max Force lbs (N)	Force Accuracy lbs (N)	Compliant Stroke in (mm)	Max Payload lbs (kg)
3M Active Compliant Tool – PN06530	248.9 x 149.9 x 106.3	60 (267)	±0.2 (±1.0)*	0.8 (20)	60 (27.2)

PRODUCT SPECIFICATIONS

Product Name	Weight lbs (kg)	Tool Power hp (kW)	Tool Continuous Stall Torque lbs-ft (Nm)	Tool Speed Range RPM	Tool Cooling	Collet Required Toolholder	Collet Retention Knob	Collet Clamping Supply Air:
3M Servo Rotary Tool – 3HP, 13,300 RPM, PN06531	28 (12.7)	3.0 (2.2)	2.57 (3.5)	60–13,300	Liquid	BT30	Parlec 3003TRK or equivalent	Dry, Non-lubricated 90 psi (6.2 bar) Minimum 100 psi (6.9 bar) Maximum
3M Servo Rotary Tool – 5HP, 6,000 RPM, PN06532	30 (13.6)	5.0 (3.8)	5.6 (7.6)*	60–6,000, ±5%				

Specifications subject to change without notice. These values are based on measurements taken in a laboratory environment. Real-world results may vary due to external factors beyond 3M's control

CUSTOMER ASSISTANCE POLICY

The business of Lincoln Electric is manufacturing and selling high quality welding equipment, automated welding systems, consumables, and cutting equipment. Our challenge is to meet the needs of our customers, who are experts in their fields, and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or technical information about their use of our products. Our employees respond to inquiries to the best of their ability based on information and specifications provided to them by the customers and the knowledge they may have concerning the application. Our employees, however, are not in a position to verify the information provided or to evaluate the engineering requirements for the particular weldment, or to provide engineering advice in relation to a specific situation. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or communications. Moreover, the provision of such information or technical information does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or technical information, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose or any other equivalent or similar warranty is specifically disclaimed.

Lincoln Electric is a responsive manufacturer, but the definition of specifications, and the selection and use of specific products sold by Lincoln Electric is solely within the control of, and remains the sole responsibility of the customer. Many variables beyond the control of Lincoln Electric affect the results obtained in applying these types of fabrication methods and service requirements.

THE ONLY SINGLE-SOURCE AUTOMATION PROVIDER

Lincoln Electric Automation™ has built a solutions portfolio to include all of the competencies to support your need to improve productivity, quality and safety. Lincoln Electric Automation can modify or completely customize the creation of your weld cell to meet those precise needs.

With a global network of facilities and people, you'll get quick response and personalized attention. Contact us for more information on the types of solutions available to help you produce faster, more repeatable, higher quality results.