

PRODUCT CATALOGUE



2024

# ACCESSORIES

MORE COMFORT & SAFETY FOR WELDERS

[www.lincolnelectric.eu](http://www.lincolnelectric.eu)





WELD PLAY  
EuroSPEED LS

WELDLINE  
by Lincoln Electric



## MORE comfort and safety for welders

We offer a complete range of Personal Protective Equipment, tools and accessories dedicated to welding and cutting applications. Our offer is selected based on demanding quality criteria in full compliance with regulations. The portfolio is a careful selection of quality products including:

- Welding torches and expendables
- Personal protection equipment
- Other accessories for welding applications

## THIS BRAND HAS A TRIPLE COMMITMENT :

### Quality products

Our international team has carefully selected products that not only comply with European standards but also aim to meet the specific requirements of our customers.

### Value for money

We use our global purchasing capacity to offer our customers access to quality products at the right price.



Download your **safety data sheets** and **conformity certificates** on our websites



**LINCOLN**®  
**ELECTRIC**



# SUMMARY



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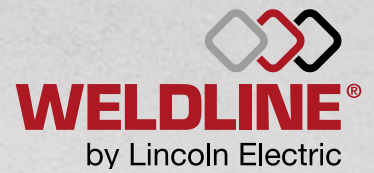
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# DO YOU OFFER YOUR WELDERS THE BEST POSSIBLE PROTECTION?



## THE RISKS

### FACE & EYES

90% of all workplace eye injuries are preventable with the use of proper safety eyewear, welding goggles and helmets.

Only 1% of approximately 770 workers suffering face injuries were wearing face protection.

### BODY

Every day, people are admitted to burn centers annually with severe arc flash burns.

### HAND AND FOREARM

25% of all work place accidents involved hands and fingers

### LEGS

Risks of clothes catching fire from welding spatter and molten metal.

### FEET

Risks are perforations, falling object, burns and slipping.

## THE SOLUTIONS

### WELDING HELMET & SAFETY GLASSES

Electronic helmet allow the welder to be immediately and automatically protected during the welding operation.

A pair of safety glasses gives additional protection against i.e. grinding particles.

### WELDING JACKET

Welding jacket of flame retardant material of leather to protect the upper body, against welding spatters, grinding particles which permit to avoid burns.

### WELDING APRON

Welding apron in premium grade, split or grain leather will protect clothes from welding spatters and grinding particles.

### GLOVES & SLEEVES

The choice of welding gloves will depend on the welding application in order to offer the right protection and comfort. Sleeves over the jacket offer an additional protection of the arms.

### TROUSERS

Trousers of flame retardant material to protect the lower body against welding spatters, grinding particles and molten metal.

### SHOES & GAITERS

Combining welding shoes with gaiters permits to protect completely the bottom of the leg.



Lincoln Electric, PPE more comfort and safety for welders.





# 1 PERSONAL PROTECTION EQUIPMENT

## PROTECTION

◆ Welding helmets .....	6 - 18
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# LINCOLN ELECTRIC WELDING HELMETS

**TIG AMP RATING  
5 AMPS AC / DC**



**EXTERNAL LOW  
PROFILE GRIND  
CONTROL**

**SUPERIOR OUT DOOR  
PERFORMANCE**

**DIN: 8-13  
AUTO-DARKENING  
SHADE RANGE**

WARRANTY  
**2**  
YEARS

**TIG AMP RATING  
2 AMPS AC / DC**

WARRANTY  
**3**  
YEARS

**DIN: 5-13  
AUTO-DARKENING  
SHADE RANGE**



**VIKING**  
WELDING HELMETS

## Light Shade technology

See More! Weld Better!

- ◆ Provides a better, clearer view of the welding puddle
- ◆ Improves visibility
- ◆ Reduces eye strain



## 4C Lens technology

- 1 - Clarity - Optical Clarity 1/1/1
- 2 - Color - Real Color View
- 3 - Carat - Light Weight
- 4 - Cut - Even Shade From Any Angle



## 1/1/1 Optical clarity

Eliminating Distortion



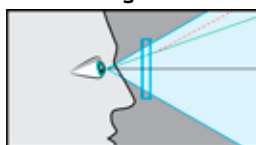
Uniform Shade



Removing Blurriness



Consistent Angle Performance



Consistent Shade at all Angles



## Welding helmet EURO & VIKING Series Comparison

### Tailored Features

Biggest → Bigger → Normal



Specifications	FGS™ Series	3350 Series	2450 Series	Eurowave 3.0 LS Series	Eurospeed LS Series	Chameleon 3VO Series	Euroone Series
Optical Clarity Rating	1/1/1	1/1/1	1/1/1	1/1/1	1/1/2	1/1/2	1/1/2
Auto-Darkening Viewing Area	108 x 75 mm	95 x 85 mm	97 x 62 mm	97 x 60mm	98 x 44 mm	97 x 40 mm	98 x 44 mm
Variable Shade Range/Control	5-13 Internal	5-13 Internal	5-13 Internal	8-13 Internal	9-13 Internal	8-13 Internal	9-13 External
Grind Mode Shade / Control	DIN4 / Internal	DIN4 / External	DIN4 / External	DIN3 / External	DIN4 / Internal	DIN3 / No	DIN3.5 / External
Delay Control Dark to Light (sec)	0,0-1,0 Digital Adjustment	0,1-1,0 s fully adjustable	0,1-1,0 s fully adjustable	0,1-1,0 s fully adjustable	0,1-1,0 by infinitely dial knob	0,1-1,0 by infinitely dial knob	0,1-1,0 by infinitely dial knob
Number of Arc Sensors	4	4	4	4	2	2	2
Weight (g)	793	606	595	560	475	445	490
Lens Switching Speed (sec)	1/25,000	1/25,000	1/25,000	1/25,000	1/25,000	1/12,000	1/16,000
Optic Technology	4C Technology	4C Technology	4C Technology	Light Shade Technology	Light Shade Technology	Standard	Standard
Magnifying "Cheater" Capable Lens	Yes	Yes	Yes	Yes	No	Yes	No
TIG Amp Rating	≥2 A /DC ≥2 A /AC	≥2 A /DC ≥2 A /AC	≥2 A /DC ≥2 A /AC	≥2 A /DC ≥2 A /AC	≥5 A /DC ≥5 A /AC	≥5 A /DC ≥5 A /AC	≥10 A /DC ≥10 A /AC
Light Sensitivity Control	Digital Display Control	Continuous	Continuous	Continuous	by infinitely dial knob	by infinitely dial knob	by infinitely dial knob
Bonus accessories	Side Windows + Planch of stickers + Bag + Bandana	Planch of stickers + Bag + Bandana	Planch of stickers + Bag + Banadana	-	Planch of stickers	-	-
Cartridge Size (mm)	122 x 154,5 mm	114 x 133 mm	114 x 133 mm	114 x 133 mm	110 x 90 mm	110 x 90 mm	110 x 90 mm
Auto-Darkening Viewing Area (mm <sup>2</sup> )	8100	8075	6014	5820	4312	3880	4312
Headgear Type	UPGRADED FOUR AXIS PIVOT	X6 AXIS PIVOT	X6 AXIS PIVOT	FOUR AXIS PIVOT	FLEXSPEED LS + cushion	FLEX3VO	FLEXONE
Battery Type	Solar cell + 2 CR2450 Replaceable Batteries	Solar cell + 2 CR2450 Replaceable Batteries	Solar cell + 2 CR2450 Replaceable Batteries	Solar cell + 2×CR2450 replaceable lithium battery	Solar cell + Battery replaceable (2xAAA Alkaline batteries)	Solar cell + 2 alkaline battery	Solar cells, no battery change required
Graphic options	1	4	2	2	2	1	2

Value Proposition	The best in terms productivity & security	Best in Class Specifications & Features	Enhanced Versatility	Light state DIN3	Good value	Efficient value solution with Optical class improved and variant graphics	Efficient value solution with grinding mode
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# HELMETS

## VIKING™ 3250D FGS™ SERIES

(EU) 2016/425  
Harmonized standards  
EN 166:2001,  
EN 379:2003+A1:2009,  
EN 175:1997

**VIKING**  
WELDING HELMETS

WARRANTY  
**3**  
YEARS

lens  
technology  
**4C™**

CE

### The single helmet solution.

In any fabrication environment, productivity, safety and optic clarity are important. The VIKING® 3250D FGS™ from Lincoln Electric provides enhancements to each of these elements when compared to a standard welding helmet.

Our most technologically advanced helmet series incorporates a « flip-up » clear face shield with anti-fog coating for increased safety and productivity.

#### Processes:

Stick, TIG, Pulsed TIG, MIG,  
Pulsed MIG, Flux-Cored,  
Gouging, Grinding

#### What's Included:

- ◆ Helmet Bag
- ◆ Bandana
- ◆ Outside Cover Lenses (x5)
- ◆ Inside Cover Lenses (x2)
- ◆ Decal Sheet



**VIKING™ 3250D FGS™**  
K3540-3-CE

### Auto-Darkening Lens Specs

Variable shades



Low TIG amps rated



Grind mode / Shade control



Lens switching speed



Arc sensors



Optical class



Comfort



Viewing area



Enhanced Outdoor Performance



#### Key features:

- 1 **4C® Lens Technology** reduces color saturation, improves clarity and reduces eye strain.
- 2 **Perfect 1/1/1 Optical Clarity** This rating is determined by measuring blurriness, distortion, shade consistency and angle uniformity of the auto-darkening welding lens.
- 3 **8 064,5 mm² Auto-Darkening** provides a widescreen view which increases versatility and operator control.
- 4 **Shade 5 Side Windows** notably increase peripheral vision
- 5 **Flame Retardant Head Covering** provides protection from spatter and improves comfort
- 6 **Large Integrated Grinding Shield** protects operators from impacts while providing a clear viewing area for grinding and material inspection
- 7 **Anti-Fog Coating** helps maintain a consistently clear view
- 8 **4 Axis Headgear** provides multi-directional adjustments to evenly distribute weight and improve comfort

# HELMETS

(EU) 2016/425  
 Harmonized standards  
 EN 166:2001,  
 EN 379:2003+A1:2009,  
 EN 175:1997

# VIKING<sup>®</sup>

WELDING HELMETS

WARRANTY  
**3**  
 YEARS

lens  
 technology  
**4C™**



## Extra Large Auto-Darkening Lens

The 8 064,50 mm<sup>2</sup> auto darkening lens provides a large field of view to increase versatility and operator control.

## Maximising Field of View

The VIKING™ FGS™ 3250D welding helmet offers improved safety and productivity enhancements for operators with an increased field of view in both open and closed positions.



### SAFETY

- ◆ ANSI Z87.1 compliant grind shield protects operators from various impact hazards
- ◆ The 161 Degree field of vision makes material inspection, grinding and general movements less hazardous
- ◆ Shade 5 side windows increase peripheral vision in the closed position
- ◆ The anti-fog lens coating allows for a more consistently clear view



### PRODUCTIVITY

- ◆ By integrating a clear grind shield, the amount of time required to begin grinding operations is shortened and the need for a separate face shield is eliminated
- ◆ The expanded field of vision in both positions can reduce setup, inspection and weld time
- ◆ The large auto-darkening viewing area enhances operator control

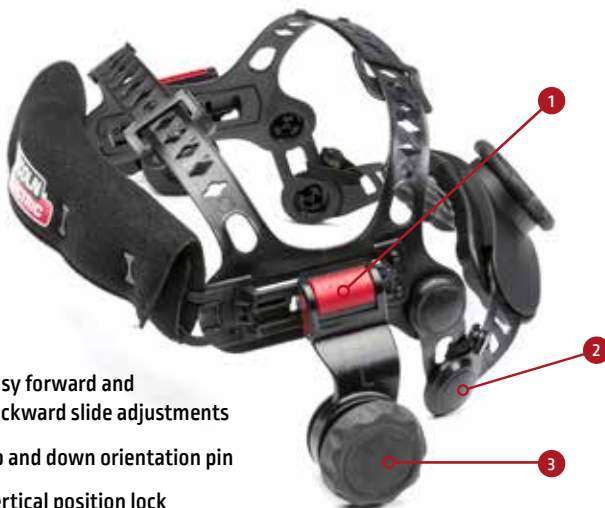


Open Position



Closed Position

## UPGRADED FOUR AXIS PIVOT



- 1 Easy forward and backward slide adjustments
- 2 Up and down orientation pin
- 3 Vertical position lock



# HELMETS

## VIKING™ 3350 SERIES 4

(EU) 2016/425  
Harmonized standards  
EN 166:2001,  
EN 379:2003+A1:2009,  
EN 175:1997

# VIKING®

WELDING HELMETS

WARRANTY  
**3**  
YEARS

lens  
technology  
**4C™**

CE

The new & improved **VIKING™ 3350**, our top-of-the line helmet series, is the ultimate blend of optics comfort & versatility.

### Processes:

Stick, TIG, Pulsed TIG, MIG, Pulsed MIG, Flux-Cored, Gouging, Grinding.

### What's included:

- ◆ Helmet Bag
- ◆ Bandana
- ◆ Outside Cover Lenses (x5)
- ◆ Inside Cover Lenses (x2)
- ◆ Decal Sheet

**5-13 auto-darkening shade range** for use in all welding and plasma cutting applications

**Superior outdoor performance** for all environment use



**Low-profile external grind button** provides seamless transition between weld & grind mode



**VIKING™ 3350 BlackMat**  
K3034-4-CE



**VIKING™ 3350 Daredevil™**  
K3683-4-CE



**VIKING™ 3350 Motorhead™**  
K3100-4-CE



**VIKING™ 3350 Mojo™**  
K3101-4-CE

### Auto-Darkening Lens Specs

Variable shades



Low TIG amps rated



Grind mode / Shade control



Lens switching speed



Arc sensors



Optical class



Comfort



Viewing area



Enhanced Outdoor Performance



### X6 HEADGEAR - SUPERIOR COMFORT

- 1 The adjustable and form-fitting top head supports effectively distribute weight to optimize balance
- 2 Orientation adjustment pin for optimal resting position

# HELMETS



## VIKING™ 2450 SERIES

The new & improved **VIKING™ 2450**, our lightweight premium helmet series, offers an excellent blend of optics, comfort & versatility.



**(EU) 2016/425**  
Harmonized standards  
**EN 166:2001,**  
**EN 379:2003+A1:2009,**  
**EN 175:1997**

**Processes:**

Stick, TIG, Pulsed TIG, MIG, Pulsed MIG, Flux-Cored, Gouging, Grinding.

**What's included:**

- ◆ Helmet Bag
- ◆ Bandana
- ◆ Outside Cover Lenses (x5)
- ◆ Inside Cover Lenses (x2)
- ◆ Decal Sheet

### Auto-Darkening Lens Specs

Variable shades



Grind mode / Shade control



Enhanced Outdoor Performance



**VIKING™ 2450 Black**  
K3028-4-CE

**Low-profile external grind button** provides seamless transition between weld & grind mode

Low TIG amps rated



Lens switching speed



Arc sensors



Optical class



Comfort



Viewing area



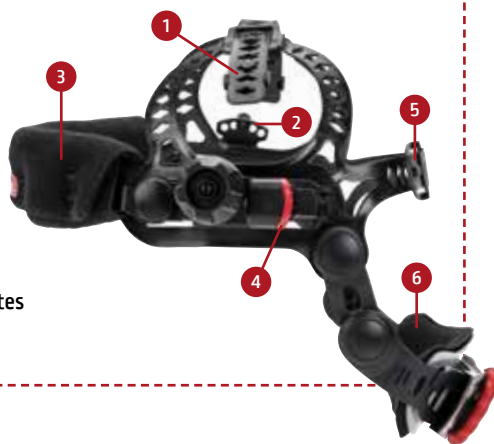
**5-13 auto-darkening shade range** for use in all welding and plasma cutting applications

**Superior outdoor performance** for all environment use



**VIKING™ Heavy Metal®**  
K3029-4-CE

- Rotatable front headband for personalised support and fit
- Innovative and easy to use forward and backward adjustments
- Strategically positioned rear headband improves balance
- Unique flexible backpad eliminates common pressure point



# HELMETS

## EUROWAVE 3.0 LS

Light-weight autodarkening helmet with optimised head protection and an exclusive design.

**PREMIUM OPTICS** with **Exclusive LS technology** which creates a crystal clear, true colour view of the arc and puddle. This enhances control and increases weld quality whilst reducing eye strain. Additionally, the EUROWAVE 3.0 LS SERIES lens has a 1/1/1 optical clarity rating which showcases the absence of common lens imperfections such as blurring and distortion whilst also providing consistent brightness and performance at an angle.

Reduced helmet weight and improved balance, to help minimize torque on the welding operator's neck and lessen fatigue.



WARRANTY

**2**

YEARS

### Processes:

Stick, TIG, Pulsed TIG, MIG, Pulsed MIG, Flux-Cored, Gouging, Plasma Cutting, Grinding.

### What's included:

- ◆ Outside Cover Lenses (x5)
- ◆ Inside Cover Lenses (x2)
- ◆ Decal Sheet

### Auto-Darkening Lens Specs

Variable shades



Grind mode / Shade control



DIN 3

Low TIG amps rated



Lens switching speed



1/25,000 sec

Arc sensors



Optical class



1/1/1

Comfort



Viewing area



97 mm x 60 mm



EUROWAVE 3.0 LS  
Black

W403900

External grinding mode

EUROWAVE 3.0 LS  
Streetart

W403901

### X4 PIVOT

- ◆ Soft, Padded front headband helps eliminate pressure points
- ◆ Two adjustable top head straps help distribute weight for increased comfort
- ◆ Ratchet adjustable rear headband allows operator to set tightness
- ◆ Turn and slide forward and backward adjustments



(EU) 2016/425  
 Harmonized standards  
 EN 166:2001,  
 EN 379:2003+A1:2009,  
 EN 175:1997

PERSONAL PROTECTION  
 EQUIPMENT

1

# HELMETS

## EUROSPEED LS

All the comfort and security of an autodarkening helmet, delivered with different stickers for personalisation. **PREMIUM OPTICS** with **Exclusive LS technology** which creates a crystal clear, true colour view of the arc and puddle.

WARRANTY

**18**  
MONTH

### Processes:

Stick, TIG, Pulsed TIG, MIG,  
 Pulsed MIG, Flux-Cored, Gouging,  
 Plasma Cutting, Grinding.



### What's included:

- ◆ Outside Cover Lenses (x2)
- ◆ Inside Cover Lens (x1)
- ◆ Sweat band
- ◆ Comfort cushion on the headgear
- ◆ Decal Sheet

**EUROSPEED LS**  
 W000403824



Internal grinding mode

**EUROSPEED LS**  
**Circus Game**  
 W000403824-8

**COMING SOON**



### Auto-Darkening Lens Specs

Variable shades



Internal

Grind mode / Shade control



DIN 4 / Internal

Lens switching speed



1 / 25,000 sec

Low TIG amps rated



5 amps  
 ≥ 5 amps (DC) / ≥ 5 amps (AC)

Viewing area



98 mm x 44 mm

Comfort



Arc sensors



2

Optical class



1/1/1/2

### FLEXspeed

- 1 Setting on the top
- 2 Removable sweatband
- 3 Comfort cushion
- 4 Rack setting



# HELMETS

## CHAMELEON 3VO

Auto Darkening Welding Helmet, Comfortable and light with Auto-Start ADF Filter, Black, Blue and Red. Anti-fog coating - helps maintain a consistently clear view.

**Processes:**

Stick, MIG.

**What's included:**

- ◆ Outside Cover Lenses (x2)
- ◆ Inside Cover Lens (x1)
- ◆ Antifog treated screen
- ◆ Sweat band
- ◆ Comfort cushion on the headgear
- ◆ One anti-transpiration headband.
- ◆ One comfort cushion.



**CHAMELEON 3VO**  
Streetart

W000403546

### Auto-Darkening Lens Specs

Variable shades



Arc sensors



Optical class



Viewing area



97 mm x 40 mm

Battery



Solar cell / 2 alkaline batteries

Lens switching speed



1 / 1,200 sec

Low TIG amps rated



≥ 5 amps (DC) / ≥ 5 amps (AC)

Grind mode / Shade control



DIN 3



### FLEXone

- 1 Setting on the top
- 2 Removable sweatband
- 3 Rack setting

## EUROONE

Auto Darkening Welding Helmet Comfortable and light with external grinding mode, Black and Red.

**Processes:**

Stick, MIG, Plasma Cutting, Grinding.

**What's included:**

- ◆ Outside Cover Lenses (x2)
- ◆ Inside Cover Lenses (x2)
- ◆ Sweat band

External grinding mode

**WARRANTY**



**EUROONE**  
NO RULES NO LIMITS

W000403823-1

**EUROONE**

W000403823

### Auto-Darkening Lens Specs

Comfort



Arc sensors



Optical class



Viewing area



98 mm x 44 mm

Variable shades



External

Grind mode / Shade control



DIN 3.5 / External

Lens switching speed



1 / 16,000 sec

Low TIG amps rated



≥ 10 amps (DC) / ≥ 10 amps (AC)



Compatible with all Lincoln Electric helmets and most competitive models

## OPTIONAL ACCESSORIES

### LINCOLN ELECTRIC Split leather helmet bib with Press Fit Silicone Seal



Split leather helmet bib  
KP3729-1



### LINCOLN ELECTRIC Grain leather helmet bib with Press Fit Seal



Grain Leather Helmet Bib  
KP3730-1

- ◆ NECK PROTECTION - Durable split leather construction protects the neck from arc flash, spatter and sparks.
- ◆ INNOVATIVE CONNECTION - Unique press fit silicone seal easily attaches to the welding helmet edge for full frontal neck coverage.
- ◆ DURABLE - Kevlar stitched seams with hemmed edge to prevent rips or tears.
- ◆ COMPATIBILITY - Use with all Lincoln welding helmets and most competitive models.

### LINCOLN ELECTRIC Safety industrial helmet\*

EN 397: 2012+A1: 2012



\* Requires adaptors

LE SAFETY INDUSTRIAL HELMET  
W202311

The LEM3.01 hard hat fits with adaptor Euroone, Europseed LS, Eurowave 3.0LS and 2450-3350 Viking Welding helmets

#### Hard hat adapters

For VIKING 3350 / EUROWAVE 3.0LS / VIKING 2450 / EURO SPEED LS / EUROONE welding helmets	W202312
For EUROPURE PLUS 5500LS	W202313
For VIKING FGS	KP3707-1

### VIKING Cheater Lens\*\*



### Magnifying glass EN 166\*\*\*



For precision welding, improved vision of the area work is necessary. These lenses should be used with tinted filter lenses.

#### To order

Cheater lens 1.00 magnification	KP3046-100
Cheater lens 1.25 magnification	KP3046-125
Cheater lens 1.50 magnification	KP3046-150
Cheater lens 1.75 magnification	KP3046-175
Cheater lens 2.00 magnification	KP3046-200
Cheater lens 2.25 magnification	KP3046-225
Cheater lens 2.50 magnification	KP3046-250

Diopter	108 x 51 mm or 105 x 50 mm
+ 1.0	W000335031
+ 1.5	W000335032
+ 2.0	W000335033
+ 2.5	W000335034

\*\*\* These magnifying glasses can be used with CHAMELEON 3V0, ZEPHYR 4500 LS and FLIP'AIR 4500 LS



\*\* These magnifying glasses can be used with Eurowave 3.0 LS, Viking 2450 series, Viking 3350 series, Viking FGS and EUROPURE 5500 LS

# HELMETS

## OPTIONAL ACCESSORIES

### Led light



Welding helmet lights for darker workstations. Darker workstations cause inefficiency. The added ambient light is intended to illuminate the area around the weld zone, so that old tired eyes, and young defective eyes can better see the markers of direction of travel and speed needed to get a good weld, no matter what shade you are using. It is adding to the reflected light surrounding the weld area, but only in a minute amount to the light coming from the arc, and the molten metal of the puddle.



### LINCOLN ELECTRIC Helmet BackPack

Great for protecting your welding helmet!  
Lightweight Storage Carrying Bag.  
Center compartment opens wide for easy access to your helmet. Side pockets are perfect for spare cover lenses and other small gear.

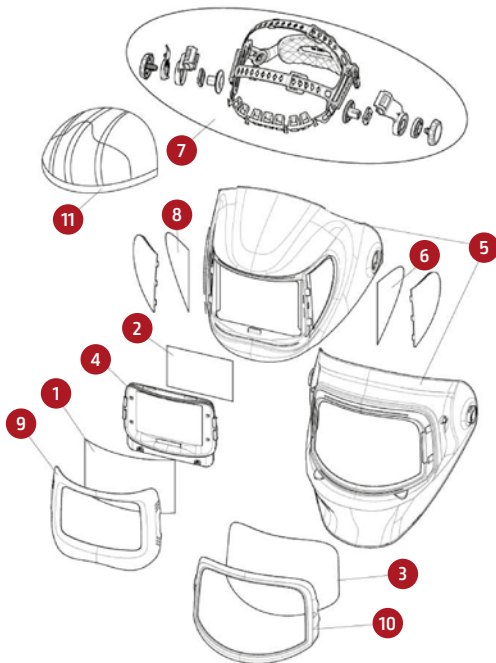
### LINCOLN ELECTRIC Flame retardant cotton extended protection for head with Press Fit silicone Seal

- ◆ **HEAD PROTECTION** - Durable flame retardant cotton construction protects the head from arc flash, spatter and sparks
- ◆ **INNOVATIVE CONNECTION** - Unique press fit silicone seal easily attaches to the welding helmet top for full head coverage
- ◆ **DURABLE** - Kevlar stitched seams with hemmed edge to prevent rips or tears
- ◆ **COMPATIBILITY** - Use with all Lincoln welding helmets and most competitive models



## REPLACEMENT PARTS

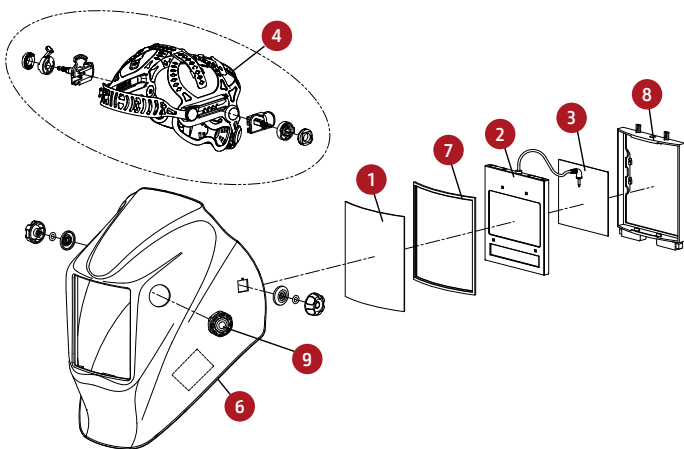
### FGS



To order		
Description	Qty/pk	Reference
1 - Outside Cover lens (158.2 x 100 x 1.2 mm)	5	KP3700-1
2 - Inside Cover Lens (108.3 x 78.3 x 1 mm)	2	KP3701-1
3 - Grind Shield Clear lens (221.4 x 133.4 x 1.2 mm)	1	KP3702-1
4 - ADF cartridge	1	KP3703-3
5 - Replacement Shell (FGS Series Welding Helmet) (including Side Window installed)	1	KP3704-1
6 - Side Lens Cover	2	KP3705-1
7 - Headgear assembly (including sweatband)	1	KP3706-1
8* - Sweatband	2	KP2930-1
9 - Front lens holder	1	9S532652-10
10 - Grind Shield lens holder	1	9S532652-3
11 - Head cover	1	KP3709-1

\*Not illustrated

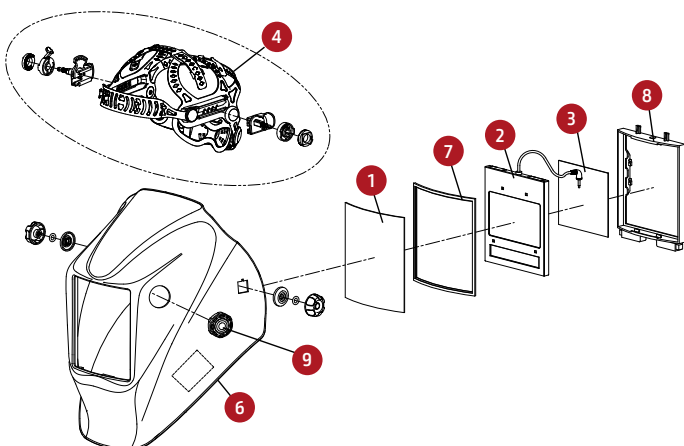
### VIKING™ 3350



To order		
Description	Qty/pk	Reference
1 - Outside cover lens (133.0 x 114.0 x 1.0 mm)	5	KP2898-1
2 - ADF cartridge	1	KP3045-4
3 - Inside Cover Lens (94.7 x 89.7 x 1.0 mm)	5	KP3044-1
4 - Headgear assembly (including sweatband & Retrofit washer)	1	KP4470-1
5* - Sweatband	2	KP2930-1
6 - Replacement shell (VH11)	1	KP4561-1
7 - Outside cover lens seal	1	S27978-32
8 - ADF holder	1	S27978-153
9 - Grind button assembly	1	KP4562-1
10* - CR2450 replacement battery	1	W000260920
11* - Headgear cushion back pad	2	KP4541-1

\*Not illustrated

### VIKING™ 2450



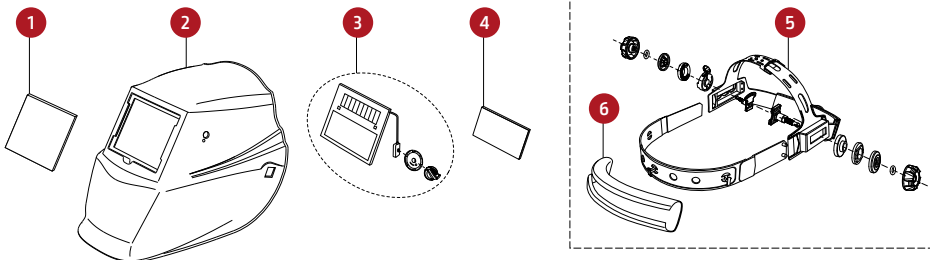
To order		
Description	Qty/pk	Reference
1 - Outside Cover lens (133.0 x 114.0 x 1.0 mm)	5	KP2898-1
2 - ADF cartridge	1	KP2932-4
3 - Inside Cover Lens (98.5 x 66.5 x 1.0 mm)	5	KP2931-1
4 - Headgear assembly (including sweatband & retrofit washer)	1	KP4470-1
5* - Sweatband	2	KP2930-1
6 - Replacement shell (VH11)	1	KP4560-1
7 - Outside cover lens seal	1	S27978-32
8 - ADF holder	1	S27978-153
9 - Grind button assembly	1	KP4562-1
10* - CR2450 replacement battery	1	W000260920
11* - Headgear cushion back pad	2	KP4541-1

\*Not illustrated

# HELMETS

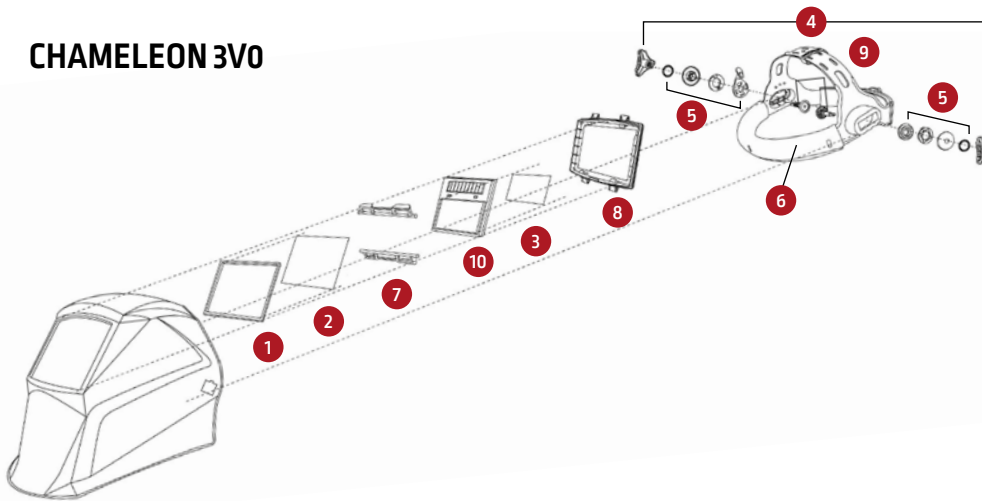
## REPLACEMENT PARTS

### EUROONE



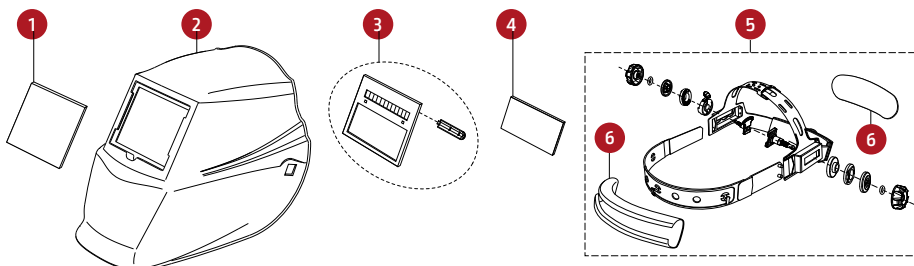
To order		
Description	Qty/pk	Reference
1 - Outside Cover lens	2	W000404065
2 - Replacement Shell	1	W000404066
3 - ADF cartridge	1	W000404067
4 - Inside Cover Lens	2	W000404068
5 - Headgear Assembly (Including Sweatband)	1	W000404069
6 - Sweatband	2	W000404073

### CHAMELEON 3VO



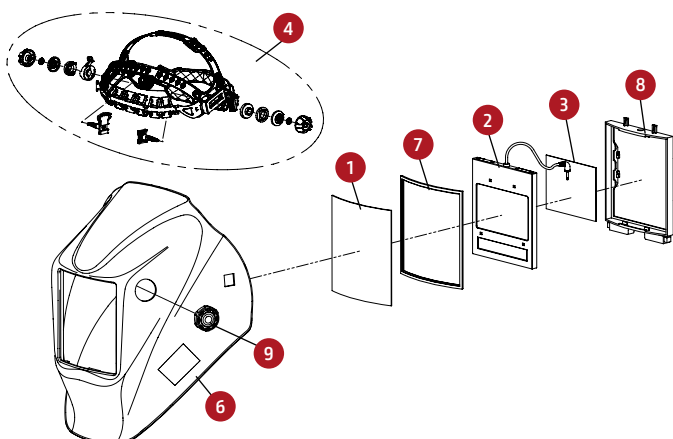
To order		
Description	Qty/pk	Reference
1 - Gasket front cover lens	10	W000261985
2 - Outside Cover lens	10	W000261983
3 - Inside cover lens	10	W000335163
4 - Headgear Assembly (Including Sweatband)	1	W000261986
5 - Headgear adjusting kit	1	W000261987
6 - Sweatband	10	W000261999
7 - ADF holder hook	1	W000261990
8 - ADF holder	1	W000261989
9 - Comfort cushion	10	W000261991
10 - ADF cartridge	1	W000377928

### EUROSPEED LS



To order		
Description	Qty/pk	Reference
1 - Outside Cover lens	2	W000404065
2 - Replacement Shell	1	W000404096
3 - ADF cartridge	1	W000404097
4 - Inside Cover Lens	2	W000404068
5 - Headgear Assembly (Including Sweatband)	1	W000404098
6 - Sweatband	2	W000404073

### EUROWAVE 3.0 LS



To order		
Description	Qty/pk	Reference
1 - Outside Cover lens (133.0 x 114.0 x 1.0 mm)	5	KP2898-1
2 - ADF cartridge	1	KPW4039-2
3 - Inside Cover Lens (98.5x66.5x1.0 mm)	5	KP2931-1
4 - Headgear Assembly (including sweatband)	1	KPW4039-1
5 - Sweatband	2	KP2930-1
6 - Replacement Shell BLACK (VH11)	1	KPW4039-3
7 - Replacement Shell STREETART (VH11)	1	KPW4039-4
8 - Outside clear lens seal	1	S27978-32
9 - ADF holder	1	S27978-153
10 - Grind button assembly	1	KP4562-1
11 - CR2450 replacement battery	1	W000260920

**Pure Stream** is an initiative to help reducing the exposure of welding fumes to the welders.



## PURE STREAM FUME MANAGEMENT IN 3 STEPS

1. Optimization
2. Ventilation & exhaust
3. Safe work practice and PPE

When used properly, the solutions proposed by **LINCOLN ELECTRIC** can significantly reduce the amount of fumes inhaled by welders.



