

LINC GUN FX fume extraction torches

Compliant with standard EN 60974-7

LINC GUN FX fume extraction torches from LINCOLN ELECTRIC benefit from the experience acquired ever since these products were added to the range. As a result, LINC GUN FX torches are extraction tools offering high engineering quality for MIG-MAG welding.

They use the indirect capture technique which ensures very high efficiency without altering the quality of the weld bead.

We offer a complete range from 225 to 410 A with water or air cooling.

The developments of the LGFX torch combined with our ergonomic booms mean that our products offer very high manoeuvrability and accessibility to the different points of the part to weld.



Features:

- Large capture sphere, efficiency percentage close to 80%.
- Fixed fume collector.
- Tellurium-copper (Cu Te) screw-in nozzle - Ø 12, 15 or 19 mm.
- Rotating steel fitting at the handle outlet for greater manoeuvrability.
- Manual air flow adjustment valve.
- Single-section (Ø 40 mm) bundle or double section (40/50) depending on the model.
- Protective leather sleeve on the bundle - length 1.5 m.
- Connection diameter on 50 mm hose.
- Dual Flow version for modulating the torch extraction rate depending on the type of part to weld.
- LN version [gooseneck, 50 mm longer] for specific parts to weld and complex access.

Technical specifications:



AIR



WATER

		LGFX 2R	LGFX 4R	LGFX 4W	LGFX 5W
Contact tip		M6	M8 x 30	M8 x 30	M8 x 30
Ø Nozzle		12 mm	15 - 19 mm	15 - 19 mm	15 - 19 mm
Gooseneck angle		45°	45°	45°	45°
Bundle diameter (mm)		40	40	40/50	40/50
Duty factor		60%	60%	100%	100%
Connecting hose diameter (mm)		50	50	50	50
Welding intensity	CO ₂	250 A	400 A	360 A	450 A
	Ar/CO ₂	225 A	320 A	320 A	410 A
Weight (g) according to standard		1,180	1,465	1,540	1,595

Minimum capture performance

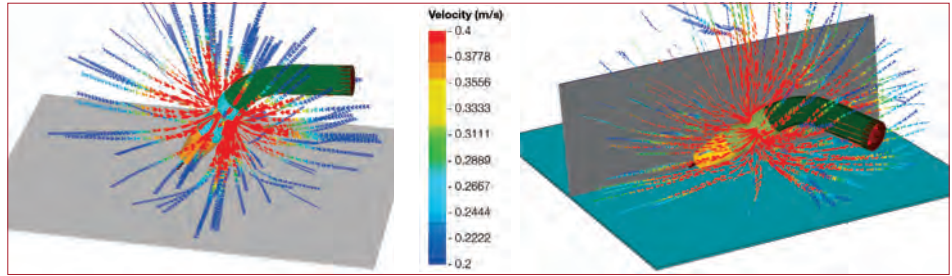
For speed 0.25 m/s	Flow m ³ /h	92			
	Vacuum Pa	11,500			
For speed 0.35 m/s	Flow m ³ /h		80	80	80
	Vacuum Pa		13,300	13,500	13,600

Wearing parts according to European standard:

- Contact tip, M8 x 30*
- Contact tip support, M8
- Ceramic diffuser insulator
- Wire guide sleeve

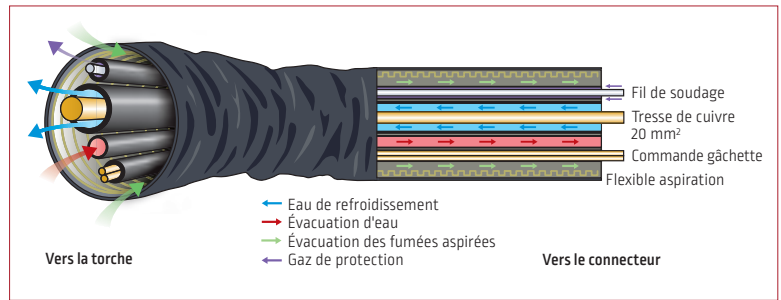
*M6 for LGFX 2R

A torch developed specially for extraction, from design to materialisation through simulation.



Water cooled torch

Benefits of multiple-conductor water/electricity bundle:
The copper braid that conducts power is continuously cooled by the water in the torch cooling circuit, which allows the use of a smaller cable section for the same power. That reduces weight and makes the torch bundle more flexible, and therefore more manoeuvrable.



The DUAL FLOW solution

LINCOLN ELECTRIC has filed a patent for its DUAL FLOW torch, which enables the welder to decide to change the extraction power according to the type of weld made by just pressing a micro switch located on the torch handle, during the welding process. In that way the worker is protected from fumes at all times and has the assurance of making high-quality welds thanks to close control over the work.

When combined with LGFX extraction torches with micro switches, Dual Flow devices provide a nominal extraction rate throughout the welding duration and, through a signal from the torch micro switch, reduce the extraction rate for welding in confined areas. That change in flow rate is made merely by pressing a micro switch located on the torch handle (choice of 2T or 4T mode depending on the welder's habits).



Extraction flow variation controlled by the operator by pressing the micro switch.



Types of welded joints

Typical welded joints for mechanical welding, which require the adjustment of the extraction flow rate without stopping the arc, and therefore without losing productivity or requiring the resumption of welding.

