

Lincoln Electric Europe

# Equipment Catalogue



**LINCOLN**<sup>®</sup>  
**ELECTRIC**

Lincoln Electric is the world leader in the design, development and manufacture of arc welding products, robotic arc-welding systems, plasma and oxyfuel cutting equipment and has a leading global position in the brazing and soldering alloys market. Headquartered in Cleveland, Ohio, U.S.A., Lincoln has manufacturing locations, including operations, manufacturing alliances and joint ventures in more than 20 countries and a worldwide network of distributors and sales offices covering more than 160 countries.

Lincoln has a global workforce of more than 9,000. Recognized as The Welding Experts®, the Company provides cutting edge technology products and solutions.

From its early beginnings, Lincoln pioneered technological advancements and improvements in arc welding consumables and equipment.

Lincoln sustains the industry's most aggressive and comprehensive research and product development program.














This effort is supported by the David C. Lincoln Technology Center, the most advanced facility of its kind, and several other R&D centers in the world. Arc welding is indispensable to many industries. For example, the metal working field involves production arc welding in transportation, construction, fabrication, petrochemical and other industries. In the manufacture of metal products, arc welding applications range from producing consumer appliances to fabricating heavy machinery and structural steel. Arc welding is the dominant joining method for building and other industrial construction, including oil and gas pipeline fabrication and oil refinery construction. Lincoln Electric products and solutions are playing an important role in the development of these industries and infrastructures.



**LINCOLN**®  
**ELECTRIC**

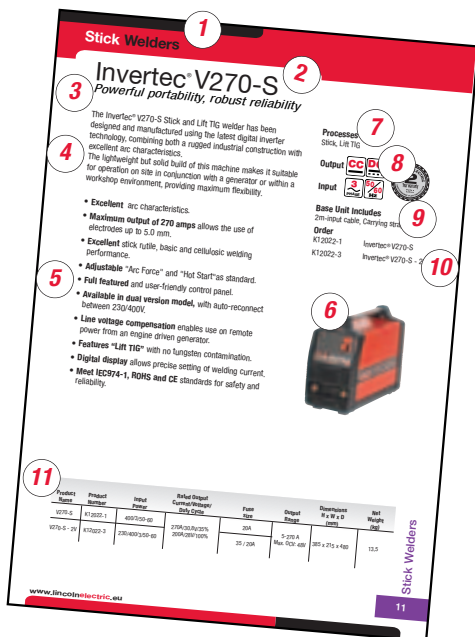
THE WELDING EXPERTS®



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# Using this Catalogue

- 1 Catalogue Section**  
Identifies Catalogue section for easy-to-find products.
- 2 Product Name**  
Official Lincoln product name.
- 3 Product Description**  
Brief description of the product.
- 4 Opening Paragraph**  
This is a general description of the product. It may also include features and applications.
- 5 Key features**  
This section highlights the key features and benefits of the product.
- 6 Product Picture**  
Detailed photo of Lincoln products.
- 7 Processes**  
Recommended arc welding processes for the product.
- 8 Input & Output Icons**  
See below for descriptions.
- 9 Unit includes/key options**  
These sections list options that are included for each product
- 10 Ordering**  
To order, select the product number that best fits your welding needs.
- 11 Technical Specifications**  
Common specifications, ratings, dimensions and weight of the product.



## Output Icons



For constant current stick and TIG processes



Alternating current welding output



Continuous auxiliary power output



For constant voltage MIG, flux-cored and subarc processes



Direct current welding output



2-roll wire feeder



4-roll wire feeder



For multi-process constant current or constant voltage applications



Alternating or direct current welding output



Advanced waveform control technology



Single phase input power



115 volt AC Wire feeder input power



50/60 Hertz input power



Three phase input power



42 volt AC Wire feeder input power



Engine Driven – Diesel



Single or three phase input power



40 volt DC Wire feeder input power

# Stick Welders

# Stick

## WELDERS

### Versatile Stick Welders for Shop or Field

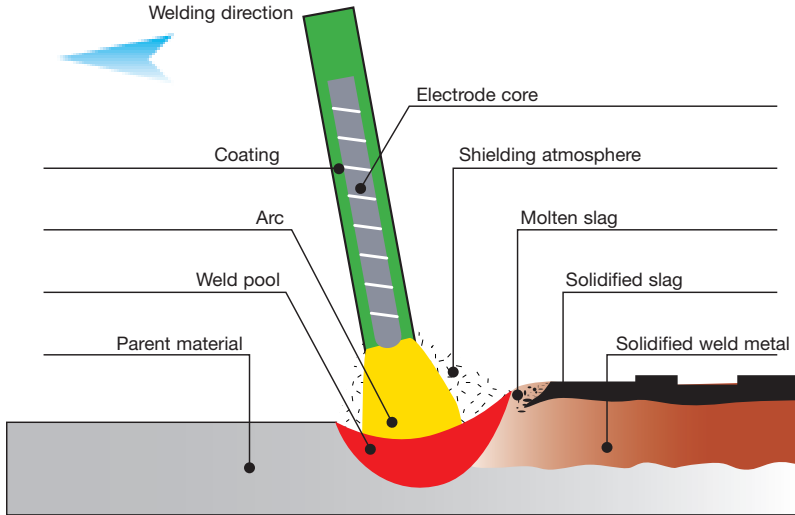
- Weld a Wide Range of Materials and Thicknesses
- Conventional or Inverter Models

|                    | MODEL                      | OUTPUT |          |                   | INPUT       | PROCESS     |       |          |             | FEATURES  |                           |           |           |        |
|--------------------|----------------------------|--------|----------|-------------------|-------------|-------------|-------|----------|-------------|-----------|---------------------------|-----------|-----------|--------|
|                    |                            | Mode   | Polarity | Current Range (A) |             | Voltage (V) | Stick | Lift TIG | TIG Scratch | Arc Gouge | 115/230 Volt Auto-Sensing | Hot Start | Arc Force | Meters |
| 1-Phase Inverters  | <i>Inverter® 135S</i>      | CC     | DC       | 10-120            | 230         | ●           | ●     |          |             |           |                           |           |           | 2      |
|                    | <i>Inverter® 150S</i>      | CC     | DC       | 10-140            | 230         | ●           | ●     |          |             | ●         | ●                         |           |           | 2      |
|                    | <i>Inverter® 170S</i>      | CC     | DC       | 10-160            | 230         | ●           | ●     |          |             | ●         | ●                         | ●         |           | 2      |
|                    | <i>Inverter® V205-S</i>    | CC     | DC       | 5-200             | 230/400     | ●           | ●     |          |             | ●         | ●                         | ●         | ●         | 2      |
| 3-Phase Inverters  | <i>Inverter® V270-S</i>    | CC     | DC       | 5-270             | 230/400     | ●           | ●     |          |             | ●         | ●                         | ●         |           | 2      |
|                    | <i>Inverter® V405-S</i>    | CC     | DC       | 5-400             | 400         | ●           | ●     |          |             | ●         | ●                         | ●         |           | 2      |
|                    | <i>Inverter® 270SX</i>     | CC     | DC       | 5-270             | 400         | ●           | ●     |          |             | ●         | ●                         | ●         |           | 3      |
|                    | <i>Inverter® 400SX</i>     | CC     | DC       | 5-400             | 400         | ●           | ●     |          |             | ●         | ●                         | ●         |           | 3      |
| 3-Phase Rectifiers | <i>LINC 405-S</i>          | CC     | DC       | 15-400            | 230/400     | ●           | ●     | ○        |             | ●         | ●                         |           |           | 2      |
|                    | <i>LINC 405-SA</i>         | CC     | DC       | 15-400            | 230/400     | ●           | ●     | ○        |             | ●         | ●                         | ●         |           | 2      |
|                    | <i>LINC 635-S</i>          | CC     | DC       | 15-670            | 230/400     | ●           | ●     | ○        |             | ●         | ●                         |           |           | 2      |
|                    | <i>LINC 635-SA</i>         | CC     | DC       | 15-670            | 230/400     | ●           | ●     | ○        |             | ●         | ●                         | ●         |           | 2      |
|                    | <i>Idealarc® R3R-600-I</i> | CC     | DC       | 75-625            | 230/380/440 | ●           | ●     | ○        |             | ●         | ●                         | ●         |           | 3      |

KEY: ● Excellent ● Good ● Optional

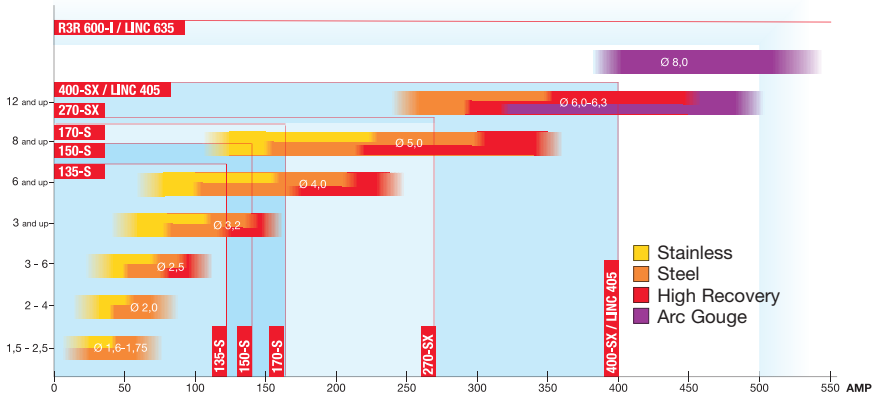
## SMAW Process

### Shielded Metal Arc Welding / Stick (M.M.A.) Welding



In this welding process, an electric arc is created between a coated consumable electrode and the work piece to be welded, causing the parent material to be fused together and the electrode to melt. The electrode is of similar material as the parent material, and by melting provides the weld (or joint) with a reinforcing filler material. The electrode may be coated with basic, rutile or cellulose material, and as the coating burns it protects the arc and weld pool from the atmosphere with a gaseous shroud, the slag which solidifies over the newly deposited weld also protects it from the atmosphere.

### Selection Chart for Stick Welding



## Invertec® 135S / 150S / 170S

*Small, powerful and robust*

|                              | 135S      | 150S       | 170S       |
|------------------------------|-----------|------------|------------|
| <b>Applications</b>          |           |            |            |
| Electrode diameter           | 1.5-3.2mm | 1.5-3.2mm  | 1.5-4.0mm  |
| Rutile / basic electrodes    | ●         | ●          | ●          |
| 2.5mm                        | ●         | ●          | ●          |
| 3.2mm                        | ●         | ●          | ●          |
| 4.0mm                        | ●         | ●          | ●          |
| <b>Performance</b>           |           |            |            |
| Hot start                    |           | ●          | ●          |
| Auto-adaptative arc force    |           | ●          | ●          |
| Soft & Crisp mode            |           | ●          | ●          |
| Advanced arc control         | ●         | ●          | ●          |
| Anti-stick                   | ●         | ●          | ●          |
| <b>Environment</b>           |           |            |            |
| Long cables                  |           | ● (60m)    | ● (60m)    |
| Generator use                |           | ●          | ●          |
| <b>Features</b>              |           |            |            |
| Lift TIG                     | ⊖ Scratch | ● Lift TIG | ● Lift TIG |
| Digital meter                |           | ●          | ●          |
| Fan on demand                |           | ●          | ●          |
| <b>Packaging</b>             |           |            |            |
| Machine + cables             |           | ●          | ●          |
| Machine + cables +shield+box | Standard  | ●          | ●          |
| <b>Warranty</b>              |           |            |            |
|                              | 2 year    | 2 year     | 2 year     |

### Processes

Stick

### Output



### Input

### Base Unit Includes

input cable (all), work lead and 2m-cable, electrode holder and 3m-cable (135S only)

### Order

K12033-1 Invertec® 135S  
 K12034-1 Invertec® 150S  
 K12035-1 Invertec® 170S



| Product Name | Product Number | Input Power | Rated Output Current/Duty Cycle | Fuse size | Output Range | Dimensions H x W x D (mm) | Net Weight (kg) |
|--------------|----------------|-------------|---------------------------------|-----------|--------------|---------------------------|-----------------|
| 135S         | K12033-1       | 230/1/50-60 | 120A/25%                        | 16A       | 10-120 A     | 224 x 148 x 315           | 5,6             |
| 150S         | K12034-1       | 230/1/50-60 | 140A/30%                        | 16A       | 10-140 A     | 244 x 148 x 365           | 7,7             |
| 170S         | K12035-1       | 230/1/50-60 | 160A/35%                        | 16A       | 10-160 A     | 244 x 148 x 365           | 8,0             |

## Invertec® V205-S

*Smart switching, full flexibility*

The Invertec® V205-S Stick and Lift TIG welder has been designed and manufactured using the latest digital inverter technology, combining both a rugged industrial construction with excellent arc characteristics.

The lightweight but solid build of this machine makes it suitable for operation on site in conjunction with a generator or within a workshop environment, providing maximum flexibility. The smart switching 230/400V single phase enables connection of the V205S virtually everywhere.

- **Smart switching** 230/400V single phase.
- **Excellent** arc characteristics.
- **Maximum output of 205 amps** allows the use of electrodes up to 4.0 mm.
- **Excellent** stick rutile, basic and cellulosic welding performance.
- **Adjustable** "Arc Force" and "Hot Start" as standard.
- **Full featured** and user-friendly control panel.
- **Line voltage compensation** enables use on remote power from an engine driven generator.
- **Features "Lift TIG"** with no tungsten contamination.
- **Digital display** allows precise setting of welding current.
- **Meet IEC974-1, ROHS and CE** standards for safety and reliability.

### Processes

Stick, Lift TIG

### Output



### Input

### Base Unit Includes

2m-input cable, carrying strap.

### Order

K12019 -1 Invertec® V205-S



| Product Name | Product Number | Input Power     | Rated Output Current/Voltage/ Duty Cycle | Fuse size     | Output Range             | Dimensions H x W x D (mm) | Net Weight (kg) |
|--------------|----------------|-----------------|--|---------------|--------------------------|---------------------------|-----------------|
| V205-S       | K12019-1       | 230/400/1/50-60 | 200A/28V/35%<br>170A/26,8V/100%          | 35/20A (slow) | 5-200 A<br>Max. OCV: 48V | 385 x 215 x 480           | 16,8            |

## Invertec® V270-S

*Powerful portability, robust reliability*

The Invertec® V270-S has been designed and manufactured using the latest digital inverter technology, combining both a rugged industrial construction with excellent arc characteristics. The lightweight but solid build of this machine makes it suitable for operation on site in conjunction with a generator or within a workshop environment, providing maximum flexibility.

- **Excellent** arc characteristics.
- **Maximum output of 270 amps** allows the use of electrodes up to 5.0 mm.
- **Excellent** stick rutile, basic and cellulosic welding performance.
- **Adjustable** "Arc Force" and "Hot Start" as standard.
- **Full featured** and user-friendly control panel.
- **Available in dual version model**, with auto-reconnect between 230/400V.
- **Line voltage compensation** enables use on remote power from an engine driven generator.
- **Features "Lift TIG"** with no tungsten contamination.
- **Digital display** allows precise setting of welding current.
- **Meet IEC974-1, ROHS and CE** standards for safety and reliability.

### Processes

Stick, Lift TIG

### Output



### Input



### Base Unit Includes

2m-input cable, carrying strap.

### Order

K12022-3

Invertec® V270-S



| Product Name | Product Number | Input Power     | Rated Output Current/Voltage/ Duty Cycle | Fuse size | Output Range             | Dimensions H x W x D (mm) | Net Weight (kg) |
|--------------|----------------|-----------------|--|-----------|--------------------------|---------------------------|-----------------|
| V270-S - 2V  | K12022-3       | 230/400/3/50-60 | 270A/30,8V/35%<br>200A/28V/100%          | 35 / 20A  | 5-270 A<br>Max. OCV: 48V | 385 x 215 x 480           | 13,5            |

## Invertec® 270SX

*Professional welder built for tough working conditions*

The Invertec® 270SX Stick and Lift TIG welder is designed and manufactured using the latest digital inverter technology. The unit is ready for heavy environmental conditions and combining a rugged industrial construction with excellent arc characteristics. The lightweight but solid build of this machine makes it suitable for operation on site in conjunction with a generator or within a workshop environment, providing maximum flexibility.

- **Robust**, built for heavy environmental conditions.
- **Excellent** stick rutile, basic welding performance.
- **Full protected PCB's** separated from the air stream
- **Maximum output of 270 amps** allows the use of electrodes up to 5.0 mm.
- **Adjustable "Arc Force"** and "Hot Start" as standard.
- **Full featured** and user-friendly control panel.
- **Line voltage compensation** enables use on remote power from an engine driven generator.
- **Features "Lift TIG"** with no tungsten contamination.
- **Digital display** allows precise setting of welding current
- **Meet IEC974-1, ROHS and CE** standards for safety and reliability.

### Processes

Stick, Lift TIG

### Output



### Input



### Base Unit Includes

2m-input cable

### Order

K12040-1

Invertec® 270SX



THE LINCOLN ELECTRIC GREEN INITIATIVE

Inverter Technology  
reduces energy demand

[www.lincolnelectric.com/green](http://www.lincolnelectric.com/green)



| Product Name | Product Number | Input Power | Rated Output Current/Voltage/Duty Cycle | Fuse size | Output Range             | Dimensions H x W x D (mm) | Net Weight (kg) |
|--------------|----------------|-------------|---|-----------|--------------------------|---------------------------|-----------------|
| 270SX        | K12040-1       | 400/3/50-60 | 270A/30,8V/35%<br>200A/28V/100%         | 20A       | 5-270 A<br>Max. OCV: 48V | 389 x 247 x 489           | 22              |

## Invertec® 400SX

*Professional welder built for tough working conditions*

The Invertec® 400SX Stick and Lift TIG welder is a portable and robust piece of equipment providing excellent arc characteristics. With its generator compatibility and complete versatility it can be fully utilised anywhere from sites to workshops. Featuring “Lift TIG”, “Hot Start” and an adjustable “Arc Force”, this machine has enormous flexibility. The high duty cycle of the machine supports continuous welding with a wide variety of electrode types. The Invertec® 400SX has a solid industrial construction with the features of a professional Stick and Lift TIG welding machine capable of the toughest jobs.

- **Robust**, built for heavy environmental conditions.
- **Excellent** stick rutile, basic and cellulosic welding performance.
- **Full protected PCB's** separated from the air stream.
- **Maximum output of 400 amps** allows the use of electrodes up to 6.3 mm.
- **Adjustable "Arc Force"** and "Hot Start" as standard.
- **Full featured** and user-friendly control panel.
- **Line voltage compensation** enables use on remote power from an engine driven generator.
- **Features “Lift TIG”** with no tungsten contamination.
- **Digital display** allows precise setting of welding current
- **Meet IEC974-1, ROHS and CE** standards for safety and reliability.

### Processes

Stick, Lift TIG, Gouging

### Output



### Input



### Base Unit Includes

2m-input cable.

### Order

K12042-1 Invertec® 400SX



| Product Name | Product Number | Input Power | Rated Output Current/Voltage/Duty Cycle | Fuse size | Output Range             | Dimensions H x W x D (mm) | Net Weight (kg) |
|--------------|----------------|-------------|---|-----------|--------------------------|---------------------------|-----------------|
| 400SX        | K12042-1       | 400/3/50-60 | 400A/36V/35%<br>300A/32V/100%           | 30A       | 5-400 A<br>Max. OCv: 48V | 455 x 301 x 618           | 36              |

## LINC 405-S & SA / LINC 635-S & SA

*The rugged and distinguished workhorses*

The LINC 405 and 635 are exceptionally rugged conventional stick rectifiers built to be used under harsh environmental conditions. The units are available in two versions :

- the basic LINC 405-S and LINC 635-S ready to support stick welding with all rutile, basic and cellulosic electrodes
- LINC 405-SA and LINC635-SA complete with the additional features of arc force, hot start and digital meters.

### Processes

Stick, Lift TIG DC (-SA), Gouging

### Output



### Input



- **Rugged conventional welding rectifier** with excellent arc characteristics.
- **Capable** to weld Rutile, Basic and Cellulose electrodes
- **Arc gouging** capability.
- **Hot Start** supporting excellent arc starting (SA).
- **Arc Force** to prevent sticking of the electrode in the welding pool (SA).
- **Digital meters** showing welding Amperage (SA).
- **Easy to understand** graphic control panels.
- **Fan on demand (F.A.N.™)** built-in reduces power and the intake of dust and fumes.
- **Ready to be moved.** Equipped with wheels, pull bar and two lifting hooks.
- **Lift TIG DC** capability (SA).
- **Meet IEC974-1, ROHS and CE** standards for safety and reliability.

### Base Unit Includes

5m-input cable

### Order

|          |             |
|----------|-------------|
| K14002-2 | LINC 405-S  |
| K14002-1 | LINC 405-SA |
| K14038-2 | LINC 635-S  |
| K14038-1 | LINC 635-SA |



| Product Name | Product Number | Input Power     | Rated Output Current/Voltage/Duty Cycle | Fuse size   | Output Range  | Dimensions H x W x D (mm) | Net Weight (kg) |
|--------------|----------------|-----------------|---|-------------|---------------|---------------------------|-----------------|
| LINC 405-S   | K14002-2       | 230/400/3/50-60 | 400A/36V/35%                            | 63A (230V)  | 15-400 A      | 640 x 580 x 700           | 126             |
| LINC 405-SA  | K14002-1       |                 | 240A/29V/100%                           | 40A (400V)  | Max. OCV: 78V |                           |                 |
| LINC 635-S   | K14038-2       | 230/400/3/50-60 | 670A/44V/35%                            | 100A (230V) | 15-670 A      | 670 x 580 x 700           | 150             |
| LINC 635-SA  | K14038-1       |                 | 500A/40V/60%                            | 63A (400V)  | Max. OCV: 78V |                           |                 |

## R3R 600-I

### Heavy duty stick welding and arc gouging

Look to the R3R 600-I power source from Lincoln Electric for your heavy-duty stick welding needs. Whether you're using mild steel, low hydrogen, stainless steel or hardfacing electrodes, the Idealarc R3R 600-I produces a smooth, quality arc for consistent results day-in and day-out. 600A at maximum output gives the R3R600-I an excellent arc gouging behaviour. The R3R 600-I is also a proven DC TIG welder – simply add TIG accessories and a cylinder of shielding gas.