## GLOBAL SOLUTION TO REDUCE THE EXPOSURE TO WELDING FUMES

Where welding operations are concerned, safety is directly connected to air quality. **PURE STREAM** is not only a customized offer but also an initiative to reduce the exposure of welding fumes to the welders.

**Europure Plus 5500 LS,  
Le Face Shield, Clear,  
Zephyr 4500LS  
Flipair 4500 LS**

Bring fume protection and filter air directly to the operator in difficult environments and keep it there all day with Lincoln PAPP solutions.

Contact us for more information.



# POWERED AIR PURIFYING RESPIRATORS (PAPR)

## PAPR SOLUTION

### PAPR Comparison - Tailored Features



Specifications	Zephyr LS / Flipair 4500 LS	Europure PLUS™ 5500 LS	Europure PLUS™ LE FACE SHIELD	Europure PLUS™ CLEAR
<b>WELDING PROCESS</b>	<b>MMA, MIG/MAG</b>	<b>MMA, MIG/MAG</b>	<b>GRINDING, BRAZING, OXYFUEL CUTTING</b>	
Optical Clarity Rating	1/1/1/2	1/1/1/1	Anti-Fog Clear Shield, Shade 5	
Lens Switching Speed (sec)	1/25,000	1/25,000		
Number of Arc Sensors	4	4		
Variable Shade Range/Control	5-13 Internal	5-13 Internal		
Optic Technology	Light Shade Technology	Light Shade Technology		
Magnifying "Cheater" Capable Lens	Yes	Yes		
Grind Mode Shade / Control	DIN3 / External DIN3 / FLIP UP	DIN4 / FLIP UP		
TIG Amp Rating	≥5 A /DC ≥5 A /AC	≥2 A /DC ≥2 A /AC		
Light Sensitivity Control	Continuous	Continuous		
Delay Control Dark to Light (sec)	0,1-1,0 s fully adjustable	0,1-1,0 s fully adjustable		
Additional Features	X-mode INFOTRACK	-		
Cartridge Size (mm)	110 x 90 mm	156 x 123 mm		
Auto-Darkening Viewing Area (mm²)	5820	8025		

Blower				
Battery Type	Solar cells + 2 exchangeable lithium batteries Battery type: Rechargeable Li-ion Battery (More effective)	Solar cells +2 exchangeable lithium batteries Battery type: Rechargeable Li-ion Battery (More effective)		
Low Battery Indicator	Visible, Audible and Vibrate alarms to ensure safety.	Visible, Audible and Vibrate alarms to ensure safety.		
Stand by time of battery (h)	8	9		
Time of charge of battery (h)	4	1		
Air flow rate (l/min)	Low speed:160l/min High speed:200l/min	Low speed: 170l/min High speed: 210l/min		
Headgear Type	FLEXTECH I	Advanced Headgear		
Warranty	1 Year (airflow system) + 2 Years (Helmet)	1 Year (airflow system) + 3 Years (Helmet)		
Value Proposition	Complete solution designed to protect welders in the most effective way - <b>TH2 Class</b>	The ultimate welder protection - <b>TH3 Class</b>		
Harmonised standards	EN 166:2001 EN 379:2003+A1:2009 EN 175:1997 EN 12941:2009-02	EN 175:1997 EN 166:2022 EN 169:2003 EN 379:2003+A1 EN 12941: 1998 + A1 : 2003 + A2 : 2008	EN 166:2022 EN 12941:1998 + A1:2003 + A2:2008	EN 397:2012+A1:2012 EN 166:2022 EN 12941:1998 + A1:2003 + A2:2008
Bonus accessories	Duffle Bag +Shoulder Straps	Side Windows + Planch of stickers +Duffle Bag +Bandana+Shoulder Straps		
Weight (g)	Zephyr - 510 / Flip'Air - 938 +1760 Blower	793 + 1020	120 + 1020	792 + 1020

5500 LS / LEFACE SHIELD / CLEAR

# EuropurePLUS™ RANGE



PERSONAL PROTECTION EQUIPMENT

1

## Versatile protection with added value and modularity !

Ergonomic and smart protection.

Fully integrated safety, with respiratory, head, eye and skin protection options.

### DESIGNED TO WORK TOGETHER FOR MAXIMUM COMFORT.

# TH3 Class

# EuropurePLUS™ LE FACE SHIELD

**NEW**

(EU) 2016/425 (PPE)  
2011/65/EU (ROHS)  
EN 166:2022  
EN 12941:1998  
+ A1:2003 + A2:2008

**The EuropurePLUS™ LE FACE SHIELD Powered Air Purifying Respirator features a smart blower system, integrated Professional Face Shield - Dual Coating.**

EuropurePLUS™ LE FACE SHIELD is an innovative PAPR system that combines the technology of a respiratory blower with the comfort of a face shield. The high density contoured lens is over **90% thicker** than a traditional face shield. Overall filtration efficiency is up to 99.997%. Available in a **Clear Shield** or a **Shade 5** style. The EuropurePLUS™ LE FACE SHIELD is the professional's choice for face protection.

Designed for Comfort - Lightweight, high strength shell with adjustable headgear for proper weight distribution and utmost comfort

Helmet weight : 120g



**EUROPURE PLUS™  
LE FACE SHIELD**  
(including the blower)

W403679

WARRANTY  
**1**  
YEAR  
Blower  
WARRANTY  
**2**  
YEARS

### What's Included:

- ◆ EuropurePLUS™ LE FACE SHIELD with Powered Air purifying Respirator
- ◆ Pre-Filter
- ◆ P3 filter
- ◆ Lithium Ion Battery
- ◆ Spark screen
- ◆ 120V Battery Charger
- ◆ Hose with Cover
- ◆ Padded Belt
- ◆ Headcovering
- ◆ Shoulder Straps
- ◆ Airflow Indicator
- ◆ Duffle Bag

Comfort



Class



### Comfortable Headcovering

- ◆ Flame Retardant Cotton and water resistance with super soft seal.
- ◆ Good sealing performance ensuring that a micro-positive pressure state is formed in face shield
- ◆ Easily replaceable via hook & loop seal.



### FACE SHIELD SHADE 5

**Shade 5 IR lens** - provides infrared light protection for grinding, brazing or cutting applications

**Proven Impact Protection** - High density polycarbonate lens provides protection from high velocity impacts

**Premium polycarbonate lens** - has excellent clarity for clear, undistorted vision



**LENS SHADE 5**

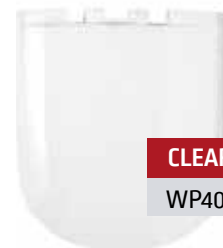
WP403679-2

### FACE SHIELD CLEAR

**Clear lens** - High-resolution Anti-scratch lens, No distortion of the vision, High light transmittance, Good wear resistance. Built-in wind direction adjustmenst

**Proven Impact Protection** - High density polycarbonate lens provides protection from high velocity impacts

**Premium polycarbonate lens** - has excellent clarity for clear, undistorted vision



**CLEAR LENS**

WP403679-1

(EU) 2016/425 (PPE)  
 2011/65/EU (ROHS)  
 EN 397:2012+A1:2012  
 EN 166:2022  
 EN 12941:1998  
 + A1:2003 + A2:2008

# POWERED AIR PURIFYING RESPIRATORS (PAPR)

## EuropurePLUS™ CLEAR **NEW**

### Face shield with High-impact resistance head top

EuropurePLUS™ CLEAR modern design answers to **impact protection** with high-impact resistance. It brings the highest level of respirator protection. Overall filtration efficiency is up to 99.997%.

High-impact resistance head protection - with compact shape and a balanced center of gravity.

The EuropurePLUS™ CLEAR combines face coverage with wide field of view.

Helmet weight: 792g

#### What's Included:

- ◆ EuropurePLUS™ CLEAR with Powered Air purifying Respirator
- ◆ Pre-Filter
- ◆ P3 Filter
- ◆ Lithium Ion Battery
- ◆ Spark Screen
- ◆ 120V Battery Charger
- ◆ Hose with Cover
- ◆ Padded Belt
- ◆ Headcovering
- ◆ Shoulder Straps
- ◆ Airflow Indicator
- ◆ Duffle Bag



**EUROPURE PLUS™  
 CLEAR**  
 (including the blower)  
 W403678

WARRANTY  
**1**  
 YEAR  
 Blower  
 WARRANTY  
**2**  
 YEARS

Class  
**TH3**  
 Highest level of respirator protection



Exceptional protection against molten metal splashes, impact, and puncture hazards. Its **ROBUST CONSTRUCTION** ensures minimal deformation, guaranteeing long-lasting durability and reliability.

### Comfortable Headcovering

- ◆ Flame Retardant Cotton and water resistance with super soft seal.
- ◆ Good sealing performance ensuring that a micro-positive pressure state is formed in face shield
- ◆ Easily replaceable via hook & loop seal.



### FACE SHIELD CLEAR

**Clear lens** - High-resolution Anti-scratch lens, No distortion of the vision, High light transmittance, Good wear resistance. Built-in wind direction adjustment



**CLEAR LENS**  
 WP403678-10

**Proven Impact Protection** - High density polycarbonate lens provides protection from high velocity impacts

**Premium polycarbonate lens** - has excellent clarity for clear, undistorted vision

### LENS SHADE 5

High-intensity visor which can be added to the transparent visor against UV/IR radiation



**SMALL LENS  
 SHADE 5 with pivot**  
 WP403678-16

**BIG LENS  
 SHADE 5**  
 WP403678-17



(EU) 2016/425 (PPE)  
 2011/65/EU (ROHS)  
 EN 175:1997-08  
 EN 166:2002-04  
 EN 169:2003-02 04  
 EN 379:2003+A1:2009  
 EN 12941 : 1998  
 + A1 : 2003 + A2 : 2008

PERSONAL PROTECTION  
EQUIPMENT

1

# POWERED AIR PURIFYING RESPIRATORS (PAPR)

## EuropurePLUS™ 5500 LS

### POWERED AIR PURIFYING RESPIRATOR-TH3 Class

The EuropurePLUS™ 5500 LS Powered Air Purifying Respirator features a smart blower system, integrated grind shield & side windows and an extra large auto-darkening lens with our exclusive light shade technology.

The EUROPURE PLUS 5500 LS brings the Highest level of respirator protection.

The EUROPURE PLUS 5500 LS features a smart blower system, integrated grind shield & side windows and an **extra-large 8025 mm<sup>2</sup>** auto-darkening lens. With our exclusive light shade technology and 1/1/1 optical clarity upgraded.

Helmet weight : 793g

#### What's Included:

- ◆ Respirator Welding Helmet
- ◆ Front cover lens (x5)
- ◆ Inner cover lens (x2)
- ◆ 1 set side lens cover
- ◆ Pre-Filter (x2)
- ◆ P3 Filter (x2)
- ◆ Lithium Ion Battery
- ◆ Spark Screen (x2)
- ◆ 120V Battery Charger
- ◆ Hose with Cover
- ◆ Padded Belt, Headcovering, Shoulder Strap
- ◆ Airflow Indicator
- ◆ Bandana
- ◆ Decal sheet
- ◆ Duffle Bag



**EUROPURE PLUS™**  
**5500 LS**  
 (including the blower)  
 W403676

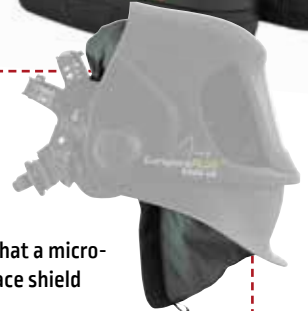


WARRANTY  
**1**  
 YEAR  
 Blower  
 WARRANTY  
**2**  
 YEARS



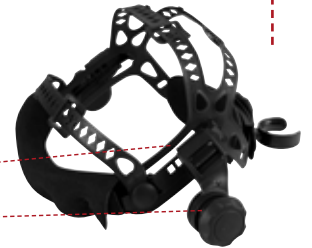
#### Comfortable Headcovering

- ◆ Flame Retardant Cotton and water resistance with super soft seal.
- ◆ Good sealing performance ensuring that a micro-positive pressure state is formed in face shield
- ◆ Easily replaceable via hook & loop seal.
- ◆ Two small drawstrings



#### Advanced Headgear

- ◆ Easy forward and backward slide adjustments
- ◆ Vertical position lock



Variable shades



Arc sensors



Low TIG amps rated



Grind mode / Shade control



Comfort



Viewing area



Optical class



Class



Lens switching speed



**NEW**

#### COMPATIBLE HARD HAT

EN 397:2012+A1:2012

- ◆ Protection against droplets and splashes of liquids : 3
- ◆ Resistance to medium energy impact : B
- ◆ Resistance to high speed particles at extremes of temperature : T

**LE SAFETY INDUSTRIAL HELMET**

W202311

Requires adaptor  
 W202313



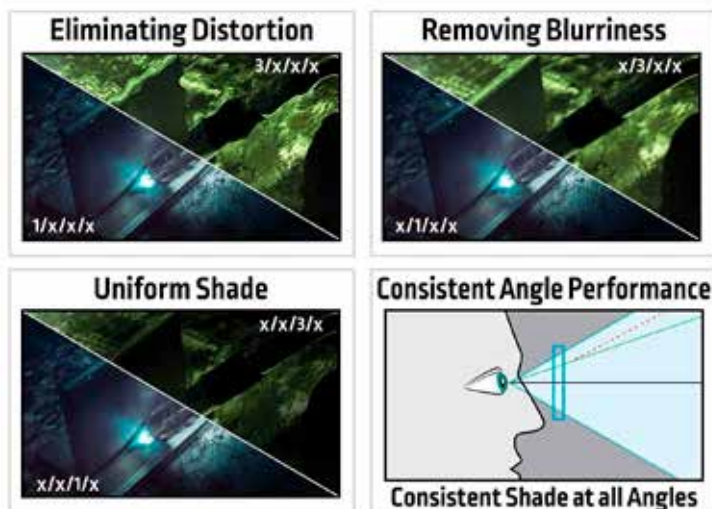
# POWERED AIR PURIFYING RESPIRATORS (PAPR)

## Light Shade technology



- Improves visibility.
- Provides a better, clearer view of the welding puddle.
- Reduces eye strain.

## Perfect 1/1/1 Optical Clarity



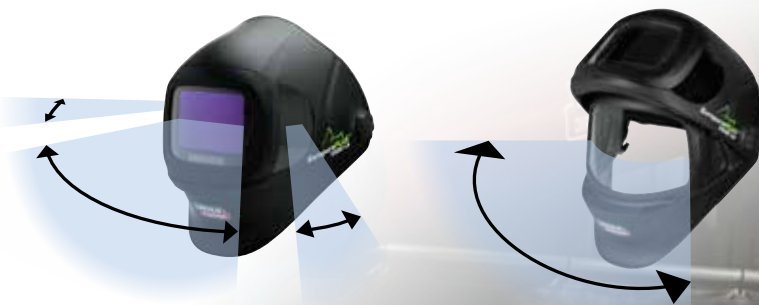
## Extra Large Auto-Darkening Lens

The 8 025 mm<sup>2</sup> auto darkening lens provides a large field of view to increase versatility and operator control.



## Maximising Field of View

The integrated clear grind shield and shade 5 side windows increase field of view in both the open and closed positions to offer productivity and safety enhancements.



WELDING PROCESS	MMA, MIG MAG
Optical Clarity Rating	1/1/1
Lens Switching Speed (sec)	1/25,000
Number of Arc Sensors	4
Variable Shade Range/Control	5-13 Internal
Optic Technology	Light Shade Technology
Magnifying "Cheater" Capable Lens	Yes
Grind Mode Shade / Control	DIN4 / FLIP UP
TIG Amp Rating	≥2 A /DC ≥2 A /AC
Light Sensitivity Control	Continuous
Delay Control Dark to Light (sec)	0,1-1,0 s fully adjustable
Cartridge Size (mm)	156 x 123 mm
Auto-Darkening Viewing Area (mm <sup>2</sup> )	8025

# POWERED AIR PURIFYING RESPIRATORS (PAPR)

## EUROPURE PLUS™ AIR FLOW SYSTEM

### Respiratory Specs



- ◆ **Easily adjustable:** One-touch operation.
- ◆ **User-friendly:** Indicator lights on display screen to check the status.

- ◆ **More considerate:** Visible, Audible and Vibrate auto alarming function to ensure safety.
- ◆ **High quality:** High level respirator protection EN 12941 TH3 P R SL.

## Superior Battery Life<sup>1</sup>

Operators can work a full shift (or more) without interruption. The PAPR comes with a standard battery that outpaces the battery life of competing systems.

Additionally, Lincoln Electric offers an extended battery which has a run time of up to 16 hours. This extra battery capacity provides flexibility when working overtime and is a safeguard when the system is not recharged overnight.

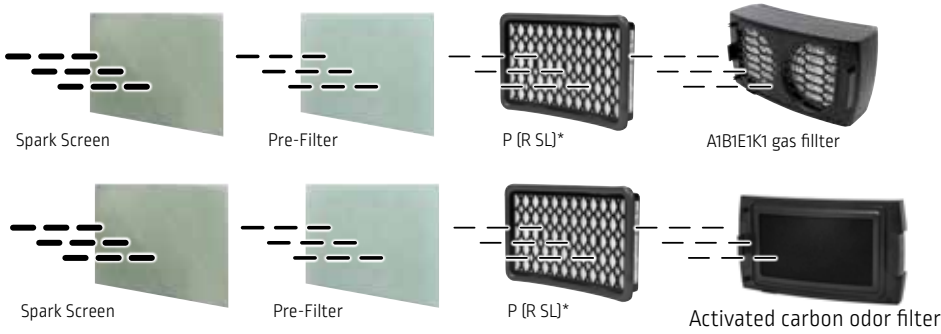
<sup>1</sup>Results based on low flow setting and 50% blocked filter.

see Optional Accessories on page 27



Air flow rate	Low speed: 170+ lpm(6+cfm) High speed: 210+ lpm(7.4+cfm)
Powered by	Battery type: Rechargeable Li-ion Battery <i>(More effective)</i>
Battery	Battery duration: 9 hours <i>(Standard battery, 170+lpm)</i> 5-6 hours <i>(Standard battery, 210+lpm)</i>
	Battery charge time: 1 hour <i>(Standard battery)</i> Battery life: 550 charges
Filter	Filter efficiency: ≥99.97%
Operating Temp.	Offering particulate protection from dust and welding fume hazards. For use with all welding applications. Visible, Audible and Vibrate alarms to ensure safety. -5 °C - +55 °C (23 °F - 131 °F)
Storing Temp.	-10 °C - +55 °C (14 °F - 131 °F)
Operating Relative Humidity	< 90%
Storage Relative Humidity	< 85%
Head Covering	FR Flame Retardant
PAPR Certification	EN 12941 TH3 P R SL
Warranty - Blower Assembly	1 Year
Warranty - Helmet Auto Darkening Lens	2 years

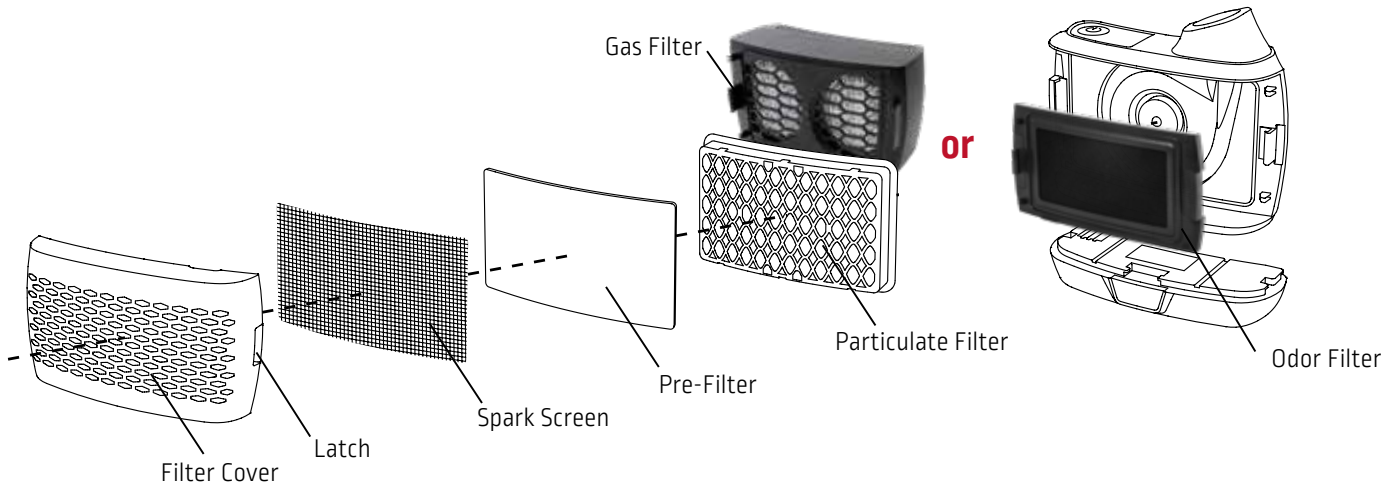
# Multi-Component Filter System



## Filter Combinations :

- The EuropurePLUS™ blower unit can only accommodate 2 filters
- P3 Particle filter + A1B1E1K1 Gas filter
  - P3 Particle filter + Activated carbon odor filter

\* Particulates (R=replaceable, SL=test against sodium chloride and paraffin oil)



	ODOR FILTER	P3 Particle Filter	Gas Filter
Item	WP403676-36	WP403676-17	WP403676-30
Suitable PAPR	EuropurePLUS		
Protection against	Eliminates odor when not using gas filter	Solid and liquid particles (including those containing oil), dusts, mists, and fumes from sanding, welding, grinding, cutting, drilling metal, mist droplets from spraying and organic vapors and gases	Organic and inorganic acidic ammonia gas
Weight	138g	105g	829g
Size	208 x 117 x 30 mm	175 x 112 x 35 mm	223 x 117 x 85 mm
Filter box type	Activated Carbon Odor filter	P3 Particle Filter	A1B1E1K1
Application operation	Assembly, facility maintenance, grinding, machine operation, welding, painting		
Application industry	Chemicals, mining, oil, natural gas		
Usage instructions	The odor filter must always be used with the Particle filter, pre-filter and spark screen. Do not use the odor filter alone.	P3 Particle filter permits a filtration efficiency of 99,997%	This gas filter must be always used together with EUROPURE PLUS 5500LS particle filter.
Warning	The filter assembly must be installed properly as per instruction guide. Cannot be cleaned. Replace with new ones if damaged or dirty.		

# POWERED AIR PURIFYING RESPIRATORS (PAPR) OPTIONAL ACCESSORIES EUROPURE PLUS 5500 LS

## Adjustable Leather Belt Assembly

Adjustable leather belt assembly secures EUROPURE PLUS 5500 LS air purifying blower to operators waist.

- ◆ Cushioned backpad for enhanced comfort
- ◆ Leather belt offers excellent durability against heat, spatter, sparks and more
- ◆ Slide adjustable fit allows operator to adjust tightness



**PAPR - ADJUSTABLE  
LEATHER BELT ASSEMBLY**

WP403676-29

## Fast-charging Extended battery

- ◆ Battery type : Rechargeable Li-ion Battery
- ◆ Battery duration : 15 hours (Low speed : 170+ lpm)  
9 hours (High speed : 210+ lpm)
- ◆ Battery charge time : 2 hours
- ◆ Battery life : 550 charges



**FAST-CHARGING  
EXTENDED BATTERY**

WP403676-2

## Backpack

Replaces belt and shoulder straps to improve weight distribution and comfort.

**BACKPACK**

WP403676-31



## Multi-Operator PAPR Battery Charger

- ◆ Charge 4 Batteries LITHIUM ION at one time
- ◆ Charges in 3 hours
- ◆ Compatible with Standard and extended Battery
- ◆ Battery charger indicator: switching led (red - charging, green - charging complete)
- ◆ Norm : CE 62368



**MULTI-OPERATOR PAPR  
BATTERY CHARGER**

WP403676-39



**FILTER TYPE:  
A1B1E1K1**

WP403676-30

**Pack of 5 pcs.  
WP403676-32**



**ODOR FILTER**

WP403676-36

**NEW!**

Requires  
adaptor  
W202313



**LE SAFETY  
INDUSTRIAL HELMET**

W202311



**QUICK-CONNECTION  
HOSE EXTENSION**

WP403676-38

(EU) 2016/425 (PPE)  
 2011/65/EU (ROHS)  
 EN 379:2003+A1:2009,  
 EN 175:1997,  
 EN 12941:2009-02



# POWERED AIR PURIFYING RESPIRATORS (PAPR)

## ZEPHYR LS / FLIP'AIR LS



**Complete solution designed to protect welders in the most effective way - TH2 Class.**

With the ZEPHYR LS / FLIP'AIR LS solution, you will find in a rugged carry bag:

- ◆ The ZEPHYR or FLIP'AIR helmet,
- ◆ The ZEPHYR air flow system,
- ◆ A protected hose connection,
- ◆ A shoulder strap,
- ◆ A battery charger,
- ◆ An air flow-meter,
- ◆ One extra filter.

Helmet with powered and filtered airflow



Flip-up LCD filter for grinding

**FLIP'AIR 4500 LS**

W000403675



**ZEPHYR 4500 LS**

W000403674



Grinding mode with external button



**Autodarkening LCD filters with wide vision field.**

**Filter Advance 4500 LS - Infotrack shade 3/8-13:**

The top-of-the-range solution for any application:

4 adjustment modes from an LCD screen with digital keys:

- ◆ Welding: variable shades 8-13, 4 optical sensors, sensitivity regulation and return to a clear shade.
- ◆ Grinding: filter activation in clear shade level 3 (except on FLIP'AIR with its flip-up front filter).
- ◆ Cutting, low current welding: adjustable shades 5 to 8 for low intensity TIG process, microplasma, oxy-fuel gas welding...
- ◆ "X mode": adjustable shade 3 to 8-13 with magnetic sensors for outside use or obscured arc welding

Infotrack system: provides useful information (current time - total welding time - alarm - temperature).

**WARRANTY**  
**2**  
**YEARS**



# POWERED AIR PURIFYING RESPIRATORS (PAPR)

## The ZEPHYR LS / FLIP'AIR LS air flow system

- ◆ Air flow system: **2 flow rates** (low 160 l/min and high 200 l/min).
- ◆ This equipment includes an indication of the **chosen flow**, an indication of the **battery charge**, and **two alarms** in case of flow insufficiency: **a tone and a vibration**. This is important for the welder who is often in a noisy environment. A specific system **sends the tone through the hose** to bring the sound to the welder.
- ◆ The belt, as well as the shoulder strap, is made in **flame retardant material**.
- ◆ The belt includes a cushion to ensure a high comfort level.
- ◆ **Disconnecting the battery is easy** with only one button to push. It is a **lithium battery with an 8-hour lifetime duration**. A stronger one can be put in place for special cases with **14-hour duration ±5%** (on request). No need to fully discharge the Li-Ion battery before recharging it.
- ◆ Opening the filter is simple by turning a quarter to the left. Two symbols indicate if it is locked or open, this is also indicated inside the filter box.

Inside, 3 kinds of filters can be included.

- ◆ One pre filter against the biggest particles
- ◆ One particle filter against the dust (> 0.3 micron)
- ◆ One carbon filter against the fumes and the odour.

**The whole system is water proofed.**



Class



Comfort



Arc sensors



Optical class



Respiratory protection



Grind mode / Shade control



Lens switching speed



Variable shades



Viewing area



X-mode



### Hose connection and hose cap.

The connection between the flow system and the helmet is made via the hose. The connection with the air flow system is water proof. The helmet includes a quick connection allowing flexibility when the welder moves his head. The hose is protected with an outer covering (75% cotton, 25% Kevlar).



### Flow circulation

You can choose between:

- ◆ air flow from the top of the helmet **1**
- ◆ or a lateral flow coming from each side at the mix level **2** (only for ZEPHYR),
- ◆ or a mix of these two solutions. These features ensure excellent welder comfort.



	ZEPHYR 4500 LS	FLIP'AIR 4500 LS
Switching time dark to light	10 positions from 0.1 s to 1 s (setting per digital key)	
Delay setting	10 positions (setting per digital key)	
Mode	Welding: Yes shade 8 to 13 per digital key Grinding: Yes shade 3 (per external button) - For FLIP'AIR flip-up LCD for grinding Cutting: Yes shade 5 to 9 per digital key X mode*: Yes Infotrack system**: Yes	
Constant UV/IR protection	Yes	
Battery type	2 lithium CR2450 3 Volts	
Mix power (battery/cell)	Yes	
Temperature scale	Use : -5 °C to +55 °C - Storage : -30 °C to +70 °C	
Weight	510 g (helmet) + 1 760 g (air flow system)	938 g (helmet) + 1 760 g (air flow system)
Standard	LCD filter: CE EN 379 - Helmet: CE EN 175	

\* X-mode: this mode allows welding in outdoor conditions or with very low arc current

\*\* Infotrack system: provides useful information (current time - total welding time - alarm - temperature)

To order		
Package (helmet + airflow system + LCD filter)	W000403674	W000403675
LCD filter	W000402681	W000402682

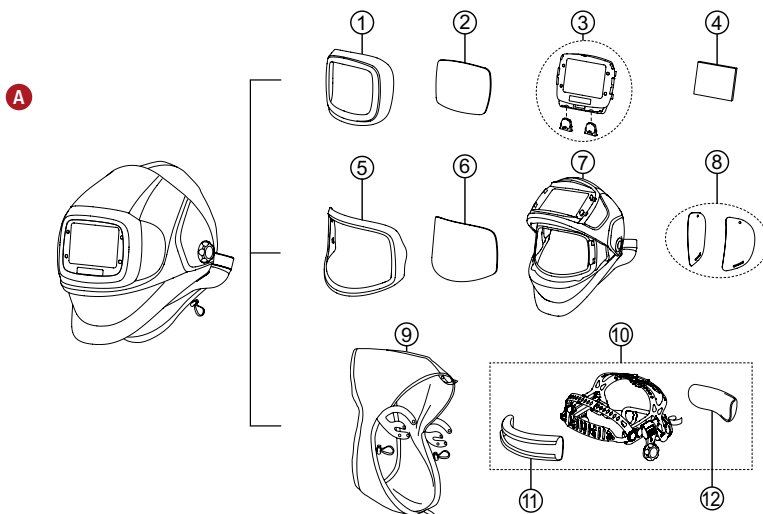
List of spare parts : see page 32

# POWERED AIR PURIFYING RESPIRATORS (PAPR)

## Spare parts for PPAR

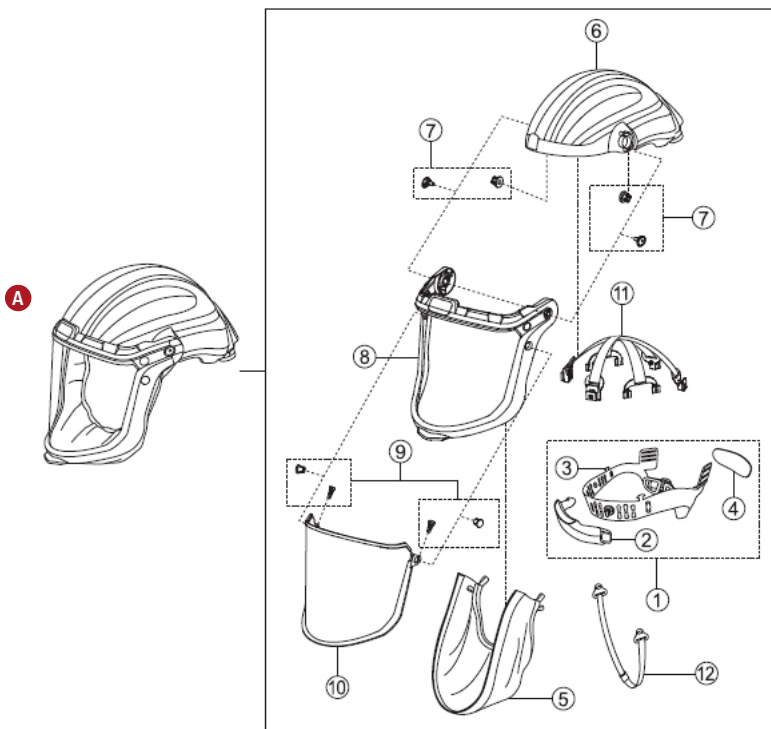
### EuropurePLUS™ 5500 LS

To order			
Description	Qty/pk	Reference	
<b>A</b> Helmet with Air Duct Assembly	1	WP403676-35	
<b>A</b> ① Front lens holder	1	WP403676-4	
<b>A</b> ② Outside cover lens (160.36 x 107.3 mm)	5	WP403676-5	
<b>A</b> ③ ADF cardtridge	1	WP403676-6	
<b>A</b> ④ Inside cover lens (107 x 80 mm)	5	WP403676-7	
<b>A</b> ⑤ Grind lens holder	1	WP403676-8	
<b>A</b> ⑥ Grind lens (anti-fog, 223 x 129.8 mm)	5	WP403676-9	
<b>A</b> ⑦ Helmet shell with air duct	1	WP403676-10	
<b>A</b> ⑧ Side lens cover	2	WP403676-11	
<b>A</b> ⑨ Face seal	1	WP403676-12	
<b>A</b> ⑩ Headgear (Including sweatband & soft pad)	1	WP403676-13	
<b>A</b> ⑪ Sweatband	2	WP403676-14	
<b>A</b> ⑫ Soft pad	2	WP403676-15	



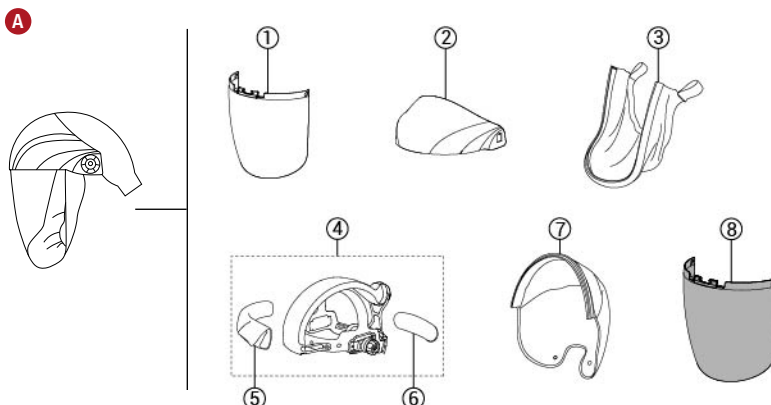
### EuropurePLUS™ CLEAR

To order			
Description	Qty/pk	Reference	
<b>A</b> Helmet with Air Duct Assembly	1	WP403678-15	
<b>A</b> ① Headgear	1	WP403678-1	
<b>A</b> ② Sweatband	1	WP403678-2	
<b>A</b> ③ Head suspension	1	WP403678-3	
<b>A</b> ④ Soft pad	1	WP403678-4	
<b>A</b> ⑤ Face seal	1	WP403678-5	
<b>A</b> ⑥ Headtop	1	WP403678-6	
<b>A</b> ⑦ Headtop buttons	1	WP403678-7	
<b>A</b> ⑧ Visor frame assembly	1	WP403678-8	
<b>A</b> ⑨ Visor frame buttons	1	WP403678-9	
<b>A</b> ⑩ Protective visor	1	WP403678-10	
<b>A</b> ⑪ Ribbon	1	WP403678-11	
<b>A</b> ⑫ Chin strap	1	WP403678-12	
Small lens shade 5	1	WP403678-16	
Big lens shade 5	1	WP403678-17	



### EuropurePLUS™ LE FACESHIELD

To order			
Description	Qty/pk	Reference	
<b>A</b> Helmet with Air Duct Assembly	1	WP403679-15	
<b>A</b> ① LE clear lens	1	WP403679-1	
<b>A</b> ② LE shell	1	WP403679-3	
<b>A</b> ③ LE sleeve	1	WP403679-4	
<b>A</b> ④ LE Headgear	1	WP403679-5	
<b>A</b> ⑤ Sweatband	1	WP403679-6	
<b>A</b> ⑥ Soft pad	2	WP403679-7	
<b>A</b> ⑦ LE Extended hood	3	WP403679-8	
<b>A</b> ⑧ LE lens shade 5	4	WP403679-2	

