

CLCS FlexFast™ Lite

The smart fastener welding solution.

The CenterLine CLCS FlexFast™ Lite configured stationary welder is a compact, versatile, welding machine designed for production fastener welding applications.

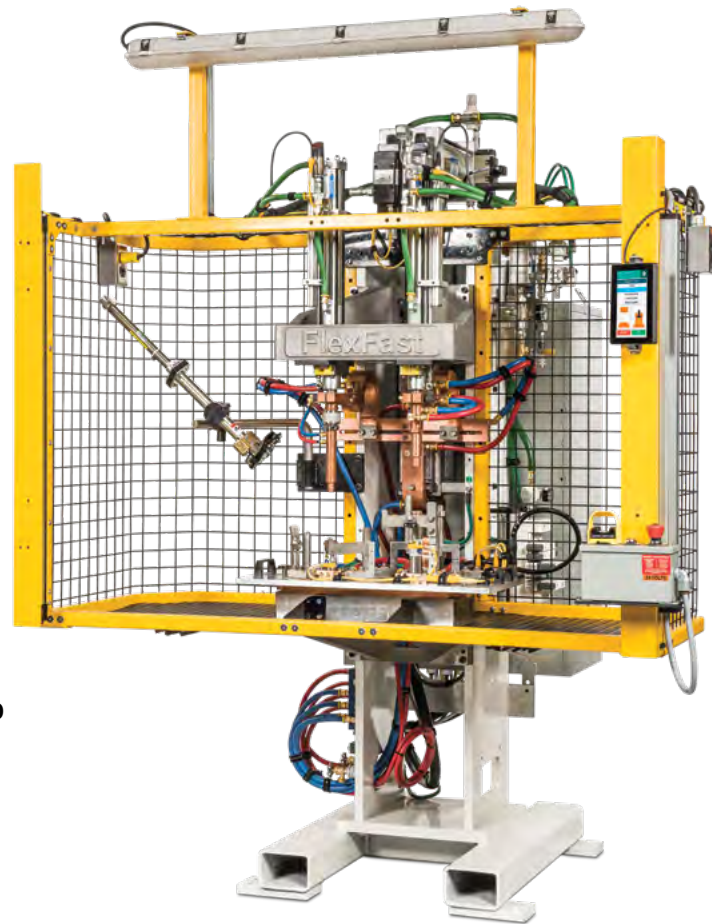
This design includes many standard features that ensure the FlexFast Lite produces consistent weld quality, is easily operated, and has minimal maintenance requirements.

The CLCS FlexFast™ Lite offers:

- ▶ Exceptional part quality at a competitive cost
- ▶ Solid construction, capable of welding fasteners up to 13.3kN (3000 lbs) weld force
- ▶ Ability to weld up to M10 sized fasteners - application/fastener dependent
- ▶ One (1) or two (2) OHMA™ air/oil weld actuator(s) with configurable fixed spacing
 - Low impact, “soft-touch” operation to minimize electrode wear, deflection and part deformation. This promotes higher quality welding and lower maintenance needs.
 - Four schedules available per cylinder
 - Accurate control over weld forces over a wide range of air pressure settings
- ▶ Interchangeable lower tooling enables rapid changeover for multi-application needs

CLCS HMI Features

- Reduced cost compared to a PLC and standard HMI while maintaining high quality and safety
- Wi-Fi “over-the-air” updates for firmware, if required
- No PLC programming required, equipped with controller and HMI pre-programmed functionality
- No software license fees required
- Upper and lower electrode weld counters for maintenance notifications
- Weld control, with discrete interface
- Dynamic high resolution touch screen
- Discrete control of up-to 2 feeders
- Active in-process weld monitoring