- **Excellent arc characteristics** for a wide range of electrode types.
- **Maximum output of 600 amps** allows the use of electrodes up to 6.3mm & Gouging.
- **Infinitely variable "Arc Force"** and "Hot Start".
- **Easy to operate**—Calibrated current control knob makes procedure setting simple and easy.
- **Polarity switch, voltmeter and ammeter** are standard.
- **Rugged case design** for portability and impact resistance.
- **Input voltage compensation.**
- **Thermostatic** overload protection.
- **Meet IEC974-1, ROHS and CE** standards for safety and reliability.

#### Processes

Stick, Gouging, TIG (optional)

#### Output



#### Input

#### Order

K1381-2

R3R600-I



| Product Name | Product Number | Input Power         | Rated Output Current/Voltage/Duty Cycle | Fuse size | Output Range             | Dimensions H x W x D (mm) | Net Weight (kg) |
|--------------|----------------|---------------------|---|-----------|--------------------------|---------------------------|-----------------|
| R3R 600-I    | K1381-2        | 230/380/440/3/50-60 | 600A/44V/35%<br>375A/35V/100%           | 103A      | 75-625A<br>Max. OCV: 64V | 700 x 565 x 840           | 209             |

## Invertec® V350-PRO

*Design smart, Built tough*

The Invertec® V350-PRO is the most powerful portable multi-process inverter power source in its class. Smart operation allows it to handle any stick, TIG, and MIG applications. This machine is ready to connect with a wire feeder and equipped with two digital meters showing Amps and voltage. Continuous adjustable choke and Arc force are provided as standard.

- **Superb welding** with Basic, Rutile and Cellulosic electrodes, MIG and Flux Cored.
- **Its plug and play intelligence** allows it to automatically adjust to your wire feeder instantly.
- **Tough durable case** with roll bars and skid for protected transport.
- **Bright, large digital meters.**
- **Control panel** is simple in design and easy to operate
- **Meet IEC974-1, ROHS and CE** standards for safety and reliability.

### Processes

Stick, TIG, MIG, Flux-Cored, Gouging

### Output



### Input



### Base Unit Includes

3m-input cable

### Order

K1728-12

V350-PRO



| Product Name | Product Number | Input Power                     | Rated Output Current/Voltage/Duty Cycle  | Fuse size | Output Range              | Dimensions H x W x D (mm) | Net Weight (kg) |
|--------------|----------------|---------------------------------|--|-----------|---------------------------|---------------------------|-----------------|
| V350-PRO     | K1728-12       | 200/220/380/415/<br>440/3/50-60 | 350A/34V/60%-3ph<br>300A/32V/100%-3ph<br>320A/33V/60%-1ph<br>275A/31V/100%-1ph |           | 5-425A<br>Max OCV: 80V DC | 376 x 338 x 709           | 38              |

## ACCESSORY KITS

### CABLE KITS (GROUND/ELECTRODE)

with ground cable & electrode holder (clamp)

Item n° :

**KIT-140A-16-3M** (140A - 16mm<sup>2</sup> - 3m)

**KIT-140A-25-5M** (140A - 25mm<sup>2</sup> - 5m)

**KIT-200A-25-3M** (200A - 25mm<sup>2</sup> - 3m)

**KIT-200A-35-5M** (200A - 35mm<sup>2</sup> - 5m)

**KIT-250A-35-5M** (250A - 35mm<sup>2</sup> - 5m)

**KIT-300A-50-5M** (300A - 50mm<sup>2</sup> - 5m)

**KIT-400A-70-5M** (400A - 70mm<sup>2</sup> - 5m)



### CABLE KITS (GROUND)

Item n° :

**GRD-400A-70-5M** (400A - 70mm<sup>2</sup> - 5m)

**GRD-400A-70-10M** (400A - 70mm<sup>2</sup> - 10m)

**GRD-400A-70-15M** (400A - 70mm<sup>2</sup> - 15m)

**GRD-600A-95-10M** (600A - 95mm<sup>2</sup> - 10m)



## REMOTE CONTROLS

1 potentiometer, 6 pins, 15m

Item n° : **K10195-1-15M**

2 potentiometers (fine adjustment), 6 pins, 15m  
(for use with R3R600-1)

Item n° : **K10124-1-15M**



Extension cable

Item n° : **K10398**

## UNDERCARRIAGES

2-wheeled cart, delivered as a kit, for use with 170S, V205S, V270S

Item n° : **W0200002**



4-wheeled undercarriage with gas cylinder platform delivered as a kit, for use with V405

Item n° : **K2694-1**



## GAS PRESSURE REGULATOR

Accommodates CO<sub>2</sub>, argon or argon-blended gas cylinders. Includes a cylinder pressure gauge, dual scale flow gauge and 1,3m gas hose



Item n° : **consult us**

## TIG TORCHES

### LINC TORCH™ RANGE

With the LINC TORCH™ range, Lincoln Electric offers a complete collection of TIG welding torches. No matter what the application, there will be a perfectly suitable torch for the job.

LT 17G, standard torch head, manual valve, 140A DC / 100A AC @ 35% 10-25 mm<sup>2</sup> connector

**K10513-17-4VS** LT17 GV, 4m

**K10513-17-8VS** LT17 GV, 8m



35-50 mm<sup>2</sup> connector

**K10513-17-4V** LT17 GV, 4m

**K10513-17-8V** LT17 GV, 8m

# TIG

## WELDERS

Lincoln® TIG Welders Give You the Power to Perform!<sup>SM</sup>

- Precision Arc Control
- Code Quality Results
- Convenient High Value Features

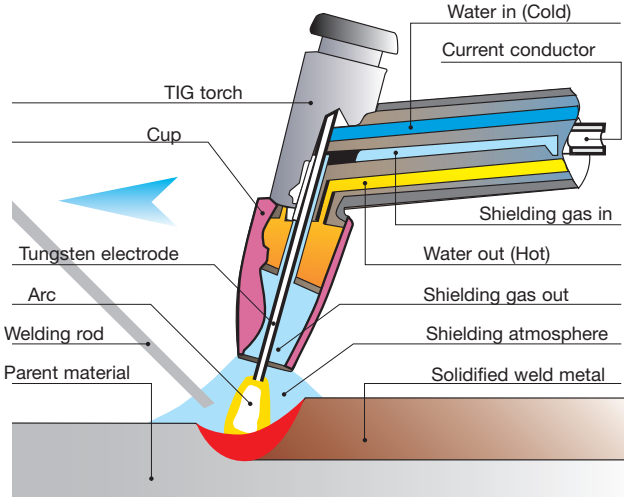
MICRO/START™ II  
TECHNOLOGY

|                      | MODEL                         | OUTPUT |          |                   | INPUT<br>Voltage (V) | PROCESS |          |        |           |         | FEATURES       |          |                   |        |
|----------------------|-------------------------------|--------|----------|-------------------|----------------------|---------|----------|--------|-----------|---------|----------------|----------|-------------------|--------|
|                      |                               | Mode   | Polarity | Current Range (A) |                      | Stick   | Lift TIG | TIG HF | TIG Pulse | Gouging | Auto-reconnect | HF Pulse | Variable AC freq. | Meters |
| 1-Phase<br>Inverters | <i>Invertec® V160-T</i>       | CC     | DC       | 5-160             | 230                  | ●       | ●        | ●      |           |         |                |          |                   | 2      |
|                      | <i>Invertec® V160-T-2V</i>    | CC     | DC       | 5-160             | 115/230              | ●       | ●        | ●      |           |         |                |          |                   | 2      |
|                      | <i>Invertec® V160-TP</i>      | CC     | DC       | 5-160             | 230                  | ●       | ●        | ●      | ●         |         | ●              | ●        |                   | 2      |
|                      | <i>Invertec® V160-TP-2V</i>   | CC     | DC       | 5-160             | 115/230              | ●       | ●        | ●      | ●         |         | ●              | ●        |                   | 2      |
|                      | <i>Invertec® V205-TP-2V</i>   | CC     | DC       | 5-200             | 230/400              | ●       | ●        | ●      | ●         |         | ●              | ●        | ●                 | 2      |
|                      | <i>Invertec® V205-T AC/DC</i> | CC     | AC/DC    | 6-200             | 115/230              | ●       | ●        | ●      | ●         |         | ●              | ●        | ●                 | 2      |
| 3-Phase<br>Inverters | <i>Invertec® V270-T</i>       | CC     | DC       | 5-270             | 400                  | ●       | ●        | ●      |           |         | ●              | ●        |                   | 2      |
|                      | <i>Invertec® V270-TP</i>      | CC     | DC       | 5-270             | 400                  | ●       | ●        | ●      | ●         |         | ●              | ●        |                   | 2      |
|                      | <i>Invertec® V270-TP-2V</i>   | CC     | DC       | 5-270             | 230/400              | ●       | ●        | ●      | ●         |         | ●              | ●        |                   | 2      |
|                      | <i>Invertec® V405-TP</i>      | CC     | DC       | 5-400             | 400                  | ●       | ●        | ●      | ●         | ●       | ●              | ●        |                   | 2      |
|                      | <i>Invertec® V270-T AC/DC</i> | CC     | AC/DC    | 3-270             | 230/400              | ●       | ●        | ●      | ●         |         | ●              | ●        | ●                 | 2      |
|                      | <i>Invertec® V320-T AC/DC</i> | CC     | AC/DC    | 3-320             | 230/400              | ●       | ●        | ●      | ●         |         | ●              | ●        | ●                 | 2      |

KEY: ● Excellent ● Good ● Optional

# TIG Process

## Gas Tungsten Arc Welding



In this welding process, the electric arc is generated between a non-consumable tungsten electrode and the work piece to be welded. An inert gas atmosphere, usually argon, protects the weld pool. Welding can be done by simply fusing of the parent material together, or with the addition of welding rod similar to the parent material. The rod is allowed to melt in the electric arc and will fill and reinforce the weld joint.

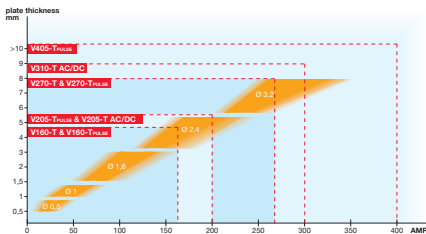
Arc ignition is achieved by touching the work piece with the electrode and lifting it by a few millimetres (contact ignition and lift ignition) or by using a high frequency voltage discharge, a gap of about 4 millimetres is maintained from the tungsten electrode and the work piece, high frequency spark is generated, this makes the air gap conductive, and allows the arc to be established without touching of the work piece with the tungsten electrode, no tungsten contamination can occur (High Frequency ignition).

The following can be used:

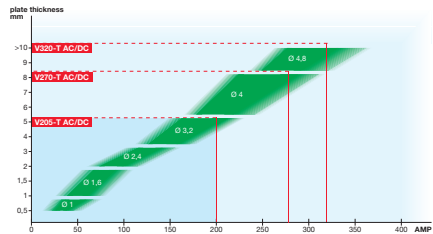
- DC (continuous) current is used with most metals (steel / stainless steel).
- AC (alternative) current is ideal for welding aluminium and other materials containing surface refractory oxide.

## Selection Chart for TIG Welding

### Steel / Stainless



### Aluminium



## Invertec® V160-T&TP

*Designed and engineered for durability*

The Invertec® V160-T & T-Pulse TIG and Stick welders combine a rugged industrial construction with excellent arc characteristics. They are full function DC TIG inverters with excellent arc control. Their built-in gas solenoid and choice of High Frequency or Touch-Start TIG starting make them ideal for a wide variety of DC TIG applications.

They can also weld stick with a variety of popular Lincoln stick electrodes. Their portable rugged design makes them ideal for both in shop or field use. A unique feature of the V160-T Pulse is the variable high frequency Pulse that allows the welder to adjust the arc focus to suit the applications.

- **Advanced inverter technology** for superior TIG performance.
- **Generator compatible** ideal for site use.
- **HF and Lift TIG** ignition meeting all requirements.
- **Full function user-friendly control panel layout** for easy setup of welding parameters.
- **Fan on demand (F.A.N.™)** built-in reduces power and the intake of dust and fumes.
- **Recessed controls and connections** designed to eliminate damage.
- **High speed Pulse on the V160-T Pulse machine** to adjust the arc focus, reduce distortion and increase travel speed.
- **Meet IEC974-1, ROHS and CE** standards for safety and reliability.

### Processes

Stick, Lift TIG, TIG HF, TIG Pulse (V160-TP)

### Output



### Input



### Base Unit Includes

2m-input cable, Carrying strap, Gas connection kit.

### Order

|          |   |
|----------|---|
| K12017-1 | Invertec® V160-T<br>230/1/50-60           |
| K12017-3 | Invertec® V160-T - 2V<br>115/230/1/50-60  |
| K12018-1 | Invertec® V160-TP<br>230/1/50-60          |
| K12018-3 | Invertec® V160-TP - 2V<br>115/230/1/50-60 |



| Product Name            | Product Number       | Input Power     | Rated Output Current/Voltage/Duty Cycle | Fuse size | Output Range            | Dimensions H x W x D (mm) | Net Weight (kg) |
|-------------------------|----------------------|-----------------|---|-----------|-------------------------|---------------------------|-----------------|
| V160-T<br>V160-TP       | K12017-1<br>K12018-1 | 230/1/50-60     | 160A/26,4V/35%<br>130A/25,2V/100%       | 16A       | 5-160A<br>Max. OCv: 48V | 320 x 200 x 430           | 10,5            |
| V160-T-2V<br>V160-TP-2V | K12017-3<br>K12018-3 | 115/230/1/50-60 |   | 32A / 16A |                         |                           |                 |

# Invertec® V205-TP-2V

*Smart switching, full flexibility*

The Invertec® V205-T PULSE is manufactured in a lightweight but robust outer casing, making it portable and ideal for operation, even in the most hazardous environments. The smart switching 230/400V single phase and generator compatibility of the V205-T PULSE allow it to be utilised anywhere on sites and workshops. It features HF TIG ignition, Lift TIG ignition, 2 or 4 step, variable down slope and postflow control, a digital pre-set meter with a Hold function and built-in Variable Pulse.

- **Excellent arc characteristics** for Rutile, Basic and Cellulosic electrodes up to 4.0mm.
- **Smart switching** 230/400V single phase.
- **Generator compatible**, ideal for site use.
- **HF and Lift TIG** ignition.
- **HIGH speed PULSE** to adjust the arc focus, reduce distortion and increase travel speed.
- **Fan on demand (F.A.N.™)** built-in reduces power and the intake of dust and fumes.
- **Meet IEC974-1, ROHS and CE** standards for safety and reliability.

**Processes**

Stick, Lift TIG, TIG HF, TIG Pulse

**Output**



**Input**



**Base Unit Includes**

2m-input cable, Carrying strap, Gas connection kit.

**Order**

K12021-1

Invertec® V205-TP - 2V



| Product Name | Product Number | Input Power     | Rated Output Current/Voltage/Duty Cycle | Fuse size     | Output Range             | Dimensions H x W x D (mm) | Net Weight (kg) |
|--------------|----------------|-----------------|---|---------------|--------------------------|---------------------------|-----------------|
| V205-TP-2V   | K12021-1       | 230/400/1/50-60 | 200A/28V/35%<br>170A/26,8V/100%         | 35/20A (slow) | 5-200 A<br>Max. OCv: 48V | 385 x 215 x 480           | 18,1            |

## Invertec® V270-T & TP

*Designed and engineered for durability*

The Invertec® V270-T & V270-T PULSE are manufactured in a lightweight but robust outer casing, making them portable and ideal for operation, even in the most hazardous environments. The flexibility and generator compatibility of the V270-T & V270-T PULSE allow them to be utilised anywhere on sites and workshops. Their features include HF TIG ignition, Lift TIG ignition, 2 or 4 step, variable down slope and postflow control, a digital pre-set meter with a Hold function and built-in Variable Pulse.

- **Excellent arc characteristics** for a wide range of applications.
- **Generator compatible**, ideal for site use.
- **HF and Lift TIG** ignition.
- **Full function** user-friendly control panel layout.
- **Available in dual version model**, with auto-reconnect between 230/400V.
- **HIGH speed PULSE** to adjust the arc focus, reduce distortion and increase travel speed (TP version only).
- **Fan on demand (F.A.N.™)** built-in reduces power and the intake of dust and fumes.
- **Meet IEC974-1, ROHS and CE** standards for safety and reliability.

### Processes

Stick, Lift TIG, TIG HF, TIG Pulse

### Output



### Input



### Base Unit Includes

2m-input cable, Carrying strap, Gas connection kit.

### Order

|          |   |
|----------|---|
| K12023-1 | Invertec® V270-T<br>400/3/50-60           |
| K12024-1 | Invertec® V270-TP<br>400/3/50-60          |
| K12024-3 | Invertec® V270-TP - 2V<br>230/400/3/50-60 |



| Product Name | Product Number | Input Power     | Rated Output Current/Voltage/Duty Cycle | Fuse size | Output Range  | Dimensions H x W x D (mm) | Net Weight (kg) |
|--------------|----------------|-----------------|---|-----------|---------------|---------------------------|-----------------|
| V270-T       | K12023-1       | 400/3/50-60     | 270A/30,8V/35%                          | 20A       | 5-270 A       | 385 x 215 x 480           | 13,5            |
| V270-TP      | K12024-1       |                 | 200A/28V/100%                           |           | Max. OCV: 48V |                           |                 |
| V270-TP-2V   | K12024-3       | 230/400/3/50-60 |   | 35 - 20A  |               |                           |                 |

## Invertec® V405-TP

*Designed and engineered for durability*

The Invertec® V405-T PULSE is manufactured in a lightweight but robust outer casing, making it portable and ideal for operation, even in the most hazardous environments. The flexibility and generator compatibility of the V405-T PULSE allows it to be utilised anywhere on sites and workshops. Its features include HF TIG ignition, Lift TIG ignition, 2 or 4 step, variable down slope and post flow control, a digital pre-set meter with a Hold Function and built-in Variable Pulse.

- **Excellent arc characteristics** for a wide range of applications.
- **Generator compatible**, ideal for site use.
- **HF and Lift TIG** ignition.
- **Full function** user-friendly control panel layout.
- **HIGH speed PULSE** to adjust the arc focus, reduce distortion and increase travel speed.
- **Fan on demand (F.A.N.™)** built-in reduces power and the intake of dust and fumes.
- **Meet IEC974-1, ROHS and CE** standards for safety and reliability.

### Processes

Stick, Lift TIG, TIG HF, TIG Pulse Gouging

### Output



### Input



### Base Unit Includes

2m-input cable, Gas connection kit.

### Order

K12027-1

Invertec® V405-TP



| Product Name | Product Number | Input Power | Rated Output Current/Voltage/Duty Cycle | Fuse size | Output Range             | Dimensions H x W x D (mm) | Net Weight (kg) |
|--------------|----------------|-------------|---|-----------|--------------------------|---------------------------|-----------------|
| V405-TP      | K12027-1       | 400/3/50-60 | 400A/36V/35%<br>300A/32V/100%           | 30A       | 5-400 A<br>Max. OCV: 48V | 500 x 270 x 610           | 31              |

## Invertec® V205-T AC/DC

*Code quality AC/DC TIG welding*

The Invertec® V205-T AC/DC is ideal for critical AC or DC TIG welding applications. This full featured TIG welder is also capable of stick welding. Variable AC frequency and balance control allow you to focus the arc when precise arc control is required. The 115/230V auto-reconnect makes the V205-T AC/DC truly flexible and the rugged, portable, lightweight design is ideal for shop or field environments. It can be simply changed to a water cooled unit by adding the COOL ARC® 20 Water Cooler.

- **Advanced inverter technology** optimizes arc performance in a lightweight package.
- **AC or DC output** for a wide variety of material types and thicknesses.
- **Three modes of operation** DC TIG, AC TIG or Stick.
- **Full-featured TIG controls.**
- **Auto-reconnects** for 115/230V 50/60Hz input power.
- **Line voltage compensation** allows remote power from an engine driven generator.
- **Adjustable AC frequency** allows you to focus the arc for precise arc control.
- **Fan on demand (F.A.N.™)** built-in reduces power and the intake of dust and fumes.
- **Meet IEC974-1, ROHS and CE standards** for safety and reliability.

### Processes

Stick, TIG AC, TIG DC, TIG Pulse

### Output



### Input



### Base Unit Includes

2m-input cable, Carrying strap, Gas connection kit.

### Order

K1855-2

Invertec® V205-T AC/DC



| Product Name | Product Number | Input Power     | Rated Output Current/Voltage/Duty Cycle | Fuse size | Output Range | Dimensions H x W x D (mm) | Net Weight (kg) |
|--------------|----------------|-----------------|---|-----------|--------------|---------------------------|-----------------|
| V205T AC/DC  | K1855-2        | 115/230/1/50-60 | 200A/18V/40%<br>170A/16,8V/60%          | 32A / 16A | 6-200A       | 385 x 215 x 480           | 18              |

# Invertec® V270-T & V320-T AC/DC

*Perfect performance, digital dynamics*

The Invertec® V270-T AC/DC & V320-T AC/DC are industrial TIG welding machines able to perform at a high output.

The machines are equipped with a unique LCD user interface, not only showing welding parameters but also the effect on the arc.

Some of the standard features of these machines include the variable frequency control, allowing the welder to adjust the arc focus to suit the application.

The adjustable cleaning and penetration facility, a square wave AC form which can be set to an alternative wave form and adjustable Starting current. They can be simply changed to water cooled units by adding the COOL ARC® 34 Water Cooler.

- **Digital inverter technology** allowing 100% reproducible results.
- **Superb welding characteristics** with TIG AC, TIG DC and MMA processes.
- **Unique LCD** user interface.
- **Adjustable cleaning and penetration** for perfect aluminium welding
- **Variable AC frequency** for control of travel speed and penetration
- **Adjustable Hot or Soft start** to produce a better weld bead appearance at the start
- **Digital display** allows precise setting of welding parameters
- **Fan on demand (F.A.N.™)** built-in reduces power and the intake of dust and fumes.
- **Meet IEC974-1, ROHS and CE** standards for safety and reliability.

**Processes**

Stick, TIG AC, TIG DC, TIG Pulse

**Output**



**Input**



**Base Unit Includes**

2m-input cable, Gas connection kit.