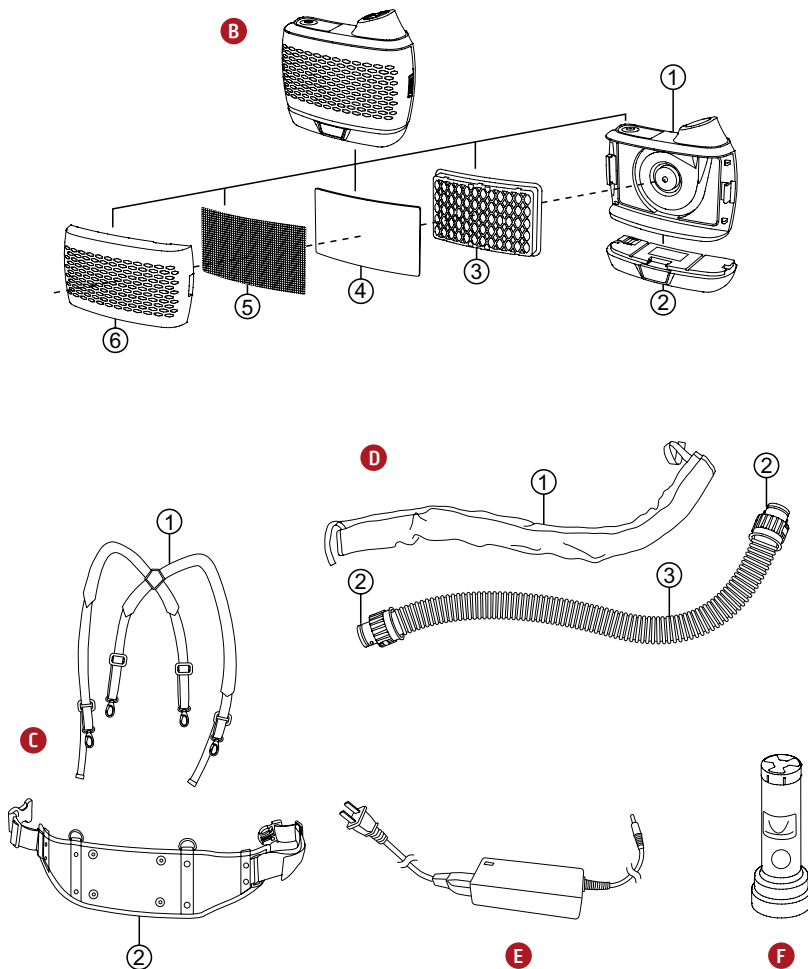




# POWERED AIR PURIFYING RESPIRATORS (PAPR)

## Spare parts for EUROPURE range









To order			
	Description	Qty/pk	Reference
<b>B</b>	<b>Helmet with Air Duct Assembly</b>		
<b>B</b> ①	Body	1	WP403676-16
<b>B</b> ②	Fast-charging standard battery	1	WP403676-1
<b>B</b> ③	Particle filter (P3 filter)	1	WP403676-17
	Particle filter (P3 filter) (EuropurePLUS™ 5500 LS)	1	WP403676-32
<b>B</b> ④	Pre-filter	5	WP403676-18
<b>B</b> ⑤	Spark screen	10	WP403676-19
<b>B</b> ⑥	Filter cover	1	WP403676-20
<b>B</b> ⑦	Gas filter (EuropurePLUS™ 5500 LS)	1	WP403676-21
	Gas filter A1B1E1K1 (EuropurePLUS™ 5500 LS)	1	WP403676-30
<b>B</b> ⑧	Fast charging extended battery (EuropurePLUS™ 5500 LS)	1	WP403676-2
<b>B</b> ⑨	Odor filter (EuropurePLUS™ 5500 LS)	1	WP403676-36
	Multi operator battery charger	1	WP403676-39
<b>C</b>	<b>Wears</b>		
<b>C</b> ①	Shoulder strap	1	WP403676-22
<b>C</b> ②	Belt cushion (Including screws & washers)	1	WP403676-23
<b>C</b> ③	Blower backpack (EuropurePLUS™ 5500 LS)	1	WP403676-31
<b>C</b> ④	Adjustable leather belt assembly (EuropurePLUS™ 5500 LS)	1	WP403676-29
<b>D</b>	<b>Hose</b>		
<b>D</b> ①	Hose cover	1	WP403676-24
<b>D</b> ②	O-ring	2	WP403676-25
<b>D</b> ③	Hose (Including O-ring)	1	WP403676-26
<b>D</b> ④	Quick connection hose (EuropurePLUS™ CLEAR)	1	WP403678-13
<b>E</b>	<b>Battery Charger</b>		
	Fast-charging battery charger	1	WP403676-3
<b>F</b>	<b>Airflow Indicator</b>		
	Airflow indicator EuropurePLUS™ 5500 LS	1	WP403676-27
	Airflow indicator EuropurePLUS™ CLEAR	1	WP403678-14
<b>Others</b>			
	Duffle bag	1	WP403678-28
	Velcro	1	WP403678-40
	Spring	1	WP403676-37



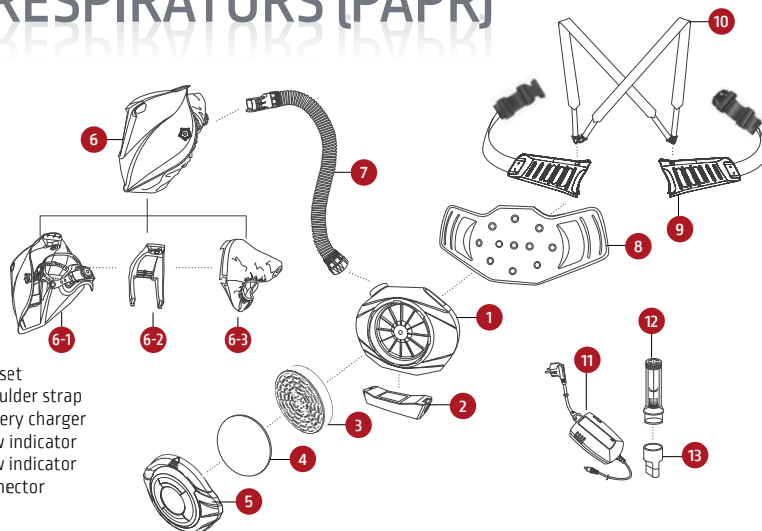
# POWERED AIR PURIFYING RESPIRATORS (PAPR)

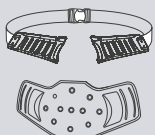
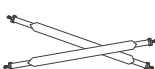
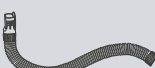
## Spare parts for ZEPHYR LS / FLIP'AIR LS





### ZEPHYR air flow system

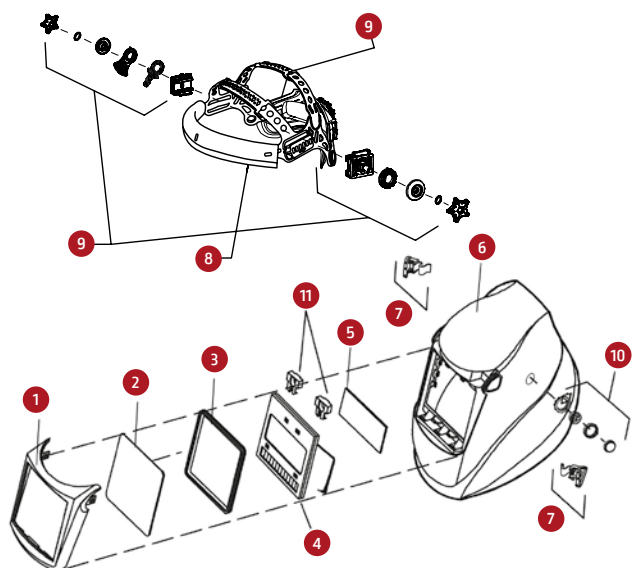
To order		
	Air flow system body	On demand
	Prefilter Z	W000271207
	Filter cover	On demand
	Flow indicator	On demand
	Particle filter (P3)	W000271208
	2021 Battery	W000271210-1
	2021 Battery charger	W000271211-1
	Flow indicator connector	On demand

1. Air flow system body
2. Battery
3. Particle Filter (P3)
4. Prefilter
5. Filter cover
6. Helmet Shell
- 6-1. Helmet
- 6-2. Blow
- 6-3. Hood
7. Air hose
8. Belt cushion
9. Belt set
10. Shoulder strap
11. Battery charger
12. Flow indicator
13. Flow indicator connector



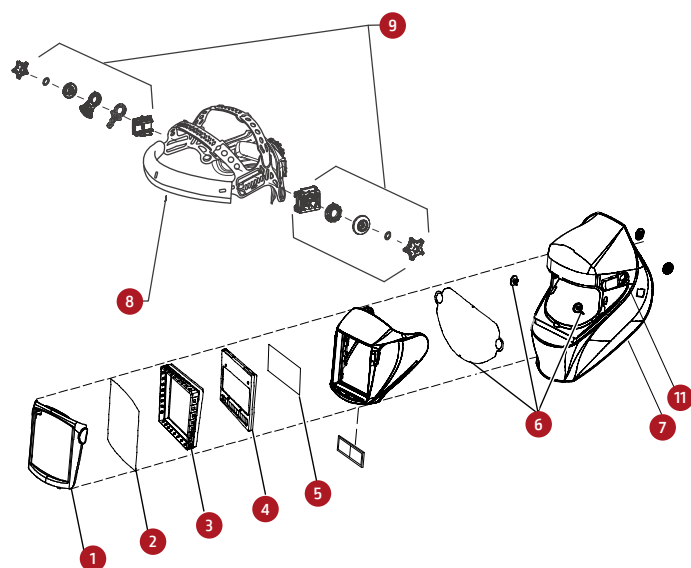
To order		
	Belt and Belt cushion	W000271203
	Shoulder strap	W000271204
	Air hose	W000271205

To order		
Option Item		
	Helmet Shell	W000402494 (ZEPHYR) W000403675-SP-1 (FLIP AIR)
	Green protection flip air	W000382676
	Odor filter	W000271209
	Air hose cover	W000271206



### ZEPHYR LS 4500

To order		
1 - Front Lens Holder	W000272828-1	
2 - Outside Cover lens	W000261993	
3 - Gasket, Lens Assembly	W000261992	
4 - ADF cardtridg	W000402681	
5 - Inside Cover lens	W000261994	
6 - Replacement shell	W000402494	
7 - Buttons, Front Lens Holder (L/R)	W000276258	
8 - Sweatband	W000402690	
9 - Headgear I	W000402692	
10 - Kit external grinding button	W000378989	
11 - Spare batteries (CR 2450 lithium)	W000260920	



### FLIP'AIR LS

To order		
1 - Front Lens Holder	W000403674-1	
2 - Outside Cover lens	W000375551	
3 - Gasket for FLIP'AIR LS	W000403675-6	
4 - ADF cardtridg	W000402682	
5 - Inside Cover lens	W000261994	
6 - Grinding cover kit	W000374799	
7 - Replacement shell	W000403675-SP-1	
8 - Sweatband	W000402690	
9 - Headgear I	W000402692	
10 - Spare batteries (CR 2450 lithium)	W000260920	
11 - HINGE X2	W000403675-7	

# PASSIVE HANDSHIELDS

## Heavy duty solutions

### Hand FG

- ◆ Polyester reinforced fibreglass.
- ◆ Excellent resistance to high temperatures (up to 400 °C) and to spatters.
- ◆ UV/IR protection shade 11.
- ◆ Excellent thermal and electrical isolation.
- ◆ Delivered without glass.
- ◆ Weight: 424 gr (without glass).

Window 105 x 50 mm

Window 110 x 90 mm

To order W000372272

To order W000372273



# PASSIVE HELMETS

Helmet standard  
(EU) 2016/425 (PPE)  
EN 175:1997

## Light duty solutions

### Helmet TP

- ◆ Thermoplastic helmet.
- ◆ Single window 108 x 51 mm, 98 x 75 mm or 110 x 90 mm.
- ◆ Adjustable "B" headgear.
- ◆ Delivered without glass.
- ◆ Weight: 420 gr.

Window 110 x 90 mm

To order W000011113

Window 98 x 75 mm

To order W000011114



## Heavy duty solutions

### Helmet FG

- ◆ Reinforced fibreglass.
- ◆ High thermal resistance up to 400 °C.
- ◆ Adjustable "B" headgear.
- ◆ Delivered without glass.
- ◆ Weight: 414 gr.

Window 105 x 50 mm

To order W000011103

Window 110 x 90 mm

To order W000011104



### Multi Flip-up

- ◆ Lightweight welding helmet.
- ◆ Optimal use/comfort.
- ◆ Long lifetime.
- ◆ Headgear with rack, rugged and very comfortable.
- ◆ Complete with headgear, sweat band, 2 flip-up lens holder welding lens.
- ◆ Shade 10.



Flip-up window  
105 x 50 mm

To order W000010804

# PASSIVE LEATHER HELMETS

Leather helmets for welding operations in difficult access places, dedicated to short time applications and control.

## Folding leather helmet

- ◆ Grain leather.
- ◆ Folding model, ideal for supervisors.
- ◆ Very light (120 grammes).
- ◆ Delivered with 105 x 50 mm shade 11 glass.

Window 105 x 50 mm

To order W000011115



# LEATHER MASKS

## Application: welding pipe

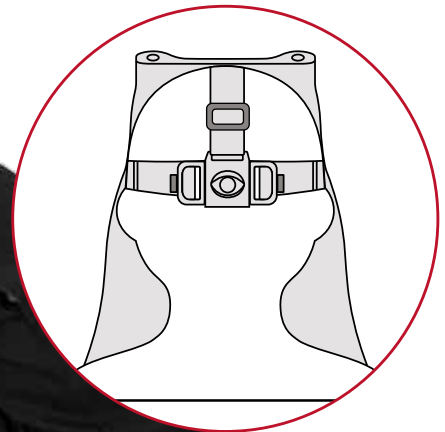
Ideal to work in extremely restricted areas.

Flip-up leather welding masks are designed to protect the eyes and face from sparks, spatter and harmful radiation under normal welding conditions.

(EU) 2016/425  
Harmonized standards  
EN 166:2001,  
EN 379:2003+A1:2009

### Processes:

Stick, TIG, Pulsed TIG, MIG,  
Pulsed MIG, Flux-Cored, Gouging,  
Plasma Cutting, Grinding



# LEATHER MASKS

(EU) 2016/425  
Harmonized standards  
EN 166:2001,  
EN 379:2003+A1:2009

PERSONAL PROTECTION  
EQUIPMENT

1

## Leather helmet Flip up with Variable Shade

- ◆ Flip up 105\*50
- ◆ Split Leather
- ◆ Innovative Adjustable headgear to fit the wearer's head circumference
- ◆ Comfort foam at the forehead and chin levels.
- ◆ 363 g



Flip-up window  
Variable Shade

To order W1114

### What's included:

- ◆ Two transparent protection screens



WARRANTY  
**1**  
YEAR

Low TIG  
amps rated



Grind mode /  
Shade control



Lens switching  
speed



Viewing area



Variable  
shades



Arc sensors



Optical class



Battery



## Leather helmet Flip up with Shade 11

- ◆ Flip up 105\*50
- ◆ Split Leather
- ◆ Innovative Adjustable headgear to fit the wearer's head circumference
- ◆ Comfort foam at the forehead and chin levels.
- ◆ 351 g



Flip-up window  
Shade 11

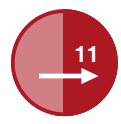
To order W1113

WARRANTY  
**1**  
YEAR

Viewing area



Fixed  
shades



# SPARE PARTS

## Adjustable type "B" headgear

For TP and FG helmets.



**To order** W00010884

## Comfort sweat band

Foam band For WELDLUX helmet.

- ◆ Fabric band covered with foam.
- ◆ Velcro closing.
- ◆ Fire-retardant.



**To order** Z00820115

(2 pieces pack)

# WELDING GLASSES

## WELDGLASS

(EU) 2016/425 (PPE)  
EN166:2001  
EN169:2002

Choose the lens shade adapted to your working conditions.

Current [A]	Coated electrodes	MIG Heavy metals	MIG Light alloys	MAG	TIG	Gouging	PLASMA Cutting	PLASMA Welding
1								
2.5								6
5					8			7
10					8			8
20	8				9			9
30	9				10			10
40	9				10			10
60	10				11			11
80	10				11			11
100	10	10			12		11	12
150	11	11	11		12		11	12
175	11	11	11		13	10	11	13
200	12	12	12		13	11	12	13
225	12	12	12		13	11	12	13
250	12	12	12		13	11	12	13
300	13	13	13		14	12	13	14
350	13	13	13		14	12	13	14
400	13	13	13		14	13	13	14
450	13	13	13		14	13	13	14
500	14	14	14		15	14	14	15
	14	14	15	15	15	15	15	15



# WELDING GLASSES

## WELDGLASS



(EU) 2016/425 (PPE)  
EN166:2001  
EN169:2002

### Filtering coloured glasses

DIMENSIONS 105 x 50 mm				
Pack		Shade		Box
5 pieces	W000335009	5	-	100 pieces
5 pieces	W000335010	6	-	100 pieces
5 pieces	W000335011	7	-	100 pieces
5 pieces	W000335012	8	W000010918	100 pieces
5 pieces	W000335013	9	W000010919	100 pieces
5 pieces	W000335014	10	W000010920	100 pieces
5 pieces	W000335015	11	W000010921	100 pieces
5 pieces	W000335016	12	W000010922	100 pieces
5 pieces	W000335017	13	W000010923	100 pieces

DIMENSIONS 98 x 75 mm				
Pack		Shade		Box
5 pieces	W000335089	5	-	100 pieces
5 pieces	W000335093	9	W000010943	100 pieces
5 pieces	W000335094	10	W000010944	100 pieces
5 pieces	W000335095	11	W000010945	100 pieces
5 pieces	W000335096	12	-	100 pieces
5 pieces	W000335097	13	-	100 pieces

DIMENSIONS 110 x 90 mm				
Pack		Shade		Box
5 pieces	W000335035	5	-	100 pieces
5 pieces	W000335036	6	-	100 pieces
5 pieces	W000335037	7	-	100 pieces
5 pieces	W000335038	8	W000010930	100 pieces
5 pieces	W000335039	9	W000010931	100 pieces
5 pieces	W000335040	10	W000010932	100 pieces
5 pieces	W000335041	11	W000010933	100 pieces
5 pieces	W000335042	12	W000010934	100 pieces
5 pieces	W000335043	13	W000010935	100 pieces

DIMENSIONS 108 x 51 mm				
Pack		Shade		Box
5 pieces	-	8	W000010954	100 pieces
5 pieces	W000335051	9	W000010955	100 pieces
5 pieces	W000335052	10	W000010956	100 pieces
5 pieces	W000335053	11	W000010957	100 pieces
5 pieces	W000335054	12	W000010958	100 pieces
5 pieces	W000335055	13	-	100 pieces

(EU) 2016/425 (PPE)  
EN166:2001 / EN169:2002

### GOLDEN protane® glasses

Skin pack	Dimensions 105 x 50 mm	Shade	Dimensions 133 x 114 mm	Skin pack	Dimensions 98 x 75 mm
5 pieces	W000335025	9	W000335063	5 pieces	W000335173
5 pieces	W000335026	10	W000335064	5 pieces	W000335174
5 pieces	W000335027	11	W000335065	5 pieces	W000335175
5 pieces	W000335028	12	W000335066	5 pieces	W000335176
5 pieces	W000335029	13	W000335067	5 pieces	W000335177

The GOLDEN PROTANE® glasses will prove their efficiency in all welding operations where the arc heat causes discomfort. The GOLDEN PROTANE® filter with a gold mirror coating reflects an additional 90% of the infrared radiation and reduces the amount of heat the eyes are exposed to.

- > less irritation and therefore less tiredness,
- > more precision and better quality work,
- > more comfort and better working conditions.

**"Test GOLDEN PROTANE® and weld cool".**

### Protection glass or plate CR-39®

Dimensions	Clear glass		Protection plate CR-39®
	Skin pack - 5 pieces	Box - 100 pieces	Skin pack - 5 pieces
98 x 75 mm	W000335098	W000010950	W000335100
105 x 50 mm	W000335018	W000010926	W000335020
108 x 51mm	W000335056	W000010962	W000335058
110 x 90 mm	W000335044	W000010938	W000335046
133 x 114 mm	W000335069	-	W000335071

(EU) 2016/425 (PPE)  
EN166:2001

# SAFETY GLASSES

(EU) 2016/425 (PPE)  
 EN166:2001  
 EN167:2001  
 EN168:2001  
 EN169:2002  
 EN170:2002  
 EN171:2002  
 EN172:1994



## Choice criteria

Safety eyewear is mainly used to protect the eyes against the light produced by flame welding or cutting or against mechanical particles (grinding for example).

Our products are classified in 2 categories:

- ◆ Welding range
- ◆ Protection range

## Marking of the frame:

- ◆ EN166:2001
- ◆ Resistance to impact:
  - **A**: High energy impact
  - **B**: Medium energy impact
  - **F**: Low energy impact
  - **S**: Increased robustness

Reg. (EU) 2016/425

Make sure that the product is suitable for the intended use and conform with Reg. (EU) 2016/425 and **Standards by fields of use - [Lens Marking]:**

### Standards - Basic:

- ◆ EN165:2005 - Personal eye protection - Vocabulary
- ◆ EN166:2001 - Personal eye protection - Specifications
- ◆ EN167:2001 - Methods for optical tests
- ◆ EN168:2001 - Methods for tests other than optical

### Standards - Product Type:

- ◆ EN169:2002 - Filters for welding and related techniques - Transmittance requirements and recommended use - Welding Filters

**Application:** Braze welding (shade 3 to 5)

#### Appropriate Lens Colors:

- IR Shades 3
- IR Shades 5

- ◆ EN170:2002 - Ultraviolet filters - Transmittance requirements and recommended use - Ultraviolet (UV) Filters C

**Application:** Sunlight

#### Appropriate Lens Colors:

- Clear
- Amber

- ◆ EN171:2002 - Infrared filters - Transmittance requirements and recommended use

- ◆ EN172:1994 - Solar radiation filters - Sunglare filters for industrial use- Solar (sun protection) Filters

**Application:** High intensity solar glare

#### Appropriate Lens Colors:

- I/O Silver (indoor/outdoor)
- Blue Mirror
- Silver Mirror
- Outdoor work

## Lens marking:

**X - X.XXXXXX**

Possibilities:

- **4**: Protection against large dust particles - particles > 5 µm
- **5**: Protection against gas and fine dust particles - particles < 5 µm
- **9**: Protection against projections of molten metals and hot-soli
- **R**: Increased reflectance of the ocular in the IR
- **K**: Resistance of the ocular to surface damage by fine particles
- **N**: Resistance of the ocular to fogging
- **T**: Temperature resistance from -5°C to +55°C

Resistance to impact:

- **A**: High energy impact
- **B**: Medium energy impact
- **F**: Low energy impact
- **S**: Increased robustness

Usage (Optical class):

- **1**: Continuous use
- **2**: Medium use
- **3**: Occasional use

Manufacturer's identification

Filter identification code

- UV: **2** or **3**
- IR: **4**
- Sun: **5** or **6**
- Welding: **4** to **7** [see chart]

Numerical filter scale (protection level)

- UV: **1.2** to **5**
- Infrared (IR): **1.2** to **10**
- Sun filters: **1.1** to **4.1**
- Welding filters: **4** to **14**

**Caution: Goggles can not be used for arc welding > 7 due to UV, IR and skin protection requirements.** [recommendations of welding filter glass can be seen on page 36-37]

### Welding scale

	q = acetylene flow rate l/h			
	q ≤ 70	70 < q ≤ 200	200 < q ≤ 800	q > 800
Flame welding Braze welding and soldering	4	5	6	7
	q = acetylene flow rate l/h			
	900 ≤ q ≤ 2 000	2 000 < q ≤ 4 000	4 000 < q ≤ 8 000	
Oxy-cutting	4	6	7	

### Specification according to EN175:1997

This standard applies to PPE for eye and face protection during welding and related procedures. The conforming PPE is designed to include protection filters with or without protective/reinforced oculars, certified in conformity to EN166:2001 and to EN169:2002.



# LINCOLN ELECTRIC PREMIUM EYE PROTECTION (PEP)



## Protection range

### LE PEP Work Safety Glasses

Suited for mechanical work. For use under normal daylight conditions, indoor or outdoor applications, also in twilight.

- ◆ Stylish, lightweight half-frame design
- ◆ Optical radiation and UV protection
- ◆ High density polycarbonate frame
- ◆ Protection against high-speed particles at 45 m/s
- ◆ Markings: 2-1,2
- ◆ Meets EN 166 + EN 170 UV400 optical class 1



To order WPEP-2023-2-IR0



To order WPEP-2023-3-IR0A

### LE PEP Shine Safety Glasses

Ideal for indoor applications in low light environments. Excellent choice for inspection work.

- ◆ Innovative, ultra-light, protective eyewear solution
- ◆ Optical radiation and UV protection
- ◆ Sunglare filter for industrial use
- ◆ High density polycarbonate frame
- ◆ Protection against high-speed particles at 45 m/s
- ◆ Markings: 2-1,2
- ◆ Meets EN 166 + EN 170 UV400 Optical class 1

### LE PEP Day-Night Safety Glasses

Suited for construction or outdoors applications where sunlight and glare can be an issue.

- ◆ Grey tinted lens block most light and do not alter colors
- ◆ Optical radiation and UV protection
- ◆ Sunglare filter for industrial use
- ◆ High density polycarbonate frame
- ◆ Protection against high-speed particles at 45 m/s
- ◆ Markings: 5-3,1
- ◆ Meets EN 166 + EN 172 UV400 Optical class 1



To order WPEP-2023-4-IR010

# LINCOLN ELECTRIC PREMIUM EYE PROTECTION (PEP)



## Protection range

### LE PEP Spark Safety Glasses

Suited for outdoor applications in strong sunlight.

- ◆ Smoke mirror lens based on a grey tinted sunlens absorbing about 90% of visible light
- ◆ Additional silver mirror coating
- ◆ High density polycarbonate frame
- ◆ Protection against high-speed particles at 45 m/s
- ◆ Markings: 5-3.1
- ◆ Meets EN 166 + EN 172 UV400 Optical class 1



To order WPEP-2023-5-IR05

## Welding range



To order WPEP-2023-1-IR5

### LE PEP Welding Safety Glasses

Suited for grinding, oxyfuel cutting, plasma cutting and more.

- ◆ Compact IR 5 cutting and grinding goggles
- ◆ Excellent comfort, performance and protection
- ◆ High density polycarbonate frame
- ◆ Protection against high-speed particles at 45 m/s
- ◆ Markings: 5
- ◆ EN 166 + EN 169 Optical class 1

# See our offer!



All the safety glasses  
are sold individually,  
in fabric case, with cord





PERSONAL PROTECTION  
EQUIPMENT

**WELDLINE**  
by Lincoln Electric



# PERSONAL PROTECTIVE EQUIPMENT

MORE COMFORT & SAFETY FOR WELDERS

# GLOVES AND CLOTHES IN PREMIUM EUROPEAN LEATHER



The leather selection comes from one of the most important tanning centers in the world. Our partners are the experts in recognizing the origin of the leather, strength of the fibers and quality. Each production process, beginning with purchasing raw materials and ending with sewing, is fully controlled and validated.

These high quality leathers are required to produce the most prestigious products in the sector.

## DESIGNED FOR WELDERS BY WELDERS

Our gloves and clothes were studied and tested by a team of professional welders to better understand the Customer needs. Thanks to proper research and including professionals at development stage, we were able to provide products with lightness, softness, ergonomics and durability incomparable in the market.

## THE STITCHING

The thread used for the stitching is very important, we use a high tenacity thread. By norm ISO 13938-1 the strength stitching must be > 110 Newton, our bursting strength of stitching is 608 Newton.

## ECO FRIENDLY LABEL

Lincoln Electric company follows a moral obligation to maintain focus on eco-friendly solutions. Our leather products are manufactured using 80% less water than traditional leather treatment, additionally all leather scraps are collected by a certified company in Italy (ILSA S.p.A.), which reuses the scraps and transform them into organic fertilizer.

# LEATHER CLOTHES

## YOUR SAFETY IN THE WELD'fit COMFORT!

WELD'fit products, heat and flame resistant, provide the higher protection for the welders.

### Standard:

Rules (EU) 2016/425 European Regulation on Personal Protective Equipment

**EN ISO 13688:2013:** *(general requirements for innocuousness, ergonomics and sizes),*

**EN ISO 11611:2015:** *(use in welding operations and related procedures)*

Products are manufactured according to the Rules (EU) 2016/42

### Composition:

- **Jacket:** split leather, grain leather
- **Apron, Sleeves and Gaiters:** split leather, grain leather

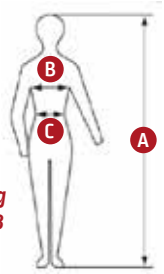
### Use:

Welders require specialized clothing to protect themselves during manual welding techniques that produce significant drops and splatters. Class 2 jackets, aprons, sleeves, and gaiters are suitable for this purpose. These garments are designed to withstand the demands of various welding techniques, including MMA welding (with basic electrode or covered with cellulose), MAG welding (CO<sub>2</sub> or mixed gases), MIG welding (with high current), welding with flux cored wire, plasma cutting, trimming, oxygen cutting, thermal spray painting, and operation of machinery in tight spaces, overhead or similar positions, or narrow spaces.

This garment is designed to protect against accidental contact with small flames, splattered molten metal, radiating heat, and brief accidental electrical contact. It is not intended for any other type of protection beyond the uses described above. Please note that the manufacturer cannot be held responsible for any damage that may occur from using this garment for purposes other than those specified.

### Chart Size

Sizing according to: **EN ISO 13688** (in cm)



Art. nr.	A	B	C
W2985-SIZE-CE			
W2987-SIZE-CE	166	98	90
W3106-SIZE-CE	-	-	-
W3112-SIZE-CE	200	160	120
WP10570-SIZE			

	A	B	C*
M (48)	171 - 176	96	84
L (52)	177 - 182	104	92
XL (56)	183 - 187	112	100
2XL (60)	188 - 192	120	112
3XL (64)	193 - 196	128	124

\* C = +5 cm

## GAITERS



Gaiters in split leather fastened with straps or with leather band. Gaiters are used to protect the bottom of the trousers and shoes from sparks and heat generated during welding and grinding operations. Width 30cm.

### Technical description

- The gaiters are manufactured in four pieces that are stitched together, completed with adjustable leather belt or velcro strap and under-strap to secure the shoes.

**GAITERS with STRAPS** W000404081

**GAITERS with VELCRO** W000404082

PPE II° category

Certified by EU 425/2016

EN 11611 A1 Class 2

## SHORT AND LONG SLEEVES

The short and long sleeves in split leather are intended to protect arms from fine welding splatters.



**SHORT  
OVERSLEEVES**

W000404083

**Cover sleeves width 40 cm,** ergonomic, elastic at the end.

### Technical description

- Fixed with leather straps.
- Tightening elastic to the wrists.
- Single size.

PPE II° category

Certified by EU 425/2016

EN 11611 A1 Class 2

**Cover sleeves width 60 cm,** ergonomic, elastic at the wrist and leather laces on the shoulders, fastening with rapid connection.

**LONG  
OVERSLEEVES**

W000404084



# LEATHER CLOTHES

## GRAIN LEATHER APRON

This apron is designed to protect clothes from welding spatters and grinding particles.

### Technical description

- Leather strap fixed through bound eyelets to the waist and flap.
- Single size.
- With leather laces, fastening with rapid connection, measures 1100x800 mm.

**GRAIN APRON 1100x800** W000404085

PPE II° category  
Certified by EU 425/2016  
EN 11611 A1 Class 2



## SPLIT LEATHER APRON

This apron is designed to protect clothes from welding spatters and grinding particles.

**Split leather apron** with leather laces, fastening with rapid connection, measures 1100x800 mm.

**SPLIT APRON 1100x800** W000404086

**Split leather apron** fastening with rapid connection, measures 900x600 mm.

**SPLIT APRON 900x600**  
Leather laces W000404087

**Split leather apron** with eyelets and fabric laces, measures 900x600 mm.

**SPLIT APRON 900x600**  
Fabric laces W000404088

### Technical description

- Leather or cotton strap with quick release clips to the waist and flap.
- Single size.
- Sewn finish with red fabric border



Closing by clips or cotton straps



PPE II° category  
Certified by EU 425/2016  
EN 11611 A1 Class 2

## LEATHER CLOTHES

## SPLIT LEATHER WELDING JACKET

**Split leather jacket**, comfortable, fastened with snap buttons covered by leather, pocket inside, elastic at the wrist.

Welding jacket in split leather are designed to protect the upper body of the user from fine welding spatters and grinding particles.

### Technical description

- The jacket fastens in the front with an overlap of leather and Velcro for additional protection against spatters, the inner neck is made of double cotton for comfort.
- Tightening elastic to the wrists.
- Finished in red trim.
- Length: +/- 780 mm.

Size	Index no
S	W000404090-S
M	W000404090-M
L	W000404090-L
XL	W000404090
2XL	W000404091
3XL	W000404090-3XL
4XL	W000404090-4XL
5XL	W000404090-5XL

PPE II<sup>o</sup> category  
Certified by EU 425/2016  
EN 11611 A1 Class 2



Button closure  
under flap

Breathable

**Customize your welding jacket thanks to the removable velcro band**

With the blank velcro add your company logo, name, message of your choice\*.

\* Not included



# GRAIN LEATHER WELDING JACKET

Grain leather jacket, comfortable, regular fit, fastened with snap buttons covered by leather, pocket inside, elastic at the wrist.

Half-back flame-retardant cotton.

### Technical description

- Half of the back is made from flame retardant cotton ensuring a light, flexible Jacket.
- The jacket fastens in the front with an overlap of leather and Velcro for additional protection against spatters, the inner neck is made of double cotton for comfort.
- Tightening elastic to the wrists.
- Finished in red trim.
- Length: +/- 780 mm.

Size	Index no
S	W000404092-S
M	W000404092-M
L	W000404092-L
XL	W000404092
2XL	W000404093
3XL	W000404092-3XL
4XL	W000404092-4XL
5XL	W000404092-5XL

PPE II° category  
 Certified by EU 425/2016  
 EN 11611 A1 Class 2



**Customize your welding jacket thanks to the removable velcro band**

With the blank velcro add your company logo, name, message of your choice\*.

\* Not included



# LEATHER CLOTHES

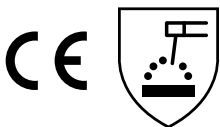
## YOUR SAFETY IN THE WELD'FIT COTTON CLOTHING!

WELD'fit WELDING GARMENTS are made from 305 gr/m<sup>2</sup> flame retardant fabric - high heat resistance and spatter, contain multiple pockets which are fastened with velcro and manufactured according to EN ISO 11611:2015 Class 1/A1+A2.

### Regulation

Personal Protective Equipment Regulation PPER (EU) 2016/425.

EN ISO 11611:2015 → EN ISO 11611 - Protective clothing for welding and related processes.



**Class 1 A1+A2**  
**EU 2016/425**

**Class 1**= protection against less hazardous welding techniques and situations causing lower levels of spatter and radiant heat.

**A1-A2**= Protection against limited flame spread.

Clothing produced according to EN ISO 11611 serves to protect the wearer whilst welding or performing allied processes involving comparable risks. This clothing provides protection against spatter (*minor splashes of molten metal*) and so-called welding beads as well as brief contact with flames and radiant heat from the arc. Under normal welding conditions, it offers limited electrical insulation against DC voltage of up to approximately 100 V.

According to EN ISO 11611, the clothing is divided into the following classes depending on their level of protection: Class 1 or Class 2.



Sleeve tightening snap button



Customizable Velcro



**IMPORTANT:**  
AS REQUESTED BY EN NORMS, OUR ITEMS HAVE CLEAR AND PERMANENT MARKING AND ARE SOLD TOGETHER WITH THEIR INSTRUCTION MANUAL

# LEATHER CLOTHES

## FR\* BLACK WELDING TROUSERS

Practical and comfortable trousers in flame retardant cotton. Black & Red flame retardant fabric 305 gr./m<sup>2</sup>.

Personal Protective Equipment Regulation PPER (EU) 2016/425. EN ISO 11611:2015 Class 1/A1+A2

### Technical description

- Knee protection.
- Left side back pocket, fastened with velcro.
- Black Kevlar thread (Aramid fabric).
- Machine Washable 40°.

