

# INFINITY WIRE SYSTEM



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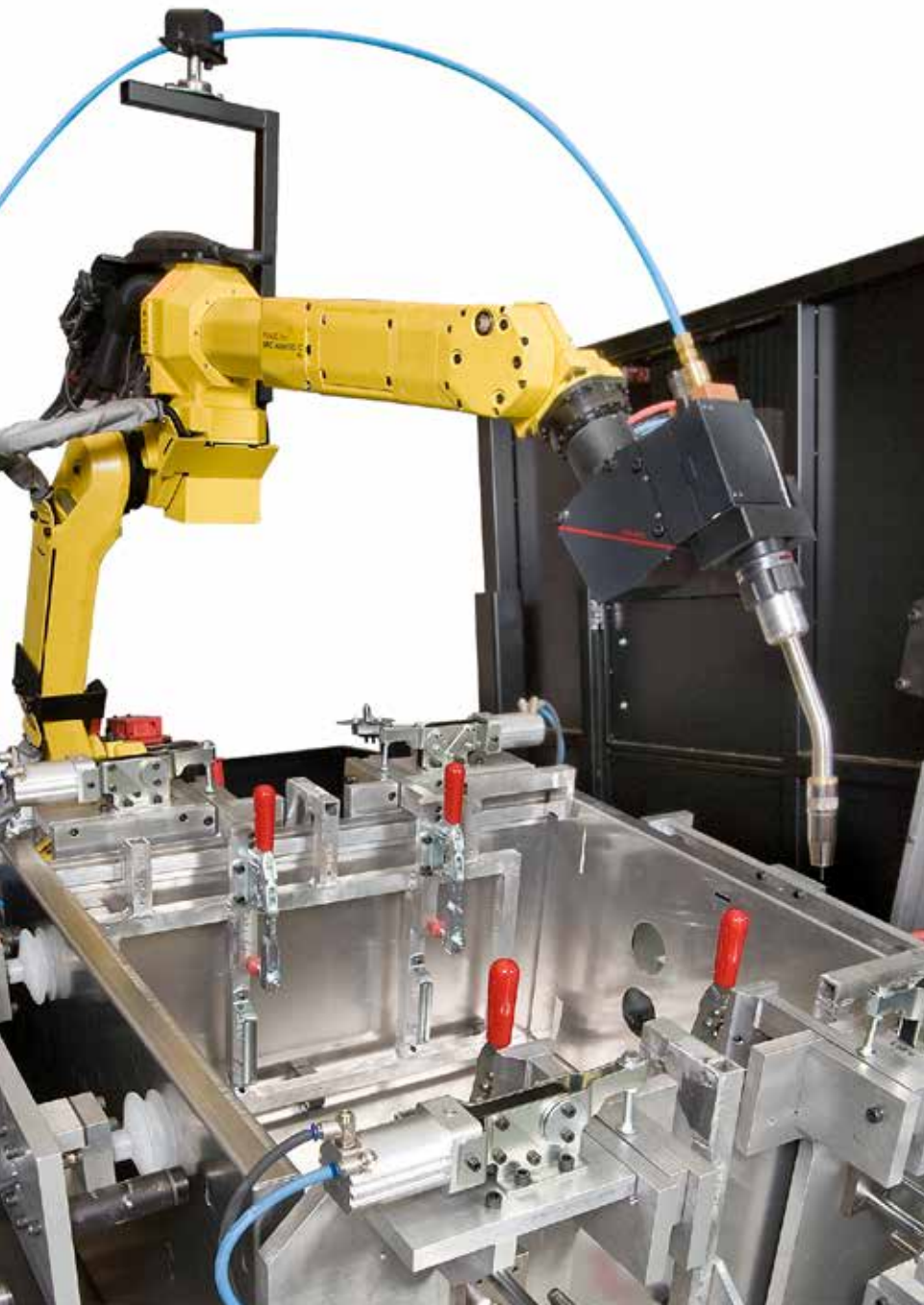
**LINCOLN**  
**ELECTRIC**

# Why INFINITY system?

Productivity is important in an automated welding environment. It all hinges on the ability to process more parts per hour, with as little downtime as possible. That calls for a system where the consumables are readily available without interruption. The Infinity system keeps the wire coming, non-stop.

Lincoln Electric's infinity wire solution, uses a butt-welding and flash removal process that joins the end of a wire from an used empty drum with the start of a wire of the next full drum. A conduit delivers the wire to a wire feeder in a semi-automated or fully automated system.

The butt-welding and flash removal process takes only few minutes, and the wires maybe be joined during the welding cycle.