**Order**

K12045-1 Invertec® V270-T AC/DC

K12046-1 Invertec® V320-T AC/DC



| Product Name | Product Number | Input Power     | Rated Output Current/Duty Cycle | Fuse size | Output Range | Dimensions H x W x D (mm) | Net Weight (kg) |
|--------------|----------------|-----------------|---------------------------------|-----------|--------------|---------------------------|-----------------|
| V270-T AC/DC | K12045-1       | 230/400/3/50-60 | 270A/35%                        | 20A       | 3-270A       | 432 x 280 x 622           | 28              |
| V320-T AC/DC | K12046-1       | 230/400/3/50-60 | 320A/35%                        | 25A       | 3-320A       | 432 x 280 x 622           | 33              |

## ACCESSORY KITS

### CABLE KITS (GROUND/ELECTRODE)

with ground cable & electrode holder (clamp)

Item n° :

**KIT-140A-16-3M** (140A - 16mm<sup>2</sup> - 3m)

**KIT-140A-25-5M** (140A - 25mm<sup>2</sup> - 5m)

**KIT-200A-25-3M** (200A - 25mm<sup>2</sup> - 3m)

**KIT-200A-35-5M** (200A - 35mm<sup>2</sup> - 5m)

**KIT-250A-35-5M** (250A - 35mm<sup>2</sup> - 3m)

**KIT-300A-50-5M** (300A - 50mm<sup>2</sup> - 5m)

**KIT-400A-70-5M** (400A - 70mm<sup>2</sup> - 5m)

### CABLE KITS (GROUND)

Item n° :

**GRD-200A-35-5M** (200A - 35mm<sup>2</sup> - 5m)

**GRD-200A-35-10M** (200A - 35mm<sup>2</sup> - 10m)

**GRD-300A-50-5M** (300A - 50mm<sup>2</sup> - 5m)

**GRD-300A-50-10M** (300A - 50mm<sup>2</sup> - 10m)

**GRD-400A-70-5M** (400A - 70mm<sup>2</sup> - 5m)

**GRD-400A-70-10M** (400A - 70mm<sup>2</sup> - 10m)

**GRD-400A-70-15M** (400A - 70mm<sup>2</sup> - 15m)

**GRD-600A-95-10M** (600A - 95mm<sup>2</sup> - 10m)

### REMOTE CONTROLS

1 potentiometer, 6 pins, 15m

Item n° : **K10195-1-15M**

Foot Amptrol, 6pins, 7,6m

Item n° : **K870**

### UNDERCARRIAGES

2-wheeled cart, delivered as a kit, for use with V160T, V205-TP, V270-TP

Item n° : **W0200002**

4-wheeled undercarriage with gas cylinder platform delivered as a kit, for use with V405-TP, V320-T AC/DC

Item n° : **K2694-1**

### GAS PRESSURE REGULATOR

Accommodates CO<sub>2</sub>, argon or argon-blended gas cylinders. Includes a cylinder pressure gauge, dual scale flow gauge and 1,3m gas hose

Item n° : consult us

## TIG TORCHES

### LINC TORCH™ RANGE

With the LINC TORCH™ range, Lincoln Electric offers a complete collection of TIG welding torches. No matter what the application, there will be a perfectly suitable torch for the job.

#### AIR COOLED

LT 9G, small torch head,

110A DC / 180A AC @ 35%.

**K10513-9-4** LT9 G, 4m

**K10513-9-8** LT9 G, 8m

LT 17G, standard torch head,

140A DC / 100A AC @ 35%

**K10513-17-4** LT17 G, 4m

**K10513-17-8** LT17 G, 8m

LT 26G, standard torch head,

180A DC / 130A AC @ 35%

**K10513-26-4** LT26 G, 4m

**K10513-26-8** LT26 G, 8m

#### WATER COOLED

LT 20W, small torch head,

220A DC / 160A AC @ 100%

**K10513-20-4** LT20 W, 4m

**K10513-20-8** LT20 W, 8m

LT 18w, standard torch head,

320A DC / 230A AC @ 100%

**K10513-18-4** LT18 W, 4m

**K10513-18-8** LT18 W, 8m

## WATER COOLERS

### COOL ARC° 20

for use with V205/V270

Item n° : **K12031-1**

### COOL ARC° 30

for use with V405

Item n° : **K12032-1**

### COOL ARC° 34

for use with V270-T AC/DC & V320-T AC/DC

Item n° : **K12047-1**

### COOLANT ACOROX (2X5l)

Item n° : **K10420-1**



# MIG

## WIRE FEEDER/WELDERS

– The Professional's Choice!<sup>SM</sup>

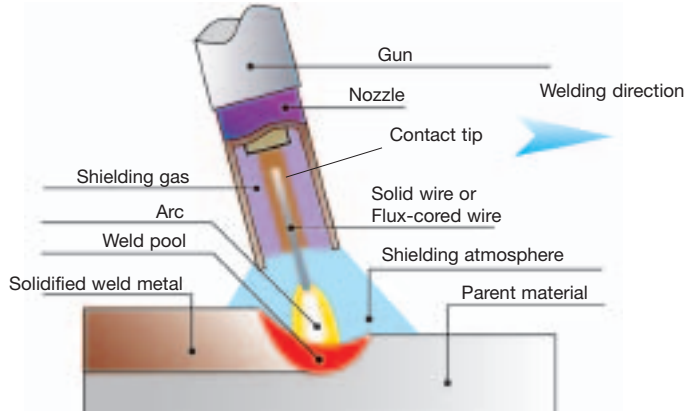
- For home, farm, autobody, maintenance or fabrication.
- Professional Drive System.

|                         | MODEL                     | OUTPUT |          |                      | INPUT          | PROCESS     |     | FEATURES   |             |             |             |
|-------------------------|---------------------------|--------|----------|----------------------|----------------|-------------|-----|------------|-------------|-------------|-------------|
|                         |                           | Mode   | Polarity | Current Range (Amps) |                | Voltage (V) | MIG | Flux-Cored | Nb of steps | Drive rolls | WFS (m/min) |
| 1-Phase<br>MIG compacts | <b>Handy Core</b>         | CV     | DC       | 45-80                | 230            |             | ●   | 2          | 1.0-20      | 3           |             |
|                         | <b>Handy MIG</b>          | CV     | DC       | 45-80                | 230            | ●           | ●   | 2          | 1.0-20      | 3           |             |
|                         | <b>Powertec® 161C</b>     | CV     | DC       | 30-150               | 230            | ●           | ●   | 7          | 2 1.0-17    | 3           |             |
|                         | <b>Powertec® 191C</b>     | CV     | DC       | 30-180               | 230            | ●           | ●   | 8          | 2 1.0-20    | 3           |             |
|                         | <b>Powertec® 231C</b>     | CV     | DC       | 35-220               | 230            | ●           | ●   | 12         | 2 1.0-20    | 3           |             |
|                         | <b>Powertec® 271C</b>     | CV     | DC       | 35-255               | 230            | ●           | ●   | 12         | 2 1.0-20    | 3           |             |
|                         | <b>Power MIG® 180C</b>    | CV     | DC       | 30-180               | 230            | ●           | ●   | 2          | 1.0-20      | 3           |             |
| 3-Phase<br>MIG compacts | <b>Powertec® 205C</b>     | CV     | DC       | 25-200               | 230/400<br>400 | ●           | ●   | 10         | 4 1.0-20    | 3           |             |
|                         | <b>Powertec® 255C</b>     | CV     | DC       | 25-200               | 230/400<br>400 | ●           | ●   | 20         | 4 1.0-20    | 3           |             |
|                         | <b>Powertec® 305C</b>     | CV     | DC       | 25-200               | 230/400<br>400 | ●           | ●   | 30         | 2/4 1.0-20  | 3           |             |
|                         | <b>Powertec® 305C Pro</b> | CV     | DC       | 30-300               | 230/400        | ●           | ●   | 30         | 4 1.0-20    | 3           |             |
|                         | <b>Powertec® 355C Pro</b> | CV     | DC       | 30-350               | 230/400        | ●           | ●   | 30         | 4 1.0-20    | 3           |             |
|                         | <b>Powertec® 425C Pro</b> | CV     | DC       | 30-420               | 230/400        | ●           | ●   | 30         | 4 1.0-20    | 3           |             |

KEY: ● Excellent ● Good ● Optional

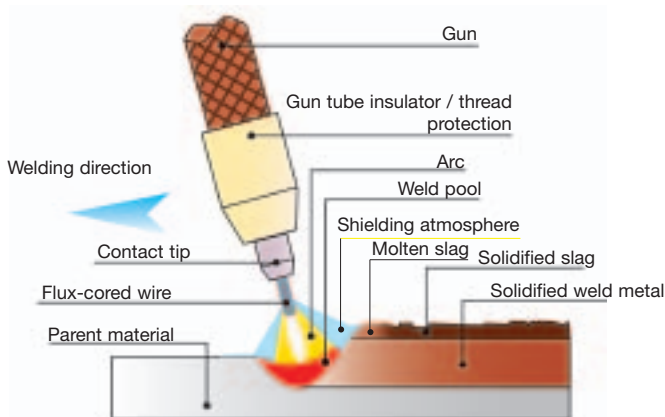
## MIG Process

### Gas shielded MIG welding



The MIG/MAG welding process (or GMAW - Gas Metal Arc Welding) is when an electric Arc is created between a continuous consumable wire and the work piece to be welded, protected within a gas atmosphere. This atmosphere can be either inert (Argon) or active (CO<sub>2</sub> or mixture of Argon and CO<sub>2</sub>). The wire is continuously fed through a gun to the weld pool by a wire feeder. Either Solid Wire (GMAW) or Cored Wire (FCAW-GS - flux-cored arc welding, gas shielding) can be used.

### Self shielded Flux-Cored welding



Innershield welding is an Arc welding process in which welding heat is created from an arc between a continuous flux cored wire and the work piece. The flux provides gas shielding for the arc and a slag covering of the weld deposit.

## Handy Core & Handy MIG

*Superbly simple, powerfully portable*

These compact, portable and lightweight wire feed welders plug into a 230V, 16 amp outlet. These machines are ideally suited to the light maintenance and repair such as for the small garage worker and jobs around the Farm.

Four voltage settings and continuous wire feed speed adjustment allow you to weld light gauge mild steel. It is easy to get started since practically everything you will need to weld is included – gun and cable assembly, work cable & clamp, spool of cored wire (+ solid wire with Handy MIG), contact tips and handsheld with filter plate and lens. But that's not all – a chipping hammer/brush so you can use your Handy CORE and Handy MIG to weld straight away.

- **Suitable for the welding of most** thin sheet steel applications.
- **Connects to** 230V, 16 amp outlet.
- **Safe operation** - no electrical current until trigger is pressed.
- **Compact, portable, lightweight** and easy to use.
- **Ideal for** general light maintenance projects.
- **Continuous wire feed speed adjustment** and four selectable voltage steps for precise control.
- **Fan-cooled** for long life expectancy.
- **Supplied ready** to weld.
- **Meet IEC974-1, ROHS and CE** standards for safety and reliability.

### Processes

Flux-Cored (Innershield<sup>®</sup>), MIG

### Output



### Input



### Base Unit Includes

- **Handy Core**  
MIG gun, drive rolls, 0,5kg Innershield wire coil, kit of welding accessories.
- **Handy MIG**  
MIG gun, drive rolls, 0,5kg Innershield wire coil, 0,5kg solid wire coil, kit of welding accessories.

### Order

K14001-1 Handy CORE  
K14000-1 Handy MIG



| Product Name | Product Number | Input Power | Rated Output<br>Current/Voltage/Duty Cycle | Fuse size | Output Range                     | Dimensions<br>H x W x D (mm) | Net Weight<br>(kg) |
|--------------|----------------|-------------|--|-----------|----------------------------------|------------------------------|--------------------|
| Handy CORE   | K14001-1       | 230/1/50/60 | 70A/17,5V/20%                              | 16A       | 45-80 A                          | 345 x 220 x 455              | 16                 |
| Handy MIG    | K14000-1       |             |  |           | 1.3 - 17.7 m/min<br>Max. OCV: 29 |                              |                    |

## Power Mig® 180C

*Premium 230V compact welder*

Whether you are a farmer or a fabricator, an autobody shop or a backyard mechanic, the Power MIG® 180C helps you get the job done! It is a portable wire welder designed for use with industrial 230 volt input power, so you can weld on thicker material—up to 4,8mm with MIG welding and 12.7mm with gas-less flux-cored welding.

Lincoln® Diamond Core Technology™ and the rugged industrial drive system will make it easy to get great results on steel, stainless or aluminium. Compare performance, features and price. . . you will settle on Power MIG®.

- **Designed for 0.6-0.8mm solid MIG wire** and 0.9mm flux-cored wire Innershield®.
- **For welding 0.6-8mm** mild steel plate, stainless steel and 1mm aluminium wire.
- **Connects to 230V**, 16 amp outlet.
- **Stepless control voltage** for precise adjustments.
- **Built-in “burnback” function** insures proper wire stickout after each weld with no sticking in the weld puddle.
- **Large, easy-to-set knobs** provide voltage control and full range continuous wire feed speed control.
- **Meet IEC974-1, ROHS and CE** standards for safety and reliability.

### Processes

MIG, Flux-Cored (Innershield®)

### Output



### Input



### Base Unit Includes

Gun, Input cable, Guide tubes and drive roll (0.6mm-0.9mm), wire spool 0,6mm 0,9 Innershield® NR®-211-MP self-shielded flux-cored wire, work clamp and cable

### Order

K2661-1 Power MIG® 180C



| Product Name    | Product Number | Input Power | Rated Output<br>Current/Voltage/Duty<br>Cycle | Fuse size | Output<br>Range                           | Dimensions<br>H x W x D (mm) | Net Weight<br>(Kg) |
|-----------------|----------------|-------------|---|-----------|---|------------------------------|--------------------|
| Power MIG® 180C | K2661-1        | 230/1/50-60 | 130A/20V/25%                                  | 16A       | 30-180A<br>1,3-12,7m/min<br>Max. OCV: 34V | 357 x 258 x 472              | 30                 |

## Powertec® 161C, 191C, 231C, 271C

### The Professional's Choice

Powertec® 161C, 191C, 231C and 271C are all designed to provide a range of machines with a variety of welding outputs suitable for operating from a single-phase mains supply.

The Powertec® range begins with the 161C, which is ideal for the welding of thin sheet metal applications and repair and maintenance works. This machine has excellent arc and starting characteristics allowing you to complete your welding project efficiently, quickly and professionally with minimal spatter levels. It is a perfect tool for small workshop, car body repair or for the farm.

The Powertec® 191C and 231C have the power required for light construction applications, yet still offer the flexibility to weld thin material like the Powertec® 161C. The Powertec® 271C truly is the multi-purpose model in this range, ideal for both welding thin material and also light to medium construction work.

- **Superior arc behaviour** with premium starting performance and arc stability .
- **Excellent control**, with Burnback control, Spot welding function, 2/4 stroke feature (except PT161C) and additional voltage settings
- **Optional volt and ammeter** (except PT161C).
- **Easy to change** polarity.
- **Professional** wire feeding system.
- **Equipped with** Euroconnector and ground cable assembly.
- **Meet IEC974-1, -10 , ROHS and CE** standards for safety and reliability.

#### Processes

MIG, Flux-Cored (Innershield®)

#### Output



#### Input



#### Order

|          |                |
|----------|----------------|
| K14040-2 | Powertec® 161C |
| K14045-1 | Powertec® 191C |
| K14046-1 | Powertec® 231C |
| K14047-1 | Powertec® 271C |



| Product Name   | Product Number | Input Power | Rated Output Current/Voltage/Duty Cycle | Fuse size | Output Range                            | Dimensions H x W x D (mm) | Net Weight (kg) |
|----------------|----------------|-------------|---|-----------|---|---------------------------|-----------------|
| Powertec® 161C | K14040-2       | 230/1/50-60 | 150A/21,5V/20%                          | 16A       | 30-150A<br>1,0-17m/min<br>Max. OCV: 37V | 615x390x825               | 53              |
| Powertec® 191C | K14045-1       | 230/1/50-60 | 180A/23,0V/20%                          | 20A       | 30-180A<br>1,0-20m/min<br>Max. OCV: 42V | 765x427x850               | 70              |
| Powertec® 231C | K14046-1       | 230/1/50-60 | 220A/25,0V/20%                          | 25A       | 35-220A<br>1,0-20m/min<br>Max. OCV: 45V | 765x427x850               | 80              |
| Powertec® 271C | K14047-1       | 230/1/50-60 | 255A/26,8V/20%                          | 32A       | 35-255A<br>1,0-20m/min<br>Max. OCV: 47V | 765x427x850               | 83              |

## Powertec® 205C, 255C, 305C

*Powerful compact excellent economics*

The design of the Powertec® 205C, 255C and 305C was driven by the need to meet our customers' demand for robust and rugged compact MIG welders.

The Powertec® range begins with the 205C, which is the ideal machine for the welding of thin sheet metal applications. With excellent arc and starting characteristics, this machine allows you to complete your welding project efficiently, quickly and professionally with minimal spatter levels. The Powertec® 255C is a more powerful version, still offering the facilities to weld thin material but also the extra power required for light construction work. The Powertec® 305C has been built as the true multi-purpose model, ideal for both thin sheet applications and light to medium construction work.

The Powertec® 305C is also available in 4-roll version.

- **Products developed with** a focus on applications.
- **Excellent starting** performance.
- **Voltage selectors with multiple steps** for precise adjustment.
- **Excellent drive system** with large diameter drive roll.
- **Electronic feedback system** on the wire drive will guarantee consistent wire feed speed.
- **Equipped with large diameter wheels**, push/pull bar and lifting eyes for full maneuverability.
- **Available in 4-roll version** (PT305C only).
- **Optional A/V meter kit** and polarity change kit.
- **Meet IEC974-1, ROHS and CE** standards for safety and reliability.

### Processes

MIG, Flux-Cored

### Output



### Input



### Base Unit Includes

4m-primary cable, Work clamp and cable assembly, Drive rolls, Gas hose

### Order

|          |                   |          |
|----------|-------------------|----------|
| K14054-1 | Powertec® 205C    | 400V     |
| K14054-2 | Powertec® 205C    | 230/400V |
| K14055-1 | Powertec® 255C    | 400V     |
| K14055-2 | Powertec® 255C    | 230/400V |
| K14056-1 | Powertec® 305C    | 400V     |
| K14056-2 | Powertec® 305C    | 230/400V |
| K14056-3 | Powertec® 305C 4R | 400V     |
| K14056-4 | Powertec® 305C 4R | 230/400V |



| Product Name   | Product Number | Input Power     | Rated Output Current/Voltage/Duty Cycle | Fuse size | Output Range | Dimensions H x W x D (mm) | Net Weight (kg) |
|----------------|----------------|-----------------|---|-----------|--------------|---------------------------|-----------------|
| Powertec® 205C | K14054-1       | 400/3/50-60     | 200A/24V/35%                            | 16A       | 25-200A      | 765x427x850               | 54              |
|                | K14054-2       | 230/400/3/50-60 | 150A/21,5V/60%                          | 25A / 16A |              |                           |                 |
| Powertec® 255C | K14055-1       | 400/3/50-60     | 250A/26,5V/35%                          | 16A       | 25-250A      | 810x467x930               | 94              |
|                | K14055-2       | 230/400/3/50-60 | 190A/23,5V/60%                          | 32A / 16A |              |                           |                 |
| Powertec® 305C | K14056-1 &-3   | 400/3/50-60     | 300A/29V/35%                            | 25A       | 25-300A      | 810x467x930               | 95              |
|                | K14056-2 &-4   | 230/400/3/50-60 | 225A/25,2V/60%                          | 40A / 25A |              |                           |                 |

## Powertec® 305C, 355C, 425C PRO

*Premium arc, synergic style*

The Powertec® Pro's are superior welders in all respects. Each of these machines produce an excellent Arc and very low spatter levels with both Argon mix and 100% CO<sub>2</sub> shielding gas.

The extensive list of features on all Powertec® Pro's includes 2/4-step, run-in, wire inch, gas purge and gas pre-flow. All machines are supplied as standard with digital volt and ammeter to provide welding output. The Powertec® pro's are designed to support the welder at all levels. With synergic control adjusting the wire feed speed automatically, the welder can simply select the welding voltage and go. All three machines are provided with a powerful, rugged four-roll drive system.

- **Products developed with** a focus on applications.
- **Superb Arc behaviour** with Argon Mix and 100% CO<sub>2</sub>.
- **Excellent drive system** with large diameter drive roll and powerful motor.
- **Electronic feedback system** on the wire drive will guarantee consistent wire feed speed.
- **Voltage selectors with multiple steps** for precise adjustment.
- **Synergic control** to support easy control by the welder.
- **Bright digital** Voltage and Amperes meter.
- **Completed with** an extensive set of features.
- **Large diameter wheels**, push/pull bar and lifting eyes for full maneuverability.
- **Meet IEC974-1, ROHS and CE** standards for safety and reliability.