Index no	
Size M	WP10570-M
Size L	WP10570-L
Size XL	WP10570-XL
Size 2XL	WP10570-2XL



## FR\* WELDING HOOD



One size fits all. Head and neck cover. Black & Red flame retardant fabric 305 gr./m<sup>2</sup>.

### Technical description

- Black Kevlar thread (Aramid fabric).
- Machine Washable 40°.

FR\* welding hood - All size

W2995-ALL-CE

Personal Protective Equipment Regulation PPER (EU) 2016/425. EN ISO 11611:2015 Class 1/A1+A2

## FR\* DOO RAG

One size fits all. Let your WELDLINE by LINCOLN ELECTRIC colours show! This premium doo rag, made from 305 gr./m<sup>2</sup> flame retardant fabric, features an athletic mesh for fast sweat evaporation.

### Technical description

- Black Kevlar thread (Aramid fabric).
- Machine Washable 40°.

FR\* DOO RAG - All size

W2993-ALL-CE

Personal Protective Equipment Regulation PPER (EU) 2016/425. EN ISO 11611:2015 Class 1/A1+A2



## FR\* WELDING BEANIE

One size fits all. Protect your head with this authorized WELDLINE by LINCOLN ELECTRIC flame retardant beanie.

### Technical description

- Black Kevlar thread (Aramid fabric).
- Stretch.
- Machine Washable 40°.



FR\* welding Beanie - All size

W2994-ALL-CE

Personal Protective Equipment Regulation PPER (EU) 2016/425. EN ISO 11611:2015 Class 1/A1+A2

\*FR = Flame Retardant cotton

# LEATHER CLOTHES

## TRADITIONAL SPLIT LEATHER-SLEEVED JACKET

Split cowhide sleeves resist spatter and wear, while lightweight material on the chest and back keep the wearer cool and comfortable. This basic jacket features an inside pocket and adjustable sleeves.

Stylish and comfortable.

Adjustable sleeves snap into place.

Made with 100% flame-retardant material for maximum protection.

Black & Red flame retardant fabric 305 gr./m<sup>2</sup>.

### Technical description

- One Internal left pocket.
- Sleeve tightening snap button.
- Collar fastened with velcro.
- Black Kevlar thread (*Aramid fabric*).
- Not Washable.

Personal Protective Equipment  
Regulation PPER (EU) 2016/425.  
EN ISO 11611:2015 Class 1/A1+A2

### Index no

Size M	W3106-M-CE
Size L	W3106-L-CE
Size XL	W3106-XL-CE
Size 2XL	W3106-2XL-CE
Size 3XL	W3106-3XL-CE



## FR\* WELDING JACKET

Made from 100% flame-retardant material, our cloth jacket is ideal for light-duty welding. A convenient inside pocket stows personal items. Protection for light & duty welding.

Black & Red flame retardant fabric 305 gr./m<sup>2</sup>.

### Technical description

- One Internal left pocket.
- Sleeve tightening snap button.
- Collar fastened with velcro.
- Black Kevlar thread (*Aramid fabric*).
- Machine Washable 40°.

Personal Protective Equipment  
Regulation PPER (EU) 2016/425.  
EN ISO 11611:2015 Class 1/A1+A2

### Index no

Size M	W2985-M-CE
Size L	W2985-L-CE
Size XL	W2985-XL-CE
Size 2XL	W2985-2XL-CE
Size 3XL	W2985-3XL-CE



### Customize your welding jacket using the removable velcro band

Using the blank velcro strip, add your choice of company logo, name, message\*\*

\* Not included



# LEATHER CLOTHES

## FR\* WELDING LAB COAT

This knee-length coat is ideal for instructors, supervisors and occasional welders. Made from 100% flame retardant material, it's designed for use by not just the welder but anyone in the immediate work area. Pockets at the hips and chest store chalk, grease pens or other items. Black & Red flame retardant fabric 305 gr./m<sup>2</sup>. Ideal for instructors, supervisors. Protection for light & duty welding.

### Technical description

- Two external pockets at waist height and one on the left chest. All are fastened with velcro.
- Sleeve tightening snap button.
- Collar fastened with velcro.
- Black Kevlar thread (Aramid fabric).
- Machine Washable 40°.



Personal Protective Equipment Regulation PPER [EU]  
2016/425. EN ISO 11611:2015 Class 1/A1+A2

Index no	
Size M	W3112-M-CE
Size L	W3112-L-CE
Size XL	W3112-XL-CE

## GRAIN LEATHER-SLEEVED JACKET



For optimal protection and freedom of movement for MIG or stick welding, choose our full-grain leather sleeve jacket with a flame-retardant, 100% cotton chest panel. The flip-up collar secures with an adjustable hook and loop closure, and the front panel secures with an extra flap for full closure. Horizontal hip pockets provide secure compartments for personal items. Comfort and dexterity for MIG or stick welding. Black & Red flame retardant fabric 305 gr./m<sup>2</sup>.

### Technical description

- Two external pockets which are closable with velcro.
- Sleeve tightening snap button.
- Collar fastened with velcro.
- Black Kevlar thread (Aramid fabric).
- Not washable.

Personal Protective Equipment  
Regulation PPER [EU] 2016/425.  
EN ISO 11611:2015 Class 1/A1+A2

Index no	
Size M	W2987-M-CE
Size L	W2987-L-CE
Size XL	W2987-XL-CE
Size 2XL	W2987-2XL-CE
Size 3XL	W2987-3XL-CE



**Customize your welding jacket using the removable velcro band**

Using the blank velcro strip, add your choice of company logo, name, message\*\*

\* Not included



## LEATHER CLOTHES

GRAIN LEATHER WELDING JACKET *FEMALE*

Fastened with snap buttons covered by leather, grain leather jackets for HER are adjustable and comfortable. These welding jackets are designed to protect the upper body.

## Technical description

- 100% leather
  - The jacket overlaps in the front offering additional protection against spatters. The inner neck coating consists of two layers of cotton for extra comfort
  - Finished in pink trim
  - Length: +/- 780 mm
  - Available sizes: S, M, L, XL
- Included: 1 split leather bag



## Index no

Size S	WJL-S-2019
Size M	WJL-M-2019
Size L	WJL-L-2019
Size XL	WJL-XL-2019

## PPE II° category

Certified by EU 425/2016  
EN 11611 A1 Class 2



**SMART:**  
Use the bag provided  
with the jacket to create  
your personalized package.



**WELDLINE<sup>®</sup>**

by Lincoln Electric



# WELDING GLOVES

*Make sure to protect your hands.*

**MORE COMFORT & SAFETY FOR WELDERS**

# WELDING GLOVES

## YOUR SAFETY IN PREMIUM QUALITY GLOVES AT A FAIR PRICE

Our protective gloves are made from leather that has passed stringent thermal and electrical risk tests enabling the wearer to handle an object of 100°C for up to 15 seconds.

The Personal Protection Equipment guards against risks deriving from welding operations and related procedures [CLASS 2]. The gloves are suitable for use in limited spaces for welding and cutting in overhead or similar positions and in forced positions that can produce hot spatter and droplets such as: MMA welding [with base electrode or cellulose coated], MAG [mixed CO<sub>2</sub> or gas], MIG [high current] welding, core wire welding, plasma cutting, gouging, oxygen cutting, thermal spray painting and for the operation of machines.

### European Directive (UE) 2016/425: harmonization of member states' PPE legislation.

**EN 21420:2020** Protective gloves - general requirements

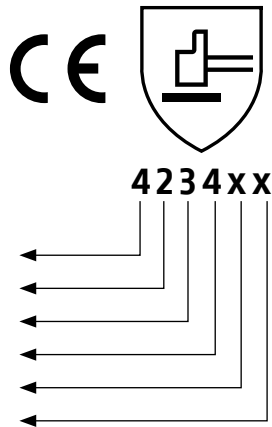
**EN 388:2016** Protective gloves against mechanical risks

**EN 407:2004** Protective gloves against thermal risk

**EN 12477:2001+(A1:2005)** Protective gloves for welders

#### Mechanical hazards

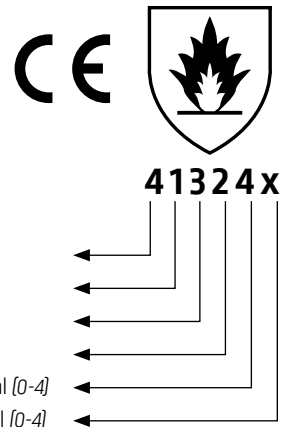
**EN 388: 2016**



- TEST**
- Abrasion [0-4]
  - Resistance to cutting [0-5]
  - Resistance to tearing [0-4]
  - Resistance to perforation [0-4]
  - TDM resistance to cutting [E]; [A-F]
  - Attenuation of impact [P]; [Pass/ Fail]

#### Heat resistance

**EN 407: 2004**



- TEST**
- Reaction to flame [0-4]
  - Contact heat [0-4]
  - Convective heat [0-4]
  - Radiating heat [0-4]
  - Splattering with small quantities of molten metal [0-4]
  - Splattering with large quantities of molten metal [0-4]

An index of x indicates that the glove has not been tested for this type of risk.

### SIZE CHART



#### Welding gloves

Gloves Size	Hand Circumference (mm.)	Hand length (mm.)	Minimum glove length (mm.)	
Size S	8	203	182	350
Size M	9	229	192	350
Size L	10	254	204	350
Size XL	11	279	215	355

#### Workers gloves

Gloves Size	Hand Circumference (mm.)	Minimum glove length (mm.)	
Size S	7 ½	190	230
Size M	8 ½	216	230
Size L	9	229	230
Size XL	9 ½	241	230

# WELDING GLOVES

## Welding Gloves Comparison

### Tailored Features

	Heavy welding applications			Standard welding applications			Fabrication work
Models	MIG IRON ALU	MIG IRON PROTECT +	MIG IRON PROTECT	MIG UNIVERSAL COMFORT +	MIG UNIVERSAL COMFORT	TIG FLEX SENSITIVE	WORKER
Heat resistance	★★★★★★	★★★★★★	★★★★★★	★★★★★☆	★★★★★☆	★★★★★☆☆	
Dexterity	★★★★☆☆	★★★★★☆☆	★★★★★☆☆	★★★★★☆☆	★★★★★★★	★★★★★★★	
Abrasion resistance	★★★★★★	★★★★☆☆	★★★★☆☆	★★★★★★	★★★★★★☆	★★★★☆☆☆☆	
Molten metal splashes	★★★★★★	★★★★★★	★★★★★★	★★★★★★	★★★★★★	★★★★☆☆☆☆	
Usage recommendation	MIG-MAG / MMA					TIG/Flame	FABRICATION WORK
Material	Cow split leather and kevlar aluminised	Cow split leather			Cow Grain and split leather	Goat grain leather and cow split leather	
European Directive (UE) 2016/425	EN 21420 : 2020 EN 388 : 2019 EN 407 : 2004 EN 12477 : 2001+A1:2005	EN 21420:2020 - 5 EN 388:2016 - 2122 x EN 407:2004 - 41 324 x EN 12477:2001+[A1:2005] - TYPE A	EN 21420:2020 - 5 EN 388:2016 - 2122 x EN 407:2004 - 41 324 x EN 12477:2001+[A1:2005] - TYPE A	EN 21420:2020 - 5 EN 407:2004 - 41324 x EN388:2016 - 4234 x EN 12477:2001+[A1:2005] - TYPE A	EN 21420:2020 - 5 EN 407:2004 - 41324 x EN 388:2016 - 2132 x EN 12477:2001+[A1:2005] - TYPE A	EN 21420:2020 - 5 EN388:2016 - 2132 x EN407:2004 - 41324 x EN 12477:2001+[A1:2005] - TYPE A	EN 388 : 2016+[A1] - 3 1 11 x
TO ORDER							
Size	Size 10: W10420	Size 10: WG-MIG-4-CE Size 11: WG-MIG-4-CE-T11	Size 10: WG-MIG-3-CE Size 11: WG-MIG-3-CE-T11	Size 7: WG-MIG-2-CE-T7 Size 8: WG-MIG-2-CE-T8 Size 9: WG-MIG-2-CE-T9 Size 10: WG-MIG-2-CE Size 11: WG-MIG-2-CE-T11	Size 8: WG-MIG-1-CE-T8-L* Size 9: WG-MIG-1-CE-T9 Size 9: WG-MIG-1-CE-T9-L* Size 10: WG-MIG-1-CE Size 11: WG-MIG-1-CE-T11 Size 12: WG-MIG-1-CE-T12	Size 8: WG-TIG-8-CE Size 8: WG-TIG-8-CE-L* Size 9: WG-TIG-9-CE Size 9: WG-TIG-8-CE-L* Size 10: WG-TIG-10-CE Size 11: WG-TIG-11-CE	S : W2977-S-CE M : W2977-M-CE L : W2977-L-CE XL : W2977-XL-CE

\* Female model



# WELDING GLOVES

## MIG IRON ALU



3143  
  
 EN 388  
 41344X  
  
 EN 407

The MIG IRON ALU gloves are designed for a high level of protection of hands during heavy welding applications.

**COMFORT:** the Split leather (1.1-1.3 B" thickness 1.1 / 1.3 mm color Red, black) and the cotton fleece lining which increases the glove's thermal insulation.

**RESISTANCE:** the aluminized textile back offers strong resistance to heat, radiation and small splashes of molten metal. Aluminized Fabric: 100% para-aramid, 480 g / m<sup>2</sup>, BASF THERMAL ENGINEERING.

**SAFETY:** the split leather cuff helps to protect a large part of the forearm against mechanical hazards.

To order	
Size 10	W10420

### Glove properties

Heat resistance



Dexterity



Abrasion resistance



Molten metal splashes



### Material:

Cow split leather and kevlar aluminised

### Usage recommendation

MIG-MAG / MMA

### Personal Protective Equipment regulation (UE) 2016/425

EN 21420:2020  
 EN 388:2019  
 EN 407:2004  
 EN 12477:2001+A1:2005

## MIG IRON PROTECT +



2016  
  
 EN 388  
 2004  
  
 EN 407

MIG IRON PROTECT+ gloves are specifically designed to provide a high level of protection for the hands during normal welding applications in MMA/MIG/MAG processes.

The gloves feature a natural grain leather palm that provides extra sensitivity, allowing for greater dexterity and precision during welding tasks.

To order	
Size 10	WG-MIG-4-CE
Size 11	WG-MIG-4-CE-T11

### Glove properties

Heat resistance



Dexterity



Abrasion resistance



Molten metal splashes



### Material:

Cow split leather

### Usage recommendation:

MIG-MAG / MMA

### Personal Protective Equipment regulation (UE) 2016/425

EN 21420:2020 - 5  
 EN 388:2016 - 2122 x  
 EN 407:2004 - 413 2 4 x  
 EN 12477:2001+[A1:2005] - TYPE A

# WELDING GLOVES

## MIG IRON PROTECT



The MIG IRON PROTECT gloves are designed for a high level of protection of the hands during normal welding applications in MMA/MIG/MAG processes.

### Glove properties

Heat resistance



Dexterity



Abrasion resistance



Molten metal splashes



### To order

Size 10	WG-MIG-3-CE
Size 11	WG-MIG-3-CE-T11

### Material:

Cow split leather

### Usage recommendation:

MIG-MAG / MMA

### Personal Protective Equipment regulation (UE) 2016/425

EN 21420:2020 - 5  
EN 388:2016 - 423 4 x  
EN 407:2004 - 413 2 4 x  
EN 12477:2001+[A1:2005] - TYPE A

## MIG UNIVERSAL COMFORT +



The UNIVERSAL COMFORT + gloves are designed to protect the hand during normal welding applications in MMA/MIG/MAG processes.

### Glove properties

Heat resistance



Dexterity



Abrasion resistance



Molten metal splashes



### To order

Size 7	WG-MIG-2-CE-T7
Size 8	WG-MIG-2-CE-T8
Size 9	WG-MIG-2-CE-T9
Size 10	WG-MIG-2-CE
Size 11	WG-MIG-2-CE-T11

### Material:

Cow split leather

### Usage recommendation:

MIG-MAG / MMA

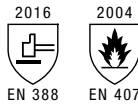
### Personal Protective Equipment regulation (UE) 2016/425

EN 21420:2020 - 5  
EN 407:2004 - 413 2 4 x  
EN 388:2016 - 423 4 x  
EN 12477:2001+[A1:2005] - TYPE A

# WELDING GLOVES

## MIG UNIVERSAL COMFORT

The UNIVERSAL COMFORT gloves are designed to protect the hand during normal welding applications in MMA/MIG/MAG/TIG processes and have a grain leather palm for extra sensitivity.



### Glove properties

Heat resistance



Dexterity



Abrasion resistance



Molten metal splashes



To order	
Size 9	WG-MIG-1-CE-T9
Size 10	WG-MIG-1-CE
Size 11	WG-MIG-1-CE-T11
Size 12	WG-MIG-1-CE-T12
Female	
Size 8	WG-MIG-1-CE-T8-L
Size 9	WG-MIG-1-CE-T9-L

### Material:

Cow Grain and split leather

### Usage recommendation:

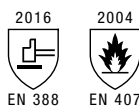
MIG-MAG / MMA

### Personal Protective Equipment regulation (UE) 2016/425

EN 21420:2020 - 5  
EN 407:2004 - 41324x  
EN 388:2016 - 2132x  
EN 12477:2001+[A1:2005] - TYPE A

## TIG FLEX SENSITIVE

The TIG FLEX SENSITIVE gloves are designed to give a high level of dexterity and flexibility for normal welding applications in TIG/Flame processes. The favourite gloves of TIG welders.



### Glove properties

Heat resistance



Dexterity



Abrasion resistance



Molten metal splashes



To order	
Size 8	WG-TIG-8-CE
Size 9	WG-TIG-9-CE
Size 10	WG-TIG-10-CE
Size 11	WG-TIG-11-CE
Female	
Size 8	WG-TIG-8-CE-L
Size 9	WG-TIG-9-CE-L

### Material:

Goat grain leather and cow split leather

### Usage recommendation:

TIG/Flame

### Personal Protective Equipment regulation (UE) 2016/425

EN 21420:2020 - 5  
EN388:2016 - 2132x  
EN407:2004 - 41324x  
EN 12477:2001+[A1:2005] - TYPE A

# WELDING GLOVES

## Accessories: Thermal screen

MIG/MAG and MMA welding processes.  
Thermal protection added to a glove.

- ◆ Dimensions 200 x 150 mm.
- ◆ Fitted with two elastic straps at palm and cuff level.
- ◆ Split leather lined with Kevlar. Heat and flame resistant.
- ◆ One aluminized side reflects 95% of radiant heat.
- ◆ Double Kevlar thread seams.
- ◆ Delivered by 2 pieces.

EN 532

To order W335162



## WORKER GLOVES FULL LEATHER STEEL

These gloves are crafted from top grain cowhide leather, which provides an excellent fit and dexterity. The goat skin back of the gloves allows for breathability, keeping your hands cool and comfortable during use. The palm is padded for added comfort, and the hook and loop soft rubber tabbed wrist closure, along with a flexible elastic band, ensures a snug and comfortable fit.

**Usage recommendation:**  
Fabrication work

**Personal Protective Equipment regulation (UE)2016/425**

EN 388:2016+(A1) - 3111x



### To order

Size S	W2977-S-CE
Size M	W2977-M-CE
Size L	W2977-L-CE
Size XL	W2977-XL-CE





# 2 MIG/MAG WELDING

## WELDING TOOLS AND ACCESSORIES

- ◆ MIG/MAG guns ..... 60 - 69
- ◆ Zirconium contact tips ..... 70
- ◆ Ceramic backings ..... 70 - 72

**PERFORMANCE  
DEFINED**

We are excited to present new products  
in our premium **LINGGUN® PROMIG™** family!

# LINGGUN® PROMIG™ UD

## PARAMETER CONTROL

Supplied with a **2-button module (Up/Down)** already installed and a **Cross-Switch module**, easy to change by yourself, just unscrew one screw.



**NEW**



**Up/Down module** to adjust the Wire Feeding Speed (WFS). Pressing the upper button will increase the speed, pressing the lower button will decrease it.



The **Cross Switch module** allows you to switch between different welding modes and to adjust the WFS.

**Use the Cross Switch module to chose one of the following options:**

1. Wire Feeding Speed and Arc Length / Trim
2. Wire Feeding Speed and Job
3. Wire Feeding Speed and Procedure A-B

**LINCOLN®  
ELECTRIC**

500W

# MIG/MAG TORCHES

## LINGUN<sup>®</sup> PROMIG<sup>™</sup>

Premium MIG welding guns. Doubled warranty. Tested, approved & trusted.

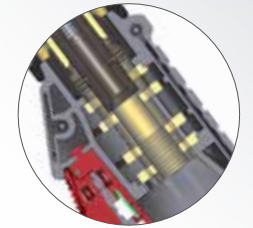
### TOP FEATURES

- Resistant to mechanical damage and high temperatures
- Long-life, proprietary wear parts delivering up to 70% more welding wire per contact tip
- Dedicated high quality liners ensuring smooth wire feeding
- Simplified use and wear parts management to reduce downtime
- Model 230T with a rotatable swan neck
- Screwed nozzle
- Wide range
- Extended warranty, double the industry standard
- Delivered ready to weld: with a long-life contact tip and a liner
- Wear parts common to the previous PROMIG range
- Compliant with EN 60974-7 norm
- **Also available: LINGUN<sup>®</sup> PROMIG<sup>™</sup> UD, supplied with a 2-button module (Up/Down) already installed and a Cross-Switch module**



Nylon base with a fibre glass compound swan neck insulation

Water cooled swan necks



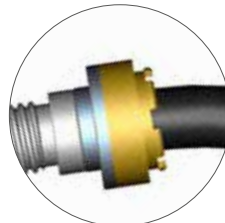
Special handle construction with air pockets which insulate the handle from the heat and extend the life of the gun

Reliable trigger tested in harsh conditions

Firm grip handle, two sizes



Mono-bloc nozzle: double nozzle seat insulation with PTFE and silicon glass



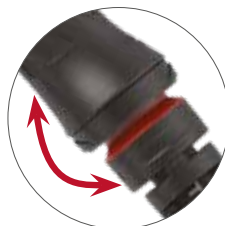
Additional strengthening ring protecting the swan neck against mechanical damage



Special liners made of higher tensile raw materials produce stiffer liners, provide less friction and last longer



Unfailing power cables designed and engineered to withstand over 1 million bends



Ergonomic, flexible ball joint handle

### Choose your gun

rating calculated using CO<sub>2</sub>

- air cooled
- water cooled

Series	Size	Rate	160A	180A	200A	230A	250A	270A	330A	350A	420A	500A
LG PROMIG	230T	60%										
	270											
	300											
	400											
	330W	100%										
	400W											
500W												

# MIG/MAG TORCHES



**AIR-COOLED MODELS**



		LG PROMIG 230T	LG PROMIG 270	LG PROMIG 300	LG PROMIG 300 UD	LG PROMIG 400
Duty cycle	CO <sub>2</sub>	230 A @ 60%	270 A @ 60%	300 A @ 60%	270 A @ 60%	400 A @ 60%
	M21	200 A @ 60%	240 A @ 60%			370 A @ 60%
Wire diameter options		0.8-1.0 mm	0.8-1.0 mm	1.0-1.2 mm		1.0-1.6 mm
Original equipment	Contact tip	0.8 mm steel	1.0 mm steel	1.2 mm steel		1.2 mm steel
	Nozzle	Ø 12 mm	Ø 14 mm	Ø 16 mm		Ø 16 mm
Handle size, other feature		Small, <b>rotatable swan neck for comfortable welding in hard-to-reach places</b>	Small	Large		Large
Typical application		Thin plates, automotive industry, out of position welding	Thin plates, light, fabrication, locksmithing	Vessel, manufacture, steel structures, boiler making, structural steelwork		Thick plates, heavy duty welding when water cooling is not possible
<b>Reference</b>						
3 m		W000275408-2	W000345060-2	W000345066-2	-	W000345072-2
4 m		W000275419-2	W000345061-2	W000345067-2	W100000297	W000345073-2
5 m		W000275420-2	W000345062-2	W000345068-2	-	W000345074-2



**WATER-COOLED MODELS**



		LG PROMIG 330W	LG PROMIG 400W	LG PROMIG 500W	LG PROMIG 500 W UD
Duty cycle	CO <sub>2</sub>	330 A @ 100%	400 A @ 100%	500 A @ 100%	
	M21	300 A @ 100%	370 A @ 100%	450 A @ 100%	
Wire diameter options		0.8-1.0 mm	1.0-1.2 mm	1.0-1.6 mm	
Original equipment	Contact tip	1.0 mm steel	1.2 mm steel	1.2 mm steel	
	Nozzle	Ø 14 mm	Ø 16 mm	Ø 16 mm	
Handle size		Small	Small	Large	
Typical application		Precision and high-intensity applications	Intensive applications such as boiler making, structural steelwork, mechanical welding	Thick plates, heavy duty welding	
<b>Reference</b>					
3 m		W000345063-2	W000345069-2	W000345075-2	-
4 m		W000345064-2	W000345070-2	W000345076-2	W100000298
5 m		W000345065-2	W000345071-2	W000345077-2	-

## LINGUN® PROMIG™ 230T

Nozzle	
D12	W000345408
	W000345408-B20**
D14	W000345409

Ø mm	Contact tip	
Steel	0,8	W000345574 W000345574-B50**
	1,0	W000345575 W000345575-B50**
		W000345577
		W000345577-B50**
1,2	W000345577	

Diffuser	
	W000345335

Ø mm	Internal liner		
	3 m	4 m	5 m
Steel (steel liner)	0,8	W100000273 (blue)	W100000274 (blue)
	1,0	W100000276 (red)	W100000277 (red)
	1,2	W100000276 (red)	W100000278 (red)

**\*\*NOW AVAILABLE WEAR PARTS IN BULK, MORE ECONOMICAL, MORE ECOLOGICAL**

## LINGUN® PROMIG™ 270 / 330W

Nozzle*	
D12	W000345410
D14	W000345411
	W000345411-B20**

Ø mm	Contact tip	
Steel	0,8	W000345574 W000345574-B50**
	1,0	W000345575 W000345575-B50**
		W000345577
		W000345577-B50**
1,2	W000345577	
	W000345577-B50**	
Aluminium	1,0	W000345576
	1,2	W000345578

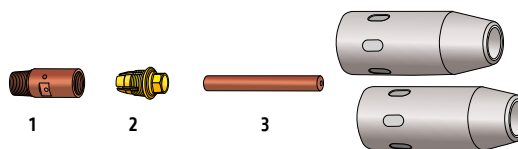
Diffuser	
	W000345335

Ø mm	Steel or PTFE liner		
	3 m	4 m	5 m
Steel (steel liner)	0,8	W100000273 (blue)	W100000274 (blue)
	1,0	W100000276 (red)	W100000277 (red)
	1,2	W100000276 (red)	W100000278 (red)
Aluminium (PTFE liner)	1,0	W100000279 (black)	W100000280 (black)
	1,2	W100000279 (black)	W100000281 (black)

**NEW:** Contact tips and nozzles now also available in bulk : more economic, more ecological

### Options: Adjustable Long Tip

1	<b>Special diffuser</b>	W000345334	Diffuser D4.8x50
2	<b>Collet</b>	W000345329	Collet D4.8x50
3	<b>Special Contact Tip</b>	W000345555	Contact tip D4.8x50 for 0.8mm steel wire
		W000345556	Contact tip D4.8x50 for 1.0mm steel wire
4	<b>Nozzles</b>	Please use standard nozzles for LGP 270 and 330W	



Red-colored wear parts assembled and delivered with the gun \*\* B50 = pack of 50 pcs, B20 = pack of 20 pcs



# MIG/MAG TORCHES

**\*\*NOW AVAILABLE  
WEAR PARTS IN BULK,  
MORE ECONOMICAL,  
MORE ECOLOGICAL**

## LINGUN® PROMIG™ 300 / 400W / 300 UD

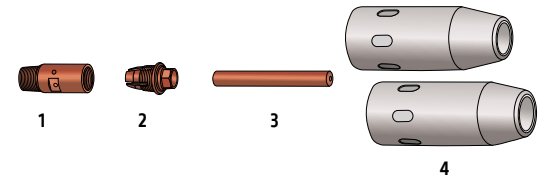
Nozzle		Ø mm	Contact tip	Diffuser W000345341
Code	Part No.			
D12*	W000345420	Steel	M 8 x 32	W000345580
D14	W000345421			W000345580-B50**
D16	W000345422			W000345582
	W000345422-B20**			W000345584
				W000345582-B50**
				W000345584-B50**
Aluminium		W000345585		
		W000345581		
		W000345583		
		W000345583-B50**		

	Ø mm	Steel or PTFE liner			
		3 m	4 m	5 m	
LGP 300 / 400W	Steel (steel liner)	1,0	W100000282 (red)	W100000283 (red)	W100000284 (red)
		1,2			
		1,4	W100000285 (yellow)	W100000286 (yellow)	W100000287 (yellow)
		1,6			
Aluminium (PTFE liner)	1,0	W100000288 (black)	W100000289 (black)	W100000290 (black)	
	1,2				

### Options: Adjustable Long Tip

1	Special diffuser	W000345340	Diffuser D6.3x55
2	Collet	W000345331	Collet D6.3x55
3	Special Contact Tip	W000345561	Contact tip D6.3x55 for 1.0mm steel wire CuCrZr
		W000345563	Contact tip D6.3x55 for 1.2mm steel wire CuCrZr
		W000345566	Contact tip D6.3x55 for 1.6mm steel wire CuCrZr
		W000345564	Contact tip D6.3x55 for 1.2mm Alu wire
4	Nozzles	Please use standard nozzles for LGP 300 and 400W	



\* Narrow nozzle W000345420 (D12) can be used only with a special contact tip holder: W000345342

## LINGUN® PROMIG™ 400 / 500W / 500W UD

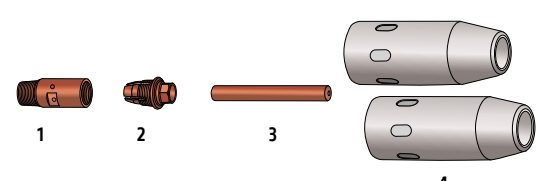
Nozzle		Ø mm	Contact tip	Diffuser W000345347
Code	Part No.			
D16	W000345427	Steel	M 8 x 43,5	W000345587
	W000345427-B20**			W000345589
D19	W000345428			W000345589-B50**
				W000345591
				W000345592
				W000345588
Aluminium		W000345590		
		W000345590		
		W000345590-B50**		
		W000345593		

	Ø mm	Steel or PTFE liner			
		3 m	4 m	5 m	
LGP 400 / 500W	Steel (steel liner)	1,0	W100000282 (red)	W100000283 (red)	W100000284 (red)
		1,2			
		1,4	W100000285 (yellow)	W100000286 (yellow)	W100000287 (yellow)
		1,6			
Aluminium (PTFE liner)	1,0	W100000288 (black)	W100000289 (black)	W100000290 (black)	
	1,2				
	1,6	W100000291 (black)	W100000292 (black)	W100000293 (black)	

### Options: Adjustable Long Tip

1	Special diffuser	W000345346	Diffuser D6.3x55
2	Collet	W000345331	Collet D6.3x55
3	Special Contact Tip	W000345561	Contact tip D6.3x55 for 1.0mm steel wire CuCrZr
		W000345563	Contact tip D6.3x55 for 1.2mm steel wire CuCrZr
		W000345566	Contact tip D6.3x55 for 1.6mm steel wire CuCrZr
		W000345564	Contact tip D6.3x55 for 1.2mm Alu wire
4	Nozzles	Please use standard nozzles for LGP 400 and 500W	



Red-colored wear parts assembled and delivered with the gun      \*\* B50 = pack of 50 pcs, B20 = pack of 20 pcs

# MIG/MAG TORCHES

## LGS3

LGS3 guns range is our valued offer for MIG/MAG applications. With their simple and reliable design offering the best performance, LGS3 guns can meet the challenges of a variety of applications on site, from maintenance to manufacturing. Our models are manufactured in compliance to the most demanding standard and the high quality components are the guarantee of an efficient welding.