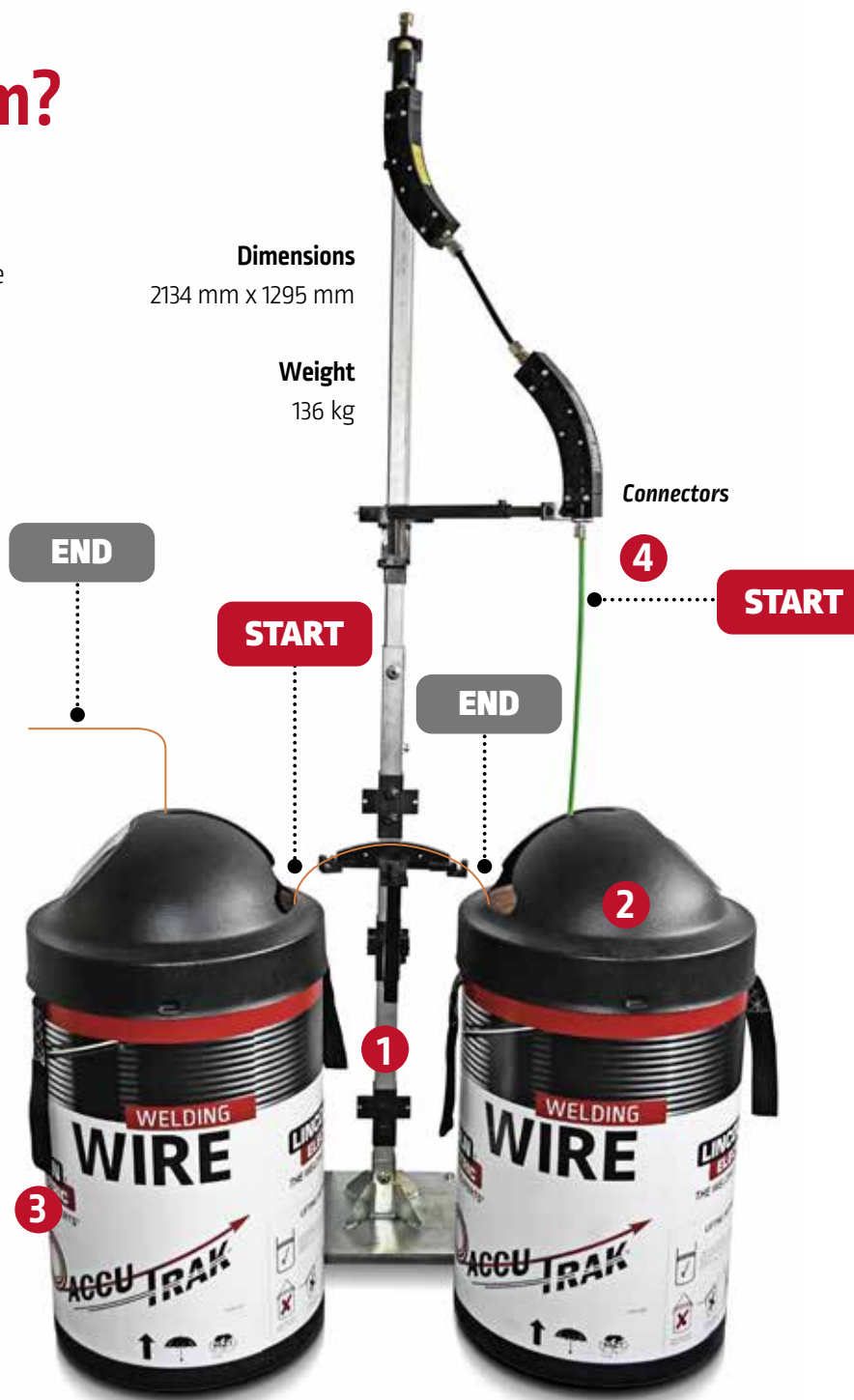
# Why INFINITY system?

This solution, ideal for highly automated environments, eliminates downtime for wire changeover, maintains wire feeding without interruption and maximizes productivity throughout every hour of every shift.



**Dimensions**  
2134 mm x 1295 mm

**Weight**  
136 kg



- 1 Structure
- 2 Plastic cover
- 3 Endless drums
- 4 Liner + connectors
- 5 Other accessories (optional)

See next page for details.



## 1 Structure (AD1329-66)

Structure frame where the 2 drums has to be placed. The wire is held in place by a metallic frame that provides the switching mechanism for one drum to the next. (Dimensions: 2134 x 1295 mm – Weight: 136 kg).

## 2 Plastic covers

– comes together with the structure, suitable for round drums – 520 mm diameter. Remove the carton covers coming with the drums and replace them with plastic hoods provided with the system.



## 3 Endless drums

– special drums where wire end is fixed at the top of the drums with retaining clips, to make it possible to butt-weld start and end of the wire (dedicated items available on request).



## 4 Liner + connectors

are coming together with the structure. In case of need to order separately, see below. Items to be selected based on wire diameter. Items refer to Bulk Packaging (30,5 m).