### Processes

MIG, Flux-Cored

### Output



### Input



### Base Unit Includes

4m-primary cable, Work clamp and cable assembly, Drive roll, Gas hose

### Order

K14057-1 Powertec® 305C PRO  
 K14058-1 Powertec® 355C PRO  
 K14059-1A Powertec® 425C PRO



| Product Name       | Product Number | Input Power     | Rated Output Current/Voltage/Duty Cycle | Fuse size | Output Range | Dimensions H x W x D (mm) | Net Weight (kg) |
|--------------------|----------------|-----------------|---|-----------|--------------|---------------------------|-----------------|
| Powertec® 305C PRO | K14057-1       | 230/400/3/50-60 | 280A/28V/40%<br>230A/25.5V/60%          | 32A / 20A | 30-280A      | 890x565x1060              | 145             |
| Powertec® 355C PRO | K14058-1       |                 | 350A/31.5V/40%<br>285A/28.2V/60%        | 40A / 25A | 30-350A      | 890x565x1060              | 147             |
| Powertec® 425C PRO | K14059-1A      |                 | 420A/35V/40%<br>345A/31.3V/60%          | 63A / 32A | 30-420A      | 890x565x1060              | 162             |

# MIG

## INDUSTRIAL WELDERS



|                         | MODEL                   | OUTPUT |          | INPUT                | PROCESS        |     | FEATURES   |             |                  |
|-------------------------|-------------------------|--------|----------|----------------------|----------------|-----|------------|-------------|------------------|
|                         |                         | Mode   | Polarity | Current Range (Amps) | Voltage (V)    | MIG | Flux-Cored | Nb of steps | Warranty (years) |
| Conventional technology | <b>Powertec® 305S</b>   | CV     | DC       | <b>30-300</b>        | <b>230/400</b> | ●   | ◐          | 20          | 3                |
|                         | <b>Powertec® 365S</b>   | CV     | DC       | <b>30-360</b>        | <b>230/400</b> | ●   | ◐          | 30          | 3                |
|                         | <b>Powertec® 425S</b>   | CV     | DC       | <b>30-420</b>        | <b>230/400</b> | ●   | ◐          | 30          | 3                |
|                         | <b>Powertec® 505S</b>   | CV     | DC       | <b>30-500</b>        | <b>230/400</b> | ●   | ◐          | 30          | 3                |
|                         | <b>Idealarc® CV 420</b> | CV     | DC       | <b>30-420</b>        | <b>230/400</b> | ●   | ●          | 30          | 3                |
|                         | <b>Idealarc® CV 505</b> | CV     | DC       | <b>40-500</b>        | <b>230/400</b> | ●   | ●          | 30          | 3                |
| Inverter technology     | <b>Speedtec® 400S</b>   | CC/CV  | DC       | <b>40-400</b>        | <b>400</b>     | ●   | ●          | -           | 3                |
|                         | <b>Speedtec® 500S</b>   | CC/CV  | DC       | <b>40-500</b>        | <b>400</b>     | ●   | ●          | -           | 3                |

KEY: ● Excellent ◐ Good ● Optional

## Powertec® 305S / LF-22M

*Powerful potential, Technical triumph*

Operating from a three phase supply, the POWERTEC® 305S is a constant DC power source rated at 300 amps and 35% duty cycle. The POWERTEC® 305S power source and LF-22M wire feeder package is ideal for Semi-automatic MIG/MAG welding of steel, stainless steel and aluminium.

It is mounted on a built-in, wheeled undercarriage, tow bar and caster rolls, with a platform for the gas cylinder.

- **Products developed with** a focus on applications.
- **Superb Arc behaviour** with Argon Mix.
- **Electronic feedback system** on the wire drive will guarantee consistent wire feed speed.
- **Voltage selectors with multiple steps** for precise adjustment.
- **Optional bright digital** volt and ammeter.
- **Completed with** an extensive set of features.
- **Large diameter wheels**, push/pull bar and lifting eyes for full maneuverability.
- **Trigger mode** for 2/4-step.
- **Fully featured** : Gas purge, cold feed, burnback, spot welding.
- **Meet IEC974-1, ROHS and CE** standards for safety and reliability.

### Processes

MIG, Flux-Cored

### Output



### Input



### Recommended package includes

- LF-22M wire feeder 2-roll air cooled on undercarriage, 0,8-1,0mm drive roll
- Powertec® 305S power source on undercarriage, Input cable, Work clamp and cable assembly
- 5m-Interconnection cable, MIG gun and gas regulator



| Product Name   | Product Number | Input Power     | Rated Output Current/Voltage/Duty Cycle | Fuse size | Output Range | Dimensions H x W x D (mm) | Net Weight (kg) |
|----------------|----------------|-----------------|---|-----------|--------------|---------------------------|-----------------|
| POWERTEC® 305S | K14060-1       | 230/400/3/50-60 | 300A/29V/35%<br>225A/25,2V/60%          | 40A / 25A | 30-300A      | 770 x 467 x 930           | 94              |

| Product Name | Product Number | Input Power | Wire Feed Speed Range (m/min) | Wire Size Range (mm) |           | Dimensions H x W x D (mm) | Net Weight (kg) |
|--------------|----------------|-------------|-------------------------------|----------------------|-----------|---------------------------|-----------------|
|              |                |             |                               | Solid                | Cored     |                           |                 |
| LF-22M - air | K14064-1       | 34-44 VAC   | 1 - 20                        | 0,8 - 1,6            | 1,0 - 1,6 | 440 x 275 x 636           | 15              |

## Powertec® 365S / LF-24M

*Powerful potential, Technical triumph*

Operating from a three phase supply, the POWERTEC® 365S is a constant DC power source rated at 350 amps and 40% duty cycle. The POWERTEC® 365S power source and LF-24M wire feeder package is ideal for industrial semi-automatic MIG/MAG welding of steel, stainless steel and aluminium and for gas shielded flux cored welding.

The POWERTEC® 365S is equipped with a built-in wheeled undercarriage, tow bar, 5m power cable and a 3m work lead with clamp.

This machine is available as either air or water cooled packages.

- **Products developed with** a focus on applications.
- **Superb Arc behaviour** with Argon Mix and 100% CO<sub>2</sub>.
- **Electronic feedback system** on the wire drive will guarantee consistent wire feed speed.
- **Voltage selectors with multiple steps** for precise adjustment.
- **Two choke tabs** to support superb Arc behaviour
- **Fan on demand** (F.A.N.™)
- **Bright digital** volt and ammeter
- **Completed with** an extensive set of features.
- **Large diameter wheels**, push/pull bar and lifting eyes.
- **Trigger mode** for 2/4-step.
- **Fully featured** : Gas purge, cold feed, burnback, run in and spot welding.
- **Meet IEC974-1, ROHS and CE** standards for safety and reliability.

### Processes

MIG, Flux-Cored

### Output



### Input



### Recommended package includes

- LF-24M wire feeder 4-roll, 1,0-1,2mm drive roll
- Powertec® 365S power source on undercarriage, Input cable, Work clamp and cable assembly (+ COOL ARC® 25 for water cooled version)
- 5m-Interconnection cable, MIG gun and gas regulator



| Product Name   | Product Number | Input Power         | Rated Output Current/Voltage/Duty Cycle | Fuse size  | Output Range | Dimensions H x W x D (mm) | Net Weight (kg) |
|----------------|----------------|---------------------|---|------------|--------------|---------------------------|-----------------|
| POWERTEC® 365S | K14061-1A      | 230/400/3/50/60     | 350A/31,5V/40%                          | 40A / 25 A | 30-350A      | 875 x 700 x 1035          | 141             |
|                | K14061-2A      | 220/330/440/3/50/60 | 285A/28,2V/60%                          |            |              |                           |                 |

| Product Name         | Product Number | Input Power | Wire Feed Speed Range (m/min) | Wire Size Range (mm) |           | Dimensions H x W x D (mm) | Net Weight (kg) |
|----------------------|----------------|-------------|-------------------------------|----------------------|-----------|---------------------------|-----------------|
|                      |                |             |                               | Solid                | Cored     |                           |                 |
| LF-24M air/water     | K14065-1W      | 34-44 VAC   | 1 - 20                        | 0,8 - 1,6            | 1,0 - 1,6 | 440 x 275 x 636           | 17              |
| LF-24M PRO air/water |                |             |                               |                      |           |                           |                 |

## Powertec® 425S / LF-24M

*Powerful potential, Technical triumph*

Operating from a three phase supply, the POWERTEC® 425S is a constant DC power source rated at 420 amps and 40% duty cycle. The POWERTEC® 425S power source and LF-24M wire feeder package is ideal for heavy duty semi-automatic MIG/MAG welding of steel, stainless steel and aluminium and for gas shielded flux cored welding.

The POWERTEC® 425S is equipped with a built-in wheeled undercarriage, tow bar, 5m power cable and a 3m work lead with clamp.

This machine is available as either air or water cooled packages.

- **Products developed with** a focus on applications.
- **Superb Arc behaviour** with Argon Mix and 100% CO<sub>2</sub>.
- **Electronic feedback system** on the wire drive will guarantee consistent wire feed speed.
- **Voltage selectors with multiple steps** for precise adjustment.
- **Two choke tabs** to support superb Arc behaviour
- **Fan on demand** (F.A.N.™)
- **Bright digital** volt and ammeter.
- **Completed with** an extensive set of features.
- **Large diameter wheels**, push/pull bar and lifting eyes.
- **Trigger mode** for 2/4-step.
- **Fully featured** : Gas purge, cold feed, burnback, run in and spot welding.
- **Meet IEC974-1, ROHS and CE** standards for safety and reliability.

### Processes

MIG, Flux-Cored

### Output



### Input



### Recommended package includes

- LF-24M wire feeder 4-roll, 1,0-1,2mm drive roll
- Powertec® 425S power source on undercarriage, Input cable, Work clamp and cable assembly (+ COOL ARC® 25 for water cooled version)
- 5m-Interconnection cable, MIG gun and gas regulator



| Product Name      | Product Number | Input Power         | Rated Output<br>Current/Voltage/Duty<br>Cycle | Fuse size                    | Output<br>Range | Dimensions<br>H x W x D (mm) | Net Weight<br>(kg) |
|-------------------|----------------|---------------------|---|------------------------------|-----------------|------------------------------|--------------------|
| POWERTEC®<br>425S | K14062-1A      | 230/400/3/50/60     | 420A/35V/40%                                  | 63A / 32 A<br>345A/31,3V/60% | 30-420A         | 875 x 700 x 1035             | 151                |
|                   | K14062-2A      | 220/380/440/3/50/60 |   |                              |                 |                              |                    |

| Product Name         | Product Number | Input Power | Wire Feed Speed<br>Range (m/min) | Wire Size Range (mm) |           | Dimensions<br>H x W x D (mm) | Net Weight<br>(kg) |
|----------------------|----------------|-------------|----------------------------------|----------------------|-----------|------------------------------|--------------------|
|                      |                |             |                                  | Solid                | Cored     |                              |                    |
| LF-24M air/water     | K14065-1W      | 34-44 VAC   | 1 - 20                           | 0,8 - 1,6            | 1,0 - 1,6 | 440 x 275x 636               | 17                 |
| LF-24M PRO air/water |                |             |                                  |                      |           |                              |                    |

## Powertec® 505S / LF-24M PRO

*Powerful potential, Technical triumph*

Operating from a three phase supply, the POWERTEC® 505S is a constant DC power source rated at 500 amps and 40% duty cycle. The POWERTEC® 505S power source and LF-24M PRO wire feeder package is ideal for heavy duty semi-automatic MIG/MAG welding of steel, stainless steel and aluminium and for gas shielded flux cored welding.

The POWERTEC® 505S is equipped with a built-in wheeled undercarriage, tow bar, 5m power cable and a 3m work lead with clamp.

This machine is available as either air or water cooled packages.

- **Products developed with** a focus on applications.
- **Superb Arc behaviour** with Argon Mix and 100% CO<sub>2</sub>.
- **Electronic feedback system** on the wire drive will guarantee consistent wire feed speed.
- **Voltage selectors with multiple steps** for precise adjustment.
- **Two choke tabs** to support superb Arc behaviour
- **Fan on demand (F.A.N.™)**
- **Synergic control** to support easy control by the welder.
- **Bright digital** volt and ammeter.
- **Completed with** an extensive set of features.
- **Large diameter wheels**, push/pull bar and lifting eyes.
- **Trigger mode** for 2/4-step.
- **Fully featured** : Gas purge, cold feed, burnback, run in, gas pre-flow
- **Meets IEC974-1 and CE standards.**

### Processes

MIG, Flux-Cored

### Output



### Input



### Recommended package includes

- LF-24M PRO wire feeder 4-roll, 1,0-1,2mm drive roll
- Powertec® 505S power source on undercarriage, Input cable, Work clamp and cable assembly (+ COOL ARC® 25 for water cooled version)
- 5m-Interconnection cable, MIG gun and gas regulator



| Product Name   | Product Number | Input Power         | Rated Output Current/Voltage/Duty Cycle | Fuse size | Output Range | Dimensions H x W x D (mm) | Net Weight (kg) |
|----------------|----------------|---------------------|---|-----------|--------------|---------------------------|-----------------|
| POWERTEC® 505S | K14063-1A      | 230/400/3/50/60     | 500A/39V/50%                            | 63A /40 A | 30-500A      | 877 x 700 x 1035          | 157             |
|                | K14063-2A      | 220/380/440/3/50/60 | 400A/34V/60%                            |           |              |                           |                 |

| Product Name         | Product Number | Input Power | Wire Feed Speed Range (m/min) | Wire Size Range (mm) |           | Dimensions H x W x D (mm) | Net Weight (kg) |
|----------------------|----------------|-------------|-------------------------------|----------------------|-----------|---------------------------|-----------------|
|                      |                |             |                               | Solid                | Cored     |                           |                 |
| LF-24M air/water     | K14065-1W      | 34-44 VAC   | 1 - 20                        | 0,8 - 1,6            | 1,0 - 1,6 | 440 x 275 x 636           | 17              |
| LF-24M PRO air/water |                |             |                               |                      |           |                           |                 |

## Inverter<sup>®</sup> V350-PRO / LF-37 or LF-38

*Design smart, Built tough*

The Inverter<sup>®</sup> V350-PRO is a versatile, multi-purpose power source that is light and portable. Smart operation allows it to handle any stick, TIG, and MIG applications.

This CE model has full Amphenol connections and remote control. Its plug-and-play intelligence allows it to automatically adjust to your wire feeder instantly.

Included in the package is the LF-37 or LF-38 portable semi-automatic wire feeder providing MIG and Flux Cored support. The LF-37 features presetting, 2/4 steps, crater, and hot/soft start, ideal for on site applications. The LF-38 adds synergic programs and memory.

- **Excellent welding behaviour** on CV MIG and Stick Welding.
- **Continuous control** choke
- **Tough durable case** with roll bars and skid
- **Bright, large** digital meters.
- **Control panel** is simple in design and easy to operate
- **Its plug and play intelligence** allows it to automatically adjust to your wire feeder instantly.
- **Synergic capability** and memory (with LF-38)
- **Digital display** for Wire feed speed and Voltage
- **Adjustable** Pre and Post flow.
- **Perfect** feeding
- **Meet IEC974-1, ROHS and CE** standards for safety and reliability.

### Processes

MIG, Flux-Cored, Innershield, Stick, Gouging

### Output



### Input



### Recommended Packages Include

- LF-37 or LF-38 wire feeder, 1,0-1,2mm drive roll
- Inverter<sup>®</sup> V350-PRO Power Source, 3m-input cable
- 5m-Interconnection cable, MIG gun and gas regulator



| Product Name | Product Number | Input Power          | Rated Output Current/Voltage/Duty Cycle  | Output Range              | Dimensions H x W x D (mm) | Net Weight (kg) |
|--------------|----------------|----------------------|--|---------------------------|---------------------------|-----------------|
| V350-PRO     | K1728-12       | 200/220/380/415/440V | 350A/34V/60%-3ph<br>300A/32V/100%-3ph<br>320A/33V/60%-1ph<br>275A/31V/100%-1ph | 5-425A<br>Max OCV: 80V DC | 376 x 338 x 709           | 38              |

| Product Name | Product Number | Input Power | Wire Feed Speed Range (m/min) | Wire Size Range (mm) |           | Dimensions H x W x D (mm) | Net Weight (kg) |
|--------------|----------------|-------------|-------------------------------|----------------------|-----------|---------------------------|-----------------|
|              |                |             |                               | Solid                | Cored     |                           |                 |
| LF-37        | K10406         | 42 VAC      | 1,5 - 20                      | 0,8 - 1,6            | 1,0 - 1,6 | 753 x 470 x 295           | 16              |
| LF-38        | K10407         |             |                               |                      |           |                           |                 |

## Idealarc® CV-420 & CV-505 / LF-33

*High output reliable workhorses*

The Idealarc® CV420 and CV505 are industrial power sources for heavy-duty applications. Both power sources are designed to operate in heavy environmental conditions including ship and offshore yards. The machines meet IP23 allowing operation in adverse conditions. All the sensitive components are enclosed in a compartment free from dust and separated from the airflow needed to cool the machine.

With the LF-33 wire feeder, we focussed on ruggedness, dimensions and ease of use. The result is an incredibly rugged, protective casing with the primary controls on the outside. The secondary controls are securely enclosed within the protective casing close to the wire drive. The feeders come as standard with an undercarriage, for use under tough industrial conditions.

- **Two reliable workhorses** with a high duty cycle to support your application
- **Potted and Encapsulated Printed Circuit Board** controls in separate dust free compartment.
- **Water and Air** cooled versions available.
- **Superb Arc behaviour** with Argon Mix and 100% CO<sub>2</sub>.
- **Continuous control** of wire feed Speed and voltage
- **Trigger mode** for 2/4-step.
- **Well featured;** the LF 33 features 2/4 stoke, burnback, gas purge, cold inch, run in.
- **Bright digital** Voltage and Amperes meter.
- **Meet IEC974-1, ROHS and CE** standards for safety and reliability.

### Processes

MIG, Flux-Cored

### Output



### Input



### Recommended packages include

- LF-33 wire feeder 4-roll, 1,0-1,2mm drive roll
- CV420 or CV505 power source on undercarriage, Input cable, Work clamp and cable assembly (COOL ARC® 25 for water cooled version)
- 5m-Interconnection cable, MIG gun and gas regulator



| Product Name | Product Number | Input Power         | Rated Output Current/Voltage/Duty Cycle | Fuse size | Output Range             | Dimensions H x W x D (mm) | Net Weight (kg) |
|--------------|----------------|---------------------|---|-----------|--------------------------|---------------------------|-----------------|
| CV420 air    | K14028-2A      | 230/400/3/50/60     | 420A/35V/60%<br>320A/30V/100%           | 32A       | 30-420A<br>Max. OCV: 43V | 870 x 565 x 1030          | 134             |
|              | K14028-3A      | 220/380/440/3/50/60 |   |           |                          |                           |                 |
| CV420 water  | K14028-3W      | 230/400/3/50/60     |   |           |                          | 870 x 700 x 1030          | 155             |
| CV505 air    | K14029-2A      | 230/400/3/50/60     | 500A/40V/60%<br>385A/36,5V/100%         | 48A       | 40-500A<br>Max. OCV: 43V | 870 x 565 x 1030          | 149             |
|              | K14029-3A      | 220/380/440/3/50/60 |   |           |                          |                           |                 |
| CV505 water  | K14029-3W      | 230/400/3/50/60     |   |           |                          | 870 x 700 x 1030          | 170             |

| Product Name     | Product Number | Input Power | Wire Feed Speed Range (m/min) | Wire Size Range (mm) |           | Dimensions H x W x D (mm) | Net Weight (kg) |
|------------------|----------------|-------------|-------------------------------|----------------------|-----------|---------------------------|-----------------|
|                  |                |             |                               | Solid                | Cored     |                           |                 |
| LF-33 air/water  | K14030-1W      | 34-44 VAC   | 1 - 20                        | 0,8 - 1,6            | 1,0 - 1,6 | 440 x 270 x 636           | 17              |
| LF-33S air/water | K14051-1       |             |                               |                      |           | 350 x 195 x 530           | 12              |

## Speedtec® 400S & Speedtec® 500S / LF-45

*High output reliable workhorses*

The Speedtec® 400S & 500S® are powerful Industrial inverter power sources for Premium MIG and Stick welding. Smart operation allow them to handle any Stick, TIG, and MIG applications.

Both sources use Arclink® (digital) communication and will work with any Lincoln Arclink® feeders.

The modular concept will support Air-cooled and Water-cooled set-up using the COOL ARC® 45 water cooler.

The LF45 wire feeder is recommended for this package providing MIG, Flux Cored and Stick support. The LF45 features presetting, 2/4 step, craterfill, Hot/soft start, Job control and remote control on the gun.

- **Premium welding behaviour** on CV MIG & Stick welding
- **Continue** inductance control.
- **Synergic capability.**
- **Job control** with limits secured by a password.
- **Continuous control** of wire feed Speed and voltage
- **Remote control** on the gun (Job, WFS, Trim).
- **Multi procedure &** Pre-setting
- **Meet IEC974-1, ROHS and CE** standards for safety and reliability.

### Processes

MIG, FCAW, Stick and TIG (touch)

### Output



### Input



### Recommended packages include

- LF-45 wire feeder 4-roll, 1,0-1,2mm drive roll
- Speedtec® 400S or 500S power source on undercarriage, Input cable, Work clamp and cable assembly (COOL ARC® 45 for water cooled version)
- 5m-Interconnection cable, MIG gun and gas regulator



| Product Name   | Product Number | Input Power | Rated Output Current/Duty Cycle | Fuse size | Output Range             | Dimensions H x W x D (mm) | Net Weight (kg) |
|----------------|----------------|-------------|---------------------------------|-----------|--------------------------|---------------------------|-----------------|
| Speedtec® 400S | K14053-1       | 400/3/50/60 | 400A/60%                        | 32A       | 30-400A<br>Max. OCV: 43V | 480 x 300 x 610           | 48              |
| Speedtec® 500S | K14052-1       | 400/3/50/60 | 500A/60%                        | 32A       | 30-500A<br>Max. OCV: 43V | 480 x 300 x 610           | 48              |

| Product Name    | Product Number | Input Power | Wire Feed Speed Range (m/min) | Wire Size Range (mm) |           | Dimensions H x W x D (mm) | Net Weight (kg) |
|-----------------|----------------|-------------|-------------------------------|----------------------|-----------|---------------------------|-----------------|
|                 |                |             |                               | Solid                | Cored     |                           |                 |
| LF-45 air/water | K14072-W       | 40 VDC      | 1 - 20                        | 0,8 - 1,6            | 1,0 - 1,6 | 440 x 270 x 636           | 17              |

## Idealarc® DC-400

*DC multi-process welding power source*

This heavy-duty, industrial, three-phase multi-process power source scores big in MIG, flux-cored, submerged arc, stick and DC TIG welding. It's a great choice for arc gouging too. And flexibility doesn't mean complicated – the DC-400 is easy to set-up and use. Changeover between processes is as simple as turning a switch with the factory or field installed multi-process switch. On-board ammeter and voltmeter make monitoring of key welding parameters a snap. Inductance and arc force controls allow the operator to efficiently refine the arc for the job at hand.

- **Standard** ammeter and voltmeter.
- **Solid state circuitry** for long life and repetitive welding applications.
- **Arc control adjustment** changes pinch effect of the arc to control spatter, fluidity, and bead shape in the MIG/Flux-Cored mode.
- **Mode switch** for selecting desired output characteristics.
- **Outstanding welding performance** with a single range full output control potentiometer.
- **Low profile case** allows stacking machines up to three high to conserve floor space.
- **Meet IEC974-1, ROHS and CE** standards for safety and reliability.