European norm requirement for MIG guns



Wear parts compatible with European standards



Extra-flexible cable



Easy pivoting handle



Extended and reinforced rear cable support for smooth wire feeding



MODEL		AIR COOLING				WATER COOLING
		LGS3-150G	LGS3-250G	LGS3-240G	LGS3-360G	LGS3-505W
Duty cycle	CO <sub>2</sub>	180 A @ 60%	230 A @ 60%	250 A @ 60%	330 A @ 60%	500 A @ 100%
	M21	150A @ 60%	200A @ 60%	220A @ 60%	300A @ 60%	450A @ 100%
Applications		Thin plates, automotive industry	Thin plates, light fabrication	Thin plates, light fabrication	Vessel manufacture, steel structures	Heavy duty, high production
Wire diameter		Up to 1.0 mm	Up to 1.2 mm	Up to 1.2 mm	Up to 1.6 mm	Up to 1.6 mm
Original equipment	Contact tip	0.8 mm	1.0 mm	1.0 mm	1.2 mm	1.2 mm
	Conical nozzle	12 mm	15 mm	12.5 mm	16 mm	16 mm
<b>To order</b>						
3 m		W10430-15-3M	W10430-25-3M	W10430-24-3M	W10430-36-3M	W10430-505-3M
4 m		W10430-15-4M	W10430-25-4M	W10430-24-4M	W10430-36-4M	W10430-505-4M
5 m		-	W10430-25-5M	W10430-24-5M	W10430-36-5M	W10430-505-5M

### Choose your gun

rating calculated using CO<sub>2</sub>

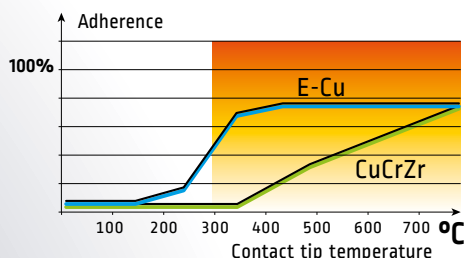
■ Air cooled

■ Water cooled

SERIES	Size	Rate	160A	180A	200A	230A	250A	270A	330A	350A	420A	500A
LGS3	150G	60%	[Air cooled bar]									
	250G		[Air cooled bar]									
	240G		[Air cooled bar]									
	360G		[Air cooled bar]									
	505W	100%	[Water cooled bar]									

### Zirconium contact tip

- CuCrZr contact tips bring excellent performances compared to standard copper contact tips (Cu).
- Less wear and longer lifetime



# MIG/MAG TORCHES

## WEAR PARTS

### LGS3 150G

**Nozzle**

Con. D10	W000010787
Con. D12.5	W000010786
Cyl. D16	W000010788
Innershield	WP10468

**Contact tip**

Ø mm	Contact tip
0.6	W000010820
0.8	W000010821
0.8	W000010824*
0.9	WP10440-09
1.0	W000010822
1.0	W000010825*

**Contact tip holder**  
W000277903

**Nozzle spring**  
W000277448

**Contact tip**

Ø mm	Contact tip
1.0	WP10440-10A

**Steel or PTFE liner**

Ø mm	Steel or PTFE liner		PTFE liner with copper spiral end		
	3 m	4 m	3 m	4 m	
LGS3 150G	Steel (Steel liner)	0.6	W000010730 (blue)	W000010731 (blue)	
		0.8			
		0.9	W000010733 (red)	W000010734 (red)	
		1.0			
Aluminum (PTFE liner)	0.8	WP10422-3M (blue)	WP10422-4M (blue)		
	1.0	W000010736 (red)	W000010737 (red)	WP10419-3M (red)	WP10419-4M (red)

### LGS3 250G

**Nozzle**

Con. D11	W000010791
Con. D15	W000010790
Cyl. D20	W000010792

**Contact tip**

Ø mm	Contact tip
0.8	W000010826
0.8	W000010830*
0.9	WP10441-09
1.0	W000010827
1.0	W000010831*
1.2	W000010828
1.2	W000010832*

**Contact tip holder**  
W000010720

**Nozzle spring**  
W000277477

**Contact tip**

Ø mm	Contact tip
1.0	W000010850
1.2	W000010851

**Steel or PTFE liner**

Ø mm	Steel or PTFE liner			PTFE liner with copper spiral end		
	3 m	4 m	5 m	3 m	4 m	5 m
LGS3 250G	Steel (Steel liner)	0.8	W000010730 (blue)	W000010731 (blue)	W000010732 (blue)	
		0.9	W000010733 (red)	W000010734 (red)	W000010735 (red)	
		1.0				
		1.2				
Aluminum (PTFE liner)	0.8	WP10422-3M (blue)	WP10422-4M (blue)	WP10422-5M (blue)		
	1.0	W000010736 (red)	W000010737 (red)	W000010738 (red)	WP10419-3M (red)	WP10419-4M (red)
	1.2					

### LGS3 240G

**Nozzle**

Con. D10	WP10461-9
Con. D12.5	WP10461-4

**Contact tip**

Ø mm	Contact tip
0.6	W000010820
0.8	W000010821
0.8	W000010824*
0.9	WP10440-09
1.0	W000010822
1.0	W000010825*
1.2	WP10440-12
1.2	WP10440-12C*

**Contact tip holder**  
WP10455-1

**Insulating diffuser**

Standard	WP10404-STD
High temperature	WP10404-HT
Ceramic	WP10404-CR

**Contact tip**

Ø mm	Contact tip
1.0	WP10440-10A

**Steel or PTFE liner**

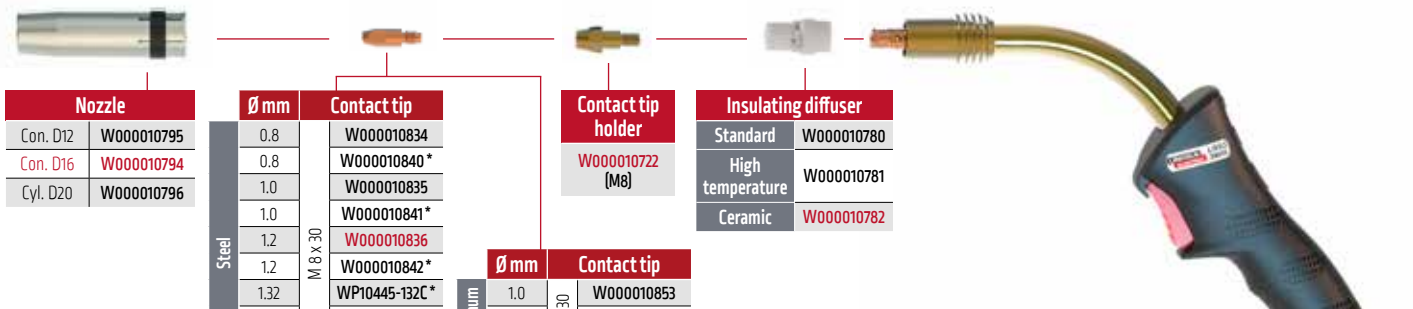
Ø mm	Steel or PTFE liner			PTFE liner with copper spiral end		
	3 m	4 m	5 m	3 m	4 m	5 m
LGS3 240G	Steel (steel liner)	0.6	W000010730 (blue)	W000010731 (blue)	W000010732 (blue)	
		0.8				
		0.9	W000010733 (red)	W000010734 (red)	W000010735 (red)	
		1.0				
Aluminum (PTFE liner)	0.8	WP10422-3M (blue)	WP10422-4M (blue)	WP10422-5M (blue)		
	1.0	W000010736 (red)	W000010737 (red)	W000010738 (red)	WP10419-3M (red)	WP10419-4M (red)
1.2						

Wear parts supplied with the gun

\* CuCrZr contact tips

# MIG/MAG TORCHES


## LGS3 360G



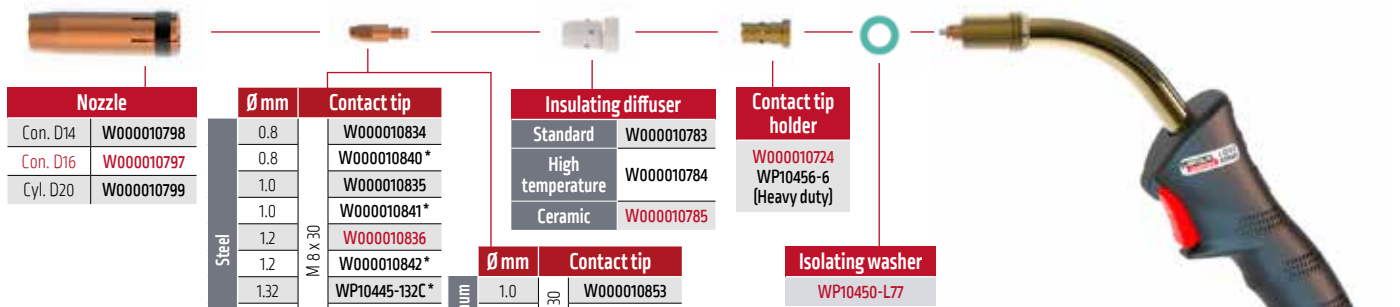
Nozzle		Ø mm	Contact tip		Contact tip holder		Insulating diffuser		
Con. D12	W000010795		0.8	W000010834	W000010722 (M8)	Standard	W000010780		
Con. D16	W000010794	0.8	W000010840*			High temperature	W000010781		
Cyl. D20	W000010796	1.0	W000010835		Ceramic	W000010782			
		1.0	W000010841*						
		1.2	W000010836						
		1.2	W000010842*						
		1.32	WP10445-132C*						
		1.4	W000262703						

Ø mm	Steel or PTFE liner			PTFE liner with copper spiral end		
	3 m	4 m	5 m	3 m	4 m	5 m
Steel (Steel liner)	0.8	W000010730 (blue)	W000010731 (blue)	W000010732 (blue)		
	1.0	W000010733 (red)	W000010734 (red)	W000010735 (red)		
	1.2	W000010867 (yellow)	W000010868 (yellow)	W000010869 (yellow)		
	1.4					
	1.6					
Aluminum (PTFE liner)	0.8	WP10422-3M (blue)	WP10422-4M (blue)	WP10422-5M (blue)		
	1.0	W000010736 (red)	W000010737 (red)	W000010738 (red)	WP10419-3M (red)	WP10419-4M (red)
	1.2					WP10419-5M (red)
	1.6	W000010745 (yellow)	W000010746 (yellow)	W000010747 (yellow)		

**Long trigger available for high current applications. (for LGS3 360G and LGS3 505W)**  
Item number: KP10450-121



## LGS3 505W



Nozzle		Ø mm	Contact tip		Insulating diffuser		Contact tip holder	
Con. D14	W000010798		0.8	W000010834	Standard	W000010783		
Con. D16	W000010797	0.8	W000010840*		High temperature	W000010784		
Cyl. D20	W000010799	1.0	W000010835		Ceramic	W000010785		
		1.0	W000010841*					
		1.2	W000010836					
		1.2	W000010842*					
		1.32	WP10445-132C*					
		1.4	W000262703					

Ø mm	Steel or PTFE liner			PTFE liner with copper spiral end		
	3m	4 m	5 m	3m	4 m	5 m
Steel (Steel liner)	0.8	W000010730 (blue)	W000010731 (blue)	W000010732 (blue)		
	1.0	WP10410-3M (uncoated)	WP10410-4M (uncoated)	WP10410-5M (uncoated)		
	1.2	W000010867 (yellow)	W000010868 (yellow)	W000010869 (yellow)		
	1.4					
	1.6					
Aluminum (PTFE liner)	0.8	WP10422-3M (blue)	WP10422-4M (blue)	WP10422-5M (blue)		
	1.0	W000010736 (red)	W000010737 (red)	W000010738 (red)	WP10419-3M (red)	WP10419-4M (red)
	1.2					WP10419-5M (red)
	1.6	W000010745 (yellow)	W000010746 (yellow)	W000010747 (yellow)		

**Wear parts supplied with the gun**

\* CuCrZr contact tips

**Isolating washer**  
WP10450-L77

# MIG/MAG TORCHES

**NEW**

## MIG GUN BALANCED ARM

- Perfect support arm for long and heavy MIG welding and fume extraction torches
- Improves access to hard-to-reach welding working areas
- Adjustable arm length
- Adjustable counterbalance spring
- Adjustable arm inclination angle
- Can be swiveled 360°
- Support and extend your working area
- Integrated welding torch holder
- Velcro strips for secure installation of the MIG welding torch
- Can be mounted easily to the power source, inverter cart or any stationary pedestal
- Increased ergonomics at the welding site thanks to less strain on the entire welding torch hose package
- Increased MIG gun service life

### Suitable for:

- Speedtec® 400SP/500SP on the cart
- Digisteel S range
- Citosteel S range
- Powertec® B350S/I420S/I500S
- LF5D/LF52D/LF56D/WF52D/WF56D feeders



Adjustable arm inclination angle

Adjustable arm length

Adjustable counterbalance spring

Product Name	Product Number	Adjustable arm length		Angle of arm inclination	Swiveled
		Min.	Max.		
Mig Gun Balanced Arm (MGBA)	K14425-1	1.57m	2.72m	0° / 15° / 30° / 45°	360°



Welder has full parameter control from a distance when using the RC-7 Remote Control



# MIG/MAG TORCHES

**NEW**

## LINGGUN® PUSH-PULL 400W

With motorized feed system for smooth and consistent wire feeding over long distances.

### PRODUCT ADVANTAGES

- Lightweight and flexible grip handle
- European standard components
- Extra length cable support systems ensure smooth and consistent wire feed at any angle

### APPLICATIONS

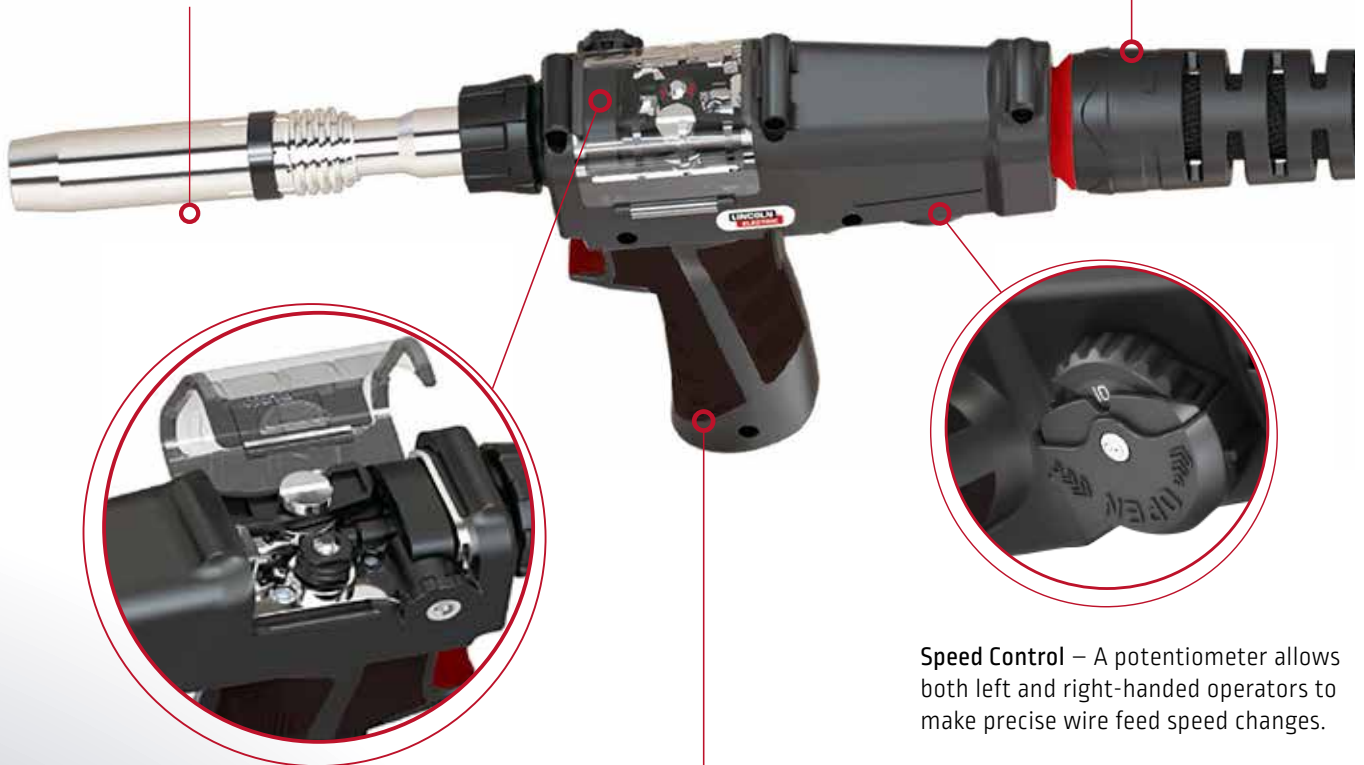
- Aluminum Fabrication
- Aluminum Production
- Shipbuilding

### WHAT'S INCLUDED

- Hard and soft wire liners
- Drive rolls for 1.2 mm wires
- Soft liner cutter and angle sharpener

European standard expendables are shared with our LGS3 505W MIG guns to minimize part stocking.

**Ball joint** - Flexible ball joint and molded polymer cable support improve ergonomics and maneuverability.



**Speed Control** – A potentiometer allows both left and right-handed operators to make precise wire feed speed changes.

**Handle Grip** - Large surface area soft grips help torch positioning and prolong welder comfort. The lightweight, well-balanced pistol grip fits comfortably in either hand.

# MIG/MAG TORCHES

## TECHNICAL SPECIFICATIONS

Product Name	Product Number	Cooling
LINCUN® PUSH-PULL 400 W	W100000376	water
Duty Cycle	Length [m]	Wire diameter [mm]
400 A CO <sub>2</sub> / 350 A M21 @ 100%	8	1.0 - 1.6



12-pin Connector  
Supply motor 40V DC,  
potentiometer regulation.



**Housings, Nuts and Supports**  
Tough and damage resistant, backbox are formed in robust glass-reinforced polymers encasing all conductive parts in accordance with EN60974-7.



**Cable Systems**  
Power cable, gas hose and industrial grade outer liner, are protected by a durable canvas cover.

## WEAR PARTS



Nozzle	
Con. D14	W000010798
Con. D16	W000010797
Cyl. D20	W000010799



Steel	Ø [mm]	Contact tip
	1.0	W000010835
	1.0	W000010841*
	1.2	W000010836
	1.2	W000010842*
	1.32	WP10445-132C*
	1.4	W000262703
	1.6	W000010837
1.6	W000010843*	



Insulating diffuser	
Standard	W000010783
High temperature	W000010784
Ceramic	W000010785



Contact tip holder	
W000010724	WP10456-6 (Heavy duty)



Isolating washer	
WP10450-L77	

Aluminum	Ø [mm]	Contact tip
	1.0	W000010853
	1.2	W000010854
M 8 x 30	1.6	W000010855

Wear parts supplied with the gun

\* CuCrZr contact tips

Type	Liners		
	Ø [mm]	Length [m]	Order
Steel (Steel liner)	1.0-1.2	8	W100000419
	1.2-1.6		W100000420
Aluminum (PTFE liner)	1.0-1.2		W100000409
	1.2-1.6		W100000410
Aluminum (Teflon)	1.2-1.6		W100000417



Type	Rolls	
	Size [mm]	Order
Steel	1.0	W100000411
	1.2	W100000412
	1.6	W100000413
Aluminium	1.0	W100000414
	1.2	W100000415
	1.6	W100000416



# ZIRCONIUM CONTACT TIP

CuCrZr contact tips bring excellent performances compared to standard copper contact tips (Cu).

### The wear:

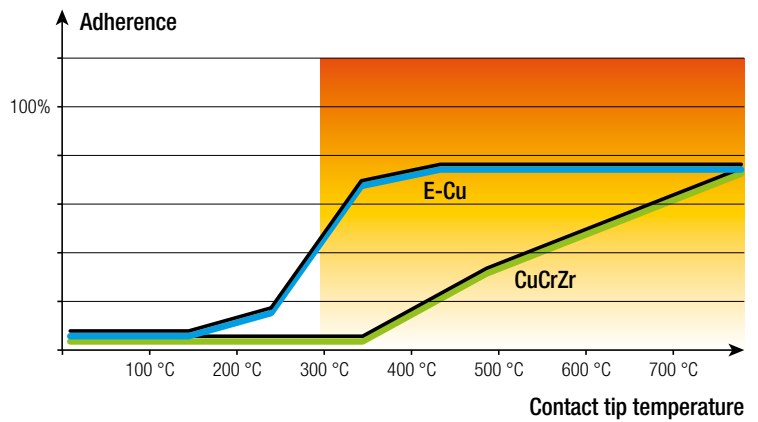
The electrical conductivity being superior in a CuCrZr alloy, the arc transfer will meet less resistance and the contact tip will wear out less rapidly.

### The lifetime:

The mechanical and thermal resistances also being superior to a copper alloy, the constraints, especially due to the wire friction and to the arc temperature, will be better tolerated with a CuCrZr contact tip.

Used in robotic welding for these advantages, the CuCrZr contact tip can improve the manual MIG/MAG welding performances as well.

Zirconium contact tips are standard on the LG PROMIG guns, but are also available in addition to the LGS2 line.



# CERAMIC BACKINGS

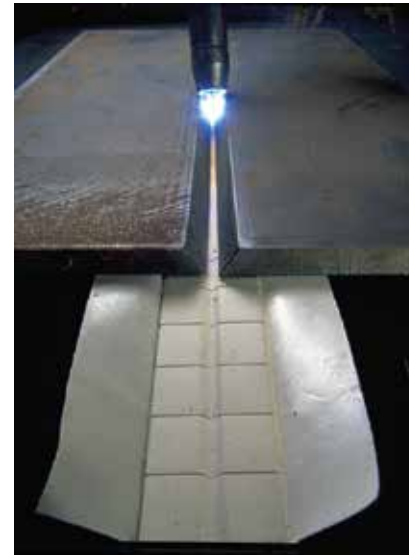
### Features

Our new range of ceramic backings enables you to build a much more efficient weld root:

- without gouging,
- without grinding,
- without re-welding,
- without rework,
- with a wide root gap,
- with a bigger root thickness permits higher welding current for the hotpass.

The use of the ceramic backings enables welding with higher intensity. The quality of the weld bead will be improved:

- higher penetration,
- minimum risk of lack of fusion,
- Smooth profile of the root pass.



### Choice of KERALINE slat type depending on the welding process

	MMA	TIG	MIG/MAG	SAW		MMA	TIG	MIG/MAG	SAW		MMA	TIG	MIG/MAG	SAW
KERALINE TA 1	-	✓	✓	-	KERALINE TR 1	✓	-	✓	-	KERALINE TM 1	✓	✓	✓	✓
KERALINE TA 2	-	✓	✓	-	KERALINE TR 2	✓	-	✓	-	KERALINE TM 2	✓	✓	✓	✓
KERALINE TA 3	✓	-	✓	-	KERALINE TR 3	✓	-	✓	-					
KERALINE TF 1	-	✓	✓	-	KERALINE TR 4	✓	-	✓	-					
KERALINE TF 2	-	✓	✓	-	KERALINE TR 5	✓	-	✓	-					
KERALINE TF 3	✓	-	✓	-	KERALINE TR 6	✓	-	✓	-					

### Ceramic on metallic support

Type	To order	Dimensions (mm)	3D diagram	Application	Packing
KERALINE TM1 - 13 mm	W000010403				600 mm / piece 10 pieces per bag (6 meters) 7 bags/carton (42 meters)
KERALINE TM2 - 18 mm	W000010404				600 mm / piece 9 pieces per bag (5.4 meters) 5 bags/carton (27 meters)



# CERAMIC BACKINGS

## Ceramic on aluminium-tape

Type	To order	Dimensions (mm)	3D diagram	Application	Packing
KERALINE TA1 - 6 mm	W000010391				600 mm / piece 10 pieces per bag (6 meters) 6 bags/carton (36 meters)
KERALINE TA2 - 9 mm	W000010392				
KERALINE TA3 - 13 mm	W000010393				
KERALINE TF1 - 6 mm	W000010394				600 mm / piece 10 pieces per bag (6 meters) 6 bags/carton (36 meters)
KERALINE TF2 - 9 mm	W000010395				
KERALINE TF3 - 13 mm	W000010396				
KERALINE TR1 - 6 mm	W000010397				600 mm / piece 50 pieces per bag (30 meters) 5 bags/carton (150 meters)
KERALINE TR2 - 7 mm	W000010398				600 mm / piece 20 pieces per bag (12 meters) 8 bags/carton (96 meters)
KERALINE TR3 - 8 mm	W000010399				600 mm / piece 20 pieces per bag (12 meters) 7 bags/carton (84 meters)
KERALINE TR4 - 9 mm	W000010400				600 mm / piece 20 pieces per bag (12 meters) 5 bags/carton (60 meters)
KERALINE TR5 - 12 mm	W000010401				600 mm / piece 15 pieces per bag (9 meters) 5 bags/carton (45 meters)
KERALINE TR6 - 15 mm	W000010402				600 mm / piece 15 pieces per bag (9 meters) 5 bags/carton (45 meters)
KERALINE TJ10 T FULL PENETRATION	W000262368				600 mm / piece 10 pieces per bag (6 meters) 6 bags/carton (36 meters)
SET OF CERAMIC BACKING RAD 150	W000275493				16 pieces/Circle 18 Circles/carton (18 meters)
SET OF CERAMIC BACKING RAD 200	W000275532				4pcs/Segment 20 Segments / SET 12 Sets/carton (12 meters)
SET OF CERAMIC BACKING RAD 100	W000404095				12 pieces/Circle 22 Circles/carton (22 meters)

# CERAMIC BACKINGS

## BENEFITS

### For a well-made welding bead:

- Without copper contamination
- Without risk of burn through in the first pass position (used as a support)
- Without re-welding
- Without risk of lack of fusion
- No turning of the work piece
- Bigger root thickness permits higher welding current for the hot pass
- An increase in first pass deposit rate
- Wide root gap
- Total penetration without turning the parts to be welded
- Total penetration of joints difficult to access in reverse position
- Smooth profile of the root pass

### For a well-made weld preparation before welding:

- Ideal to compensate for variations in preparation of sheet edge backlashes
- Easy to use (adhesive/metallic support)
- Simplify chamfering preparations

### For higher productivity:

- Without gouging operation
- Without grinding operation
- Provides time saving and high quality
- Easy-to-use slats technique

**KERALINE has a very low moisture absorption rate and a high melting point, allowing use at high welding intensity, up to 600A.**



# OTHER ACCESSORIES

## SPRAYMIG H<sub>2</sub>O / CERASKIN

See page 122



## FLUXO S190 / P125 / R175

See page 125



## GALVASPRAY

See page 123



## MIG pliers

See page 97



## MIG IRON PROTECT +

See page 55



## EUROSPEED LS



See page 13

## FLOWELD

See page 97



## MIG torch stand

See page 97





# 3 TIG WELDING

## WELDING TOOLS AND ACCESSORIES

- ◆ TIG torches ..... 74 - 79
- ◆ Tungsten electrodes ..... 80
- ◆ TIG accessories ..... 81 - 82

# TIG TORCHES

## PROTIG NG S & III S

Premium TIG torches for maintenance, light and heavy fabrication, construction, automotive industries.

All torches are supplied ready to use, the standard fitting table gives more information.

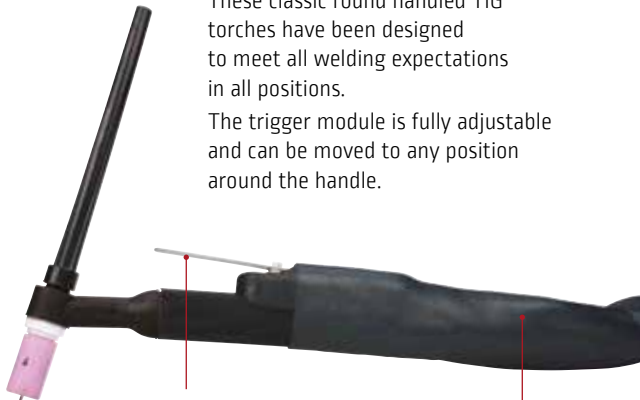
### Advantages:

- ◆ Two handle styles: EB and RL
- ◆ High resistant proprietary wear parts
- ◆ Improved robustness.
- ◆ Highly flexible cable, user-friendly and robust against spatter burn-in
- ◆ Two cable lengths: 5 and 8 m
- ◆ The blade trigger may be oriented around the handle (*only for PROTIG III S*).
- ◆ Robust metal trigger (*only for PROTIG III S*).
- ◆ Neoprene sleeve with good manoeuvrability.
- ◆ 1 reference: the C5B connection of the torch fitted as standard, a banana plug included also.

### PROTIG III S

The round handle with a blade trigger (RL).

These classic round handled TIG torches have been designed to meet all welding expectations in all positions. The trigger module is fully adjustable and can be moved to any position around the handle.



New design of the trigger module with metal blade.

The woven sheath and the handle sleeve ensure full flexibility of the harness.

### PROTIG NG S

The ergonomic handle with button (EB).

The best WELDLINE torches with an advanced ergo-design, using a colored soft grip for a maximum welder comfort.

These torches will give you an optimum welding quality, and increase the communication between the welder and the machine.



The modular system brings increased control over the power source. All torches are delivered with a single button module.

The ball joint gives excellent flexibility, and the first 1 m of the harness is leather which increases the service life of the welding hose.



# TIG TORCHES



## Air cooled

MODEL			PROTIG 10		PROTIG 20		PROTIG 30		PROTIG 40	
Duty cycle 35%			125 A		150 A		200 A		250 A	
Duty cycle 60%			80 A		100 A		130 A		200 A	
Fitted as standard	back cap		Long							
	nozzle		Ø 10 mm				Ø 12 mm			
	electrode		Ø 1.6 mm		Ø 2.0 mm		Ø 2.4 mm			
Length			5 m	8 m	5 m	8 m	5 m	8 m	5 m	8 m
PROTIG III S	Connection	C5B/S	W000382715-2	W000382716-2	W000382717-2	-	W000382719-2	W000382720-2	W000382721-2	-
PROTIG NG S			W000278394-2	W000278395-2	W000278396-2	W000278397-2	W000278398-2	W000278399-2	W000278400-2	W000278401-2

## Water cooled

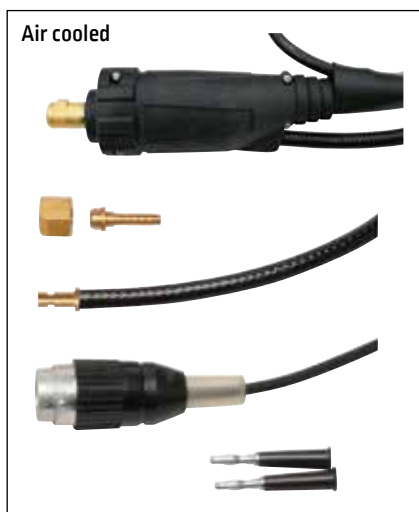
MODEL			PROTIG 10W		PROTIG 35W		PROTIG 40W	
Duty cycle 100%			220 A		350 A		450 A	
Fitted as standard	back cap		long					
	nozzle		Ø 12.8 mm		Ø 15 mm		Ø 14 mm	
	electrode		Ø 2.4 mm		Ø 3.2 mm		Ø 3.2 mm	
Length			5 m	8 m	5 m	8 m	5 m	8 m
PROTIG III S	Connection	C5B/S	W000382723-2	W000382724-2	W000382725-2	W000382726-2	W000382727-2	-
PROTIG NG S			W000278402-2	W000278403-2	W000278404-2	W000278405-2	W000278406-2	W000278407-2

⚠ Some machines require the use of the plug module p/n WP10529-5, see the section "Plug kits and button modules" at page 91.

## Connectors, adapters

### Connectors

The connectors to the machine are a new design, compact and fully protected delivering both strength and quality. All hoses are rubber with a woven sheath for heavy duty work.



### Extension cables

Extenders have a length of 15 m. They are equipped with power connectors, C5B plug (5 pins) and « banana » plugs. The connection is protected by a leather envelope with Velcro® fastener.

	To order
EXTENSION AIR 15 M	W000306135
EXTENSION WATER 15 M	W000306136

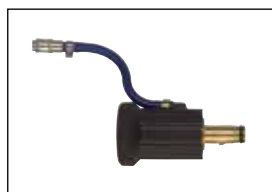


### Adapters

For old torches with central gas to be connected to power sources with separate gas, use W000306140.



For torches with separate gas to be connected to power sources with central gas, use W000306141.



Dinse 9 to 13 mm  
W000306139



# TIG TORCHES

## PROTIG NG S & III S

### Wear parts

WELDLINE sets the standard for wear parts, ensuring maximum quality for both welding and gas protection.

**Gas lens, for welding where access is difficult**

The gas lens collet body **8** is supplied with a filter **9** and a sealing ring **7**.  
The ring **7** or the filter **9** are supplied on their own.

**PROTIG 40 W**

**Nozzles **6** **10** : choice of diameter**

Welding current (A)	70	90	120	200	350
Diameter (mm)	6	8	10	12	15

A - insulating nut  
B - nozzle seals  
C - water distributor

W000306452  
W000167673  
W000306454

### Wear parts box

A complete kit for all applications. The kit includes electrode collets, nozzles, back caps and collet body.

PROTIG 10 / 10W	W000306441
PROTIG 20	W000306442
PROTIG 30	W000306443
PROTIG 40 / 35W	W000306444
PROTIG 40W	W000306445

### Modular system:

Standard delivery for EB all torches is a single button module. Other control module formats are available to order.



### Other buttons

- 1** Horizontal potentiometer | W000279370 [4.7 Kohm] | WP10529-3 [10 Kohm]
- 2** Vertical potentiometer | W000279246 [4.7 Kohm] | WP10529-4 [10 Kohm]
- 3** 3 buttons module | WP10529-2
- 4** Blade | W000279245



### Adjustable heads

As an option, adjustable torch bodies are available, designed to make welding in limited access locations easier with a choice of 2 heads, small and large which are mounted on air cooled or water cooled bodies.



Choose one body and one head to get a complete torch.

· Air cooled body (10/20)	W000279381
· Water cooled body (10W)	W000279382
· Head PROTIG NG 10/10W	W000279383
· Head PROTIG NG 20	W000279384

⚠ Refer to the instruction manual to see the different connections for the modules. For potentiometer adapt the wiring to the welding machine.

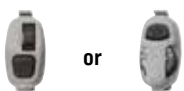

# TIG TORCHES

Wear parts are common for both RL or EB handles.

		PROTIG 10 / 10W	PROTIG 20	PROTIG 30	PROTIG 35W / 40	PROTIG 40W
1 - Back cap	short	W000306220	W000306223	W000306223	W000306225	W000306227
	medium	W000306221	-	-	-	-
	long	W000306222	W000306224	W000306224	W000306226	W000306228
2 - Back cap o-ring		W000306229	-	-	W000306231	W000306232
3 - Sealing ring		W000306210	W000306211	W000306211	W000306212	-
4 - Electrode collet	Ø 1.0	W000306236	-	-	-	-
	Ø 1.6	W000306237	W000306242	W000306247	W000306253	-
	Ø 2.0	W000306238	W000306243	W000306248	W000306254	-
	Ø 2.4	W000306239	W000306244	W000306249	W000306255	W000306262
	Ø 3.2	W000306240	W000306245	W000306250	W000306256	W000306263
	Ø 4.0	-	-	-	W000306257	W000306264
5 - Collet body all diameters		W000306205	W000306206	W000306207	W000306208	-
5* - Collet body heavy duty		-	-	-	* W000306201	-
6 - Nozzle	Ø 6.4	W000306269	W000306273	W000306277	W000306277	-
	Ø 8	W000306270	W000306274	W000306278	W000306278	-
	Ø 9.6	W000306271	W000306275	W000306279	W000306279	-
	Ø 11	-	-	-	-	W000306282
	Ø 12.8	W000306272	W000306276	W000306280	W000306280	-
	Ø 14	-	-	-	-	W000306283
6L - Long nozzle	Ø 4.8	W000306456	-	-	-	-
	Ø 6.4	W000306457	-	W000306462	W000306462	-
	Ø 8	W000306458	-	W000306463	W000306463	-
	Ø 9.6	W000306459	-	W000306464	W000306464	-
7 - Gas lens sealing ring		W000306210	W000306216	W000306216	W000306217	-
8 - Gas lens collet body		W000306213	W000306214	W000306214	W000306215	-
9 - Gas lens filter		W000306218	W000306219	W000306219	W000306219	-
10 - Gas lens nozzle	Ø 8	W000306284	W000306287-2	W000306287-2	W000306287-2	-
	Ø 9.6	W000306285	-	-	-	-
	Ø 11.2	W000306286	-	-	-	-
	Ø 12.8	-	W000306289-2	W000306289-2	W000306289-2	-
	Ø 15.7	-	W000306290-2	W000306290-2	W000306290-2	-
10L - Long gas lens nozzle	Ø 8	-	W000306467	W000306467	W000306467	-
	Ø 9.6	-	W000306468	W000306468	W000306468	-
	Ø 11.2	-	W000306469	W000306469	W000306469	-
	Ø 12.8	-	W000306470	W000306470	W000306470	-

\* For the collet body « heavy duty », use the gas lens nozzles

## Choose your module & your plug kit for Protig NG S

Button modules		
Reference	WP10529-4 (10 Kohm)	WP10529-3 (10 Kohm)
Plug kit	 WP10529-9	
Work with	<ul style="list-style-type: none"> <li>· All Lincoln machines with pedal control</li> <li>· Prestotig 315/415 DC</li> <li>· Prestotig 315 AC/DC</li> <li>· Citotig 315/415 DC</li> <li>· Citotig 315 AC/DC</li> </ul>	

The above modules work only with the PROTIG NG S torches (EB handle).

Remark for users of Prestotig/Citotig II DC, 240/310 AC/DC & 350W in water cooled configuration: plug kit p/n WP10529-5 must be adopted while using TIG torches with single button.

# TIG TORCHES

## WTT2

STANDARD RANGE

Simple and reliable, this range is adapted to the most common applications.



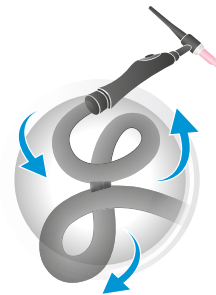
Standardised wear parts.



Handle, made with high temperature silicon rubber.



Easy pivoting handle (for EB handles).



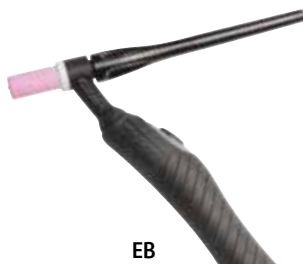
Flexible high performance cable.



### Handle



RL



EB



V



EB-FLEX

### Air cooling

MODEL		WTT2 9		WTT2 17		WTT2 26			
Duty cycle at 40 °C	60%	80 A		100 A		130 A			
	35%	110 A		135 A		180 A			
Original equipment	back cap	Long							
	nozzle	Ø 9.6 mm				Ø 12.8 mm			
	electrode	Ø 1.6 mm		Ø 2.0 mm		Ø 2.4 mm			
Length		4 m	8 m	4 m	8 m	4 m	8 m		
Handle	RL	Connection	S	-	W000278923	W000278883	W000278918	W000278888	-
			C5B	-	-	W000278884	W000278917	W000278890	W000278913
	EB		S	W000278877	W000278929	W000278881	-	W000278886	-
			C5B	W000278875	-	W000278882	W000278919	W000278887	W000278915
	V		V (Conn. 9 mm)	W000278876	-	W000278880	-	-	-
			V (Conn. 13 mm)	-	-	W10529-17-4V	-	W000278885	-
	EB-FLEX		S / C5B	-	-	W000382782	-	W000382784	W000382785

### Connections



C5B



S

### Connector:

Shaped cable output for a better robustness.