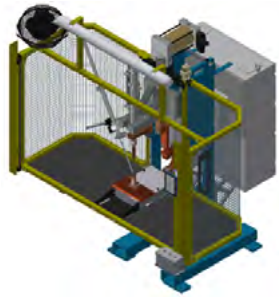



Model W with Two (2) OHMA™ Cylinders



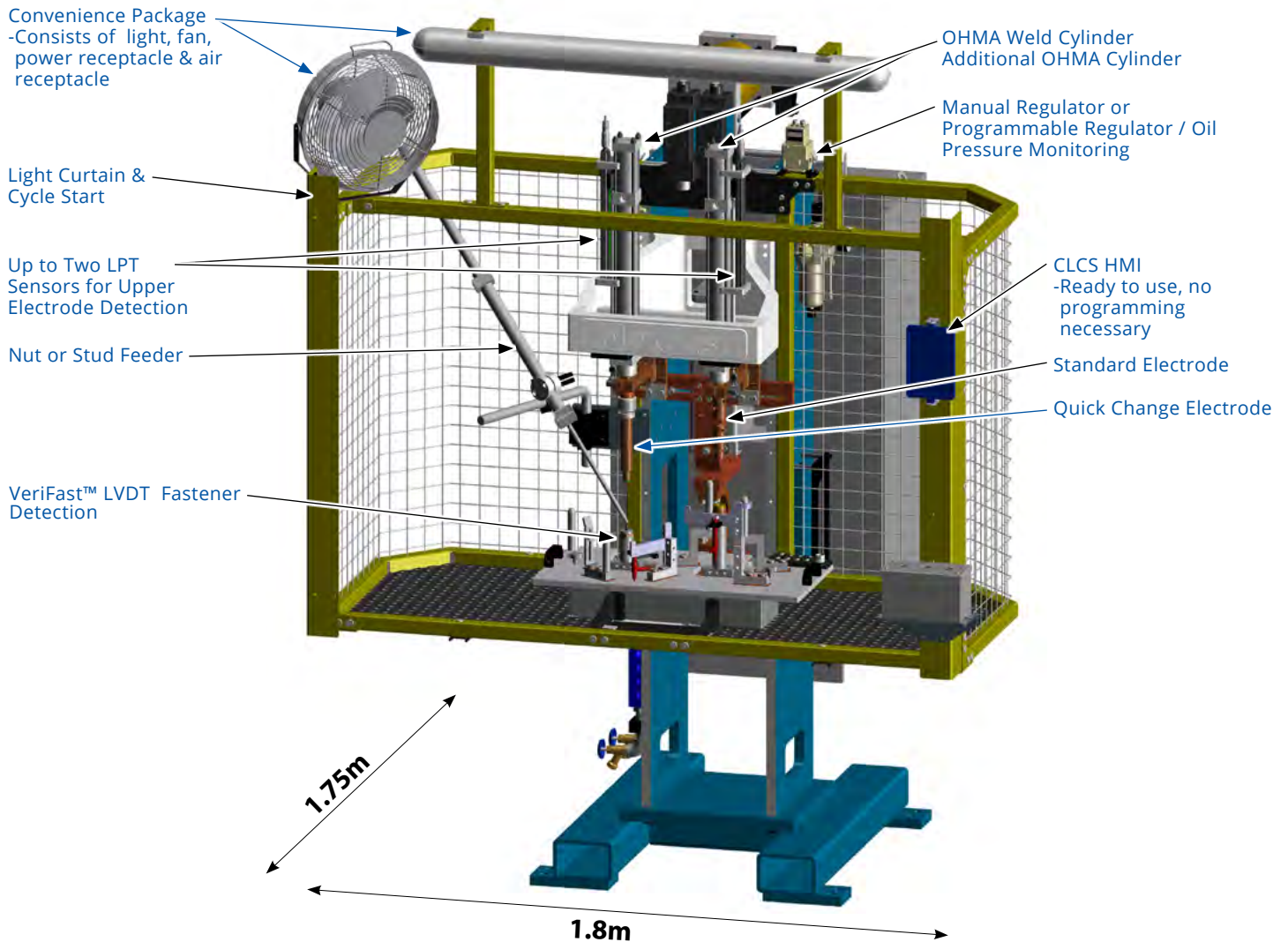
Simple Standardized Operator Interface

CLCS FlexFast™ Lite Models

	Model N	Model W	
			
	Narrow – Upper arm and lower knee with 152mm x 300mm tooling platen	Wide – Upper arm and lower knee with 152mm x 460mm tooling platen	
Standard	One (1) OHMA™ weld cylinder with LPT and manual regulator and air pressure switch		
	One (1) VeriFast™ LVDT weld body, upper barrel adapter		
	100 KVA MFDC weld transformer, 400 amp WTC weld control (Bosch optional)		
	CLCS Controller, offers control of the machine sequence and up to two feeders, four (4) schedules available per cylinder, upper and lower electrode weld counters for maintenance notifications		
	CLCS controller also includes LVDT, LPT programming (similar to MicroView™)		
	Water saver and flow monitoring		
	Full guarding and 900 mm light curtain		
Add Ons	160 KVA MFDC Weld Transformer		
	<ul style="list-style-type: none"> • Transformer mounting plate, spacer block and associated hardware 		
	600 Amp, 460vac or 800 Amp, 575vac WTC MFDC Resistance Weld Control		
	<ul style="list-style-type: none"> • Weld control panel with integrated CLCS controller and associated hardware • Bosch weld control optional 		
	Model N Narrow upper arm available with one OHMA™ Cylinder only	Second OHMA™ Cylinder	
		<ul style="list-style-type: none"> • OHMA™ cylinder and control valves, safety valve, manual regulator • LPT and LVDT weld body (Signal Conditioners are part of the CLCS) • Upper barrel adapter, shunt adapters and related copper 	
	Quick Change Upper Adapters		
	<ul style="list-style-type: none"> • QC Upper adapter set • Added water flow switch to confirm connections are made after changeover 		
	Oil Pressure Monitoring and Programmable Regulator		
	<ul style="list-style-type: none"> • Programmable regulator controlled by the CLCS • Weld force monitoring of intensification fluid pressure of OHMA™ Cylinder 		
120 V Transformer for Fastener Feeder Power			
<ul style="list-style-type: none"> • 3 KVA transformer and all related fusing and terminals 			
Operator Convenience Package (must include Feeder Power above)			