### Processes

Stick, TIG, MIG, Flux-Cored, Innershield, Submerged Arc, Gouging

### Output



### Input



### Recommended Wire Feeders

LF-33, LF-37, LF-38, LN-25, LN-23P, NA-3, NA-5, NA-5R

### Order

K1309-17

Idealarc® DC-400



shown with multi-process switch option

| Product Name | Product Number | Input Power     | Rated Output Current/Voltage/Duty Cycle       | Fuse size | Output Range                | Dimensions H x W x D (mm) | Net Weight (kg) |
|--------------|----------------|-----------------|---|-----------|-----------------------------|---------------------------|-----------------|
| DC-400       | K1309-17       | 230/400/3/50-60 | 500A/40V/50%<br>450A/38V/60%<br>400A/36V/100% | 77/45A    | 60-500A<br>12-42V<br>12-42V | 782 x 566 x 840           | 215             |

## INTERCONNECTION CABLES

Fast-mate (x2), gas hose, protection, (2,5 ; 5 ; 10 ; 15 ; 20 ; 25 & 30m)

Item n° :

|                      |                |
|----------------------|----------------|
| <b>K10347-PG-xM</b>  | (air cooled)   |
| <b>K10347-PGW-xM</b> | (water cooled) |
| <b>K10348-PG-xM</b>  | (air cooled)   |
| <b>K10348-PGW-xM</b> | (water cooled) |

## KITS

Item n° :

|                 |  |
|-----------------|--|
| <b>K14049-1</b> | A/V meter kit Powertec C                 |
| <b>K14073-1</b> | A/V meter kit LF22m                      |
| <b>K14071-1</b> | Kit grill Powertec C PRO                 |
| <b>K14071-2</b> | Kit grill Powertec S                     |
| <b>K14076-1</b> | Kit Polarity change Powertec C PRO       |
| <b>K14077-1</b> | Kit Polarity change Powertec 255C & 305C |

## GAS PRESSURE REGULATOR

Accommodates CO<sub>2</sub>, argon or argon-blended gas cylinders. Includes a cylinder pressure gauge, dual scale flow gauge and 1,3m gas hose

Item n° : consult us

## WATER COOLERS

### COOL ARC® 25

Item n° : **K14037-1**

### COOL ARC® 40

for use with V350PRO & DC400

Item n° : **K2187-2**

### COOL ARC® 45

for use with Speedtec 400S & 500S

Item n° : **K14067-1**

### COOLANT ACOROX (2X5L)

Item n° : **K10420-1**

## MIG TORCHES

### LINC GUN™ RANGE

As standard these guns come with an ergonomic grip, springs on both sides of the cable, retractable pins and a "rotating ball joint" at the end of the gun grip

#### AIR COOLED

|                                       |              |
|---------------------------------------|--------------|
| LG 140D, 140A @ 60%                   |              |
| <b>K10413-14D</b>                     | 2.5m         |
| LG 150GD, 150A @ 60%, right connector |              |
| <b>K10413-15GD</b>                    | 3m           |
| LG 150G, 150A @ 60%                   |              |
| <b>K10413-15-xM</b>                   | 3m, 4m or 5m |
| LG 250G, 200A @ 60%                   |              |
| <b>K10413-25-xM</b>                   | 3m, 4m or 5m |
| LG 240G, 220A @ 60%                   |              |
| <b>K10413-24-xM</b>                   | 3m, 4m or 5m |
| LG 260G, 260A @ 60%                   |              |
| <b>K10413-26-xM</b>                   | 3m, 4m or 5m |
| LG 360G, 320A @ 60%                   |              |
| <b>K10413-36-xM</b>                   | 3m, 4m or 5m |
| LG420G, 380A @ 60%                    |              |
| <b>K10413-42-xM</b>                   | 3m, 4m or 5m |

#### WATER COOLED

|                        |              |
|------------------------|--------------|
| LG410W, 350A @ 100%    |              |
| <b>K10413-410-xM</b>   | 3m, 4m or 5m |
| LG500W, 500A @ 100%    |              |
| <b>K10413-500-xM</b>   | 3m, 4m or 5m |
| LG505WC, 500A @ 100%   |              |
| <b>K10413-505WC-4M</b> | 4m           |

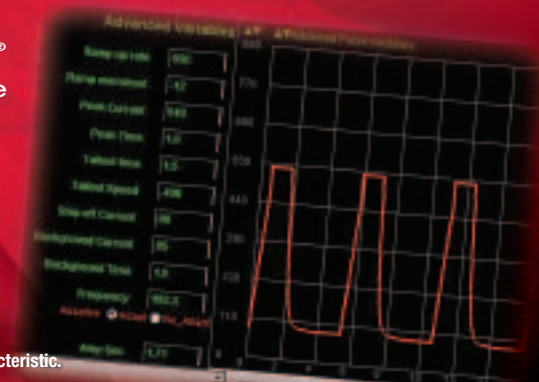
# Advanced Process

## WELDERS

- A Wide Variety of Welding Waveforms for Every Application
- Fast, Reliable Digital Communication
- Expand or Update With Lincoln's Latest Welding Processes
- Multi-Process Welding On A Variety Of Materials

### Waveform Control Technology®

- Superior Welding Performance
- Welding Characteristics To Fit Your Needs
- Weld Steel, Stainless Steel, Aluminium and Alloy Materials With Ease



Computer screen showing waveform arc characteristic.

| MODEL                          | OUTPUT       |          | CURRENT RANGE (Amps) | PROCESS |                 |     |           |            | FEATURES    |                              |                        |                 |             |            |            |
|--------------------------------|--------------|----------|----------------------|---------|-----------------|-----|-----------|------------|-------------|------------------------------|------------------------|-----------------|-------------|------------|------------|
|                                | Mode         | Polarity |                      | Stick   | TIG touch start | MIG | MIG Pulse | Flux-Cored | Arc gouging | Waveform Control technology® | Digital communications | Pulse-on-Pulse® | Power mode® | Rapid arc® | Tandem MIG |
| <b>STT® II</b>                 | STT          | DC       | 5-225                |         |                 | ●   |           |            |             | ●                            |                        |                 |             |            | 3          |
| <b>Power Wave® C300</b>        | CC/CV        | DC       | 5-350                | ●       | ●               | ●   | ●         | ●          |             | ●                            | ●                      | ●               | ●           | ●          | 3          |
| <b>Power Wave® S350</b>        | CC/CV        | DC       | 5-350                | ●       | ●               | ●   | ●         | ●          |             | ●                            | ●                      | ●               | ●           | ●          | 3          |
| <b>Power Wave® 405M</b>        | CC/CV        | DC       | 5-425                | ●       | ●               | ●   | ●         | ●          | ●           | ●                            | ●                      | ●               | ●           | ●          | 3          |
| <b>Power Wave® 455M/(STT)®</b> | CC/CV<br>STT | DC       | 5-500                | ●       | ●               | ●   | ●         | ●          | ●           | ●                            | ●                      | ●               | ●           | ●          | 3          |

KEY: ● Excellent ● Good ● Optional

# Invertec® STT® II / LF-33

Featuring Surface Tension Transfer® process



The revolutionary STT® II power source combines high frequency inverter technology with advanced Waveform Control Technology® to provide a better welding solution than traditional short arc MIG.

**Processes**

MIG-STT®

**Output**



**Input**



**Recommended Package Includes**

- LF-33 wire feeder 4-roll air-cooled, 1,0-1,2mm drive roll
- STT® II power Source on undercarriage, Input cable, Work clamp and cable assembly
- 5m-Interconnection cable, MIG gun and gas regulator

**Recommended wire feeders**

LF-37



- **Controlled penetration and outstanding heat input control**—Ideal for welding joints with open root, gaps, or on thin material with no burnthrough.
- **Reduced spatter and fumes**—Current is controlled to achieve optimal metal transfer.
- **Various shielding gases**—blends of Argon including Helium or 100% CO2 with larger diameter wires.
- **Good bead control and faster travel speeds**—Can replace TIG in many applications.
- **Background and Tailout Current**—accurately control fine and coarse heat input for reduced distortion and burnthrough as well as proper penetration.
- **Adjustable Hot Start** controls the heat at the start of the weld.
- **Continuous control** of wire feed speed and voltage
- **Trigger mode** for 2/4-step.
- **Well featured**; the LF 33 features 2/4 stoke, burnback, gas purge, cold inch, run in.
- **Bright digital** Voltage and Amperes meter.
- **Meet IEC974-1, ROHS and CE** standards for safety and reliability.



| Product Name   | Product Number       | Input Power                 | Rated Output Current/Voltage/Duty Cycle | Fuse size | Output Range                        | Dimensions H x W x D (mm)            | Net Weight (kg) |
|----------------|----------------------|-----------------------------|---|-----------|-------------------------------------|--------------------------------------|-----------------|
| STT II Package | K1527-1<br>PSTT2-1-A | 200/220/380/400/440/3/50-60 | 225A/29V/60%<br>200A/28V/100%           | 17A       | 5-450A(peak)<br>5-125A (background) | 589 x 336 x 620<br>1000 x 700 x 1000 | 59<br>115       |

| Product Name    | Product Number | Input Power | Wire Feed Speed Range (m/min) | Wire Size Range (mm) |           | Dimensions H x W x D (mm) | Net Weight (kg) |
|-----------------|----------------|-------------|-------------------------------|----------------------|-----------|---------------------------|-----------------|
|                 |                |             |                               | Solid                | Cored     |                           |                 |
| LF-33 air/water | K14030-1W      | 34-44 VAC   | 1 - 20                        | 0,8 - 1,6            | 1,0 - 1,6 | 440 x 270 x 636           | 17              |

# Power Wave® C300

*Pulsed perfection Portable Flexibility*



The Power Wave® C300 is a robust small Industrial Compact Pulse welding machine with an extended set of features. As standard the machine is supplied with a full set of CV and Pulse programs.

On top of that advanced welding programs like Power Mode® and Rapid Arc® are included.

The C300 is a user-friendly machine with a clean and easy to understand user interface and an extensive set of features. Job control and remote control on the gun are supported.

Like all new Power Waves the machine is equipped with an Ethernet connector.

Free Lincoln software like Production Monitoring is available to work with the C300. Lincoln Electric is supplying free software updates including weldmodes through powerwavesoftware.com

### Processes

Pulse MIG, Pulse-On-Pulse®, MIG, Flux-Cored, Stick, Lift TIG DC

### Output



### Input



### Order

K2676-1

Power Wave® C300



- **Superb arc welding characteristics** in Pulse, Pulse on-Pulse®, CV, Stick and TIG DC.
- **As standard a variety materials are supported;** Steel, Stainless, Aluminium but also High Nickel and CuSi.
- **RapidArc®** for a higher travel speed and less Heat Input with steel and Stainless.
- **PowerMode®** for premium Short Arc welding Steel and Stainless especially with thin plate.
- **S2F** for premium Aluminium welding
- **Clearing Pulse** providing a clean wire tip without a ball, ready to restart.
- **Job control** to store your settings and quick recall. Limits and access through a pass word are standard supported.
- **Remote on the gun** by use of a cross switch allows you to switch to another job of decrease or increase WFS during welding.
- **Water Cooled** version by use of the COOL ARC® 50 water cooler.
- **Meet IEC974-1, ROHS and CE** standards for safety and reliability.



| Product Name | Product Number | Input Power         | Rated Output Current/Duty Cycle | Fuse size | Output Range | Dimensions H x W x D (mm) | Net Weight (kg) |
|--------------|----------------|---------------------|---------------------------------|-----------|--------------|---------------------------|-----------------|
| PW C300      | K2676-1        | 230/400/460/3/50-60 | 300A/40%                        | 35/20A    | 5-300A       | 518 x 356 x 609           | 41.4            |

# Power Wave® S350

*Pulsed perfection, Modular flexibility*



The Power Wave® S350 is a robust Pulse welding machine following the new modular concept.

The unit can be completed with different Arclink Wire feeders like the LF45 and PF10(D) and changed to a water cooled package by adding the COOL ARC® 50.

Part of the modular concept is the new STT module which is transferring the package into a professional STT machine.

As standard the machine is supplied with a full set of CV and Pulse programs. On top of it advanced welding programs like Power Mode® and Rapid Arc® are included.

Like all new Power Waves, the S350 CE is equipped with an Ethernet connector.

Free Lincoln software like Production Monitoring are available to work with the S350. Lincoln Electric is supplying free software updates including weldmodes through [powerwavesoftware.com](http://powerwavesoftware.com)

**Processes**

Pulse MIG, Pulse-On-Pulse®, MIG, Flux-Cored, Stick, Lift TIG DC

**Output**



**Input**



**Order**

K2823-2

Power Wave® S350



**THE LINCOLN ELECTRIC GREEN INITIATIVE**  
 Inverter Technology  
 reduces energy demand  
[www.lincolnelectric.com/green](http://www.lincolnelectric.com/green)

- **Superb arc welding characteristics** in Pulse, Pulse on-Pulse®, CV, Stick and TIG DC.
- **As standard a variety materials are supported;** Steel, Stainless, Aluminium but also High Nickel and CuSi.
- **RapidArc®** for a higher travel speed and less Heat Input with steel and Stainless.
- **PowerMode®** for premium Short Arc welding Steel and Stainless especially with thin plate.
- **S2F** for premium Aluminium welding
- **Clearing Pulse** providing a clean wire tip without a ball, ready to restart.
- **STT module** available transferring the machine in an STT/Pulse welding machine.
- **Water Cooled** version by use of the COOL ARC® 50 water cooler.
- **Meet IEC974-1, ROHS and CE** standards for safety and reliability.



| Product Name | Product Number | Input Power         | Rated Output Current/Duty Cycle | Fuse size | Output Range | Dimensions H x W x D (mm) | Net Weight (kg) |
|--------------|----------------|---------------------|---------------------------------|-----------|--------------|---------------------------|-----------------|
| PW S350      | K2823-2        | 230/400/460/3/50-60 | 350A/40%                        | 45/25A    | 5-350A       | 518 x 356 x 609           | 38.6            |

# Power Wave® 405M



*Superior arc performance, revolutionary communication*

The Power Wave® 405M features some of Lincoln's best performance technologies and processes all rolled into one highly efficient inverter power source designed for high-end semiautomatic welding.

- **Lincoln's® Waveform Control Technology®** gives you the ability to select the right waveform for each application, enabling patented processes like Pulse-On-Pulse® and Power Mode®.
- **Double Pulse** supports thin plate Aluminium welding and high arc stability at low Amps.
- **Fan as needed™** to reduce noise and power consumption.
- **State-of-the-art inverter technology** provides high power efficiency, excellent welding performance and a lightweight, compact design.
- **Excellent arc starting.**
- **Water flow sensing** (water cooled package).
- **Meet IEC974-1, ROHS and CE** standards for safety and reliability.

### Processes

Pulse MIG, Pulse-On-Pulse®, MIG, Flux-Cored, Stick, Lift TIG DC

### Output



### Input



### Order

K10272-2-A Power Wave® 405M air cooled  
 K10272-2-W Power Wave® 405M water cooled



| Product Name | Product Number | Input Power           | Rated Output Current/Voltage/Duty Cycle | Fuse size | Output Range | Dimensions H x W x D (mm) | Net Weight (kg) |
|--------------|----------------|-----------------------|---|-----------|--------------|---------------------------|-----------------|
| PW405M air   | K10372-2-A     | 230/380/415/440/1/3ph | 400A/36V/ 35%                           | 25A       | 5-425A       | 700 x 700 x 1000          | 53              |
| PW405M water | K10372-2-W     |                       | 350A/34V/60%                            |           | 10-45V       |                           | 71              |

# Power Wave® 455M & 455M/STT



Superior arc performance, revolutionary communication

For welding thicker materials in robotics, hard automation and semiautomatic applications, choose the Power Wave® 455M. For those applications where heat input control, minimal distortion, and reduced spatter are essential, opt for the Power Wave® 455M/STT. Both models feature Waveform Control Technology™ for superior arc performance on a variety of materials, including steel, stainless steel, aluminum and nickel alloys. Both deliver custom control of the arc for a given wire type, size and shielding gas configuration for consistent welds time after time.

- **Lincoln's® Waveform Control Technology®** gives you the ability to select the right waveform for each application, enabling patented processes like Pulse-On-Pulse® and Power Mode®.
- **Choose from over 60 standard welding waveform programs** that offer a broad range of electrode size, type and shielding gas combinations to give you optimal appearance, penetration, beadshape and travel speed for each application.
- **Optional communication modules** provide networking and process monitoring capabilities via DeviceNet or Ethernet.
- **STT welding mode.**
- **Dual-head** for more versatility.
- **Split wire guide** system.
- **Powerful wire drive motor** for large wire diameters and high speeds.
- **Meet IEC974-1, ROHS and CE standards** for safety and reliability.

## Processes

Pulsed MIG, Pulse-On-Pulse®, MIG, MIG-STT, Flux-Cored, Stick, TIG, Gouging

## Output



## Input



## Order

K2458-2  
K2459-2

Power Wave® 455M  
Power Wave® 455M STT®



| Product Name | Product Number | Input Power     | Rated Output Current/Voltage/Duty Cycle              | Fuse size | Output Range           | Dimensions H x W x D (mm) | Net Weight (kg) |
|--------------|----------------|-----------------|--|-----------|------------------------|---------------------------|-----------------|
| PW 455M      | K2458-2        | 380/415/3/50/60 | 500A/40V/60%<br>400A/36V/100%                        | 44A       | 5-500A<br>Max. OCV:75V | 663 x 505 x 835           | 114             |
| PW 455M/STT  | K2459-2        | 380/415/3/50/60 | 500A/40V/60%<br>400A/36V/100%<br>STT : 325A/33V/100X | 48A       | 5-500A<br>Max. OCV:75V | 663 x 505 x 835           | 121             |



## INTERCONNECTION CABLES

Fast-mate (x2), gas hose, protection, (2,5 ; 5 ; 10 ; 15 ; 20 ; 25 & 30m)

Item n° :

**K10347-PG-xM** (air cooled)  
**K10347-PGW-xM** (water cooled)



## GAS PRESSURE REGULATOR

Accommodates CO<sub>2</sub>, argon or argon-blended gas cylinders. Includes a cylinder pressure gauge, dual scale flow gauge and 1,3m gas hose

Item n° : consult us

## WATER COOLERS

### COOL ARC° 25

Item n° : **K14037-1**



### COOL ARC° 40

Item n° : **K2187-2**

### COOL ARC° 50

Item n° : **K14050-1**



### COOLANT ACOROX (2X5L)

Item n° : **K10420-1**

## MIG TORCHES

### LINC GUN™ RANGE

As standard these guns come with an ergonomic grip, springs on both sides of the cable, retractable pins and a "rotating ball joint" at the end of the gun grip



#### AIR COOLED

LG 150G, 150A @ 60%  
**K10413-15-xM** 3m, 4m or 5m

LG 250G, 200A @ 60%  
**K10413-25-xM** 3m, 4m or 5m

LG 240G, 220A @ 60%  
**K10413-24-xM** 3m, 4m or 5m

LG 260G, 260A @ 60%  
**K10413-26-xM** 3m, 4m or 5m

LG 360G, 320A @ 60%  
**K10413-36-xM** 3m, 4m or 5m

LG420G, 380A @ 60%  
**K10413-42-xM** 3m, 4m or 5m



#### WATER COOLED

LG410W, 350A @ 100%  
**K10413-410-xM** 3m, 4m or 5m

LG500W, 500A @ 100%  
**K10413-500-xM** 3m, 4m or 5m



LG52F ALU, 400A, 100%  
**K10413-ALU-4M** 4m

#### PUSH-PULL TORCHES

LGPP300G, (air cooled)  
**K10413-PPA** 8m, standard  
**K10413-PPAR** 8m, with remote ctrl

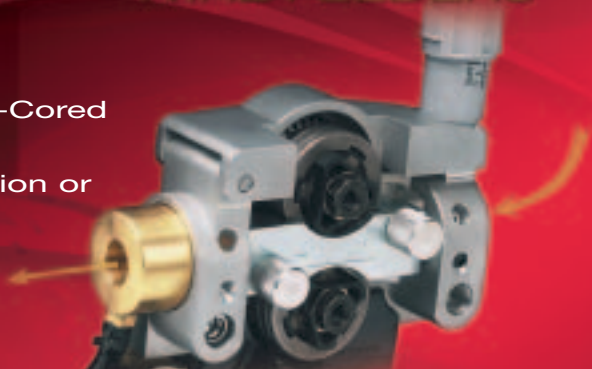
LGPP400W, water cooled  
**K10413-PPW** 8m, standard  
**K10413-PPWR** 8m, with remote ctrl

## Semi-automatic Wire Feeders

# Semiautomatic

## WIRE FEEDERS

- Designed For MIG or Flux-Cored Processes
- Models For Shop Fabrication or Field Construction



|         | MODEL                       | PROCESS |        |          |            |               | WIRE FEED SPEED RANGE (M/MIN)     | WIRE SIZE RANGE (MM) |                    | FEATURES   |         |                  |
|---------|-----------------------------|---------|--------|----------|------------|---------------|-----------------------------------|----------------------|--------------------|------------|---------|------------------|
|         |                             | MIG     | Pulsed | MIG-STT™ | Flux-Cored | Submerged Arc |                                   | Solid                | Cored              | Roll Drive | Cooling | Warranty (years) |
| Digital | <b>Power Feed™ 10M</b>      | ●       | ●      | ●        | ●          |               | 2.0-30.5 (high)<br>1.3-20.3 (low) | 0.6-1.6<br>0.8-2.4   | 0.9-2.0<br>0.9-3.0 | 4          | A/W     | 3                |
|         | <b>Power Feed™ 10M Dual</b> | ●       | ●      | ●        | ●          |               | 2.0-30.5 (high)<br>1.3-20.3 (low) | 0.6-1.6<br>0.8-2.4   | 0.9-2.0<br>0.9-3.0 | 4          | A/W     | 3                |
|         | <b>LF-45</b>                | ●       | ●      | ●        | ●          |               | 2.0-20                            | 0.8-1.6              | 1.0-1.6            | 4          | A/W     | 3                |
| Analog  | <b>LF-22M</b>               | ●       |        |          | ●          |               | 1.0-20                            | 0.8-1.6              | 1.0-1.6            | 2          | A/W     | 3                |
|         | <b>LF-24M</b>               | ●       |        |          | ●          |               | 1.0-20                            | 0.8-1.6              | 1.0-1.6            | 4          | A/W     | 3                |
|         | <b>LF-24M Pro</b>           | ●       |        |          | ●          |               | 1.0-20                            | 0.8-1.6              | 1.0-1.6            | 4          | A/W     | 3                |
|         | <b>LF-33 / LF-33S</b>       | ●       |        |          | ●          |               | 1.0-20                            | 0.8-1.6              | 1.0-1.6            | 4          | A/W     | 3                |
|         | <b>LF-34</b>                | ●       |        |          | ●          |               | 1.0-20                            | 0.8-1.6              | 1.0-1.6            | 4          | A/W     | 3                |
|         | <b>LF-35</b>                | ●       |        |          | ●          |               | 1.0-20                            | 0.8-1.6              | 1.0-1.6            | 4          | A/W     | 3                |
|         | <b>LN-10</b>                | ●       |        |          | ●          | ●             | 1.3-31.7 (high)<br>0.8-19 (low)   | 0.6-1.6<br>0.6-2.4   | 0.9-2.0<br>0.9-3.2 | 4          | A/W     | 3                |
|         | <b>DH-10</b>                | ●       |        |          | ●          | ●             | 1.3-31.7 (high)<br>0.8-19 (low)   | 0.6-1.6<br>0.6-2.4   | 0.9-2.0<br>0.9-3.2 | 4          | A/W     | 3                |
|         | <b>LN-15</b>                | ●       |        |          | ●          |               | 1.3-17.8                          | 0.6-1.3              | 0.9-1.6            | 2          | A       | 3                |
| Field   | <b>LN-23P</b>               |         |        |          | ●          |               | 0.76-4.3                          |                      | 1.7-2.0            | 2          | A       | 3                |
|         | <b>LN-25 Pro</b>            | ●       |        |          | ●          |               | 1.3-17.8                          | 0.6-1.6              | 0.9-2.0            | 2          | A       | 3                |
|         | <b>LF-37</b>                | ●       |        |          | ●          |               | 1.5-20                            | 0.6-1.6              | 1.0-1.6            | 4          | A/W     | 3                |
|         | <b>LF-38</b>                | ●       |        |          | ●          |               | 1.5-20                            | 0.6-1.6              | 1.0-1.6            | 4          | A/W     | 3                |

## LINC FEED-22M, -24M & -24M PRO

*Small & robust, flexible & complete*

The LF-22M, LF-24M and LF-24M Pro are portable wire feeders with stabilised wire feed speed. They include a rugged 2 or 4 roll wire feed unit, featuring cold inch, gas purge and built-in burn back facility.