Air cooling



Water cooling

### Water cooling

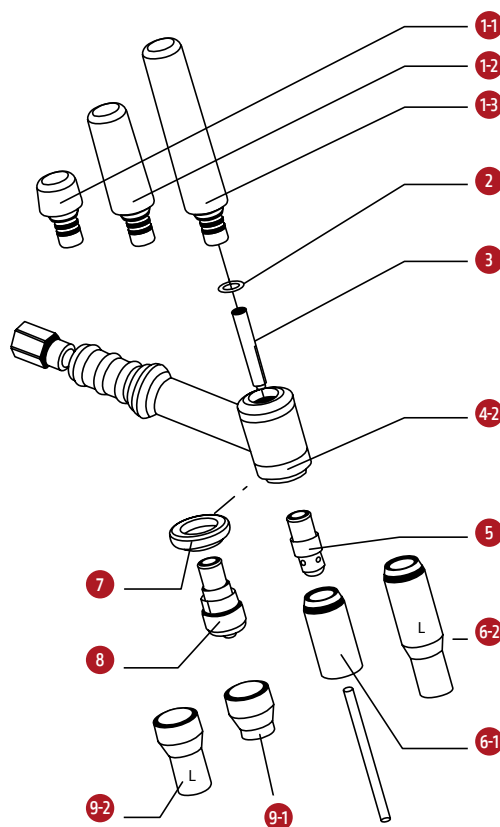
MODEL		WTT2 20 W		WTT2 18 W		
Duty cycle at 40 °C	100%	200 A		320 A		
	60%	250 A		350 A		
Original equipment	back cap	Long				
	nozzle	Ø 12.8 mm		Ø 16 mm		
	electrode	Ø 2.4 mm		Ø 3.2 mm		
Length		4 m	8 m	4 m	8 m	
Handle	Connection	C5B	-	W000278905	W000278898	W000278899
		C5B	W000278892	W000278909	W000278896	W000278901
		S / C5B	W000382786	W000382787	W000382788	W000382789



# TIG TORCHES

## WTT2 TIG torches wear parts

		WTT2 9 / 9V WTT2 20W	WTT2 17 / 17V WTT2 26 / 26V WTT2 18W
1-1	Back cap short	W000306398	W000306399
1-2	Back cap medium	W000306400	-
1-3	Back cap long	W000306402	W000306403
2	Back cap O-ring	W000306404	W000306405
4-2	Sealing ring	W000306396	W000306397
3	Collet	Ø 1.0	W000306406
		Ø 1.6	W000306407
		Ø 2.0	W000306408
		Ø 2.4	W000306409
		Ø 3.2	W000306410
		Ø 4.0	-
5	Collet body	Ø 1.0	W000306376
		Ø 1.6	W000306377
		Ø 2.0	W000306378
		Ø 2.4	W000306455
		Ø 3.2	W000306379
		Ø 4.0	-
6-1	Nozzle	Ø 6.4	W000306417
		Ø 8.0	W000306418
		Ø 9.6	W000306419
		Ø 11.2	W000306420
		Ø 12.8	W000306421
		Ø 16.0	W000306422
		Ø 19.2	-
		Ø 19.2	W000306461
6-2	Long nozzle	Ø 4.8	W000306456
		Ø 6.4	W000306457
		Ø 8.0	W000306458
		Ø 9.6	W000306459
		Ø 11.2	-
		Ø 11.2	W000306465
7	Gas Lens sealing ring	-	W000306466
8	Gas Lens collet body	Ø 1.0	W000306385
		Ø 1.6	W000306386
		Ø 2.0	W000306460
		Ø 2.4	W000306387
		Ø 3.2	W000306388
9-1	Gas Lens nozzle	Ø 6.4	W000306429
		Ø 8.0	-
		Ø 9.6	W000306431
		Ø 11.2	W000306432
		Ø 12.8	W000306433
9-2	Long Gas Lens nozzle	Ø 8.0	-
		Ø 9.6	-
		Ø 11.2	-
		Ø 12.8	-



## Wear parts box

For an easier maintenance of the WTT2 torches, two boxes are available.

Box for WTT2 9 / 9V / 20W

**To order** W000371535

Box for WTT2 17 / 26 / 18W

**To order** W000371536



## Gas Lens

The gas diffuser concentrates the flux in a homogeneous and focused way around the tungsten electrode, which allows to get the electrode out much more than the nozzle.

This permits to access to the difficult access welding joints.



# TUNGSTEN ELECTRODES

## A complete range of tungsten electrodes:

### Product advantages :

- ◆ Very high life cycle
- ◆ Very stable arc
- ◆ Perfect arc ignition
- ◆ Tip longevity

- Pure tungsten,
- Tungsten + cerium,
- Tungsten + lanthanum,
- Tungsten + rare earths<sup>(1)</sup>.



### Choice criteria

Type	Metal		Arc stability	Striking	Lasting	Thermal resistance
	Aluminium	Steel & Stainless steel				
WP - Pure tungsten	*		**	*	*	*
WCe 20 - Cerium 2%		*	**	*	**	**
WLa 15 - Lanthanum 1,5%	**	***	**	***	***	***
WLa 20 - Lanthanum 2%	*	***	**	***	***	***
WS 2 - Rare earths <sup>(1)</sup> 2%	*	*	**	***	***	***

\*\*\* Excellent - \*\* Good - \* Average

<sup>(1)</sup> Rare earths = any of the abundant metallic elements, including scandium (atomic number 21), yttrium (39), and the 15 elements from 57 to 71 (lanthanide series include lanthanum and cerium) in the Mendeleev classification.

**CAUTION:**  
before use, carefully read and understand the safety datasheet available on our websites

See the batch number on the tungsten electrode packaging and consult your conformity certificate on our websites

Ø (mm)	Length (mm)	Reference
1.6	175	W000335167
2.4	175	W000335169
3.2	175	W000335171

Ø (mm)	Length (mm)	Reference
1.6	150	W000402663
2.0	150	W000402664
2.4	150	W000402665
3.2	150	W000402667

Ø (mm)	Length (mm)	Reference
1.6	150	W000010010
1.6	175	W000010375
2.0	150	W000010011
2.4	150	W000010012
2.4	175	W000010377
3.2	150	W000010014
3.2	175	W000010378
4.0	150	W000010015
<b>Nertal WP - Pure Tungsten NEW</b>		
4.8	150	AS-WW-03710510
6.0	150	AS-WW-03710256

Ø (mm)	Length (mm)	Reference
1.0	150	W000010373
1.6	150	W000010016
1.6	175	W000010385
2.0	150	W000010017
2.0	175	W000010386
2.4	150	W000010018
2.4	175	W000010387
3.2	150	W000010020
3.2	175	W000010388
4.0	150	W000010021
<b>Nertal La20 - Lanthanum 2% NEW</b>		
1.6	150	AS-WW-03710651
2.4	150	AS-WW-03710653
3.2	150	AS-WW-03710655
4.0	150	AS-WW-03710656
4.8	150	AS-WW-W000381291

Ø (mm)	Length (mm)	Reference
1.6	150	W000010023
1.6	175	W000335153
2.0	150	W000010024
2.4	150	W000010025
2.4	175	W000335154
3.2	150	W000335150
3.2	175	W000335157
4.0	150	W000010028

### Recommended welding intensities

Electrode diameter	Direct current	Alternating current	
	Tungsten with oxide addition	Pure tungsten	Tungsten with oxide addition
1.0 mm	10 A to 70 A	15 A to 55 A	15 A to 70 A
1.6 mm	20 A to 100 A	45 A to 90 A	60 A to 125 A
2.0 mm	50 A to 140 A	65 A to 125 A	85 A to 160 A
2.4 mm	70 A to 170 A	80 A to 140 A	120 A to 210 A

Electrode diameter	Direct current	Alternating current	
	Tungsten with oxide addition	Pure tungsten	Tungsten with oxide addition
3.0 mm	100 A to 210 A	140 A to 180 A	140 A to 230 A
3.2 mm	130 A to 250 A	150 A to 190 A	150 A to 250 A
4.0 mm	150 A to 350 A	180 A to 260 A	240 A to 350 A

# TIG ACCESSORIES

## TIG torch stand

Simple stand with magnetic base to keep your work place clean.



TIG WELDING

3

## TIG SHARP

Portable electric tool for tungsten electrodes sharpening

Characteristics:

◆ All you need to sharpen your tungsten electrodes (all ranges) delivered in a practical metal case:

- Sharpening machine
- Clamp to lock the machine on a bench
- Standard black head for the electrodes diameter (blue color is only the JAS standard color) 1.6 / 2.0 / 2.4 / 3.2 mm
- Nozzle connectable on a vacuum cleaner for extraction of tungsten dusts
- Electrode holder to clamp TIG electrodes
- Tools for changing the grinding wheel and for adjusting the grinding head

◆ For an accurate sharpening:

- Choose the electrode diameter
- Select the grinding angle (10° to 70°)
- Start the machine
- Insert the electrode and turn it slowly

◆ An incredible result:

- The grind is perfect
- The grinding angle is very precise
- Longitudinal sharpening, precise and symmetric angle.



EN 50144-2-3  
EN 60745-1  
EN 60745-1/A1

WARRANTY

**2**  
YEARS



This equipment has to be connected to a vacuum extraction for dusts



To order W000011035

### Technical characteristics:

Voltage:	220-230 volts
Frequency:	50 - 60 Hz
Power:	400 W
Amperage:	1.8 A
Disk speed:	30.000 rpm
Weight:	1.85 kg

Warranty: 2 years.  
Conform to EU standards

Other products of the range:

Spare red head:  
(for tungsten electrodes Ø 1.0 / 4.0 / 4.8 / 6.0 mm)

To order W000011037

Spare black head:  
(for tungsten electrodes Ø 1.6 / 2.0 / 2.4 / 3.2 mm)

To order W000011038

Spare diamond disk:

To order W000011036

# OTHER ACCESSORIES

## VIKING 2450 & 3350

See pages 10-11



## Gloves TIG



See page 57

## Cooling liquid FREEZCOOL



See page 126





# 4 PLASMA CUTTING

## CUTTING TOOLS AND ACCESSORIES

◆ Plasma Torches .....	84 -87
◆ Other accessories .....	88

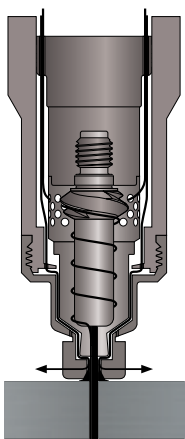
# PLASMA TORCHES

## MODERN TORCH TECHNOLOGY

### LC65 and LC105

The plasma torches with longer life time (running cooler). More cutting thickness, higher speed, standard and grid cutting.

- No HF
- Small electrode diameter
- High air-flow
- High speed rotating air
- Primary and secondary flow
- Concentrated plasma
- Long life electrodes and nozzles
- Torch connection - central connector, 9-pin

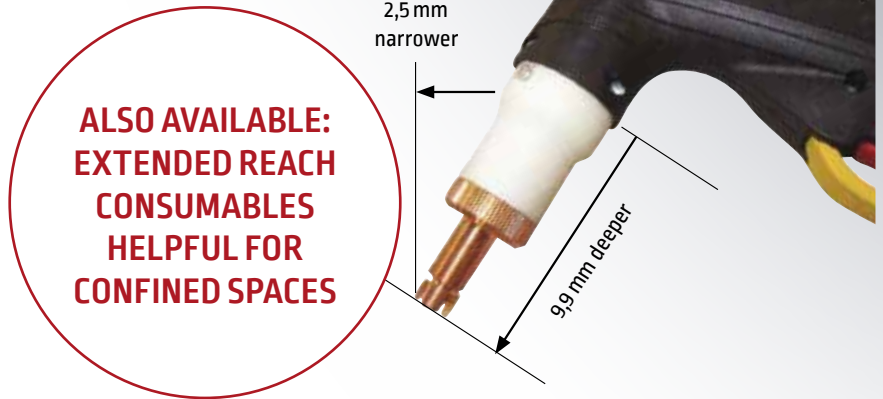


LC105 torch design with drag cup

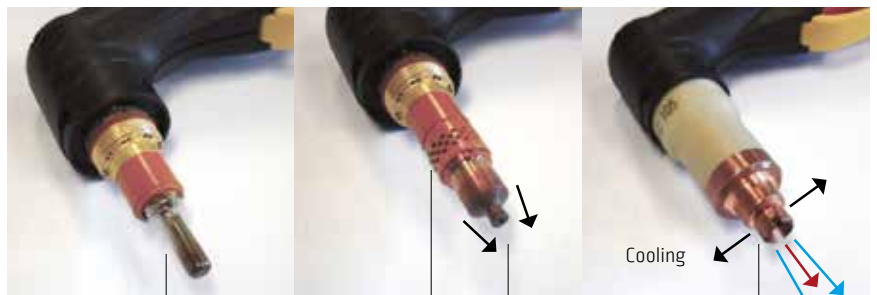
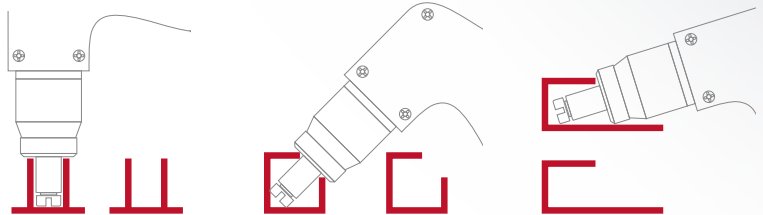
**HIGHER TRAVEL SPEED AND LONGER LIFE TIME CONSUMABLES**



For connection equipment/torch the Tomahawk are provided by CENTRAL CONNECTOR



**ALSO AVAILABLE: EXTENDED REACH CONSUMABLES HELPFUL FOR CONFINED SPACES**



Small diameter Electrode with "screw"

Air-flow through "diagonal" drilled holes in the direction of the "screw"

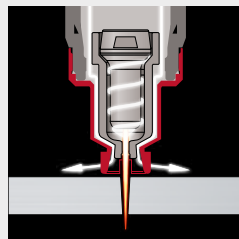
As a result high speed circular air flow around the electrode

Cooling

Primary Plasma beam in the middle. Secondary air stream with cold air concentrating the Plasma beam

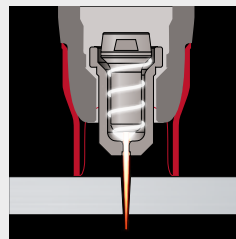
Secondary air-stream cold  
Plasma Beam hot

#### CONTACT OPTION 1



Convenient for the operator, simply drag the nozzle on the plate. Well protected nozzle.

#### STAND-OFF OPTION 2



Maximum flexibility and visibility of the plasma stream.

#### GOUGE OPTION 3



Allowing you to gouge different materials.

# PLASMA TORCHES

## LC 30 (hand)

To order W100000325



PLASMA-BOX  
LC30  
W100000361



LC 30

**Air cooled**  
125l/min@5,0 bar  
30A@60%  
12mm mild steel  
20mm severance

### ELECTRODE



W03X0893-75A

### GAS DISTRIBUTOR



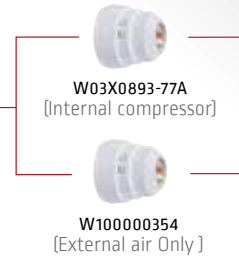
W03X0893-5R

### TIP



W100000326 (30A)

### SHIELD CAP BODY



W03X0893-77A  
(Internal compressor)

W100000354  
(External air Only)

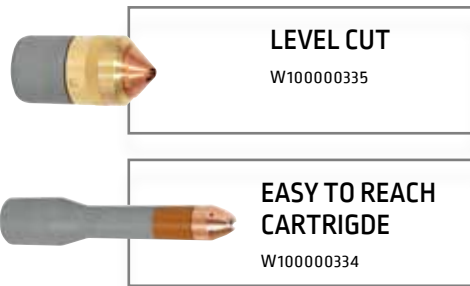
### SPACER



W03X0893-78R

## LC 45 (hand)

To order W100000327



### LEVEL CUT

W100000335

### EASY TO REACH CARTRIDGE

W100000334



PLASMA-BOX  
LC45  
W100000362



LC 45

**Air cooled**  
125l/min@5,0 bar  
45A@45%  
16mm mild steel  
25mm severance

### ELECTRODE



W100000328  
(shielded, gouging)



W100000341  
(extended)



W100000344  
(easy to reach)

### GAS DISTRIBUTOR

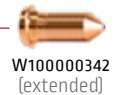


W100000333

### TIP



W100000329  
(shielded)



W100000342  
(extended)



W100000331  
(gouging)



W100000345  
(easy to reach)

### RETAINING CAP



W100000340  
(shielded, extended, gouging)

### RETAINING CAP + RING

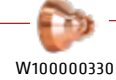


W100000345  
(easy to reach)



W100000346  
(easy to reach)

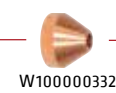
### SHIELD CAP



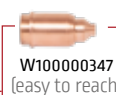
W100000330



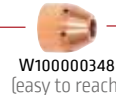
W100000343



W100000332



W100000347  
(easy to reach, gouging)



W100000348  
(easy to reach, gouging)



W100000337  
(shielded, easy to reach)



W100000336  
(easy to reach)

SHIELDED  
EXTENDED  
GOUGING  
EASY TO REACH

# PLASMA TORCHES

## LC 65 (hand)

To order	
75 m	PTH-061A-CX-7M5A
15 m	PTH-061A-CX-15MA

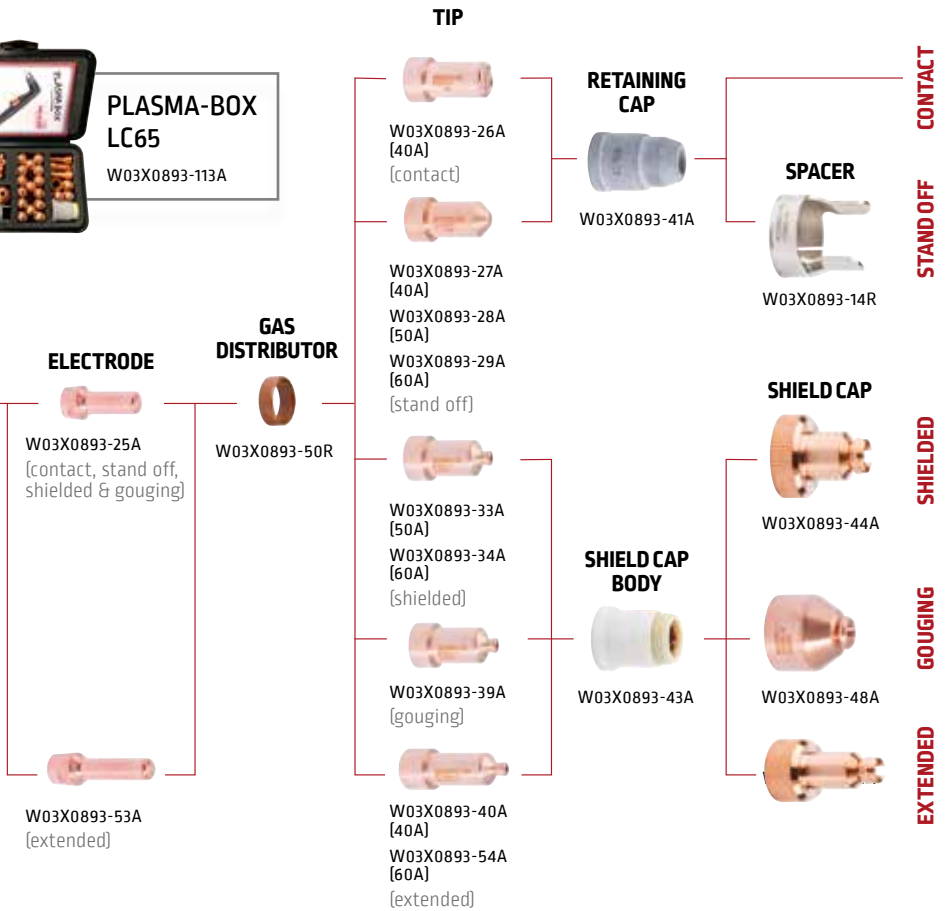


**PLASMA-BOX LC65**  
W03X0893-113A



**LC 65**

**Air cooled**  
130 l/min@5.0 bar  
60A@60%  
25mm mild steel  
30mm severance



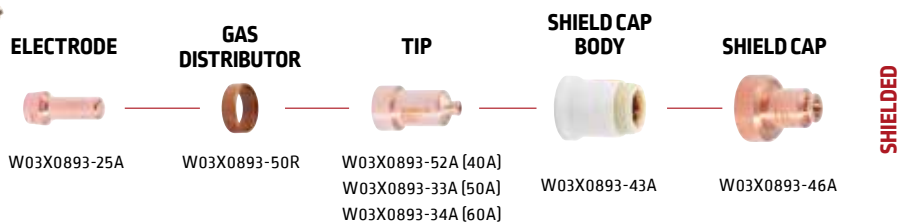
## LC 65 (machine)

To order	
75 m	PTM-061A-CX-7M5A



**LC 65M**

**Air cooled**  
130 l/min@5.0 bar  
60A@60%  
25mm mild steel  
30mm severance

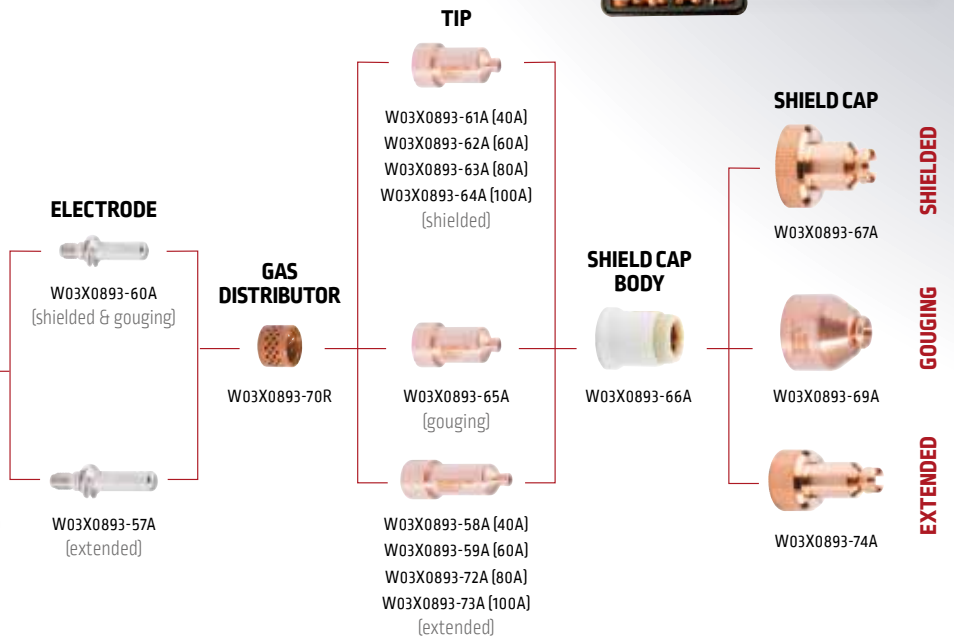




# PLASMA TORCHES

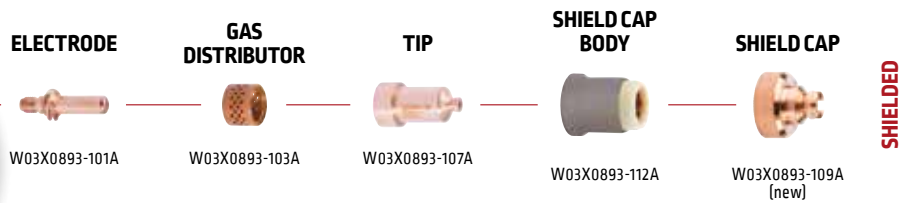
## LC 105 (hand)

To order	
7.5 m	PTH-101A-CX-7M5A
15 m	PTH-101A-CX-15MA



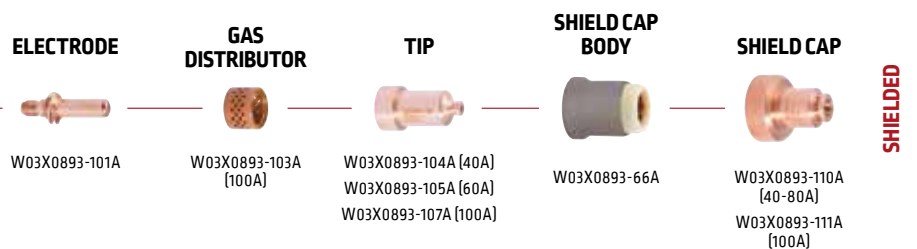
## PREMIUM: 100A

Increased cutting velocity  
Extended life  
Improved cutting quality  
45 mm mild steel  
50 mm severance



## LC 105 (machine)

To order	
7.5 m	PTM-101A-CX-7M5A
15 m	PTM-101A-CX-15MA



# PLASMA CUTTING OTHER ACCESSORIES

See actual LINCOLN ELECTRIC  
EQUIPMENT CATALOGUE

## CUTTING CIRCLES



To order W0300699A

## AIR FILTER LAF1250



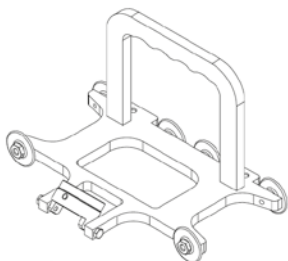
To order W88X1456A  
W8800117R  
(filter cartridge)

## BEVEL TOOL



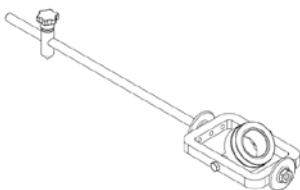
To order W03X0893-119A

## BEVEL TOOL TO SUIT LC45



To order W100000339

## CIRCLE KIT TO SUIT LC45



To order W100000338





# 5 GENERAL ARC WELDING

## WELDING TOOLS AND ACCESSORIES

◆ Cables and connectors .....	90 - 91
◆ Clamps.....	92 - 93
◆ Magnetic ground clamps .....	94 - 95
◆ Hammers / brushes .....	96
◆ Tools.....	97

# CABLES AND CONNECTORS



## The different types of cable

### Secondary cables:

A single copper core between the power source and the clamp as well as between the power source and the electrode holder. The current indication is the maximum accepted to be conform to the IEC 60287 recommendation.

For length over 10 meters, the section has to be increased.

According to the European directive (2014/35/EC-low voltage directive), secondary cables must conform to one of two standards. This is to ensure safety and resistance to welding hot projections. It is important to note that PVC cables are not suitable for use as welding cables, as they do not meet the necessary standards requirements.

### Reference documents:

- H01N2-E and H01N2-D standards for secondary cables
- Harmonized standard CENELEC EN 50565-2:2014 / EN 50525-2-81:2011

Standard: H01N2-E  
extra flexible


Standard: H01N2-D  
flexible





## Cable connectors DINSE type

Push and twist design


Description	 mm <sup>2</sup>	A maxi *	Plug diameter (mm)	To order
1 - Male	10-25 mm <sup>2</sup>	200 A	9 mm	W000010559
	35-50 mm <sup>2</sup>	400 A	13 mm	W000010560
	70-95 mm <sup>2</sup>	600 A	13 mm	W000010561
2 - Female	10-25 mm <sup>2</sup>	200 A	9 mm	W000010562
	35-50 mm <sup>2</sup>	400 A	13 mm	W000010563
	70-95 mm <sup>2</sup>	600 A	13 mm	W000010564
Male + Female	35-95 mm <sup>2</sup>	600 A	-	W000010641



EN 60974-12

## Secondary cables

Extra flexible (H01N2-E) - Flexible (H01N2-D)

 mm <sup>2</sup>	A maxi *			Extra flexible (H01N2-E)	Flexible (H01N2-D)	
	at 100%	at 60%	at 35%	Linear meter	Coil 50 m	Linear meter
16 mm <sup>2</sup>	135 A	139 A	150 A	W000010137	W000260274	W000260272
25 mm <sup>2</sup>	180 A	190 A	213 A	W000010138	W000260275	W000260273
35 mm <sup>2</sup>	225 A	243 A	279 A	W000010139	W000260276	W000260271
50 mm <sup>2</sup>	285 A	316 A	371 A	W000010140	W000260277	W000260270
70 mm <sup>2</sup>	355 A	403 A	482 A	W000010141	W000260278	W000260269
95 mm <sup>2</sup>	430 A	498 A	606 A	W000010142	W000260279	W000260268
120 mm <sup>2</sup>	500 A	587 A	721 A	W000010143	-	-

\*According to EN 50565-1 (2014) - For an ambient temperature: 25 °C

## Cables lugs



- ◆ Screw type
- ◆ Diameter: 11 mm
- ◆ Cable: 0-25 mm<sup>2</sup>

To order W000010094



- ◆ Screw type
- ◆ Diameter: 14 mm
- ◆ Cable: 25-35 mm<sup>2</sup>

To order W000010095



- ◆ Screw type
- ◆ Diameter: 14 mm
- ◆ Cable: 35-50 mm<sup>2</sup>

To order W000010096



- ◆ Screw type
- ◆ Diameter: 16 mm
- ◆ Cable: 50-70 mm<sup>2</sup>

To order W000010640

- ◆ Screw type
- ◆ Diameter: 16 mm
- ◆ Cable: 70-100 mm<sup>2</sup>

To order W000335165

# CLAMPS



## The choice of a clamp follows several criteria.

It firstly depends on the maximum amperage you are using.

Then, the kind of contact is important. For light duty or normal use, steel clamps **HIPPO** type, or brass clamps **CROCODILE** type are perfect. For heavy duty or intensive use, you can choose **MUSCLOR**, **DRAGON** or **SERRE-JOINT** types.

Lastly the **MAGNETIC** type is ideal for large component parts and the **ROTARY** for heavy use where the cable turns around the clamp.

## Clamp for normal use

### Choice criteria

	A maxi	Jaw opening (mm)
HIPPO 200	200	38
HIPPO 400	300	50
HIPPO 600	400	50
CROCODILE 300	350	38
CROCODILE 600	400	38



## HIPPO 200 / 400 / 600



### Customer's benefit:

- ◆ Economical steel clamps.

#### HIPPO 200

**To order** W000010579

#### HIPPO 400

**To order** W000010580

#### HIPPO 600

**To order** W000010597

### Technical characteristics:

	HIPPO 200	HIPPO 400	HIPPO 600
Amperage	200 at 35%	300 at 35%	400 at 35%
Cable Ø (mm <sup>2</sup> )	16-25	50-70	70-95
Weight	208 g	208 g	376 g

## CROCODILE 300 / 600



### Customer's benefit CROCODILE 300:

- ◆ Brass clamps.
- ◆ Brass jaws.

#### CROCODILE 300

**To order** W000010577

### Customer's benefit CROCODILE 600:

- ◆ Very good contact surface.

#### CROCODILE 600

**To order** W000010578

### Technical characteristics:

	CROCODILE 300	CROCODILE 600
Amperage	350 at 35%	400 at 35%
Cable Ø (mm <sup>2</sup> )	35-50	70-95
Weight	405 g	634 g



## MAGNETIC 500 / 600



### Customer's benefit:

- ◆ Large surface contact.
- ◆ Can be placed close to the welding position insuring good electrical contact.

#### MAGNETIC 500

**To order** W000010553

#### MAGNETIC 600

**To order** W000010554

### Technical characteristics:

	MAGNETIC 500	MAGNETIC 600
Amperage	500 at 35%	600 at 35%
Cable Ø (mm <sup>2</sup> )	70	95
Weight	815 g	1722 g

## Clamp for bulky parts

### Choice criteria

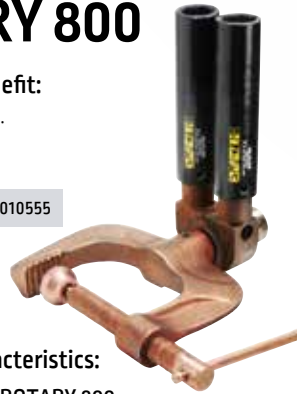
	A maxi	Jaw opening (mm)
MAGNETIC 500	500	N/A
MAGNETIC 600	600	N/A
ROTARY 800	800	82
ECR 1500-1	1500	N/A

## ROTARY 800

### Customer's benefit:

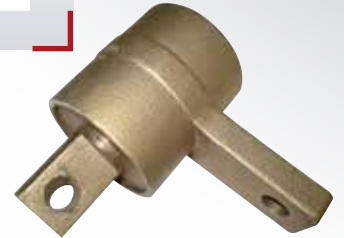
- ◆ Brass clamps.
- ◆ Brass jaws.

**To order** W000010555



### Technical characteristics:

	ROTARY 800
Amperage	800 at 35%
Cable Ø (mm <sup>2</sup> )	2 x 95
Weight	3319 g



## ECR 1500-1

### Customer's benefit:

- ◆ Rotating clamps for heavy duty works in submerged arc welding.

**To order** W000374086

### Technical characteristics:

	ECR 1500-1
Amperage	1500 at 35%
Weight	2614 g

## Clamp for heavy duty use

### Choice criteria

	A maxi	Jaw opening (mm)
MUSCLOR 300	250	38
MUSCLOR 600	500	38
SERRE-JOINT 500	500	60
SERRE-JOINT 800	800	75
DRAGON 600	600	38

## MUSCLOR 300 / 600



#### MUSCLOR 300

**To order** W000010583

#### MUSCLOR 600

**To order** W000010584

### Customer's benefit:

- ◆ Heavy duty brass clamps, powerful jaws giving excellent grip.

### Technical characteristics:

	MUSCLOR 300	MUSCLOR 600
Amperage	250 at 35%	500 at 35%
Cable Ø (mm <sup>2</sup> )	50	95
Weight	480 g	762 g

## SERRE-JOINT 500 / 800



#### SERRE-JOINT 500

**To order** W000010987

#### SERRE-JOINT 800

**To order** W000010988

### Customer's benefit SERRE-JOINT 500:

- ◆ Cable fixed with brass sleeve.
- ◆ Improved grip through clamp tightening capacity.

### Customer's benefit SERRE-JOINT 800:

- ◆ Cable fixed with brass sleeve.
- ◆ Improved grip through clamp tightening capacity.
- ◆ 3 positions of brass guide.

### Technical characteristics:

	SERRE-JOINT 500	SERRE-JOINT 800
Amperage	500 at 35%	800 at 35%
Cable Ø (mm <sup>2</sup> )	95	120
Weight	744 g	1187 g

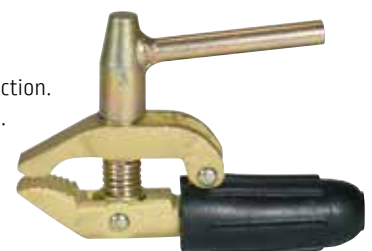
## DRAGON 600

### Customer's benefit:

- ◆ Brass jaws, rubber sheath cable protection.
- ◆ Screw tightening giving excellent grip.

### Technical characteristics:

	DRAGON 600
Amperage	600 at 35%
Cable Ø (mm <sup>2</sup> )	95
Weight	816 g



**To order** W000010582

# MAGNETIC GROUND CLAMPS

# MAGSWITCH

WARRANTY  
**1**  
YEAR

## Magnetic ground clamps and positioners

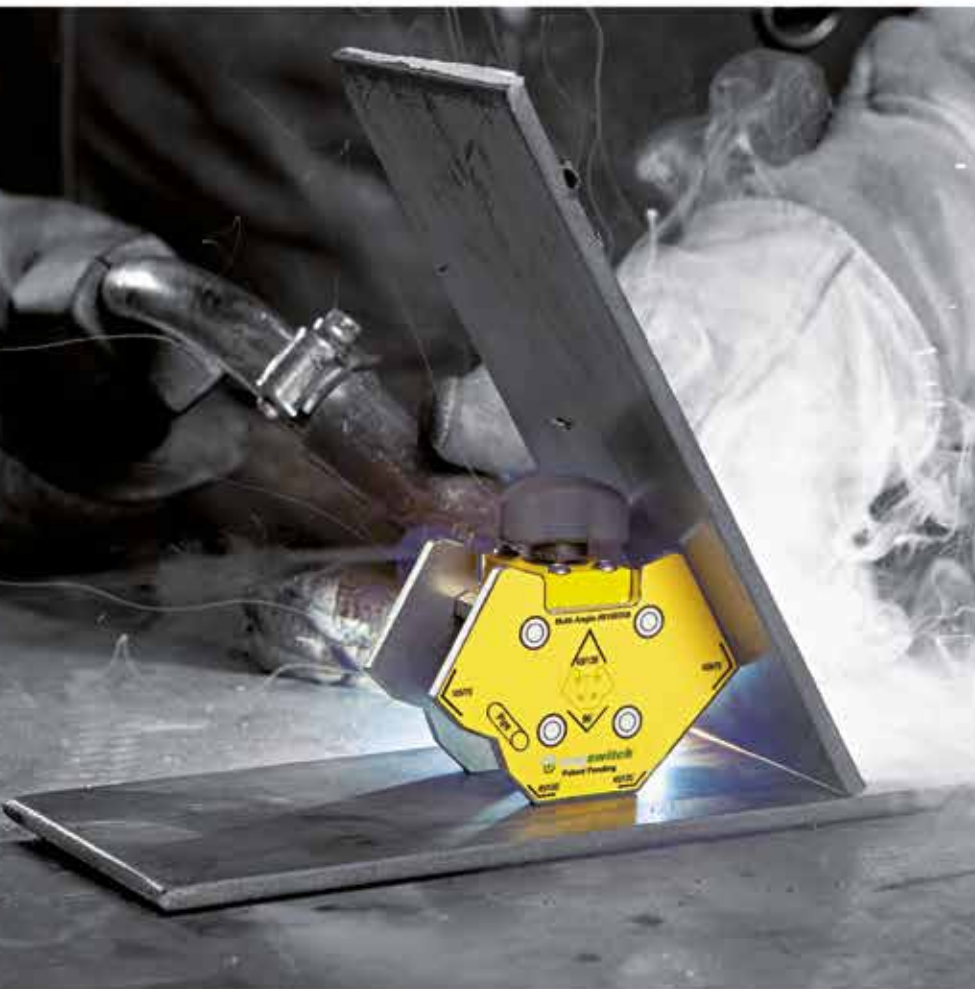
The benefits of using this product are numerous, including increased productivity through faster set-up times, the convenience of hassle-free use, and improved safety by reducing the need for manual handling and positioning of steel. These advantages cannot be ignored and make this product a valuable addition to any welding operation.

