

GLOBAL INDUSTRY CHALLENGES



Skills Shortage

Across many industries, finding skilled welders is a challenge.

Quality

- Quality components require more and more control.
- Welded parts require welders qualified for the job.





Health and Safety

- Repetitive tasks increasing musculoskeletal disorders.
- Keep qualified personal comfortable.
- Fume level exposure, remove the welder away from the torch.

Cost

- High-mix, low-volume shops struggle to justify automation investments.
- Wrong impression of Automation cost.
- Very large parts require too much investment, floor space.



LINC-COBOT SERIESTHE RANGE SOLUTIONS



LINC-COBOT SERIES / ROBOTIZE WITH EASE

Intuitive Programming



Intelligent Torch System

Guide the cobot into the correct position by hand, using the torch-mounted enabling device.



Icon-base

Tablet teach pendant, featuring icon-based, timeline programming, reduces the learning curve. Simply swipe icons in the timeline. Including the Lincoln Arc Welding Plug-in.



Record points directly at the torch, reducing the cumbersome part of programming. The push-button interface, designed directly into the torch, allows the operator to record approach and weld start/end points, as well as change robot motion.

Versatility

Mobile and adaptable

Easily deployed and programmed to weld in minutes. You can quickly automate tasks for improved productivity and throughput. Choose your Cart or Platform version to perfectly fit to your job.

Safe and reliable cobot



Highest Safety

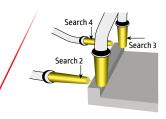
Truly Collaborative
Environment thanks to Cobot
the design and its intelligent
contact-sensing technology
allowing the Linc-Cobot
to safely work side-by-side
with welding operator.



Maintenance free

Reliability is everything.
The Cobot is designed for eight years ZERO maintenance on motors, reducers, sensors, cables, and grease — delivering peace of mind, you can trust.

Advance software options



Touch Sensing

Re localise your part to ensure the correct wire placement.



Multi-Pass

Simplify programming of multi-pass welding sequencing, thanks to an ergonomic menu.



Seam tracking

Through Arc Seam Tracking (TAST) will track weld joints. Adjusting torch position laterally and vertically.

LINC-COBOT CART / COMPACT SOLUTION

LINC-COBOT CART

- Fanuc CRX 10iA/L with Tablet-Based TP
- Integrated Push-button Torch Control
- Power Wave® R450 Robotic Power Source
- AutoDrive® 4R100 Wire Feeder
- Robotic torch
- Coolarc 26

 (for cooling package)

- Plug & Play single power input
- Fixed Welding Table
- Heavy Duty Casters
- Stabilizing Kickstand
- Utility Drawer & Tablet Tray
- Arc visual protection





	Water Cooled			Air Cooled	
	LE550	BW500	FX500	LE550	
Steel / Stainless	✓		✓		
Aluminium	Х	✓	Х	Х	
Fume extraction	Х	Х	✓	Х	
Application	Intensive - 450A@100%		Conventionnal - 300A@100%		
Cart weight	500 Kg			470 Kg	
Cart dimension	1672 x 800 mm				
Cart payload	226 Kg				
Optional table dimension	800 x 800 mm				
Optional table weight	120 Kg				

Optional system

- Software pack Touch sensing + Multi-pass + Seam tracking
- Tooling H28 Table 800 x 800 x 25 mm
- MOBIFILTER Fume Extractor for conventional gun*
- Linc-Extractor for fume extraction gun*

To order	AIR LE550	WATER LE550	WATER BW500	WATER FX500
Cart alone	AS-RM-2461-3	AS-RM-91506460	AS-RM-91506096	AS-RM-91506098
Cart + Software Pack	AS-RM-91506401	AS-RM-91506461	AS-RM-91506421	AS-RM-91506441
Cart + Table	AS-RM-91506402	AS-RM-91506462	AS-RM-91506422	AS-RM-91506442
Cart + Table + Software Pack	AS-RM-91506403	AS-RM-91506463	AS-RM-91506423	AS-RM-91506443



Fume Extraction performance will depen on final application and working environment. For operators'safety but also for the protection of the environment, user has to collect and filter welding fumes. Consult us to see the possible options.

LINC-COBOT PLATFORM / CUSTOMIZE YOUR TOOL

LINC-COBOT PLATFORM

- Fanuc CRX 10iA/L with Tablet-Based TP
- Integrated Push-button Torch Control
- Power Wave® R450 Robotic Power Source
- Wire Feeder AutoDrive® 4R100 [4R220 for HYPERFILL™]
- Robotic torch
- Coolarc 50 (for cooling package)
- Ethernet Hub
- Plug & Play single power input
- Utility Drawer & Tablet Tray
- Arc visual protection

Adaptation to your job



Using your table or Tooling.



	Water Cooled				Air Cooled
	LE550	BW500	FX500	HYPERFILL™	LE550
Steel/Stainless	√			1	
Aluminium	Х	1	Х	Х	X
Fume extraction	X	X	1	X	Х
Application	Intensive - 450Δ(α)100%				Conventionnal 300A@100%
Weight	670 Kg 710 Kg			640 Kg	
Dimension	1480 x 1000 mm				

Mobile









Open working zone for more flexibility

AIR LE550

AS-RM-91506100

AS-RM-91506501

AS-RM-91506502

AS-RM-91506503

Plug and Play platform with air or water cooled torch, conventional or fume extraction. Free zone in front of Linc-cobot to customize your welding zone.