They can be mounted on the power source with a swivelling, wheeled, carriage. Power source to wire feeder interconnecting cables assemblies are available in different lengths that allow working at a distance from the power source

- **Continuous control** of wire feed speed.
- **Trigger mode selection** for standard 2-steps or interlocking 4-steps.
- **Gas purge** to strike the arc with full shielding.
- **Burnback** preventing the wire sticking in the weld puddle
- **Euroconnector** for European welding torches.
- **Cold inch control.** Used to feed wire into the torch.
- **Stabilised wire drive system** for constant control of wire feed speed.
- **Delivered mounted** on an undercarriage.
- **Bright digital** Volt and Amperes meter (optional for LF22M).
- **Run in** to support perfect starting (except for LF22M).
- **+ for the LF24M PRO**
  - **Synergic control** to support easy control by the welder.
  - **Gas pre-flow** improves the protection of the bead before arc ignition.
- **Meet IEC974-1, ROHS and CE** standards for safety and reliability.

### Processes

MIG, Flux-Cored

### Output



### Input



### Base Unit Includes

Drive roll kit 1,0-1,2mm, Water connection kit (except LF22M)

### Recommended Power Sources

Powertec® 305S, Powertec® 365S, Powertec® 425S, Powertec® 505S

### Order

|           |            |
|-----------|------------|
| K14064-1  | LF-22M     |
| K14065-1W | LF-24M     |
| K14066-1W | LF-24M PRO |



| Product Name | Product Number | Drive roll | Cooling | Input Power | Wire Feed Speed Range (m/min) | Wire Size Range (mm) |           | Dimensions H x W x D (mm) | Net Weight (kg) |
|--------------|----------------|------------|---------|-------------|-------------------------------|----------------------|-----------|---------------------------|-----------------|
|              |                |            |         |             |                               | Solid                | Cored     |                           |                 |
| LF-22M       | K14064-1       | 2          | A       | 34-44 VAC   | 1 - 20                        | 0,8 - 1,6            | 1,0 - 1,6 | 440 x 275 x 636           | 17              |
| LF-24M       | K14065-1W      | 4          | A/W     |             |                               |                      |           |                           |                 |
| LF-24M PRO   | K14066-1W      | 4          | A/W     |             |                               |                      |           |                           |                 |

## LINC FEED-33S, -33, -34 & -35

*Small & robust, flexible & complete*

The LF33S, 33, 34 and 35 are wire feeders designed to withstand the extreme environmental conditions. With these feeders we focussed on ruggedness, dimensions and ease of use. The result is an incredibly rugged, protective casing as standard completed with an undercarriage, for use under tough industrial conditions. The feeders are able to accept D300 (15 KG) but also small D200 (5KG) wire spools, using solid or cored wire including Innershield. The most simple one is the LF33 equipped with 2/4-step, run-in, wire inch and gas purge. Two clear digital meters display the welding Voltage and Amperage. The LF34 & LF35 are the more advanced models. Both feeders have the unique digital displays showing the pre-settable and actual welding parameters.

The LF35 has in addition a set of synergic programs and memory.

- **Small, rugged and easy to handle feeder**, with bright digital Voltage and Ammeter.
- **All drives are equipped with an excellent wire drive system** with four large drive rolls and powerful motor.
- **Electronic feedback system** on the wire drive will guarantee consistent wire feed speed.
- **Ergonomic design**; User friendly controls with digital displays showing text in the language of your choice (LF34&35).
- **Optional remote controlled job selection** (10) on the LF35.
- **Meet IEC974-1, ROHS and CE standards** for safety and reliability.

### Processes

MIG, Flux-Cored

### Output



### Input



### Base Unit Includes

Drive roll kit 1,0-1,2mm, Water connection kit

### Recommended Power Sources

STT® II, CV420, CV505

### Order

|           |        |
|-----------|--------|
| K14051-1  | LF-33S |
| K14030-1W | LF-33  |
| K14035-1W | LF-34  |
| K14036-1W | LF-35  |



| Product Name | Product Number | Drive roll | Cooling | Input Power | Wire Feed Speed Range (m/min) | Wire Size Range (mm) |           | Dimensions H x W x D (mm) | Net Weight (kg) |
|--------------|----------------|------------|---------|-------------|-------------------------------|----------------------|-----------|---------------------------|-----------------|
|              |                |            |         |             |                               | Solid                | Cored     |                           |                 |
| LF-33S       | K14051-1       | 4          | A/W     | 34-44 VAC   | 1 - 20                        | 0,8 - 1,6            | 1,0 - 1,6 | 350 x 185 x 530           | 12              |
| LF-33        | K14030-1W      | 4          | A/W     | 34-44 VAC   | 1 - 20                        | 0,8 - 1,6            | 1,0 - 1,6 | 440 x 275 x 636           | 17              |
| LF-34        | K14035-1W      | 4          | A/W     | 34-44 VAC   | 1,5 - 20                      | 0,8 - 1,6            | 1,0 - 1,6 | 440 x 275 x 636           | 17              |
| LF-35        | K14036-1W      | 4          | A/W     | 34-44 VAC   | 1,5 - 20                      | 0,8 - 1,6            | 1,0 - 1,6 | 440 x 275 x 636           | 17              |

## LINC FEED-37 & 38

*Robust for perfect feeding*

The LF37 and LF38 are portable wire feeders designed to withstand the extreme environmental conditions of shipyards and construction sites. The feeders are able to accept D300 (15 KG) but also small D200 (5KG) wire spools with solid or cored wire including Innershield. To support long cable packages we equipped these feeders with a gas flow meter on the inside. They have the ultimate user-friendly controls. All machine settings like 2/4 Stroke, Burn Back, Hot / Soft Start and Crater Fill can be viewed by using one single Select push button. The display will show the function and setting in the language of your choice.

The LF38 has in addition a set of synergic programs and memory.

- **Excellent feeding;** four roll drive as standard.
- **Portable** and extremely sturdy.
- **Flow meter** inside
- **Trouble-free feeding.**
- **Multi language.**
- **Large bright Volt and Amp meters;** allows Pre-setting of the welding parameters before welding and read-out during welding.
- **Fully featured;** 2/4 steps, Crater fill and Soft / Hot start.
- **10 memories** to save welding parameters (LF38)
- **Equipped with** water connections.
- **Meet IEC974-1, ROHS and CE** standards for safety and reliability.

### Processes

MIG, Flux-Cored

### Output



### Input



### Base Unit Includes

Drive roll kit 1,0-1,2mm

### Recommended Power Sources

CV-420, CV505, STT<sup>®</sup> II, DC 400, DC 655, RANGER 305D, V350 PRO

### Order

K10406      LF-37  
K10407      LF-38



| Product Name | Product Number | Drive roll | Cooling | Input Power | Wire Feed Speed Range (m/min) | Wire Size Range (mm) |           | Dimensions H x W x D (mm) | Net Weight (kg) |
|--------------|----------------|------------|---------|-------------|-------------------------------|----------------------|-----------|---------------------------|-----------------|
|              |                |            |         |             |                               | Solid                | Cored     |                           |                 |
| LF-37        | K10406         | 4          | A/W     | 42 VAC      | 1,5 - 20                      | 0,6 - 1,6            | 1,0 - 1,6 | 356 x 188 x 534           | 16              |
| LF-38        | K10407         |            |         |             |                               |                      |           |                           |                 |

## LINC FEED-45

*Designed to work with Lincoln's digital power sources*

The LF 45 is based on the design of the LF33 and build to withstand the extreme environmental conditions. With these feeders we focused on ruggedness, dimensions and ease of use. The result is an incredibly rugged, protective casing as standard completed with an undercarriage, for use under tough industrial conditions. The feeders are able to accept D300 (15 KG) but also small D200 (5KG) wire spools.

The LF45 has Arclink® (digital) control to work with all Power Wave and Speedtec sources. The feeder is carrying has all the features you can think about including Job control and Multi procedure. As standard the feeder is supporting gun controlled features like Job selection, WFS control and Arc length.

The clear display on the front is showing the necessary information. Two clear digital meters display the welding Voltage and Amperage.

- **Small rugged and easy to handle feeder;** with bright digital meters.
- **Four roll drive system** with powerful motor.
- **Remote control** on the gun (job, WFS Trim).
- **Hot /Soft start Crater Run** and all standard features.
- **Equipped with wheels** as standard.
- **Meet IEC974-1, ROHS and CE** standards for safety and reliability.

### Processes

MIG, Flux-Cored

### Output



### Input



### Base Unit Includes

Drive roll kit 1,0-1,2mm, Water connection kit

### Recommended Power Sources

Power Wave® 405M, Power Wave® 455M, Power Wave® 455M/STT, Speedtec 400S & 500S

### Order

K14072-1 LF-45



| Product Name | Product Number | Drive roll | Cooling | Input Power | Wire Feed Speed Range (m/min) | Wire Size Range (mm) |           | Dimensions H x W x D (mm) | Net Weight (kg) |
|--------------|----------------|------------|---------|-------------|-------------------------------|----------------------|-----------|---------------------------|-----------------|
|              |                |            |         |             |                               | Solid                | Cored     |                           |                 |
| LF-45        | K14072-1       | 4          | A/W     | 40 VDC      | 2 - 20                        | 0.8 - 1.6            | 1.0 - 1.6 | 440 x 270 x 636           | 17              |

## DH-10 & LN-10

### Single header & double header wire feeders

The LN-10 Semi-automatic wire feeder features the revolutionary split wire guide which precisely aligns and supports the wire through the entire feeding system. The system also features a rugged 4 driven roll design for positive wire feeding. The LN-10's modular design provides for many mounting options, including boom mounting.

Precision times two! This DH-10 dual wire feeder utilises Lincoln's® revolutionary split wire guide system to precisely align and feed wire, and its dual wire feeder system allows you to weld with two different wires, with two different welding procedures using one power source.

- **Standard dual procedure** allows operator to set different voltage and wire feed speeds and switch between the two.
- **Selectable trigger control** for standard 2-step, interlocking 4-step.
- **Digital Display** standard.
- **Preflow/Postflow/Burnback and Spot Timer** standard.

#### DH-10

- **Each side of the DH-10 wire drive system is driven by its own motor and gear box** for confidence that the feeder won't go down.
- **Split wire guide and 4 driven rolls** for positive wire feeding.
- **Pre-settable voltage and wire feed speed** for extra control.
- **Meet IEC974-1, ROHS and CE standards** for safety and reliability.

#### Processes

MIG, Pulsed, MIG-STT®, Flux-Cored

#### Output



#### Input

#### Base Unit Includes

Euroconnector, Water kit, Spool protective cover, Drive roll kit 1,0-1,2mm

#### Recommended Power Sources

CV420, CV505, V350PRO, DC400, DC655, DC1000, STT® II

#### Order

K1559-5 LN-10 Bench model  
K1499-5 DH-10 Bench model



| Product Name | Product Number | Drive roll | Cooling | Input Power | Wire Feed Speed Range (m/min) | Wire Size Range (mm) |           | Dimensions H x W x D (mm) | Net Weight (kg) |
|--------------|----------------|------------|---------|-------------|-------------------------------|----------------------|-----------|---------------------------|-----------------|
|              |                |            |         |             |                               | Solid                | Cored     |                           |                 |
| LN-10        | K1559-5        | 4          | A/W     | 42 VAC      | 0.8 - 19                      | 0.6 - 1.2            | 0.8 - 2.4 | 406 X 381 X 787           | 33.6            |
| DH-10        | K1499-5        |            |         |             |                               |                      |           | 533 x 508 x 813           |                 |

## Power Feed™ 10M & 10M Dual

Single and dual bench wire feeders

The Power Feed™ 10M wire feeder is revolutionary for its ease of use and flexibility. Designed to maximize the capabilities of the Power Wave® 455, the combination of high-tech power source and wire feeder, outperform traditional arc welding methods. The Power Feed™ 10's design allows the control box to be placed anywhere – near the work piece or on top of the power source. The Power Feed™ 10M Dual is designed for shops that require welding flexibility and superior welding performance in one complete wire feeder package. Dual feeder means you can put two different types of wire on the feeder, allowing you weld steel, stainless or aluminium from one power source. Combine this wire feeder flexibility with one of Lincoln's new Power Wave® power sources, and you will be able to MIG weld, STT weld or Pulse weld with ease.

- **World-class arc performance** on steel, stainless steel, aluminium and other materials.
- **Waveform Control Technology®** featuring patented processes like Pulse-On-Pulse®, for a TIG-like bead appearance, and Power Mode®, for a stable arc at low current levels.
- **Utilises ArcLink®**—the leading digital communication protocol for welding, making it the best choice for seamless, time critical integration with the power source.
- **Pulsed MIG process**—great for low spatter, low heat input and out-of-position applications—makes virtually any operator a better welder!
- **Easy-to-understand** user interface panel with large numeric displays make it easy to set weld parameters.
- **Features push-pull capability** for great performance on aluminium.
- **Meet IEC974-1, ROHS and CE** standards for safety and reliability.

### Processes

MIG, Pulsed, MIG-STT®, Flux-Cored

### Output



### Input

### Base Unit Includes

Euroconnector, Water kit, Spool protective cover, MSP4 panel, Drive roll kit 1,0-1,2mm

### Recommended Power Sources

Power Wave® 405M, Power Wave® S350, Power Wave® 455M, Power Wave® 455M/STT®

### Order

K2460-2 PF10M Bench model  
K2461-2 PF10M DUAL Bench model



| Product Name | Product Number | Drive roll | Cooling | Input Power | Wire Feed Speed Range (m/min) | Wire Size Range (mm)    |           | Dimensions H x W x D (mm) | Net Weight (kg) |
|--------------|----------------|------------|---------|-------------|-------------------------------|-------------------------|-----------|---------------------------|-----------------|
|              |                |            |         |             |                               | Solid                   | Cored     |                           |                 |
| PF-10M       | K2460-2        | 4          | A/W     | 40 VDC      | High speed<br>1,5 - 20        | High speed<br>0,6 - 1,6 | 1,0 - 1,6 | 470 x 343 x 775           | 16              |
| PF-10MD      | K2461-2        | 4          | A/W     | 40 VDC      | Low speed<br>1,27 - 20,3      | Low speed<br>0,6 - 2,4  | 0,9 - 3,0 | 508 x 508 x 781           | 41              |

## LN-15

### Portable semi-automatic wire feeder

The LN-15 CE is one of the smallest and perhaps the most rugged and portable wire feeder in the world.

Designed with a plastic case resistant to high temperature and abrasion, aluminium roll cage and fully encapsulated PC boards, the LN-15 CE is perfect for the construction, shipbuilding and pipeline industries. The unit is lightweight and portable, ideally suited to carry small D200 wire spools of any solid or cored wire. As standard the LN-15 CE features two large illuminated digital displays of Wire Feed Speed and actual welding voltage. The 2/4-stroke, pre and post flow and an adjustable flow meter will also support the welder even on the most demanding of jobs.

- **Rugged patented** Lincoln wire Drive system.
- **Illuminated digital displays** are easy to read in adverse lighting conditions.
- **Fully** enclosed, heat spatter and impact resistant, molded casing.
- **Full body aluminium** roll cage.
- **Adjustable** carrying strap.
- **Meet IEC974-1, ROHS and CE** standards for safety and reliability.

#### Processes

MIG, Innershield

#### Output



#### Input



#### Recommended Power Sources

CV-420, CV-505, DC 400, V350-PRO, STT® II, RANGER 305D

#### Order

K1871-3

LN-15



| Product Name | Product Number | Drive roll | Cooling | Input Power | Wire Feed Speed Range (m/min) | Wire Size Range (mm) |  | Dimensions H x W x D (mm) | Net Weight (kg) |
|--------------|----------------|------------|---------|-------------|-------------------------------|----------------------|--|---------------------------|-----------------|
|              |                |            |         |             |                               | Solid                |  |                           |                 |
| LN-15        | K1871-3        | 2          | A/W     | 42 VAC      | 1,3-17,8                      | 0.6 - 1.2            |  | 356 x 188 x 553           | 13              |

## LN-23P

### *Semi-automatic wire feeder*

The LN-23P semi-automatic wire feeder is able to handle the toughest work sites and is an excellent choice for field erection and pipe welding applications. It is portable, easy to set-up, and ideal for reaching difficult locations.

- **Weighs less than 23 kg** including optional Magnum® Innershield® gun and 14 lb (6.3 kg) coil of electrode.
- **Continuous wire feed speed control**, voltage control and analog voltmeter are standard.
- **Completely enclosed wire reel** keeps the wire free of contaminants.
- **Equipped with trigger interlock circuit** to reduce operator fatigue.
- **Gun-mounted two-position switch** allows on-the-fly change to 83% of the preset wire feed speed.
- **Electrode and control cable quickly connect** to power source.
- **One or two LN-23P wire feeders can be directly connected** to recommended Lincoln power sources, but only one can be used at a time.
- **Meet IEC974-1, ROHS and CE standards** for safety and reliability.

#### Processes

Innershield (FCAW-S)

#### Output



#### Input



#### Recommended Power Sources

Idealarc® DC-400, Idealarc® DC-655  
Invertec® V350-PRO

#### Order

K316L-6 LN-23P



| Product Name | Product Number | Drive roll | Cooling | Input Power | Wire Feed Speed Range (m/min) | Wire Size Range (mm)<br>Cored | Dimensions<br>H x W x D (mm) | Net Weight (kg) |
|--------------|----------------|------------|---------|-------------|-------------------------------|-------------------------------|------------------------------|-----------------|
| LN-23P       | K316L-6        | 2          | A/W     | 115V AC     | 0.76-4.3                      | 1.7-2.0                       | 520 x 230 x 480              | 12.3            |

## LN-25 Pro

### Portable construction wire feeder

Built upon the tradition and success of the LN™-25, the new LN™-25 PRO is designed to be simple, reliable and easy to service. The LN™-25 PRO is ideal for field construction and fabrication, shipyards, and rental companies.

The MAXTRAC® wire drive enhances performance, while the replacement case –and many other upgrade options– can be installed in less than five minutes.

The LN™-25 PRO is available in 2 models: Standard & Dual Power

- The Standard model can be powered across the Arc the feeder is using the Arc voltage to drive the feeder.
- The Dual Power model features a voltage control knob for superior arc control, digital meters for increased monitoring, MIG-STT® capability, and can be powered with either a control cable or across the arc.

- **Performance – All Models** : 2-Step/trigger interlock provides comfort for long welds Sturdier and rugged spindle design with an incorporated brake.
- **Performance – Standard** : Analog Voltmeter with polarity indicator LED automatically adjusts to welding polarity.
- **Performance – Dual Power Model** : Digital meters for increased monitoring, Display shows wire feed speed or amperage and welding voltage.
- **Reliability** : Lightweight, impact and flame resistant polycarbonate case design keeps the internal components protected. Potted and trayed PC board protects against moisture and corrosion. Reel locking mechanism eliminates spindle cross threading.
- **Serviceability** : Case can be replaced in less than 5 minutes - eliminates downtime.
- **Meet IEC974-1, ROHS and CE standards** for safety and reliability.