MAGSWITCH offers a range of tools that can improve safety and productivity at every stage of your welding operation. Whether you are receiving steel, moving it through your plant, or fabricating it, there is a MAGSWITCH tool that can help. By providing a more efficient and effective way to get the job done, MAGSWITCH can help you save time and increase productivity while also improving safety.

As you look at the products, consider these core common features of each tool:

- ◆ Complete on/off control.
- ◆ Precise placement/no fighting magnets.
- ◆ Super strong - does the big work.
- ◆ Holds strong on thin steel.

**MAGSWITCH is indeed technology that “changes the way things are done”.**





# MAGNETIC GROUND CLAMPS



Name	Dimension (mm)			Weight (kg)	Hold on thick steel (kg)	Welding current (A)	Feature & benefit	Cat Nr
	H	W	D					
1 Magnetic ground clamp 300	57	40	69	0,3	40	300 A	Quickly set up	W000373781
2 Magnetic ground clamp 600	66	101	69	0,8	89	600 A		W000373782
3 Mini Multi Angle	65	72	32	0,18	40	N/A	Incredible strong	W000373783
4 Mini Multi Angle/300A ground	87	89	42	0,36	67	300 A		W000373784
5 Muti Angle 400 Mag-Vise	95	129	65	1,13	178	N/A	Super strong hold all slides	W000373785
6 Multi Angle 1000 Mag-Vise	146	184	110	4,25	446	N/A		W000373786
7 Mag Square 150	65	40	40	0,3	67	N/A	Positioning with incredible strong	W000373787
8 Mag Square 600	106	52	75	1,5	268	N/A		W000373788
9 Pivot Angle 200	240	240	91	1,72	90	N/A	From 22 to 270 degrees	W000373789
10 Hand Lifter 60 m Manual	140	120	60	0,64	27	N/A	For sheet dragging or small steel handing works	W000373790
11 Hand Lifter 60 CE, Cordless electric	209	173	75	1,45	27	N/A	For removing parts from cutting tables	W000373791

# HAMMERS / BRUSHES

## Chipping hammers

The choice of a hammer depends on the kind of steel you are working with (*carbon or stainless steel*) and design, for example wooden handle or not.



**Steel head, wooden handle**

Weight 660 g  
Length 315 mm **To order** W000010801



**Steel hammer G type, tubular handle**

Weight 410 g  
Length 300 mm **To order** W000010646



**Stainless steel hammer, red rubber grip**

Weight 230 g  
Length 255 mm **To order** W000010556



**Steel head, red rubber grip**

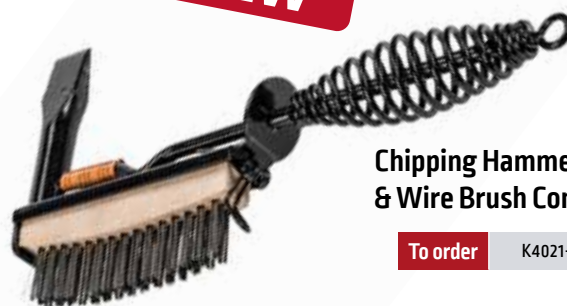
Weight 240 g  
Length 260 mm **To order** W000010800



**Carbon steel English type, spring handle**

Weight 290 g  
Length 265 mm **To order** W000335164

**NEW**



**Chipping Hammer & Wire Brush Combo**

**To order** K4021-1

- ◆ Increases productivity and simplifies post weld cleanup
- ◆ Constructed of drop forged steel to increase strength, hardness and toughness
- ◆ Spiral handle disperses shock and pressure for improved comfort
- ◆ Dual flat and cone style head increases versatility and allows for usage in tight spaces
- ◆ High quality carbon steel brush bristles for use in a variety of applications such as welding slag removal or metal preparation

## Wire brushes

**4 rows brass coated steel wires**

**To order** W000010162



**4 rows steel wires**

**To order** W000010163



**2 rows stainless steel wires**

**To order** W000010164



**4 rows stainless steel wires**

**To order** W000010165



**Special brush for aluminium**

**To order** W000010166

This brush is specially designed to clean aluminium parts before TIG or MIG welding.



**Rivet wire brush**

**CARBON STEEL**

**To order** W000335161

**STAINLESS STEEL**

**To order** W000335160



# TOOLS

## Welding gauge

- ◆ Accurate measure of the thickness of the welding beads, flat as well as angles of 90°.
- ◆ Capacity of 20 mm with double vernier of 1/10 mm.
- ◆ 4 bevel control angles: 90° - 80° - 70° - 60°.
- ◆ Delivered in a leather case.



**To order** W00011041

## MIG torch stand

Simple stand with magnetic base to keep your work place clean.

**To order** W000010802



## MIG pliers (original FIX®)

Useful to:

- ◆ Cut the wire
- ◆ Clean the nozzles
- ◆ Unscrew the tips
- ◆ Unscrew the nozzles



Nozzle Ø 12-15 mm

**To order** W000010453

Nozzle Ø 15-18 mm

**To order** W000010454

## FLOWELD

- ◆ Designed to measure gas flow at the front of MIG/MAG torch
- ◆ Maximum flowrate: 20 l/min (Ar, CO<sub>2</sub> or mixed gas)
- ◆ Accuracy +/- 10%
- ◆ Unbreakable

**To order** W000335159



# MARKERS

## Paint Marker



The Valve Action is a fast-drying liquid paint marker, that provides long-lasting, wear- and weather-resistant marks, that are safe for almost any surface. Most versatile liquid paint marker in the world, the xylene-free paint reduces user health risks.

Designation	To order
Paint Marker White	W000383103
Paint Marker Yellow	W000383104
Paint Marker Red	W000383105
Paint Marker Black	W000383108



## Paint Tube



Markal Stylmark is a metal-ball tip marker to mark most surfaces. The aluminium squeeze tube and thick paint makes it suitable for rough, vertical and overhead surfaces with excellent adhesion on oily and wet surfaces. Xylene-free paint reduces user health risk.

Designation	To order
Paint Tube White	W000383110
Paint Tube Yellow	W000383111



## Paintstik



Quik Stik is a smooth-marking solid paint crayon that dries quickly to leave a bold, permanent mark on most surfaces. The durable plastic twist-up holder prevents breakage. Keep hands, clothing, and toolboxes clean with the industry's largest twist-up solid paint marker.

Designation	To order
Paintstik White	W000383113



## Welding Chalk

The soapstone welding crayon is resistant to heat up to 2000 °C (3630 °F) and will not contaminate welds.

**To order** W000383116







# 6 MMA WELDING

## WELDING TOOLS AND ACCESSORIES

- ◆ Electrode holders..... 100 - 103
- ◆ MMA kits (*electrode holder with cable + clamp with cable*)..... 104
- ◆ Gouging torches ..... 105
- ◆ Gouging electrodes ..... 106
- ◆ Ovens / Quivers..... 107 - 110

For: clamps, connectors, cables, hammers and others  
see chapter 5 “**General arc welding**”

# ELECTRODE HOLDERS



## The choice of an electrode holder follows several criteria.

- ◆ In Europe, the supplier has to conform to the European standards on these products, for health and safety reasons.

The **CE** marking confirms the conformity of the product to these standards.

**DON'T BUY ELECTRODE HOLDERS WITHOUT THIS MARKING.**

- ◆ Choose your holder according to the maximal electrode diameter you use. This diameter dictates the maximum amperage and subsequently the size of the welding cable.

Selection criteria for the different type of electrode holders can be seen on the enclosed pages. Obviously the electrode holder will accept all sizes of electrode to the stated maximal diameter.

The lever type electrode holders are divided into two sections, large opening type - that has the optional pre-defined angles and closed head type - that has only a single position option.

## Screw type

Very secure grip of the electrode that gives the possibility to twist the electrode once tightened.

## Lever type

Secure grip of the electrode between the jaws with pre-defined angles for the electrode position, easy butt ejection.



# ELECTRODE HOLDERS



## Screw type electrode holders

### VESTALETTE 250



#### Customer's benefit:

- ◆ Light and totally insulated, fibre glass head long life duration, left hand thread.
- ◆ Insulation class: A.

#### Technical characteristics:

Amperage	250 at 35%
Cable cross-section (mm <sup>2</sup> )	35 max.
Electrode diameter (mm)	4.0 max.
Weight	295 g

**To order** W000010035

### STUBBY 400



#### Customer's benefit:

- ◆ Well known, fibre glass single part head.
- ◆ Spare parts available, right hand thread.
- ◆ Insulation class: A.

#### Technical characteristics:

Amperage	400 at 35%
Cable cross-section (mm <sup>2</sup> )	50 max.
Electrode diameter (mm)	6.3 max.
Weight	460 g

**To order** W000010036

### MASTER 500



#### Customer's benefit:



- ◆ Well known, fibre glass single part head.
- ◆ Spare parts available, right hand thread.
- ◆ Insulation class: A.

#### Technical characteristics:

Amperage	500 at 35%
Cable cross-section (mm <sup>2</sup> )	95 max.
Electrode diameter (mm)	8.0 max.
Weight	530 g

**To order** W000010037

#### Choice criteria

			
		Maximum	Maximum
Screw type straight	VESTALETTE 250	4.0	35
	STUBBY 400	6.3	50
	MASTER 500	8.0	95
	VESTALE 500	6.3	95
Screw type curve	CURVA 400	6.3	50
	CURVA 600	8.0	95

### VESTALE 500



#### Customer's benefit:

- ◆ The heavy duty electrode holder.
- ◆ High resistance.
- ◆ Fibre glass head, left hand thread.
- ◆ Insulation class: A.

#### Technical characteristics:

Amperage	500 at 35%
Cable cross-section (mm <sup>2</sup> )	95 max.
Electrode diameter (mm)	6.3 max.
Weight	470 g

**To order** W000010038

### CURVA 400 / 600



#### Customer's benefit:

- ◆ Curved electrode holders.
- ◆ Insulation class: B.

#### Technical characteristics:

	CURVA 400	CURVA 600
Amperage	400 at 35%	600 at 35%
Cable cross-section (mm <sup>2</sup> )	50 max.	95 max.
Electrode diameter (mm)	6.3 max.	8.0 max.
Weight	540 g	720 g

#### CURVA 400

**To order** W000010573

#### CURVA 600

**To order** W000010574

#### Spare parts

MASTER - Insulation  
VESTALE - Head

#### To order

W000011083  
W000011087

# ELECTRODE HOLDERS



## Lever type closed head electrode holders

### SEGURA 300 / 400 / 600



#### Customer's benefit:

- ◆ Economical models.
- ◆ Nylon handle.
- ◆ Brass jaws.
- ◆ Insulation class: B.

#### SEGURA 300

**To order** W000010570

#### SEGURA 400

**To order** W000010571

#### SEGURA 600

**To order** W000010572

#### Technical characteristics:

	SEGURA 300	SEGURA 400	SEGURA 600
Amperage	300 at 35%	400 at 35%	500 at 35%
Cable cross-section [mm <sup>2</sup> ]	35 max.	50 max.	70 max.
Electrode diameter [mm]	4.0 max.	5.0 max.	8.0 max.
Weight	415 g	570 g	590 g

### COBRA 300

**To order** W000010039



#### Customer's benefit:

- ◆ Light and multi purpose.
- ◆ Insulation class: A.

#### Technical characteristics:

Amperage	300 at 35%
Cable cross-section [mm <sup>2</sup> ]	35 max.
Electrode diameter [mm]	4.0 max.
Weight	400 g

#### Choice criteria



Maximum



Maximum

SEGURA 300	4.0	35
SEGURA 400	5.0	50
SEGURA 600	8.0	70
COBRA 300	4.0	35
OPTIMUS 300	4.0	35
OPTIMUS 400	5.0	50
OPTIMUS 500	6.3	70

### OPTIMUS 300 / 400 / 500



#### Customer's benefit:

- ◆ Economical models.
- ◆ High quality electrode holder.
- ◆ Well-known for intensive use and powerful grip on the electrodes.
- ◆ Specially designed for heavy duty works with a comfortable handle.
- ◆ Insulation class: A.

#### OPTIMUS 300

**To order** W000010410

#### OPTIMUS 400

**To order** W000010411

#### OPTIMUS 500

**To order** W000010412

#### Technical characteristics:

	OPTIMUS 300	OPTIMUS 400	OPTIMUS 500
Amperage	300 at 35%	400 at 35%	500 at 35%
Cable cross-section [mm <sup>2</sup> ]	35 max.	50 max.	70 max.
Electrode diameter [mm]	4.0 max.	5.0 max.	6.3 max.
Weight	415 g	570 g	590 g



# ELECTRODE HOLDERS



## Lever type opened head electrode holders

### CAÏMAN 200 / 400 / 600



CAÏMAN 200

To order W000010567

CAÏMAN 400

To order W000010568

CAÏMAN 600

To order W000010569

#### Customer's benefit:

- ◆ Economical electrode holders.
- ◆ Polyamide handle, fibre glass reinforced.
- ◆ Brass jaws.
- ◆ Insulation class: B.

#### Technical characteristics:

	CAÏMAN 200	CAÏMAN 400	CAÏMAN 600
Amperage	200 at 35%	400 at 35%	600 at 35%
Cable cross-section [mm <sup>2</sup> ]	25 max.	50 max.	95 max.
Electrode diameter [mm]	3.2 max.	6.3 max.	10.0 max.
Weight	370 g	425 g	500 g

## Hobby and light duty electrode holders

### HOBBY 200

To order W000278158



#### Customer's benefit:

- ◆ An industrial design for light works.

#### Technical characteristics:

Amperage	200 at 35%
Cable cross-section [mm <sup>2</sup> ]	25 max.
Electrode diameter [mm]	3.2 max.
Weight	135 g

#### Choice criteria

	Maximum	Maximum
HOBBY 200	3.2	25
CAÏMY 200	3.2	25

### CAÏMY 200

To order W000010576



#### Customer's benefit:

- ◆ A small professional tool for light works.
- ◆ Insulation class: B.

#### Technical characteristics:

Amperage	200 at 35%
Cable cross-section [mm <sup>2</sup> ]	25 max.
Electrode diameter [mm]	3.2 max.
Weight	220 g

# MMA KITS

Kits of accessories for MMA welding: electrode holders, earth clamps, cables and connectors, already assembled.

## Advantages:

- ◆ "Ready to weld".
- ◆ A simple and full range in relation with all welding machines.
- ◆ Save 30 minutes of assembly time, before welding.
- ◆ Recommendations in relation to welding processes.

## The kits choice depends of several criteria:

### ◆ Sections of machine sockets:

- Plugs of 9 mm diameter correspond to a cable cross-section between 16 mm<sup>2</sup> and 25 mm<sup>2</sup>.
- Plugs of 13 mm diameter correspond to a cable cross-section between 35 mm<sup>2</sup> and 50 mm<sup>2</sup> (max 90 mm<sup>2</sup>).

### ◆ Application & intensity

## The range:

- ◆ First digits describe cable diameter.
- ◆ Second digits describe type of connector.

## KIT 25C25

### MMA power sources' types and applications:

- ◆ Small intensity power sources for semi professional welding.

**To order** W00001138

### Technical characteristics:

I max	200 at 35%
Electrode holder	CAÏMAN 200
Cable length	3 m
Earth clamp	HIPPO 200
Cable length	3 m
Plug diameter	9 mm

## KIT 25C25+

### MMA power sources' types and applications:

- ◆ Small intensity power sources for working site up to Ø 4 mm.

**To order** W000260683

### Technical characteristics:

I max	300 at 35%
Electrode holder	SEGURA 300
Cable length	3 m
Earth clamp	HIPPO 400
Cable length	2 m
Plug diameter	9 mm

## KIT 50C50+

### MMA power sources' types and applications:

- ◆ High intensity power sources for intensive use (up to Ø 6.3 mm) or work site.

**To order** W000260682

### Technical characteristics:

I max	400 at 35%
Electrode holder	SEGURA 600
Cable length	4 m
Earth clamp	HIPPO 600
Cable length	4 m
Plug diameter	13 mm

## KIT 35C50

### MMA power sources' types and applications:

- ◆ High intensity power sources for intensive use (up to Ø 4 mm) or work site.

**To order** W00001139

### Technical characteristics:

I max	300 at 35%
Electrode holder	SEGURA 300
Cable length	4 m
Earth clamp	HIPPO 400
Cable length	4 m
Plug diameter	13 mm

## KIT 50C50

### MMA power sources' types and applications:

- ◆ High intensity power sources for intensive use (up to Ø 5 mm) or work site.

**To order** W000260681

### Technical characteristics:

I max	300 at 35%
Electrode holder	SEGURA 400
Cable length	4 m
Earth clamp	HIPPO 400
Cable length	4 m
Plug diameter	13 mm

### Choice criteria

Choice criteria	I max at 35%	Plug diameter
KIT 25C25	200 A	9 mm
KIT 25C25+	300 A	9 mm
KIT 35C50	300 A	13 mm
KIT 50C50	400 A	13 mm
KIT 50C50+	400 A	13 mm



# GOUGING TORCHES

## FLAIR® 600 & 1600

- ◆ **360° rotating torch** The torch can rotate 360° on the monocable. This results in a comfortable and better freedom of movement.
- ◆ **Smooth finished body for perfect airflow**  
Manufactured with the greatest accuracy. The inner body is perfectly shaped which results in a perfect airflow, thus in a better cooling as well as a longer life time.
- ◆ **Highly conductive extruded body and nozzle (non-casted)** Better conduction and less heat development and consequently a longer product lifetime.
- ◆ **Thicker high heat resistant insulation** Longer product lifetime but also safer, more comfortable and more productive working conditions.
- ◆ **Flexible monocable (2.5 meter)** provides more ergonomical, comfortable working conditions.

◆ **The Airflow** can be regulated on the torch.



FLAIR® 600

To order W000010136

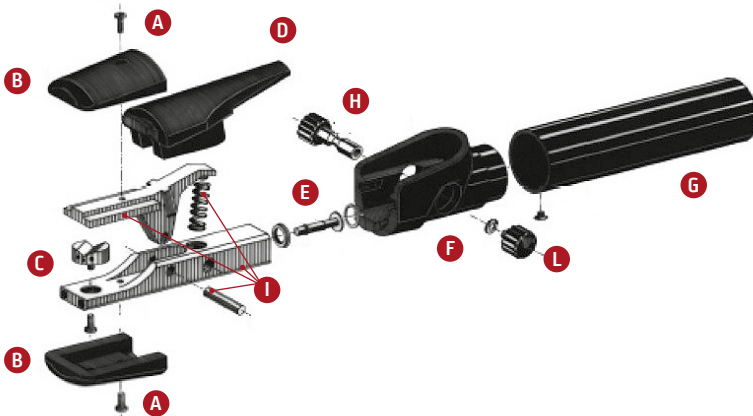
FLAIR® 1600

To order W000010118



### Technical characteristics:

Item Number	Output Power	Open arc voltage	Required Voltage	Compressed air	Electrode Diam Max
FLAIR® 600	600A@60%	> 60 VDC	35 - 56 VDC	400 ÷ 900 l/min @ 5 ÷ 7 bar	10mm - 3/8"
FLAIR® 1600	1600A@60%				19mm - 3/4"



Spare parts	FLAIR® 600	FLAIR® 1600
A Screw MRX 4 x 10 mm (10 pieces)	W000010124	
B Insulation cap (2 pieces)	W000010125	
C Injection nozzle complete with taptite	W000010127	W000011130
D Lever insulation	W000010128	
E Valve	W000010129	
F Safety ring (10 pieces)	W000010131	
G Handle	W000010132	W000401598
H Push-button and link	W000010133	
I Kit Lever & Spring & Pin & Body	W000010144	W000010145
L Push Button	W000010130	
Monocable	W000010134	W000011128



# GOUGING ELECTRODES

WELDLINE offers a complete range of graphite (carbon) electrodes for gouging.



**CAUTION:** before use, carefully read and understand the safety datasheet available on our websites

## CARBONAIR

### Pointed electrodes

Versatile multi-purpose round gouging electrodes (most popular type)



Diameter x length (mm)	Quantity per box (thousand)	Gross weight per box (kg)	I mini (A)	I Max (A)	Air pressure (bars)	Airflow (m³/h)	To order
4 x 305	100	0.7508	150	200	5.0	10	W000010645
5 x 305	100	1.1582	200	300	5.0	10	W000010443
6.4 x 305	50	0.935	300	400	6.0	10,5	W000010444
8 x 305	50	1.4026	450	550	7.0	12	W000010445
10 x 305	50	1.9154	600	700	8.0	13	W000010446
13 x 305	50	3.4112	900	1100	9.0	14	W000010447

### Flat electrodes

Rectangle shape for close tolerance metal removal and/or to create rectangle grooves.



Diameter x length (mm)	Quantity per box (thousand)	Gross weight per box (kg)	I mini (A)	I Max (A)	Air pressure (bars)	Airflow (m³/h)	To order
5 x 15 x 305	50	2.0934	500	600	8.0	13	W202010453
5 x 18 x 355	25	1.6945	600	750	8.0	13	W202010454

### Hollow electrodes

Versatile multi-purpose round gouging electrodes



Diameter x length (mm)	Quantity per box (thousand)	Gross weight per box (kg)	I mini (A)	I Max (A)	Air pressure (bars)	Airflow (m³/h)	To order
6.5 x 305	50	1.0472	200	300	5.0	10	W202010455
8 x 305	50	1.3394	450	550	7.0	12	W202010456
9.5 x 305	50	2.0554	500	700	7.0	12	W202010457
12.7 x 305	50	3.3476	850	1100	8.0	13	W202010458

## CARBONAIR PLUS

### Jointed electrodes

Round electrodes with male and female ends to eliminate stub loss

**Application:** Cutting Metal medium and heavy duty

This process requires a MMA direct current (DC) power source, a gouging torch and a compressed air source.



Diameter x length (mm)	Quantity per box (thousand)	Gross weight per box (kg)	I mini (A)	I Max (A)	Air pressure (bars)	Airflow (m³/h)	To order
8 x 355	50	1.713	400	500	7.0	12	W000010448
10 x 430	50	3.0726	700	850	8.0	13	W000010449
13 x 430	50	5.0886	1 000	1 200	9.0	14	W000010450
16 x 430	25	3.8728	1 300	1 500	10.0	16	W000010451
19 x 430	25	5.3048	1 500	1 700	10.0	16	W000010452

# OVENS / QUIVERS

## Portable quivers

# WELDRY PW8 / PW15 / 372 N INOX

- ◆ PW8 and PW15 portable quivers are necessary, for electrodes maintenance, near the welding working place. They preserve the electrodes from moisture, avoiding hydrogen inclusion in the welding joint.
- ◆ PW8 and PW15 portable quivers are provided with a handle, useful for moving. They also contain an extractable basket that avoids waste of heat. PW8 and PW15 ovens are provided with built-in adjustable thermostat.
- ◆ For the 372 N: preset temperature to 120 °C, plated heater resistance against the reservoir electrodes which allows a good repartition of temperature.

**CAUTION:** before use, carefully read and understand the safety datasheet available on our websites



MADE IN FRANCE



WELDRY PW8

To order W000120427

To order [24 V] W000371464



WELDRY PW15

To order W000120428



WELDRY 372 N INOX

To order W000383150

### On request: other models

- Without thermostat
- With thermometer
- With different power supply
- Stainless steel or lacquered finishing

Technical data	WELDRY PW8	WELDRY PW15	WELDRY 372 N - INOX
Capacity (number of electrodes)	100 electrodes Ø 3.25 mm	200 electrodes Ø 3.25 mm	100 electrodes Ø 3.25 mm
Temperature regulation thermostat	up to 120 °C		
Power	0.130 kW	0.275 kW	0.230 kW
Capacity	5 kg	10 kg	5 kg
Power supply	Single-phase 24 V or 230 V - 50/60 Hz		
Internal size	72 x 72 x 470 mm	100 x 100 x 470 mm	Ø 82.5 x 480 mm
External size	140 x 180 x 630 mm	180 x 220 x 630 mm	225 x 535 mm
Net weight	5 kg	8 kg	5.5 kg

All WELDRY ovens are supplied with 2 m long cable

# OVENS / QUIVERS

## Holding ovens for MMA electrodes

# WELDRY MW

- ◆ MW ovens are used to keep the treatment of electrodes after the drying cycle and before the welding process.
- ◆ They preserve the electrodes from moisture, avoiding hydrogen inclusion in the welding joint.
- ◆ Equipped with a digital control panel and two adjustable thermoregulators for air and heating elements protection, positioned in front of the oven.



WELDRY MW2

To order W000120430



WELDRY MW4

To order W000120431



WELDRY MW6

To order W000120454

**CAUTION:**  
before use, carefully read  
and understand the safety  
datasheet available on  
our websites

All WELDRY  
ovens are  
supplied  
with 2 m long  
cable

Technical data	WELDRY MW2	WELDRY MW4	WELDRY MW6
Load capacity	135 Kg - 3 000 electrodes *	270 Kg - 6 000 electrodes *	405 Kg - 9 000 electrodes *
Shelves number	2	4	6
Heating elements	1	1	3
Max. Temperature	Adjustable up to 150 °C - air Adjustable up to 300 °C - heating elements		
Power	1.6 kW	2.7 kW	4.5 kW
Rating	Single phase - 230 V a.c. - 50/60 Hz		Three phase - 380 V a.c. - 50/60 Hz
Internal size (w x d x h)	720 x 510 x 350 mm	720 x 510 x 620 mm	720 x 510 x 890 mm
External size (w x d x h)	830 x 690 x 760 mm	830 x 690 x 1 040 mm	820 x 690 x 1 310 mm
Oven weight	90 kg	123 kg	152 kg
Packaging dimensions (w x d x h)	850 x 710 x 780 mm	850 x 710 x 1 060 mm	840 x 710 x 1 330 mm
Weight for transport	95 kg	135 kg	160 kg

\* Quantity of pieces having Ø 3.25 mm

# OVENS / QUIVERS

## Re-baking ovens for MMA electrodes

# WELDRY CW

- ◆ This oven is used for electrode re-baking treatment, heating the electrodes between 350 °C and 420 °C for a fixed time. In this way the moisture is removed and a good quality welding without hydrogen intrusion is guaranteed.
- ◆ Equipped with a digital control panel and two adjustable thermoregulators for air and heating elements protection, positioned in front of the oven, allows to set both drying and keeping cycles.
- ◆ Shelves are removable, heating elements fixed



WELDRY CW3

To order W000120466



WELDRY CW6

To order W000120467



WELDRY CW9

To order W000120468

**CAUTION:**  
before use, carefully read  
and understand the safety  
datasheet available on  
our websites

On request: other models  
[with fan ventilation system]

Technical data	WELDRY CW3	WELDRY CW6	WELDRY CW9
Load capacity	203 Kg - 4 500 electrodes *	404 Kg - 9 000 electrodes *	608 Kg - 13 500 electrodes *
Shelves number	3	6	9
Heating elements	3	6	9
Max. Temperature	Adjustable up to 350 °C - air Adjustable up to 500 °C - heating elements		
Power	4.6 kW	9,1 kW	13.6 kW
Rating	Three phase - 380 V a.c. - 50/60 H		
Internal size (w x d x h)	560 x 740 x 560 mm	560 x 740 x 980 mm	560 x 740 x 1 430 mm
External size (w x d x h)	800 x 880 x 1 050 mm	800 x 880 x 1 480 mm	800 x 880 x 1 880 mm
Oven weight	140 / 144 kg	200 / 204 kg	266 / 270 kg
Packaging dimensions (w x d x h)	900 x 900 x 1 050 mm	900 x 900 x 1 500 mm	900 x 900 x 1 900 mm
Weight for transport	150 / 154 kg	215 / 219 kg	280 / 284 kg

\* Quantity of pieces having Ø 3.25 mm

All WELDRY  
ovens are  
supplied  
with 2 m long  
cable

# OVENS / QUIVERS

## Hopper ovens for flux

# WELDRY FW

- ◆ This oven model is specifically designed for re-baking submerged arc welding fluxes. It heats the flux to a temperature range of 350°C to 420°C for a fixed amount of time. The inside tank is made of stainless steel to prevent any risk of pollution and ensure a clean and safe environment for the flux.
- ◆ To achieve optimal heating, the resistances are positioned inside the hopper for direct contact with the flux. This ensures that the heat is evenly distributed throughout the flux, resulting in a consistent and efficient heating process.
- ◆ This oven features built-in digital control equipment with a double thermoregulator for air and resistance protection. This advanced system helps to prevent damage to the flux and allows for precise control over both the drying and keeping cycles. With this feature, you can be confident that your flux will be properly heated and maintained without any risk of damage or overheating.



To order W000120469



To order W000120470



To order W000120471

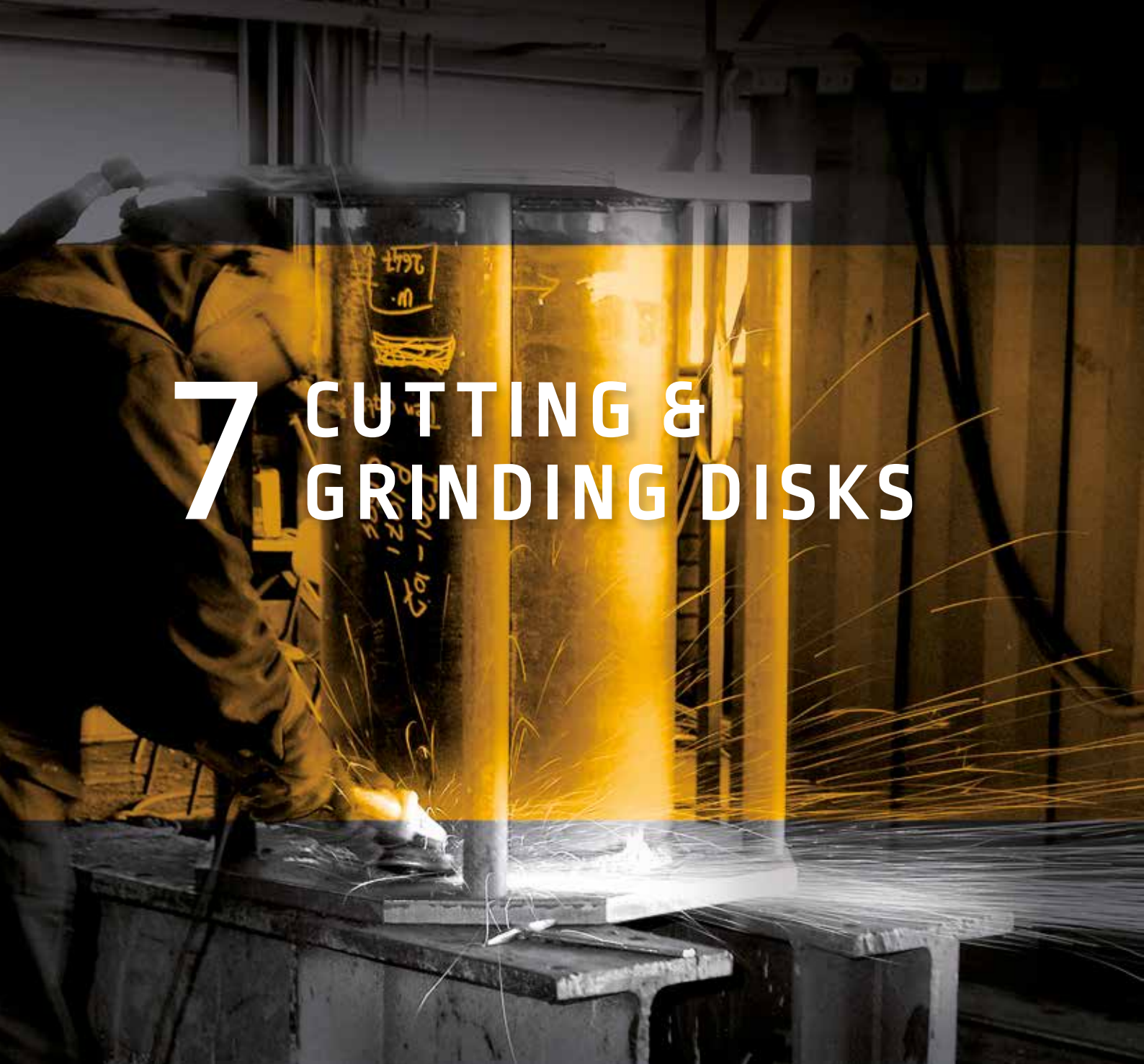
**CAUTION:**  
before use, carefully read  
and understand the safety  
datasheet available on  
our websites

**On request: other models**  
*(with one or two hoppers - with single  
or double digital control equipment)*

All WELDRY  
ovens are  
supplied  
with 2 m long  
cable

Technical data	WELDRY FW100	WELDRY FW200	WELDRY FW400
Load Capacity	60 kg	160 kg	320 kg
Max. Temperature	Adjustable up to 350 °C - air Adjustable up to 500 °C - heating elements		
Power	4 kW	6.6 kW	7.9 kW
Rating	Three phase - 380 V a.c. - 50/60 Hz		
Internal size (w x d x h)	530 x 390 x 640 mm	690 x 690 x 740 mm	690 x 690 x 740 mm (each hopper)
External size (w x d x h)	670 x 710 x 1300 mm	825 x 819 x 1330 mm	1 620 x 850 x 1 340 mm
Oven weight	90 kg	116 kg	210 kg
Height of the flap door for flux feeding	<b>a</b> = 500 mm	<b>a</b> = 450 mm	
Packaging dimensions (w x d x h)	690 x 750 x 1320 mm	850 x 860 x 1350 mm	1 640 x 870 x 1360 mm
Weight for transport	100 kg	130 kg	225 kg





# 7 CUTTING & GRINDING DISKS

## WELDING TOOLS AND ACCESSORIES

◆ Cutting and grinding disks ..... 112 - 114

# CUTTING AND GRINDING DISKS

**Weldline is offering a range of cutting and grinding disks designed for the main applications of industrial customers.**

EN 12413 - EN 13743

- ◆ Two extra thin cutting disks of 1 mm for steel and stainless steel.
- ◆ Flat and depressed center, hard cutting disk range for structural steel.
- ◆ A range of hard grinding disks for structural steel.
- ◆ A range of abrasive flap disks for grinding, finishing and cleaning applications.



When buying such products, always ask for OSA certification, a guarantee that the product complies with the safety standard and the additional requirements of the Organisation for the Safety of Abrasives

## Pictograms description



Red line means maximum speed 80 m/s

Wheel diameter	Maximum revolution at 80 m/s
115 mm	13 300 rpm
125 mm	12 250 rpm
180 mm	8 500 rpm
230 mm	6 650 rpm



# CUTTING AND GRINDING DISKS

## DUCTIFLEX PRO

Top quality cutting disks for professional use.

A range of high quality products providing an ideal balance between performance and life duration.

### Characteristics:

- ◆ Maximum speed 80 m/s.
- ◆ Diameter 115 to 230 mm.
- ◆ Thickness 1.0 to 3.2 mm.
- ◆ Should be used within 3 years from the production date.
- ◆ Design for steel, except the extra thin disks designed for steel and stainless steel.