<ul style="list-style-type: none"> • Overhead LED lighting package with switch receptacle • Operator fan with switch 			

Contact us today to request a quote on the CLCS FlexFast™ Lite.

Standard & Optional Features



Model W with Two (2) OHMA™ Cylinders

Available Options

- Second OHMA Cylinder with LPT & VeriFast LVDT for Model W
- Weld force monitoring switch with programmable regulator
- 120 V Service Package for Feeder Power
 - Convenience Package - requires 120 V Service (Lights, Fan, Electric Receptacle, Air Receptacle)
- Quick Change Electrode, includes additional water flow sensor

FlexFast™ Models Overview

	CLCS FlexFast Lite	FlexFast Standard	FlexFast HD	FlexFast HD Window
Actuator Options	OHMA Air/Oil (single or dual)	OHMA Air/Oil (single, dual or triple), Servo, Pneumatic	OHMA Air/Oil (1-8 cylinders), Servo, Pneumatic	OHMA Air/Oil (1-8 cylinders), Servo, Pneumatic
Fixed Weld Actuators (Manual Position Adjustment)	2 maximum	4 maximum	8 maximum	8 maximum
Programmable Weld Positioner	Not Available	2 max., 300mm travel/each (side-to-side)	4 max., 300mm travel/each (side-to-side)	4 max., 300mm travel/each (side-to-side)
Maximum Welding Force	13.3kN (3,000lbs)	35.6kN (8,000lbs)	70kN (16,000lbs)	70kN (16,000lbs)
Max. Tooling Platen Size (width and depth)	152mm x 460mm	225mm x 500mm	225mm x 800mm 225mm x 1,400mm	225mm x 800mm or 225mm x 1,400mm
Working Envelope	400mm wide Lower platen fixed	200mm x 400mm	200mm x 1,400mm	200mm x 800mm or 200mm x 1,400mm
Throat Depth	320mm or 600mm (12.6" or 23.6")	410mm (16.1")	410mm (16.1")	Unlimited
Throat Height Range (Barrel to Platen)	421mm (16.6")	402mm (15.8")	402mm (15.8")	466mm (18.3")
Interchangeable Tooling Platen Automatic "Locate & Lock"	Interchangeable tooling, fixed lower electrodes	Fixed or 200mm programmable (front-to-back)	Fixed or 200mm programmable (front-to-back)	Fixed or 200mm programmable (front-to-back)
Transformers	MFDC: Size 2, 3, 4	MFDC: Size 2, 3, 4, 6	MFDC: Size 2, 3, 4, 6	MFDC: Size 2, 3, 4, 6
Dual Station Machine	Not Available	Any combination of the FlexFast Standard, FlexFast HD and FlexFast HD Window	Any combination of the FlexFast Standard, FlexFast HD and FlexFast HD Window	Any combination of the FlexFast Standard, FlexFast HD and FlexFast HD Window