Optional system

- Advance Module
- Software pack Touch sensing + Multi-pass + Seam tracking

To order

+ Software Pack

+ Advance Module

+ Software Pack

Platform

Platform

Platform

Platform + Advance Module

- MOBIFILTER Fume Extractor for conventional gun*
- Linc-Extractor for fume extraction gun*

WATER LESSO

AS-RM-91506560

AS-RM-91506561

AS-RM-91506562

AS-RM-91506563



AS-RM-91506543

AS-RM-91506583

For operators's afety but also for the protection of the environment, user has to collect and filter welding fumes. Consult us to see the possible options.

AS-RM-91506523

^{*}Fume Extraction performance will depend on final application and working environment.

HIGH PERFORMANCE WELDING SYSTEM PROVEN PERFORMANCES

Welding system

- 450A at 100% duty cycle
- Output range: 5-500A



Proven performance in the industry, the Power Wave® range is offering the industry leading 5 Year Standard Warranty.

Gun range

Semi-Automatic MIG welding gun, designed to tackle high-heat applications.





Power Wave® R450 is interfaced with the Linc-Cobot Teach Pendant Tablet, giving access to the complete process control platform.



Magnu	m PRO	W500	FX500	
	Conventional		Fume extraction	
300A@100%	500A@100%			
Air Cooled	Water cooled			
Steel / Stainless		Steel / Stainless Aluminium	Steel / Stainless	
0.8 - 1.2 mm	HYPERFILL™	PERFILL™ 0.8 - 1.6 mm		



Robotic feeder

4R100 For Single wire 4R220 For HYPERFILL™

- Powerful wire feeders
- MAXTRAC® 4-roll drive system
- Precise speed control

Power Wave® Advance module

Available on Linc-Cobot Platform, giving aopportunity to expand welding capabilities.

Ideal for: Adding
AC polarity, STT®



Cooling system

Efficient cooling system.

COOLARC 26 for Linc-Cobot Cart.

COOLARC 50 for Linc-Cobot Platform.



OPTIMIZE YOUR ARC PERFORMANCE THE RIGHT PROCESS FOR ANY APPLICATION

Beyond conventional CV or Pulsed modes, Power Wave® R450 integrates unique process.

Power Wave® R450

RapidArc® Maximizing weld travel speeds

- Industry's premier waveform for high-speed welding
- Increase travel speeds by 50%
- Reduce spatter by 15%



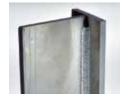
Precision Pulse™

Pulse performance for jobs demanding flexibility

- over standard pulse Enhanced puddle control for
- improved operator confidence

• Improved out of positon welds

- Controlled heat input
- Improves welds in tight joints



Pulse-on-Pulse®

TIG appearance. MIG productivity



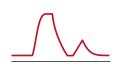
- Excellent heat input control especially on thin materials (less than 7 mm thick)
- Eliminates in-line weaving
- Improve operator appeal for any skill level
- Use when appearance and productivity matter using aluminium



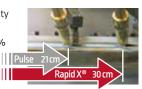
With Advance module

Rapid X®

High speed, low spatter, low heat input, no trade-offs



- Revolutionises the productivity of welding
- Increase travel speeds by 40%
- Reduce spatter by 30%

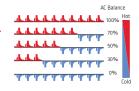


AC-STT™

STEEL

ALUMINIUM

Industry's superior thin gauge solution



- Proven STT® waveform with controlled AC balance
- Excellent heat-input control
- No burn through, no spatter



STT®

Industry proven root pass solution



- Simplify open root welding for any operator skill level
- Eliminates common burnthrough & lack of fusion issues.
- Larger bead, flat face, perfect



back bead, excellent fusion

AC Aluminium Pulse

Improved Aluminium productivity and quality

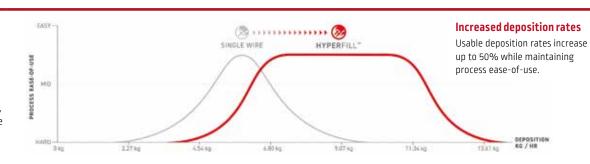


- Increase travel speeds by 40%
- Increase deposition by 75%
- Improves gap bridging capabilities
- Decrease burn-through



HYPERFILL™

Bigger welds Faster, easier HYPERFILL™ redefines high deposition welding, making larger welds, faster and more easily. The HYPERFILL™ twin-wire MIG solution revolutionizethe heavy fabrication productivity, pushing the limits of the single wire without changing.





STEEL &
STAINLESS STEEL

ALUMINIUM



ARC FACILITIESApplication Resource Centers

Application Resource Centers, also known as ARC facilities, house Lincoln Electric's latest technologies and professionals, who help develop and deliver productivity solutions that create new opportunities for our current and future customers.

ARC facilities include dedicated spaces and equipment to demonstrate and test welding, cutting, virtual welding, and automation solutions. In addition, each ARC includes classroom areas for instruction on the processes, machines and consumables solutions available to them.



REQUEST A DEMO