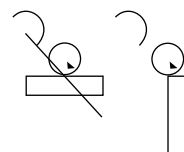
Dimensions	Shape	Use	Specification*	Unit / box	To order
115 x 1 x 22 mm	flat	steel/stainless steel	61A 60 S7 BF	50	W000261930
125 x 1 x 22 mm	flat	steel/stainless steel	61A 60 S7 BF	50	W000261931
115 x 1.6 x 22 mm	flat	steel/stainless steel	61A 60 S7 BF	50	W000335001
125 x 1.6 x 22 mm	flat	steel/stainless steel	61A 60 S7 BF	50	W000335002
115 x 2 x 22 mm	flat	steel	A 36 S7 BF	25	W000261932
125 x 2 x 22 mm	flat	steel	A 36 S7 BF	25	W000261933
180 x 2 x 22 mm	flat	steel	A 36 S7 BF	25	W000261934
230 x 2 x 22 mm	flat	steel	A 36 S7 BF	25	W000261935
180 x 2.5 x 22 mm	flat	steel	A 36 S7 BF	25	W000261936
230 x 2.5 x 22 mm	flat	steel	A 36 S7 BF	25	W000261937
115 x 3.2 x 22 mm	flat	steel	A 36 S7 BF	25	W000261938
180 x 3.2 x 22 mm	flat	steel	A 36 S7 BF	25	W000261939
230 x 3.2 x 22 mm	flat	steel	A 36 S7 BF	25	W000261940
115 x 2.5 x 22 mm	depressed	steel	A 36 S7 BF	25	W000261941
115 x 3.2 x 22 mm	depressed	steel	A 36 S7 BF	25	W000335005
125 x 2.5 x 22 mm	depressed	steel	A 36 S7 BF	25	W000261942
125 x 3.2 x 22 mm	depressed	steel	A 36 S7 BF	25	W000335006
180 x 2.5 x 22 mm	depressed	steel	A 36 S7 BF	25	W000261943
230 x 2 x 22 mm	depressed	steel	A 36 S7 BF	25	W000335003
230 x 2.5 x 22 mm	depressed	steel	A 36 S7 BF	25	W000261944
230 x 3.2 x 22 mm	depressed	steel	A 36 S7 BF	25	W000335004

- ◆ Extra thin wheels providing a fast and economical cutting performance on steel and stainless steel.
- ◆ Extra long product life
- ◆ High cutting speed
- ◆ Specially efficient on steel bars, pipes, sheets or shaped sections
- ◆ No need to eliminate burr after cutting
- ◆ Less material waste

Same quality with depressed center

- ◆ Hard cutting disks for structural steel.
- ◆ Long life duration
- ◆ Iron and structural steel cutting

### Recommendations:



Cutting will be faster by using a smaller contact surface between the disk and the work piece

\* Explanation of the specification: See next page

# CUTTING AND GRINDING DISKS

## DUCTIFLEX

### A grinding range for standard structural steel.

#### Characteristics:

- ◆ Steel surface cleaning, deburring, angle and corner dressing.
- ◆ Very good balance between performance and price, long life product.

Dimensions	Shape	Use	Specification	Unit/box	To order
115 x 6 x 22 mm	Depressed	Standard steel	A 30 S7 BF	10	W000261945
125 x 6 x 22 mm	Depressed	Standard steel	A 30 S7 BF	10	W000261946
180 x 6 x 22 mm	Depressed	Standard steel	A 30 S7 BF	10	W000261947
230 x 6 x 22 mm	Depressed	Standard steel	A 30 S7 BF	10	W000261948



### Explanation of the specifications

XXX	XX	X	XX	XX
Abrasive type	Grit size	Hardness	Structure	Bond

#### Abrasive type

A: Regular Aluminium oxide. For plain and low alloyed steel, cast steel and chilled cast iron  
 61A: Mixed Aluminium oxide. For grinding stainless steel and acid resisting steel

#### Grit size

16	20	22	24	30	36	40	46	54	60	70	80	90	100	120	150
Coarse				Medium						Fine					

Coarse for works without special precision, to fine for smoother surface

#### Hardness grade

E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
Very soft			Soft			Medium			Hard					

Soft grade are dedicated to hard materials, hard grade to softer materials

#### Structure

3	4	5	6	7	8	9	10	11	12	13
Closed		Medium				Open		Very open		

Ratio between grain, bond and pore. The softer the material is the more open structure is recommended

#### Bond

V	B	BF
Vitrified bonded	Resinoid bonded	Glass fibre

Resinoid bond are more flexible, for dynamic and forceful use than vitrified bond Glass fibre increase the resistance specially for heavy usage

# DUCTIFLAP

### Abrasive flap disks.

These disks are made by cutting abrasive fabrics, then cutting as flaps and bonding them on a fiberglass or nylon backing plate by an adhesive.

Our DUCTIFLAP disks are based on Zirconia Alumina, specially designed for steel, alloyed steel, non ferrous material; cast iron, wood and plastic. We use conical disks because it is possible to use them for curve surfaces, for edge grinding as well as lubricious or primed surfaces.

The grits are either 40, 60 or 80. The higher the grit is, the more precise the result is.

The types are 115 x 22 mm and 125 x 22 mm.

Bonding material: synthetic resin bonding phenolic resins.

Backing plate: fiberglass or nylon (plastic).

Filler: kryolits, calcide.

Shape: flat or conical 15%.

Dimensions	Grit	Unit/box	Shape	
			15 % conical for fiberglass backing	Flat for nylon backing
115 x 22 mm	40	10	W000264532	W000273754
	60	10	W000264533	-
	80	10	W000335007	W000273758
125 x 22 mm	40	10	W000264535	W000273757
	60	10	W000264534	W000273756
	80	10	W000335008	W000273755



**Personal protection:** protect your eyes and ears, wear a dust mask, safety gloves, [safety shoes & leather apron are recommended].

**Storage:** in dry and well ventilated areas.

Temperature between 18 and 22 °C, relative humidity between 45 and 60%.

The speed of the machine must never exceed the maximum operating speed of the disk: 80 m/s.



# 8 FLAME

## WELDING TOOLS AND ACCESSORIES

- ◆ Hoses / Automatic roller for oxygen hoses..... 117
- ◆ Quick action coupling ..... 118 - 119
- ◆ Cutting nozzles and other flame accessories ..... 120



Gas	Ø (mm)	Maximum pressure (bar)	Coil length (m)	To order
<b>Single hoses</b>				
Acetylene	6.3 x 12	10	20	W000010058
Oxygen	6.3 x 12	10	20	W000010059
Acetylene	6.3 x 12	10	40	W000010060
Oxygen	6.3 x 12	10	40	W000010061
LPG*	6.3 x 12	10	40	W000010062
Acetylene	10 x 16	20	20	W000010066
Oxygen	10 x 16	20	20	W000010067
Acetylene	10 x 16	20	40	W000010068
Oxygen	10 x 16	20	40	W000010069
LPG	10 x 16	20	20	W000010053
Oxygen	8 x 14	20	50	W000010079
Acetylene	8 x 14	20	50	W000010080
Argon	6.3 x 12	10	40	W000010072
Argon	10 x 16	20	40	W000010073

<b>Twin hoses</b>				
TWIN (Oxygen - Acetylene)	5 x 11	20	40	1105628
TWIN (Oxygen - Acetylene)	6.3 x 12	10	20	W000010077
TWIN (Oxygen - Acetylene)	6.3 x 12	10	40	W000010063
TWIN (Oxygen - Acetylene)	8 x 14	20	50	W000010078
TWIN (Oxygen - Acetylene)	10 x 16	20	20	W000010054
TWIN (Oxygen - Acetylene)	10 x 16	20	40	W000010070
TWIN (Oxygen - LPG)*	10 x 16	20	40	W000010076

\* Propylene excluded



THE DATE PRINTED ON THE HOSE IS THE MANUFACTURING DATE

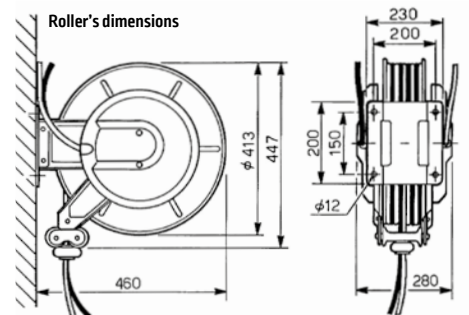
## AUTOMATIC ROLLER FOR OXYGEN HOSES TUBEREEL



### Automatic roller for twin hoses diameter 8 or 10 mm.

- ◆ Automatic roller for twin hoses diameter 8 or 10 mm.
- ◆ Allows the operator to choose the hose length suitable to his application
- ◆ Maximum length for inside diameter 8 mm: 20 m
- ◆ Maximum length for inside diameter 10 mm: 15 m
- ◆ Provided without hoses

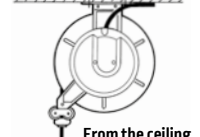
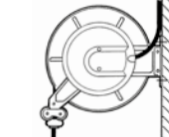
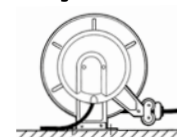
**To order** W000260575



On the ground

On a wall

From the ceiling





# QUICK ACTION COUPLINGS

## QUICKMATIC II

QUICKMATIC II is the new range of quick couplings designed and manufactured by Weldline.

Safety, Performance and Easy to Use are key words that characterize this new range.

QUICKMATIC II is available in several versions:

- ◆ By type of gas - presence of a mechanical coding
- ◆ For mounting on the regulator, between pipes and on the blowpipe
- ◆ With integrated FBA (Flash Back Arrestor)

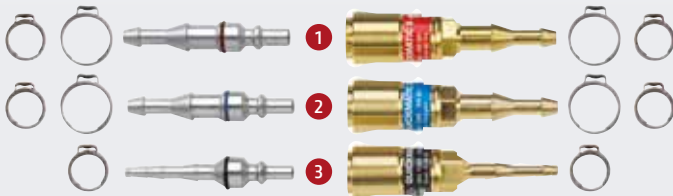
### Advantages:

- ◆ **Safety**
  - Gas flow stopped during disconnection due to an internal mechanism
  - Specific design limiting accidental disconnections
- ◆ **Ease of use and ergonomics**
  - «Push System» connection with automatic locking
  - Studied design to allow to use with one hand
- ◆ **Performances**
  - 4 levels of tightness
  - Compatible with any welding or cutting blowpipe thanks to limited pressure losses

### To order

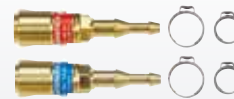
#### Connection between hoses **A**

QUICKMATIC II	Ø hoses (mm)	To order	
		Female connector	Male connector
1 Fuel Gas	6.3 and 10	W000011002	W000011005
	6.3 and 8	W000386369	
2 Oxygen	6.3 and 10	W000011001	W000011004
	6.3 and 8	W000386370	
3 Neutral gas (Argon, ...)	4 and 6.3	W000011003	W000011006



#### Also available in kits :

Females kit



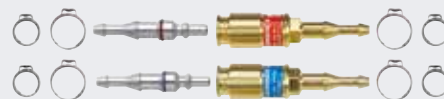
To order W000011015

Males kit



To order W000011016

Female / Male kit



To order W000011017

#### Regulator connection **B**

QUICKMATIC II	Thread	Ø hoses (mm)	To order	
			Female connector	Male connector
4 Fuel gas	M16 x 150 Left	6 and 10	W000011008	W000011005
	3/8" Left		W000011011	
5 Oxygen	M16 x 150 Right	6 and 10	W000011007	W000011004
	3/8" Right		W000011010	
	1/4" Right		W000011009	
6 Neutral gas (Argon, ...)	12 x 100 Right	4	W000011012	W000011006
	3/8" Right		W000386358	
	1/4" Right		W000386359	



#### Blowpipes' entry connection **C**

QUICKMATIC II	Thread	To order	Male connector
7 Fuel gas	16 x 150 Left	W000011014	
Oxygen	16 x 150 Right	W000011013	

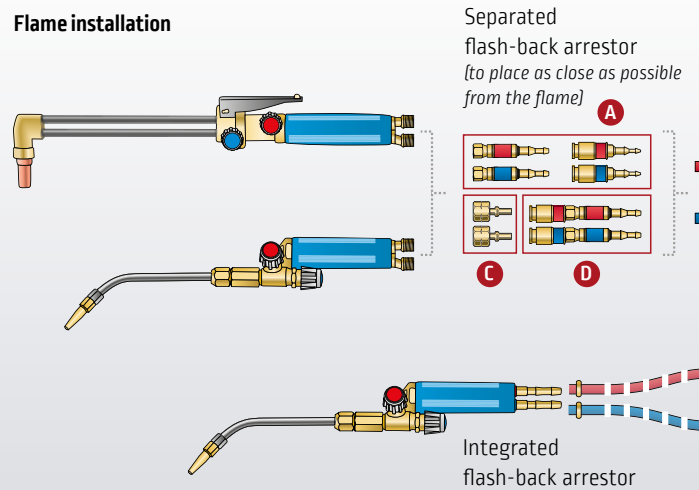
#### QUICKMATIC II with integrated FBA **D**

SECURTOP 662	Inlet hoses (mm)	Outlet	To order
Oxygen	Ø 6.3 and 10	QUICKMATIC II female	W000386367
	Ø 6.3 and 8		W000386368
Fuel Gas	Ø 6.3 and 10		W000386365
	Ø 6.3 and 8		W000386366
Kit Oxygen + Fuel gas	Ø 6.3 and 10		W000400169
	Ø 6.3 and 8		W000400170

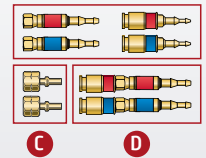


### Recommendations for use

#### Flame installation



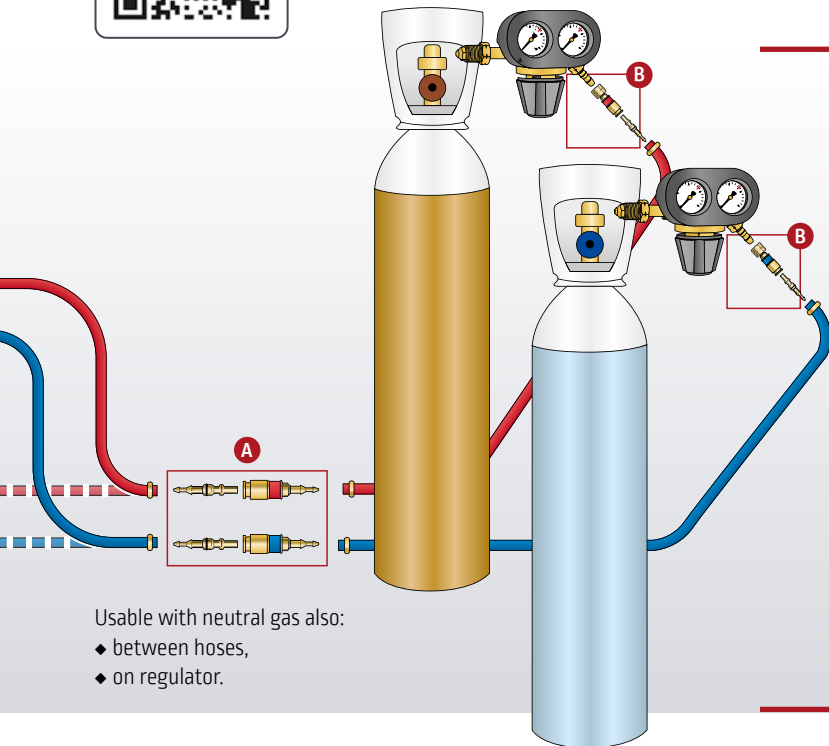
Separated flash-back arrestor (to place as close as possible from the flame) **A**



Integrated flash-back arrestor



Visit our factory



### Mounting on thread

QUICKMATIC II	Thread	To order	Female coupling
8 Fuel gas	16x150 Left	W000386360	
	3/8 Left	W000386362	
9 Oxygen	3/8 Right	W000386363	



### Technical characteristics and usable gases:

Label		Gas		Pressure max. (bar)	Max Flowrate (m <sup>3</sup> /h)*
Letter	Color	Name	Letter		
F	Red	Acetylen	A	1,5	14
		Propane	P	5	22
		Hydrogen	H	10	215
		Methane	M	5	40
		MPS	Y	5	24
		Propylene	L	5	22
O	Blue	Oxygen	O	20	65
N	Black	Air	D	20	90
		CO <sub>2</sub>	B		73
		Nitrogen, neutral gas	N		92

\* Maximal flowrate without flash-back arrestor

# CUTTING NOZZLES AND ACCESSORIES

## G1 cutting nozzles and IC cutting nozzles

G1 profile	Gauge (mm)	Cutting thickness (mm)	IC profile
Acetylene			Acetylene



W000262059	7/10	3-10	W000262089
W000262060	10/10	10-25	W000262091
W000262061	12/10	25-50	W000262093
W000262062	16/10	50-80	W000262094
W000262063	20/10	80-120	W000262095
W000262064	25/10	120-200	W000262096
W000262065	30/10	200-300	W000262097



Propane			Propane
W000262066	7/10	3-10	W000262098
W000262067	10/10	10-25	W000262099
W000262068	12/10	25-50	W000262100
W000262069	16/10	50-80	W000262101
W000262070	20/10	80-120	W000262102
W000262071	25/10	120-200	W000262105
W000262072	30/10	200-300	W000262106

## PROTECFLAM

Heat shield protection for walls and floors during gas welding, brazing or soldering.

**PROTECFLAM**  
Single use  
200 x 250 mm

Asbestos free



To order W000271449

Blister pack of 3 shields

## PROTECFLAM TECH

Very flexible (*memory effect*)  
Long life duration - Both sides usable  
200 x 250 mm

No toxic fumes release

To order W000276078



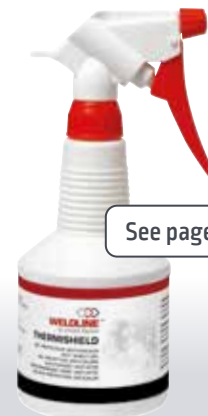
## Tip cleaners

Used to clean welding and cutting nozzles to restore nozzle performance. Contains a range of round needle files in a metal carry case.



To order W000290900

## THERMISHIELD



See page 123

## Spark lighter



To order W000010978



Traditional tool with five renewal flints.



To order W000211924

Gun model with ten renewal flints.

## Inspection mirrors

Mirror with magnetic stand

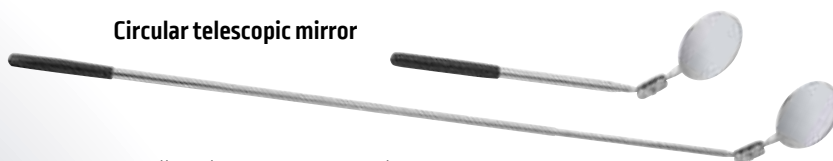


To order W000010557

To order W000010558

Spare part: mirror.

Circular telescopic mirror



For all angle viewing. Fast and accurate visual inspection of hidden areas with an almost limitless number of positions.

To order W000273291

# 9 LIQUIDS & SPRAYS



## WELDING TOOLS AND ACCESSORIES

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# ANTI-SPATTER



## CERASKIN

### Premium Ceramic Welding Anti-spatter spray

CERASKIN is a rapid drying, ceramic coating spray providing with exceptional protection welding equipment and welded parts from damage caused by spatter.

#### Product features:

- ◆ An extremely fast drying, long lasting and durable ceramic coating, formulated to withstand the most demanding requirements within a professional welding environment.
- ◆ The ceramic base forms a barrier and prevents weld spatter adhering to welding equipment and welded parts.
- ◆ CERASKIN provides 8 consecutive hours welding work (1 working day), without the addition of any further product.
- ◆ Volume: 400 ml (net) - 520 ml (nominal).



To order W000277679

## SPRAYMIG H<sub>2</sub>O

### ECO Welding Anti-spatter spray and liquid

- ◆ Water-based and odourless.
- ◆ No affect on porosity and cold cracks.
- ◆ No affect on the content of diffusible hydrogen in the weld metal.
- ◆ Solvent and silicone free.
- ◆ Biodegradable.
- ◆ Allows parts to be lacquered.
- ◆ Easily washed off parts.

**CAUTION:**  
before use,  
carefully read and  
understand the  
safety datasheet  
available on our  
websites

#### Description:

- ◆ Spraymig H<sub>2</sub>O silicone-free water-based anti-spatter based on highly efficient water soluble substances.
- ◆ It prevents spatter from sticking to nozzles, tips & work piece robots and extends nozzle life considerably.
- ◆ It permits rapid changing and cleaning of nozzles.
- ◆ Painting, galvanizing, lacquering of parts is possible.
- ◆ A preliminary test is recommended.
- ◆ Very low consumption for a maximum effectiveness.



Spray (400 ml)

To order W000010001

Drum (20 liters)

To order W000011074

#### Physical and chemical properties:

- ◆ Aspect: liquid uncoloured clear.
- ◆ Density at 20 °C: 1.00.
- ◆ Pure pH: 7.
- ◆ Volume: Spray: 400 ml (net), 520 ml (nominal) - Drum: 20 liters.
- ◆ Propellant gas: dimethylether.
- ◆ Base: water - based emulsion of organic substances.

#### Tips:

- ◆ Minimum spray 25cm of the part.

## SPRAYMIG SIB

### Basic silicone Welding Anti-spatter spray

- ◆ Lubricant.
- ◆ Water repellent.
- ◆ Sliding agent.
- ◆ Protects rubber.
- ◆ Antistatic.
- ◆ Polish.



#### Specifications:

- ◆ SPRAYMIG SIB is a preventive maintenance product for MIG/MAG torches.
- ◆ To be used on cold parts only, do not use on threads or inside contact tips (as the product is electrically insulating).
- ◆ Volume: 400 ml (net) - 520 ml (nominal).
- ◆ Propellant gas: aliphatic hydrocarbons.
- ◆ Base: silicone and isoparaffinic solvent.



To order W000011093

#### Tips:

- ◆ For preventive maintenance of MIG/MAG torches.
- ◆ Product to replace SVD with an identical result.

## SPRAYMIG SVB

### Basic silicone free Welding Anti-spatter

- ◆ Silicone free.
- ◆ Compatible with paint.
- ◆ Use on cold parts.
- ◆ Use on nozzles and outside contact tip only.
- ◆ Chlorine free / Not harmful.
- ◆ Silicone free / It allows treated surfaces to be overpainted, galvanized, etc...
- ◆ Easy to remove.



#### Specifications:

- ◆ SPRAYMIG SVB is an anti-spatter silicone free spray for welding applications.
- ◆ Volume: 400 ml (net) - 520 ml (nominal).
- ◆ Propellant gas: aliphatic hydrocarbons.
- ◆ Base: biodegradable synthetic polymers.



To order W000011092

# ANTI-SPATTER NETMIG



## Torches Anti-spatter paste. Anti-spatter DIP.

To order W00011071



- ◆ Protects nozzles and contact tips from spatter by immersion.
- ◆ Silicone and solvent free.
- ◆ Odourless.

### Specifications:

- ◆ Prevents spatter adhering:
  - To torch nozzles and contact tips,
  - To welding lathe positioners and jaws.
- ◆ Does not cause porosity.
- ◆ Base: waxes and oil.
- ◆ Volume: 300 gr.

# ANTI-CORROSION GALVASPRAY

## Zinc spray Anti-corrosion

- ◆ Protection of welded joints.
- ◆ Permits welded parts to be lacquered.

### Instructions for use:

- ◆ Clean and degrease the area to be treated.
- ◆ Before use, shake the can for at least one minute.
- ◆ Spray in short, regular bursts at a 25cm distance from the item.

### Specifications:

- ◆ GALVASPRAY sprays a zinc protective finish.
- ◆ Highly resistant to oxidation and corrosion (*more than 80 hours in salty fog*).
- ◆ Quick drying (*about 5 minutes*) and no dripping.
- ◆ Volume: 400 ml [*net*] - 520 ml [*nominal*].
- ◆ Propellant gas: propane/butane.
- ◆ Base: zinc powder in a vegetal resin.
- ◆ Chlorinated solvent free.
- ◆ Light zinc colour.
- ◆ Overpaintable.
- ◆ High covering power.
- ◆ Forms an elastic film.
- ◆ Non-drip.



To order W00011094

# HEAT PROTECTION THERMISHIELD

**THERMISHIELD is a gel that protects all surfaces from heat during welding and soldering. It prevents the deformation of metals and plastics caused by the heat of the blowpipe.**



### Instructions for use:

Shake well before use. Spray Thermishield on the surface to be protected from the source of heat (walls, partitions, joints, plastics ...) and without forgetting on the area of the pipe between the hand and the weld. In all cases, check that the entire surface is covered by the product. Re-apply the gel if required to finish the work. Clean the surface with a wet spongeto remove the product. Do not let it dry. Do not leave within the reach of children.

### Specifications:

- ◆ THERMISHIELD is compatible with all types of materials, even sensitive: plexyglass, wood, steel, copper, polystyrene, etc.
- ◆ Respect of the environment
- ◆ Non-toxic
- ◆ Non-corrosive
- ◆ Non-flammable
- ◆ No-flowing
- ◆ No-staining

To order W000274839

### Description:

- ◆ Appearance: Translucent gel
- ◆ Volume: 500 ml
- ◆ Ph: 8.5 +/- 1 (pure product at 20°C)
- ◆ Physical state:
  - Viscosity Brookfield Aig N°4 / RPM 60 : 4000m Pas / RPM 100 : 2000m Pas
- ◆ Density in 20°C: 1.010kg/m<sup>3</sup>
- ◆ Solubility: Soluble
- ◆ Storage: Fear frost / between 5°C and 30°C

#### Polystyrene Application

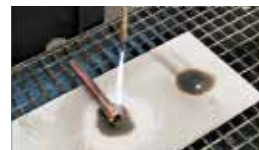


without protection

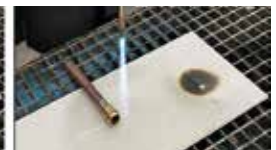


Protected with THERMISHIELD

#### Plaster Application



without protection

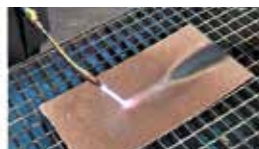


Protected with THERMISHIELD

#### Wood Application



without protection



protected with THERMISHIELD

#### Plexiglass Application



without protection

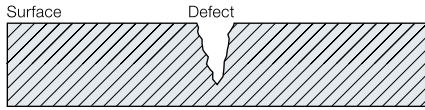


Protected with THERMISHIELD

# CRACKS DETECTION

## FLUXO

This non destructive technique allows the detection of cracks opening on the surface of the plate helping a visual control, due to the cracks becoming visible (30 to 50 µm).



### A wide range of materials:

Steel, ceramic, plastic, glass...

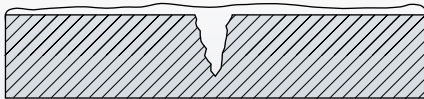
### Many industries:

- ◆ Boilers maker ◆ Founders ◆ Petrochemical
- ◆ Railway ◆ Nuclear ◆ Shipyard ◆ Automotive...



### 1 Cleaning

Product: FLUXO S190 - CLEANER



#### + Product:

- ◆ Perfect cleaning without dry rest.
- ◆ Quick drying [evaporation].
- ◆ Spray: - Spraying in all positions.

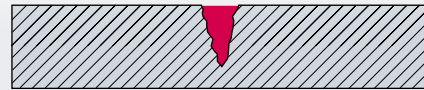
Spray based on Butane [extremely flammable].  
Solvent: Heptane.

Necessity for protection [petroleum based] Solvent.



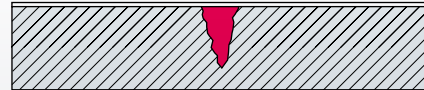
### 3 Cleaning

Product: water



### 4 Developer

Product: FLUXO R175 - DEVELOPER



#### + Product:

- ◆ Thin and uniform film and transparent film. After drying, the white surface appears.
- ◆ Very good surface coverage due to the thin granulometry.
- ◆ Quick drying of the solvent included in the developer.
- ◆ Spray: works in all position.
- ◆ Very good identification of the cracks under white light.

Butane/propane spraying.



### 2 Penetrant spray

Product: FLUXO P125 - PENETRANT



#### + Product:

- ◆ Temperature of use: 0 °C to 50 °C. Easy to use even on hot plates.
- ◆ Good impregnation. A single spray lasts more than 30 min without drying.
- ◆ Powerful penetration. Due to its viscosity.
- ◆ Spray: works in all positions.
- ◆ Very good identification of cracks under white light.
- ◆ Easy to remove with water. No "ground" noise.

Butane/propane spraying [extremely flammable].



### 5 Inspection of the defects



Cracks are visible at the surface of the plates, thanks to clear vivid red indications easily seen by the naked eye (no UV light required).



# NON DESTRUCTIVE CRACKS DETECTION



## 1 FLUXO S190 - CLEANER

Piece degreasing & cleaning  
of penetrant excess.

Pieces degreasing before application  
of the penetrant.

### Instructions:

Spray FLUXO S190 - CLEANER until  
disappearance of red or purple  
PENETRANT traces.

- ◆ Propellant: Butane / Propane.
- ◆ Volume : 500 ml [net] -  
650 ml [nominal].

**To order** W000374827



## 2 FLUXO P125 - PENETRANT

Type II - level 2 - Method AC  
Non destructive testing.

Localization of the emerging defects.  
Water rinse. Without rhodamine.  
Use temperature 0°C - 50°C.

### Instructions:

Be sure the area is clean. Spray at 20 cm  
FLUXO P125 - PENETRANT for a complete recover  
of the area. Let it penetrate at least 10 minutes.  
Rinse with FLUXO S190 - CLEANER or water.  
Control with FLUXO R175 - DEVELOPER.

- ◆ Propellant: Butane / Propane.
- ◆ Volume : 500 ml [net] - 650 ml [nominal].

**To order** W000374825



## 4 FLUXO R175 - DEVELOPER

Detection of cracks and surface faults.

Defects highlight by coloration of the penetrant.  
Daylight review.

**Instructions:** Be sure that the area is clean and without  
penetrant last trace.

Shake the can until hearing clearly the ball bearing.

Spray at 20 cm for an uniform layer without super thickness.

Wait a few minutes until obtaining a dry powdery film before  
examining the surface.

- ◆ Propellant: Butane / Propane.
- ◆ Volume : 500 ml [net] - 650 ml [nominal].

**To order** W000374826



**CAUTION:**  
before use, carefully read  
and understand the safety  
datasheet available  
on our websites

Also available: ARDROX

## ARDROX 9PR5 CLEANER

Degreasing before application of the  
penetrant, elimination of revealer excess.

**To order** W000374531

## ARDROX 9VF2 PENETRANT

Localization of the emerging defects.  
400 ml net.

**To order** W000374818

## ARDROX NQ1 DEVELOPER

Drying compositions highlighting the defects  
after the revealer action. 400 ml net.

**To order** W000374532



See the batch number on the packaging  
and consult your conformity certificate  
on our websites



# COOLING LIQUID FOR TORCHES

## FREEZCOOL (red) T°-27°C

FREEZCOOL is a highly elaborated cooling liquid. Its thermal stability and dielectric properties make a cooling liquid especially suitable for « high tech » systems.

### General use:

- ◆ Cooling of induction furnaces
- ◆ Cooling of tack welding systems, plasma flares
- ◆ Air conditioning
- ◆ Electric generators
- ◆ Motorcar industry: engines cooling systems, engines and gearboxes testing benches.
- ◆ Cooling of radar systems.

### Product benefits:

- ◆ Ensures an anti-freezing protection down to -27 °C
- ◆ High electrical resistivity
- ◆ Non volatile (*no product losses*)
- ◆ Chemically stable, does not polymerize
- ◆ Not corrosive
- ◆ Non toxic
- ◆ Non flammable

9.6 L

To order W000010167

### Controls:

- ◆ Freezing point with a refract meter
- ◆ pH control

### Physical properties:

- ◆ Physical form: red liquid
- ◆ Base: monopropylene glycol and water
- ◆ Specific gravity: 1.04 at 20 °C
- ◆ pH: 7+/-2
- ◆ Freezing point: -27 °C



### Packaging:

FREEZCOOL is delivered in 10 kilos net weight, polyethylene drums. For any other type of packaging, please contact us.

SAFETY  
DATA  
SHEET



Discover also

## FREEZCOOL (green) T°-5°C

Coolant for welding and cutting torches. Less viscous, it contains antifreeze but in a less important proportion and is not corrosive for brass and copper circuit. It is less sensible to friction and therefore it has a more important flow rate.

9.6 L

To order W000404005

For automation

# LEAKAGE CONTROL

## BUBBLE



A high-return product for leak detection suitable for all gases except high pressure oxygen > 150 bars.

- ◆ Volume: 500 ml (*net*) - 650 ml (*nominal*)
- ◆ Propellant gas: denaturate hydrocarbure
- ◆ Base: mixture of foam compounds
- ◆ Temperature of application: -10 °C/+130 °C

To order W000010963



**CAUTION:**  
before use, carefully read and understand the safety datasheet available on our websites

## 1000 BULLES

A leakage controller suitable for all gases except high pressure oxygen > 150 bars.

- ◆ Volume: 400 ml (*net*) - 650 ml (*nominal*)
- ◆ Propellant gas: nitrogen protoxyde
- ◆ Base: lauryether natrium sulfate

To order W000011090



See the batch number on the packaging and consult your conformity certificate on our websites





# STAINLESS STEEL TREATMENT

Weldline proposes a complete range of products for stainless steels treatment.

There are three essential phases for a good surface treatment:

- 1 Degreasing
- 2 Pickling
- 3 Passivation

The first two are «intermediate phases», which means that they can be repeated in different working stages. The third, passivation, always represents the final treatment step.

## 1 CLEANOX *(Degreasing- Liquid)*

Degreasing is the essential process before any thermal treatment. It avoids incidental remains of oil or dust which interact (*contamination*) with the metal during welding or thermal treatment of stainless steel. It can be repeated in the following phases, in case further thermal processing is required, before the final passivation.

### How to use CLEANOX DEGREASER

Dilute the degreaser with 30% to 50% water and allow it to vapourize on the surface to be treated. Leave for a few minutes to allow the product to act and then rinse with clean water. Do not expose the product or treated surface to sunlight or to any atmospheric agents.



CLEANOX L (liquid) 30 kg

To order W000266425

## 2 PICKLINOX *(Pickling - Product in gel or paste)*

Pickling is the operation that permits the remove of all oxides after welding, removing the surface layer following a thermal treatment. It is the most important step in the treatment process. A welding bead and generally a heated surface, lose their stainless property ( $Cr < 12\%$ ). For this reason, a pickling operation does not mean only cleaning the welding bead but it restores the stainless steel characteristics.

### How to use PICKLINOX GEL or PASTE

Degrease the surface to be treated with the specific CLEANOX product. Then apply a coat of PICKLINOX paste or gel. The exposure time will vary from a few minutes up to 30 minutes depending on the type of steel being welded. At the end of treatment, remove the gel or the paste with clean water. Do not expose the product or treated surface to sunlight or to any atmospheric agents.



PICKLINOX G (gel) 2 kg

To order W000266426

PICKLINOX G (gel) 10 kg

To order W000266427



PICKLINOX P (paste) 2 kg

To order W000266428

PICKLINOX P (paste) 10 kg

To order W000266429



## 3 RESTORINOX *(Passivation - Product in gel)*

This is the final phase of the process, and is absolutely necessary for restoring the stainless property. With passivation is created a « desired oxidation ». In fact this working phase restores the chromium layer damaged by heat shortening the spontaneous oxidation time. In this way, the oxide layer which protects the surface from external agents is restored.

### How to use RESTORINOX

First degrease and pickle the part to be treated with CLEANOX and PICKLINOX. Then apply the product. The times required for exposure will vary from 20 minutes up to 60 minutes. At the end of the treatment remove the product with clean water. Do not expose the product or treated surface to sunlight or to any atmospheric agents.



RESTORINOX G (gel) 2 kg

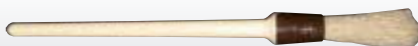
To order W000266430



RESTORINOX G (gel) 10 kg

To order W000266431

Paintbrush  
Compatible  
with acid.



To order W000267116



WELDLINE  
by Lincoln Electric

WELDLINE  
by Lincoln Electric



#### **CUSTOMER ASSISTANCE POLICY**

The business of The Lincoln Electric Company® is manufacturing and selling high quality welding equipment, consumables, and cutting equipment. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or advice about their use of our products. Our employees respond to enquiries to the best of their ability based on information 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. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or advice. Moreover, the provision of such information or advice does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or advice, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose is specifically disclaimed.

Lincoln Electric is a responsive manufacturer, but 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.

Subject to Change – This information is accurate to the best of our knowledge at the time of printing. Please refer to [www.lincolnelectric.eu](http://www.lincolnelectric.eu) for any updated information.



[www.lincolnelectriceurope.com](http://www.lincolnelectriceurope.com)