Wire Diameter	Compression connectors	Liners
0,6	AD1329-284	AD1329-620
0,6-1,6	AD1329-42	AD1329-617
1,6-2,4	AD1329-30	AD1329-623

## 5 Other accessories

**BUTTWELDER (AD1329-570)** tool to weld together end of the finished drum + start of the new drum. Works up to wire sizes of 2,0 mm.

**WIRE DRESSER (AD1329-70)** tool to grind the butt weld and ensure optimal geometry of the butt-welded wires.

**WIRE PARTER (AD1329-71)** tool to cut the wire off with straight ends to make a proper weld.



# Never-Ending System

## 1. Mount the structure



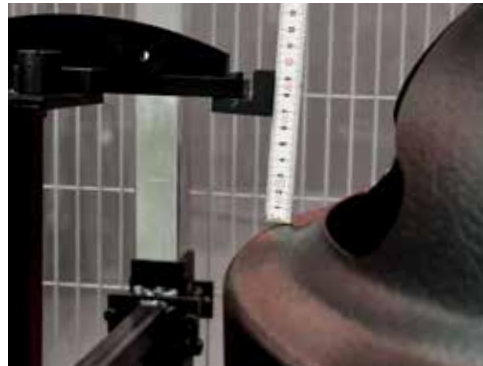
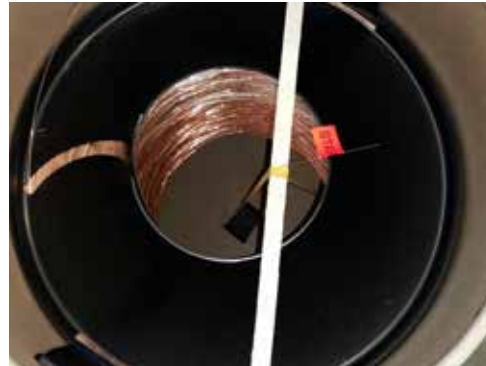
Arm that provides the switching mechanism for one drum to the next

The structure is the basic frame for a successful setup of this system as drums can be placed correctly and the wire is held in place by a metallic frame that provides the switching mechanism for one drum to the next.

# Never-Ending System

## 2. Positioning of the drums

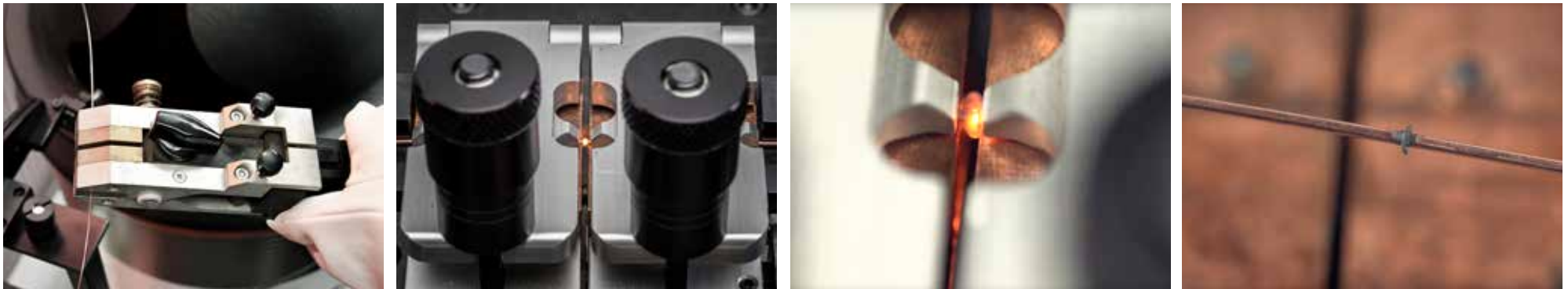
Position the drums left [2] and right [1] of the structure. Remove the wire end from drum 1 from the retaining clips and place it on the bridge to be butt welded with the start of the drum 2. Thread the start of the wire drum 1 through the plastic cover and insert it in the liner. The distance between plastic cover and bridge should be around 70 mm. Position also the plastic cover on drum 2, letting the start of the wire out, to be butt welded with the end of the drum 1.



# Never-Ending System

## 3. Buttwelding the end of drum 1 with the start of drum 2.

Use the wire parter to cut the wire straight on both sides to make a proper weld. Insert the 2 wires in the buttwelding machine securing them in the screws of the jaw, turning the knobs. Make sure the wire is in the center of the gap. Switch on the base unit and press the start button on the tool, you should see a spark and the welding will happen. Then turn again the locking knobs to release the wire from the jaw. Remove the flash in the wire joint using the wire sizer or a high speed rotary tool.



Once the wire ends have been welded together and the flash has been removed, the wire should be securely fastened between the 2 drums using the bridge located in the middle of the structure. To do that, push the spring supported bolts on both sides. When properly adjusted, the transfer arm should swing from one drum to the other.







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