#### Processes

MIG, Flux-Cored

#### Output



#### Input



#### Recommended Power Sources

All Electric or Engine Driven Welders with CV capability

#### Order

K2613-1  
K2614-3

LN-25Pro  
LN-25Pro dual Power



| Product Name        | Product Number | Drive roll | Cooling | Input Power             | Wire Feed Speed Range (m/min) | Wire Size Range (mm) |           | Dimensions H x W x D (mm) | Net Weight (kg) |
|---------------------|----------------|------------|---------|-------------------------|-------------------------------|----------------------|-----------|---------------------------|-----------------|
|                     |                |            |         |                         |                               | Solid                | Cored     |                           |                 |
| LN-25Pro            | K2613-1        | 2          | A       | 15-110 VDC              | 1,3 -17,7                     | 0,6 - 1,6            | 0,8 - 2,0 | 381 x 221 x 599           | 16              |
| LN-25Pro Dual Power | K2614-3        | 2          | A       | 15-110 VDC or 24-42 VAC | 1,3 -17,7                     | 0,6 - 1,6            | 0,8 - 2,0 | 381 x 221 x 599           | 16              |

## INTERCONNECTION CABLES

Fast-mate (x2), gas hose, protection, (2,5 ; 5 ; 10 ; 15 ; 20 ; 25 & 30m)

Item n° :

**K10347-PG-xM** (air cooled)  
**K10347-PGW-xM** (water cooled)



## GAS PRESSURE REGULATOR

Accommodates CO2, argon or argon-blended gas cylinders. Includes a cylinder pressure gauge, dual scale flow gauge and 1,3m gas hose

Item n° : consult us



## WATER CONNECTION KIT

Includes quick connect fittings on front and back of wire drive for use with water-cooled guns and Coolers. Kit provides for one gun. (LN-10, DH-10, PF 10M, PF 10M Dual)

Item n° : **K590-6**



## DUAL PROCEDURE KITS

### DUAL PROCEDURE/MEMORY PANEL

User memories work by copying the weld procedure from one of the six memories into either the A or B procedure. Weld procedures are saved into the memories only when the operator chooses.

Item n° : **K2360-1**

for Power Feed 10M



### DUAL PROCEDURE SWITCH

Allows the use of two welding procedures with one Lincoln gun.

Item n° : **K683-1**

for LN-10, DH-10, PF 10M



## INNERSHIELD GUNS

Lincoln has been manufacturing semiautomatic flux-cored, self-shielded (FCAW-S) gun and cable assemblies for over 40 years. Magnum self-shielded guns are rugged and reliable, yet lightweight, flexible and maneuverable

450A, 82°, 3mm, 4,6m

Item n° : **K115-2**

350A, 62°, 1,6mm, 3m

Item n° : **K126-1**

350A, 62°, 1,6mm, 4,6m

Item n° : **K126-2**



## MIG TORCHES

### LINC GUN™ RANGE

As standard these guns come with an ergonomic grip, springs on both sides of the cable, retractable pins and a "rotating ball joint" at the end of the gun grip

#### AIR COOLED

LG 150G, 150A @ 60%  
**K10413-15-xM** 3m, 4m or 5m

LG 250G, 200A @ 60%  
**K10413-25-xM** 3m, 4m or 5m

LG 240G, 220A @ 60%  
**K10413-24-xM** 3m, 4m or 5m

LG 260G, 260A @ 60%  
**K10413-26-xM** 3m, 4m or 5m

LG 360G, 320A @ 60%  
**K10413-36-xM** 3m, 4m or 5m

LG420G, 380A @ 60%  
**K10413-42-xM** 3m, 4m or 5m



#### WATER COOLED

LG410W, 350A @ 100%  
**K10413-410-xM** 3m, 4m or 5m

LG500W, 500A @ 100%  
**K10413-500-xM** 3m, 4m or 5m

LGS2F ALU, 400A, 100%  
**K10413-ALU-4M** 4m



#### PUSH-PULL TORCHES

LGPP300G, air cooled  
**K10413-PPA** 8m, standard  
**K10413-PPAR** 8m, with remote ctrl

LGPP400W, water cooled  
**K10413-PPW** 8m, standard  
**K10413-PPWR** 8m, with remote ctrl

## STANDS & UNDERCARRIAGES



### INSULATED LIFT BAIL

Allows the entire wire feeder to be hung from a crane or hook. Use with Heavy Duty Wire Reel Stand.

Item n° : **K1555-1**  
for LN-10, PF-10

### SWIVEL PLATFORM

Mounts to the lift bail on the power source and bottom of the Heavy Duty Wire Reel Stand. Wire feeder may be lifted off if needed. Compatible with Light Duty Caster Kit. Includes "lazy susan" parts tray.

Item n° : **K1557-1**  
for LN-10, PF-10



### CASTER KIT – LIGHT DUTY

Mounts to the Heavy Duty Wire Reel Stand. Allows for easy movement of wire feeder.

Item n° : **K1556-1**  
for LN-10, PF-10



## WIRE ADAPTORS, COVERS & STRAIGHTENERS

### SPINDLE ADAPTOR FOR 6KG INNERSHIELD® COIL

Permits 6 kg Innershield® electrode coils to be mounted on 51 mm O.D. spindles.

Item n° : **K435**



### FOR INNERSHIELD COIL

Adapts 10-14 kg Lincoln Readi-Reels to 51mm spindle

Item n° : **K363P**



### FOR 15-KG STEIN BASKET

Item n° : **K10158-1**

### PLASTIC WIRE COVER KIT

Plastic enclosure for up to 27.2 kg wire packages.

Item n° : **K1634-1**



### WIRE STRAIGHTENER

Straightens wire for better, smoother feeding.

Item n° : **K1733-1**  
for LN-10, DH-10, Power Feed™ 10M



## LN-25 SOLENOID & REMOTE CONTROL KITS

### GAS SOLENOID KIT

Includes solenoid valve and mounting bracket.

Item n° : **K430-2**  
for LN-25



### 42 VOLT REMOTE OUTPUT CONTROL MODULE

Provides remote voltage control and power source output control. Requires 42 volt auxiliary power. Mounts inside LN-25 control box.

Item n° : **K624-2**



# Subarc

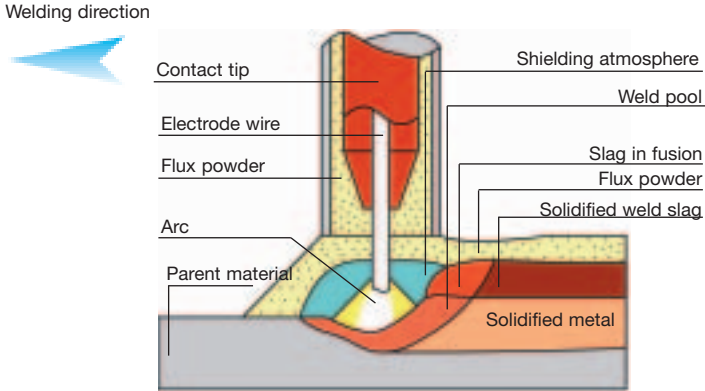
welders

| MODEL                             | OUTPUT |          |                      | PROCESS |             |     |            |               |             | Warranty (years) |
|-----------------------------------|--------|----------|----------------------|---------|-------------|-----|------------|---------------|-------------|------------------|
|                                   | Mode   | Polarity | Current Range (Amps) | Stick   | TIG scratch | MIG | Flux-Cored | Submerged Arc | Arc gouging |                  |
| <b>Power Wave® AC/DC 1000® SD</b> | CC/CV  | AC       | <b>200-1000</b>      |         |             |     |            | ●             |             | <b>3</b>         |
| <b>Idealarc® DC-655</b>           | CC/CV  | DC       | <b>50-815</b>        | ●       | ◐           | ●   | ●          | ●             | ●           | <b>3</b>         |
| <b>Idealarc® DC-1000</b>          | CC/CV  | DC       | <b>150-1300</b>      |         |             | ◐   | ●          | ●             | ●           | <b>3</b>         |
| <b>Idealarc® DC-1500</b>          | CC/CV  | DC       | <b>200-1500</b>      |         |             |     | ◐          | ●             | ◐           | <b>3</b>         |
| <b>Idealarc® AC-1200</b>          | CC     | AC       | <b>200-1500</b>      |         |             |     |            | ●             |             | <b>3</b>         |

KEY: ● Excellent ◐ Good ○ Optional

# Submerged arc Welding

## Submerged arc Process



*The mechanics of the Submerged Arc Welding process (SAW): Both the electrode and the base metal are melted beneath a layer of flux. This layer protects the weld metal from contamination and concentrates the heat into the joint. The molten flux rises through the pool, deoxidising and cleaning the molten metal. It then forms a protective slag covering and maintaining the newly deposited weld.*

*The range of applications can be anything from 2 mm increasing with no upper limit. Subarc is one of the most versatile of welding processes. All steel grades, from non to high alloyed, including Ni-based, can be welded with a combination of various application techniques.*

*Ranging from a single electrode-single power source to a combination of four power sources feeding two wires each, Lincoln is proud to offer an extensive range of application solutions to the market.*

*As a global supplier, including equipment and consumables, Lincoln's knowledge in the SAW process will support you in reaching the toughest productivity and quality targets.*

## Power Wave® AC/DC 1000® SD

*Increased productivity, quality and flexibility*



The Power Wave® AC/DC 1000® SD takes submerged arc welding to the next level. In addition to conventional benefits of SAW, such as high deposition rates and good penetration, heightened control and faster responses to the arc are unique to the design of the Power Wave® AC/DC 1000® SD.

With the Power Wave® AC/DC 1000® SD, you get the best of both worlds : the speed, deposition rate, and penetration that DC SAW offers, and the resistance to arc blow that AC SAW offers. In single arc processes, the Power Wave® AC/DC 1000® SD provides flexibility with Waveform Control Technology. In multiple arc processes, that same flexibility is achieved through control of phase shifting between arcs.

The machine is designed to be easily paralleled for welding applications that require higher amperage. Each Power Wave® AC/DC 1000® SD provides 1000A of AC or DC output at 100% duty cycle and can be paralleled to any desired capacity.

- **Eliminate downtime** with easy polarity switching—no hardware reconfiguration required.
- **Stable and independent arc controls** for multiple arc applications.
- **Improved efficiency and reliability** with cooler operation through patented Coaxial Transformer Technology®.
- **95% power factor correction** enables connection of more machines on the same plant infrastructure for lower installation costs compared to other machines.
- **Remote process monitoring and control** through ArcLink®, Ethernet, and DeviceNet™ communication.
- **380-575V VAC 50/60HZ Voltage input** - Offers the ability to be connected anywhere.
- **Severe Duty** - can be stored outdoors - IP23 rated.
- **Software Based control** Can be upgraded as new features become available True Energy Measures calculates and displays instantaneous energy in the weld for critical input calculations.
- **Meet IEC974-1 and CE standards** for safety and reliability.

### Processes

Submerged Arc

### Output



### Input

### Recommended wire feeders

MAXsa™ 10 controller, MAXsa™ 22 feed head

### Order

K2803-1

Power Wave® AC/DC 1000® SD



| Product Name               | Product Number | Input Power | Rated Output Current/Voltage/ Duty Cycle | Fuse Size | Output Range | Dimensions H x W x D (mm) | Net Weight (kg) |
|----------------------------|----------------|-------------|--|-----------|--------------|---------------------------|-----------------|
| Power Wave® AC/DC 1000® SD | K2803-1        | 400/3/50-60 | 1000A/44V/100%                           | 80A       | 200-1000A    | 1110 x 488 x 838          | 250             |

## Idealarc® DC-655

*Energy efficiency multi-process welder*

A multi-process power source for state-of-the-art welding operations, featuring extreme energy efficiency for serious cost-savings.

The Idealarc® DC-655 CE combines ultra reliability with a premium welding arc. Charging onto the scene with 650 amps at 100% duty cycle, this DC arc welding power source can handle multiple welding processes for both CV or CC operation. The unit has the power to complete even the most demanding welding jobs.

- **CC Arc Force Control Knob** with built-in “Hot Start”.
- **“Idle Shut Down mode”** automatically shuts machine off when not in use to minimise power consumption.
- **Fan-As-Needed™**—solid state thermally controlled cooling fan operates only when required. Minimises power consumption, operating noise and dust intake.
- **Separate output studs** let you choose low or high inductance.
- **Panel switches** are behind front latched panel, for remote or machine panel output control, and output “on” or remote “on” selection, and CC, CV Subarc or CV MIG mode selection.
- **Low profile case** allows stacking machines up to three high to conserve floor space.
- **Electronic and thermal protection** from current overload and excessive temperatures.
- **Meet IEC974-1 and CE** standards for safety and reliability.

### Processes

Stick, MIG, Flux-Cored, Submerged Arc, Gouging

### Output



### Input

### Recommended wire feeders

LF-37, LF-38, LN-25  
NA-3, NA-5, NA-5R

### Order

K1610-1

Idealarc® DC-655



| Product Name | Product Number | Input Power     | Rated Output Current/Voltage/ Duty Cycle | Fuse Size | Output Range                  | Dimensions H x W x D (mm) | Net Weight (kg) |
|--------------|----------------|-----------------|--|-----------|-------------------------------|---------------------------|-----------------|
| DC-655       | K1610-1        | 230/400/3/50/60 | 650A/44V/100%<br>815A/44V/60%            | 122/70A   | 50-815A<br>Max. OCv: 68V (CC) | 99 x 564 x 965            | 327             |

## Idealarc® DC-1000

### Multi-process welder

If your application requires pure welding power combined with multi-process power, then the Idealarc® DC-1000, with 1300 amps of smooth DC output, is your best investment.

Designed for Semi-automatic and automatic welding, the precise control of the Idealarc® DC-1000 provides superior MIG, flux-cored, submerged-arc welding, and excellent air carbon arc gouging.

#### Processes

MIG, Flux-Cored, Submerged Arc, Gouging

#### Output



#### Input



#### Recommended wire feeders

NA-3, NA-5, NA-5R, LT-7

#### Order

K1387-9

Idealarc® DC-1000 with meters



- **500 amp output connections** provide enhanced arc characteristics for low amperage submerged arc and MIG welding procedures.
- **Single range control** for precise output control and easy operation.
- **Terminal strip and output studs** for remote connections and cable.
- **Low profile case** allows installation of the DC-1000 under a work-bench and for stacking up to 2 machines to conserve floor space.
- **Removable side panels** for easy access to internal parts.
- **Line voltage compensation** maintains weld consistency, even with line voltage changes of  $\pm 10\%$ .
- **Electronic and thermostatic protection** from current overload and excessive temperatures.
- **Internal components**, including windings, rectifiers and circuit boards, are coated to protect against the effects of moisture and corrosion.
- **Recessed front panel** protects operating controls.
- **Meet IEC974-1 and CE standards** for safety and reliability.

| Product Name | Product Number | Input Power         | Rated Output Current/Voltage/Duty Cycle          | Fuse Size    | Output Range                         | Dimensions H x W x D (mm) | Net Weight (kg) |
|--------------|----------------|---------------------|--|--------------|--------------------------------------|---------------------------|-----------------|
| DC-1000      | K1387-9        | 230/380/440/3/50-60 | 1250A/44V/50%<br>1140A/45V/60%<br>1000A/44V/100% | 193/112/97 A | 16-46V<br>150-1300A<br>Max. OCV: 60V | 781 x 572 x 991           | 372             |

# Idealarc® DC-1500

*Multi-process welder DC arc welding power source*

The Idealarc® DC-1500 is a multi-process DC arc welding power source for automatic welding applications. It produces outstanding arc characteristics on both constant voltage and constant current processes for great welding versatility in a single power source. A single range full output control potentiometer provides outstanding welding performance.

**Processes**

Flux-Cored, Submerged Arc, Gouging

**Output**



**Input**



**Recommended wire feeders**

NA-3, NA-5, LT-7

**Order**

K1383-4 Idealarc® DC-1500  
380/440/3/50/60  
K1383-5 Idealarc® DC-1500  
415/3/50/60

- **Full range output voltage control** for easy operation and precise output control.
- **Mode switch** used to select the desired output characteristics for the process being used.
- **Line voltage compensation** for maintaining weld consistency, even with line voltage changes of  $\pm 10\%$ .
- **Fan cooled** with electronic and thermostatic protection from current overload and excessive temperatures.
- **Function lights** built into the printed circuit boards speed diagnostics.
- **Windings and rectifiers** protected against moisture and corrosive environments.
- **Removable side panels** for easy access to internal parts.
- **Recessed front panel** protects operating controls.
- **Terminal strip and output studs** for remote connections and cable.
- **Meet IEC974-1 and CE standards** for safety and reliability.



| Product Name | Product Number | Input Power     | Rated Output Current/Voltage/ Duty Cycle | Fuse Size | Output Range | Dimensions H x W x D (mm) | Net Weight (kg) |
|--------------|----------------|-----------------|--|-----------|--------------|---------------------------|-----------------|
| DC-1500      | K1383-4        | 380/440/3/50-60 | 1500A/60V/100%                           | 814A      | 20-60V       | 1453 x 566 x 965          | 644             |
|              | K1383-5        | 415/3/50-60     |  | 216A/187A | 200-1500A    |                           |                 |

## Idealarc® AC-1200

*Automatic submerged arc welding power source*

The Idealarc® AC-1200 is the industry's leading AC power source for submerged arc welding. It is a power source that you can count on day-in and day-out to provide proven performance. The Idealarc® AC-1200 produces outstanding arc characteristics and is specifically designed for operation with Lincoln's NA-4 automatic wire feeder.

- **Scott® connection taps** standard for two AC welding heads operated in tandem.
- **Rheostat** adjusts the output settings while welding or at idle.
- **Three output studs** with overlapping ranges.
- **±10% input line voltage compensation** for maintaining weld consistency.
- **Thermostatic protection** from current overload and excessive temperatures.
- **Terminal strip** for remote control and wire connections and output studs for welding cables.
- **Removable side panels** for easy access to internal parts.
- **Windings and rectifiers** protected against moisture and corrosive environments.
- **Meet IEC974-1 and CE** standards for safety and reliability.

### Processes

Submerged Arc

### Output



### Input



### Recommended wire feeders

NA-4

### Order

|         |                                  |
|---------|----------------------------------|
| K1382-5 | Idealarc® AC-1200<br>380/1/50/60 |
| K1382-6 | Idealarc® AC-1200<br>415/1/50/60 |



| Product Name | Product Number | Input Power | Rated Output Current/Voltage/ Duty Cycle | Fuse Size | Output Range | Dimensions H x W x D (mm) | Net Weight (kg) |
|--------------|----------------|-------------|--|-----------|--------------|---------------------------|-----------------|
| AC-1200      | K1382-5        | 380/1/50-60 | 1200A/44V/100%                           | 182A      | 20-60V       | 1453 x 560 x 970          | 712             |
|              | K1382-6        | 415/1/50-60 |  | 190A      | 200-1500A    |                           |                 |

## **POWER SOURCES OPTIONS**



### **AIR FILTER KIT**

Mounts on the front of the machine and uses cleanable, all metal air filters. Not compatible with dual process switch.

Item n° : **K1486-1**

for DC-655



### **DIGITAL METER KIT**

Accurately displays welding amps and volts.

Item n° : **K1482-1**

for DC-655



### **DUAL PROCESS SWITCH**

Mounts on front of machine and provides polarity change or electrical isolation. Great for arc gouging applications and where two separate feeders require different output polarity or inductance settings. Not compatible with air filter kit.

Item n° : **K1528-1**

for DC-655



### **42 VOLT TRANSFORMER KIT**

Provides a way to use the LN-10 and DH-10 wire feeder on a DC-1000 that has 115V AC available on the terminal strip.

Item n° : **K1520-1**

for DC-1000

# Automatic

## WIRE FEEDERS

- Ideal For Heavy Duty Hard Automation Applications
- Maximum Control Over Welding Parameters
- Designed To Deposit More Weld Metal At Fast Travel Speeds



|         | MODEL                   | PROCESS |            |               | WIRE FEED SPEED RANGE (M/MIN) | WIRE SIZE RANGE (MM) |         | POWER SOURCES |         |         |         |               | Warranty (years) |
|---------|-------------------------|---------|------------|---------------|-------------------------------|----------------------|---------|---------------|---------|---------|---------|---------------|------------------|
|         |                         | MIG     | Flux-Cored | Submerged Arc |                               | Solid                | Cored   | DC-655        | DC-1000 | DC-1500 | AC-1200 | PW AC/DC-1000 |                  |
| Digital | <b>MAXsa™ 10</b>        |         |            | ●             | 0.25-5.0                      | 2.0-5.6              | -       |               |         |         |         | ●             | 3                |
|         | <b>Cruiser® Tractor</b> |         |            | ●             | 0.4-5.0                       | 1.6-5.6              | -       | ●             | ●       |         |         |               | 3                |
| Analog  | <b>NA-3</b>             | ●       | ●          | ●             | 0.6-15.2                      | 0.8-5.6              | 0.9-4.0 | ●             | ●       | ●       |         |               | 3                |
|         | <b>NA-4</b>             |         |            | ●             | Subject to arc voltage used   | 0.8-5.6              | -       |               |         |         | ●       |               | 3                |
|         | <b>NA-5</b>             | ●       | ●          | ●             | 0.6-19.7                      | 0.9-5.6              | 1.2-4.0 | ●             | ●       | ●       |         |               | 3                |
|         | <b>LT-7</b>             |         |            | ●             | 2.5-10.2                      | 2.4-4.8              | -       | ●             | ●       |         |         |               | 3                |

KEY: ● Excellent ● Good ● Optional

## MAXsa™ 10 controller & MAXsa™ 22 Feed Head

*ArcLink® controller for Power Wave® AC/DC 1000® SD system*

The MAXsa™ 10 eliminates the need for a separate AC and DC controller, making this powerful hard automation system controllable, adaptable and easy to use. The user-friendly control panel offers a single-point of control over the entire welding cell.

**Processes**  
Submerged Arc



**Output**



**Input**



**Recommended Power Source**  
Power Wave® AC/DC 1000® SD

**Order**

K2814-1  
K2370-1

MAXsa™ 10 controller  
MAXsa™ 22 Feed Head  
(includes flux hopper)

- **Process controller** - Provides clear dual digital display of set-up and weld modes, eight memories, AC controls, strike/start/end options, travel stop/start, and timers.
- **Lincoln's Waveform Control Technology®** Offers the ability to select the right waveform for each application.
- **Severe Duty** - Can be stored outdoors.
- **User-Friendly Controls** – Can be adjusted on-the-fly to change welding parameters within the same welding mode.
- **Travel Carriage Available** - For easy attachment to standard I-Beams.
- **Controller with Digital Meters** - Save procedures, apply procedure limits, and lockout any or all controls.
- **Controller** - Can be hand-held and extended with ArcLink® cable.
- **Meet IEC974-1 and CE standards** for safety and reliability.



| Product Name | Product Number | Input Power | Wire Feed Speed (m/min) | Wire Size Range Range (mm) Solid | Dimensions H x W x D (mm) | Net Weight (kg) |
|--------------|----------------|-------------|-------------------------|----------------------------------|---------------------------|-----------------|
| MAXsa™ 10    | K2814-1        | 40VDC       | 0,25-5,08               | 4,0-5,6                          | 381 x 259 x 102           | 25              |
| MAXsa™ 22    | K2370-1        |             |                         |                                  |                           | 80              |

## NA-3, NA-4, NA-5

### Automatic welding systems

Improve productivity with the NA-3, NA-4 or NA-5 automatic wire feeders. These systems have been specially designed to deposit more weld metal at faster travel speeds which eliminates bottlenecks and cuts costs. Used for heavy duty fabrication and assembly line production, these units feature solid state controls for precise control of welding procedures – even to the most exacting requirements. Trust Lincoln automatic welding systems for worry-free operation!

- **Solid state controls allow for precise control of welding procedures**, striking characteristics, as well as bead size and shape.
- **Easily adjusted for a wide range of processes**, feed speeds, and wire sizes.
- **Compact units** with excellent flexibility to fit into simple fixtures or the most complex automated production lines.
- **Rugged construction** Minimises downtime and maintenance costs.
- **Meet IEC974-1 and CE** standards for safety and reliability.

#### Processes

MIG, Flux-Cored, Submerged Arc

#### Output



#### Input



#### Order

K210-2

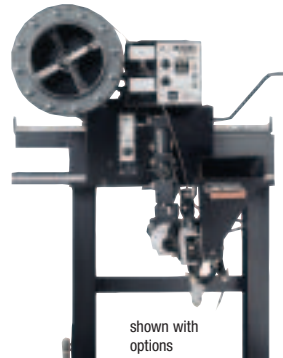
Control box NA3-S/NA3-SF

K388-2

Control box NA-4/NA-4F

K356-2

Control box NA-5



shown with options

| Product Name | Wire Feed Speed Range (m/min) | Wire Size Range - (mm) |         |
|--------------|-------------------------------|------------------------|---------|
|              |                               | Solid                  | Cored   |
| NA-3         | 0.6-16.5                      | 1.6-5.6                | 0.9-4.0 |
| NA-4         | subject to arc voltage used   | 1.6-5.6                | -----   |
| NA-5         | 0.6-16.5                      | 0.9-5.6                | 1.2-4.0 |

## Cruiser® Tractor

*For the long haul*



The Cruiser® is a flexible wire feeding tractor for heavy plate submerged arc welding in field and yard applications. Designed for big joints on big jobs.

Weld butt joints and fillet joints at deposition rates up to 25kg/hr. Comes ready to weld with joint tracking kits and drive rolls for 4mm solid wire.

- **Designed for welding big joints on big jobs** - Ideal for welding heavy plate on barges, ships, large tanks, bridges, and offshore platforms.
- **High deposition rates up to 25Kg/hour** - Rated output of 1000A at 100% duty cycle.
- **Versatile travel capabilities** - 3 or 4 wheel configuration for use with or without a track.
- **Lightweight pendant control with digital meters** – Save procedures, apply procedure limits, and lockout any or all controls.
- **Rugged mast and arm** – Keeps the wire drive in a steady position and allows flexible adjustment..
- **Meet IEC974-1 and CE standards** for safety and reliability.

### Processes

Submerged Arc

### Output



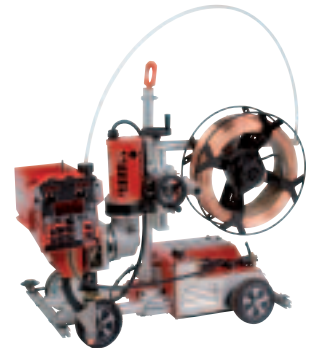
### Input



### Order

K2607-1

Cruiser® Tractor



| Product Name     | Product Number | Input Power | Wire Feed Speed Range (m/min) | Wire Size Range Range Solid (mm) | Dimensions H x W x D (mm) | Net Weight (kg) |
|------------------|----------------|-------------|-------------------------------|----------------------------------|---------------------------|-----------------|
| Cruiser® Tractor | K2607-1        | 40 VDC      | 0.4 - 5.0                     | 1.6 - 5.6                        | 737 x 584 x 914           | 63,5            |

## LT-7 Tractor

### Submerged Arc DC Wire Feeder

The LT-7 Tractor is a self-propelled mechanized wire feeder, designed for the submerged arc process with track system capabilities. It is self-guiding and easy to operate—only one operator is usually required.

#### Processes

MIG, Flux-Cored, Submerged Arc

#### Output



#### Input

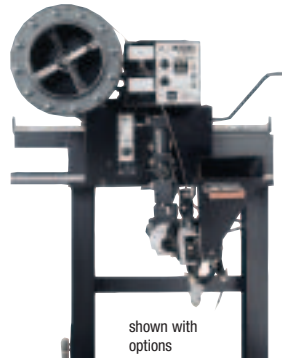


#### Order

K395-2

LT-7

- **Feeds 2.4-4.8 mm) solid wires**, from 2.5-10.2 m/min) wire feed speed.
- **Calibrated tractor drive**, adjusts travel speeds 0.12-1.8 m/min.
- **Vertical head lift adjuster** for adjusting electrical stick-out from 12.7-127.0 mm.
- **Weld angle is up to 50° from vertical** on either side; drag angle is up to 30° from vertical.
- **Control box can be mounted either left or right**, eliminating the need to return to the power source for routine procedure changes.
- **Welds butts, horizontal fillet and lap joints** to the left or right side of the tractor frame for convenience.
- **Meet IEC974-1 and CE standards** for safety and reliability.



shown with options

| Product Name | Product Number | Input Power | Wire Feed Speed Range (m/min) | Wire Size Range Solid (mm) | Dimensions H x W x D (mm) | Net Weight (kg) |
|--------------|----------------|-------------|-------------------------------|----------------------------|---------------------------|-----------------|
| LT-7         | K395-2         | 115 VAC     | 2.5 - 10.2                    | 2.4 - 4.8                  | 698 x 838x 356            | 54              |

# Automatic Wire Feeders : options & accessories

## GENERAL ACCESSORIES



### VERTICAL HEAD ADJUSTER

Provides 102 mm hand crank adjustment of vertical head position.

Item n° : **K29**



### HORIZONTAL HEAD ADJUSTER

Provides crank adjustment of head position. Has 51 mm horizontal travel.

Item n° : **K96**



### MAGNETIC FLUX SCREEN SEPARATOR

For submerged arc welding. Removes foreign magnetic particles from reused flux.

Item n° : **K58**



### TRAVEL CARRIAGES

TC-3 High Capacity Travel Carriage, Multiple Heads & Controls (NA-5)

Item n° :

**K325HCS** 0,1-1,9 m/min

**K325HCF** 0,4-6,9 m/min



### ANALOG INTERFACE PROCEDURE CONTROL

Optional control box designed to mount and connect to NA-5 automatic controls (above code 8300) and the NA-5R.

Item n° : **K373**

(NA-5 only)



### WELD TIMER MODULES

Permits setting of weld time for an adjustable period of time. Eliminates need to press stop button (NA-5 only).

Item n° :

**K337-10** (max. time 9.9 seconds)

**K337-100** (max. time 99.9 seconds)



### AUTOMATIC FLUX HOPPER ASSEMBLY with electric flux valve

Item n° : **K219**



### Remote Interface Module

Permits remote operation of the NA-5 inch up, inch down, start and stop functions by either of the following supplied external signals and provides electrical isolation of the NA-5 control circuit

Item n° : **K336**



### START OR CRATER MODULE

Permits additional settings of wire feed speed and voltage for an adjustable period of time (10 sec. max.)

Item n° : **K334**



### CRATER FILL CONTROLS P.C. BOARD

Adjusts the finishing current and voltage higher or lower than welding procedures for an adjustable period of time as needed to control bead size or fill craters at the end of the weld.

Item n° : **K245**

(NA-3/NA-4 only)



### START CONTROLS P.C. BOARD

Adjusts starting current and voltage higher or lower than welding procedures for an adjustable period of time as needed to control penetration, bead size or other factors at the start.

Item n° : **K221**

(NA-3/NA-4 only)

## WIRE ADAPTORS



### SPINDLE ADAPTOR FOR READI-REELS® AND SPOOLS

For fixture and other custom installations. Features 51mm O.D. spindle for mounting Readi- Reels and 51mm I.D. spools up to 27.2 kg capacity.

Item n° : **K162-1**



**WIRE REEL ASSEMBLY** to accommodate 22.7 kg or 27.2 kg coils of wire on automatic wire feeders. Includes a wire reel mounting spindle and braking system.

Item n° : **K299**



### SPREADARC™ OSCILLATOR

Designed to oscillate an automatic welding head for continuous welding at high duty cycles

Item n° : **K278-1**

## CONTACT NOZZLES

### CONTACT NOZZLE ASSEMBLY

Operates at currents generally below 600 A

- Item n° :
- K231-3/32** (2.4 mm wire)
  - K231-1/8** (3.2 mm wire)
  - K231-5/32** (4.0 mm wire)
  - K231-3/16** (4.8 mm wire)



### POSITIVE CONTACT NOZZLE ASSEMBLY

For welding at high currents

- Item n° :
- K148A** (2.4-3.2 mm wire)
  - K148B** (4.0-4.8 mm wire)



### LINC-FILL LONG STICKOUT EXTENSION

Linc-Fill long stickout extension for K148A. Required for long stickout technique

- Item n° :
- K149-3/32** (2.4 mm wire)
  - K149-1/8** (3.2 mm wire)
  - K149-5/32** (4.0 mm wire)



### NARROW GAP DEEP GROOVE NOZZLE

For 2.4 m diameter wire welding on thick walled steel plate with nearly parallel-sided, narrow gap joint preparation

- Item n° : **K386**



### TINY TWINARC KIT

Feeds two 1.2 or 1.6 mm electrodes for high speed submerged arc welds on 14 gauge (1.89 mm) to heavy plate.

- Item n° :
- K129-1/16** (1.6 mm wire)
  - K129-5/64** (2.0 mm wire)
  - K129-3/32** (2.4 mm wire)



### TWINARC NOZZLE

Feeds two 2.0 mm, 2.4 mm or (3.2 mm wires for submerged arc welding on "Fast-Fill" joints or hardfacing bead

- Item n° : **K225**



### CONCENTRIC FLUX CONE ASSEMBLY

For use with K148, K129 nozzles. Gives concentric flux coverage around the electrode

- Item n° : **K285**  
(for use with K129)



### TINY TWINARC® SOLID WIRE

Straightens wire diameters 1.2 through 2.4 mm. Particularly valuable on longer electrical stickout procedure

- Item n° : **K281**



## INTERCONNECTION CABLES

Extension for standard control to head cable. For K208.

- Item n° : **K235-xM**  
3m or 5m



ArcLink control cable. For Cruiser Tractor.

- Item n° : **K1543-xM**



## TUBE & CLAMP KIT

Extension for standard control to head cable. For Cruiser Tractor.

- Item n° : **K2716-1**



# Engine Drives

## INDUSTRIAL

- World's Most Respected Pipe Welders
- Built Tough for Extreme Environments
- More Amperage for Thicker Materials
- Strong Arc Gouging Capability



| MODEL               | OUTPUT |          |  |                                  | PROCESS |      |                    |     |            |             |                  |
|---------------------|--------|----------|--|----------------------------------|---------|------|--------------------|-----|------------|-------------|------------------|
|                     | Mode   | Polarity | Current Range (Amps)                               | AC Generator Power Range (Watts) | Stick   | Pipe | DC TIG Touch-Start | MIG | Flux-Cored | Arc gouging | Warranty (years) |
| <b>Ranger® 305D</b> | CC/CV  | DC       | <b>20-305 DC<br/>40-300 Pipe<br/>20-250 DC TIG</b> | <b>8000</b>                      | ●       | ●    | ●                  | ●   | ●          | ●           | <b>3</b>         |
| <b>Vantage® 400</b> | CC/CV  | DC       | <b>30-500 DC<br/>40-300 Pipe<br/>20-250 DC TIG</b> | <b>13200</b>                     | ●       | ●    | ●                  | ●   | ●          | ●           | <b>3</b>         |
| <b>Vantage® 500</b> | CC/CV  | DC       | <b>30-575 DC<br/>40-300 Pipe<br/>20-250 DC TIG</b> | <b>14500</b>                     | ●       | ●    | ●                  | ●   | ●          | ●           | <b>3</b>         |

KEY: ● Excellent ● Good ● Optional

## Ranger® 305D

### 300A DC diesel engine driven welder

The Ranger® 305 D CE is a powerful 300-Amp DC multi-process diesel engine driven welder. It provides Excellent arc characteristics in Stick (Conventional or Pipe), TIG, MIG or Arc Gouging. This Ranger is totally enclosed to protect the 45 litre fuel tank, water cooled Kubota 18.8 HP D722 diesel engine. Delivering 8000 Continuous (8500 peak) watts of 115V AC generator power it is obvious this was designed for welding professionals with high demands.

- **Excellent DC multi-process welding** for general purpose stick, downhill pipe (stick), TIG, cored-wire, MIG (100% CO<sub>2</sub> and blended gas) and arc gouging with up to 4.8 mm carbons.
- **Fully enclosed stainless steel case** for quipment protection and low noise.
- **Lincoln's® Chopper Technology®** provides easy starts, a smooth arc, low spatter and excellent bead appearance.
- **A portable powerhouse**—delivers 8,500 peak (8,000 continuous) watts of 115/230/400V 50Hz AC generator power). Enough power to run lights, tools, or pumps and weld all at the same time!
- **Arc force control** provides a soft or more forceful digging arc.
- **Built-in "hot" start** for easier starts and restrikes.
- **Touch-Start DC TIG®**—Lift tungsten to start the arc.
- **Digital meters** for amps and volts output make it easy to precisely set your procedures. Fuel gauge, engine protection light for oil pressure and engine temperature keep you on top of monitoring engine performance.
- **Meet IEC974-1 and CE standards** for safety and reliability.

#### Processes

Stick, TIG, MIG, Flux-Cored, Gouging

#### Output



#### Input



#### Order

K2279-3

Ranger® 305D



| Product Name | Product number | Rated Output Current/Voltage/Duty Cycle | Output Range                             | Type of Engine     | No. of Cyl. | HP & Speed (rpm)   | Dimensions H x W x D (mm) | Net Weight (kg) |
|--------------|----------------|---|--|--------------------|-------------|--------------------|---------------------------|-----------------|
| Ranger® 305D | K2279-3        | 250A/30V/100%                           | 40-300A Pipe<br>20-250A TIG<br>14-29V CV | Kubota D722 Diesel | 3           | 8KW @ 100%<br>3000 | 909 x 546 x 1327          | 341             |

## Vantage® 400 CE & Vantage® 500 CE

*Compact, multi-process, excellent value*

The Vantage® 400 CE and 500 CE are one of the most compact and powerful engine-driven welders / generators in the construction, pipe or rental fleet market today. They are also the most quiet, with a smooth running 4-cylinder Perkins® water-cooled diesel engines.

Use these multi-process welders for Stick welding with a large variety of electrodes, Lift TIG welding, CV welding with shielding gas or Innershield wires, and arc gouge up to 8 mm carbons for Vantage 400 and 10 mm carbons for Vantage 500.

You will value the superior arc performance delivered by exclusive Lincoln Chopper Technology.

You will also appreciate VRD™ (Voltage Reduction Device™), which reduces OCV (open circuit voltage) in the CC-Stick weld mode for added safety.

- **Compact case** with stainless steel enclosure
- **Arc gouging** up to 8mm (VANTAGE 400) & 10mm (VANTAGE 500)
- **Downhill pipe welding mode.** Excellent for cellulosic electrodes
- **Built-in “hot start”** for easier starts and restrikes
- **Plenty of AC 50 Hz generator power** : 3-phase 400V / 1 phase 220V / 1 phase 115V
- **Reliable engine 4 cylinder**, water cooled, 1500rpm Perkins Diesel engine
- **Innovative Service Access**
- **Stainless steel enclosure** delivers added protection and durability
- **Low noise** to fit with new European norms.
- **Meet IEC974-1 and CE** standards for safety and reliability.

### Processes

Stick, TIG, MIG, Flux-Cored, Gouging

### Output



### Input



### Order

K2502-3

VANTAGE 400 CE

K2503-3

VANTAGE 500 CE



| Product Name | Product number | Rated Output Current/Voltage/Duty Cycle | Output Range | Type of Engine               | HP & Speed (rpm) | Dimensions H x W x D (mm) | Net Weight (kg)  | No. of Cyl. |
|--------------|----------------|---|--------------|------------------------------|------------------|---------------------------|------------------|-------------|
| VANTAGE 400  | K2502-3        | 350A/34V/100%<br>400A/30V/60%           | 30-400 DC    | Diesel Perkins 404D-22       | 4                | 28CV @1500                | 913 x 642 x 1524 | 560         |
| VANTAGE 500  | K2503-3        | 400A/36V/100%<br>450A/38V/60%           | 30-500 DC    | Diesel Perkins 404D-22 TURBO | 4                | 38CV @1500                | 913 x 687 x 1590 | 586         |

## **UNDERCARRIAGE**



### **LARGE FOUR-WHEEL YARD TRAILER**

For in-plant and yard towing.  
Trailer with Lunette Eye Hitch for Vantage 400 & Vantage 500

Item n° :                **K2641-2**

## **SECURITY KITS**



### **SPARK ARRESTOR KIT**

Attaches to muffler exhaust tube. Virtually eliminates spark emissions.

Item n° :                **K903-1**

for Vantage 400 & Vantage 500

## **REMOTE CONTROLS**



1 potentiometer, 6 pins, 15m

Item n° :                **K10195-1-15M**

Extension cable

Item n° :                **K10398**



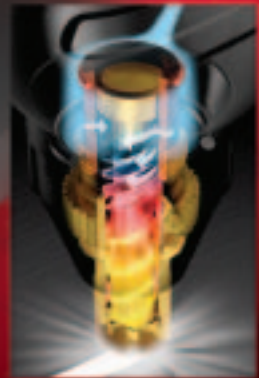
**CT** **CHOPPER TECHNOLOGY®**

# Plasma cutting Systems

# Plasma

## CUTTING SYSTEMS

- Cut Any Conductive Material
- Fast, Clean Cutting Compared to Oxy-Fuel
- Great for Hobby, Farm, Autobody or Industry



|      | MODEL                   | OUTPUT |          |                      | PROCESS                |     |           | Warranty (years) |        |
|------|-------------------------|--------|----------|----------------------|------------------------|-----|-----------|------------------|--------|
|      |                         | Mode   | Polarity | Current Range (Amps) | Cutting thickness (mm) | Cut | Arc Gouge |                  | Pierce |
| 1-Ph | <i>Invertec® PC-208</i> | CC     | DC       | 10-25                | 8                      | ●   | ●         | ●                | 2      |
|      | <i>Invertec® PC-210</i> | CC     | DC       | 10-25                | 10                     | ●   | ●         | ●                | 2      |
| 3-Ph | <i>Tomahawk™ 1025</i>   | CC     | DC       | 25-60                | 20                     | ●   | ●         | ●                | 3      |
|      | <i>Tomahawk™ 1535</i>   | CC     | DC       | 35-100               | 30                     | ●   | ●         | ●                | 3      |

KEY: ● Excellent    ● Good    ● Optional

## Invertec® PC-208 & PC-210

Portable cutting power up to 9 mm

The Plasma PC208 and PC210 are the most flexible plasma cutting machines you could envisage. The units arrive ready to go, able to cut fast and precisely. Powered from a standard 230V input supply, these machines are ideal for work on site. With the PC208 and PC210 cutting need no longer be a problem, forget the grinder, simply take the torch and cut in seconds.

These inverter based machines are equipped with an integrated air compressor. This provides maximum flexibility without the need for a separate compressed air supply. And, with a weight of only 18,5 KG combined with their small size, these versatile machines can be used anywhere, anytime.

PC210 can be used with an external compressor.

- **Flexible** : only 230V input required
- **High performance** : Innovative advanced electrode and nozzle design.
- **Robust** : long life compressor.
- **Portable** : Only 18KG, small and compact.
- **Flexible** : Multiple torch configurations
- **Different materials** : Mild steel, Stainless Steel, Aluminium and many more.
- **Concentrated Plasma stream** : Less heat input, less distortion.
- **Meet IEC974-1, ROHS and CE standards** for safety and reliability.

### Processes

Air plasma cutting, gouging

### Output



### Input



### Base Unit Includes

2m-input cable, 3m-hand cutting torch, Ground clamp and cable, Air connection kit, Cutting torch consumables kit.

### Order

K12037-1 Invertec® PC-208

K12038-1 Invertec® PC-210



| Product Name | Product Number | Input Power | Rated Output Current/Voltage/Duty Cycle | Cutting Capacity (mm) | Flow Rate                | Inlet Pressure | Output Range | Dimensions H x W x D (mm) | Net Weight (kg) |
|--------------|----------------|-------------|---|-----------------------|--------------------------|----------------|--------------|---------------------------|-----------------|
| PC 208       | K12037-1       | 230/1/50-60 | 25A/90V/35%                             | 12                    | 80l/min+/-20%<br>@5,0bar | 6,0 bar        | 10-25 A      | 385 x 215 x 480           | 18,5            |
| PC 210       | K12038-1       |             | 20A/88V/60%                             |                       |                          |                |              |                           |                 |

## Tomahawk™ 1025 & 1535

### High Performance Plasma Cutting

The new Lincoln concept for Plasma cutting is focussing on three elements:

**S** An innovative and patented striking system saves the electrode tip and extends its lifetime.

**P** Circular enhancements with increased radius airflows and innovative electrode/nozzle design concentrate the plasma stream.

**L** The internal cooled electrode and torch head and electrode/nozzle design considerably increase their lifetime.

- **Starting** : Innovative advanced arc starting without HF.
- **Performance** : Innovative advanced electrode and nozzle design.
- **Lifetime** : Innovative advanced design increases lifetime of consumables.
- **Faster** : Higher travel speeds and plate thickness.
- **Flexible** : Multiple torch configurations
- **Different materials** : Mild steel, Stainless Steel, Aluminium and many more.
- **Concentrated Plasma stream** : Less heat input, less distortion.
- **Meet IEC974-1, ROHS and CE standards** for safety and reliability.

#### Processes

Air plasma cutting, gouging

#### Output



#### Input



#### Base Unit Includes

3m-input cable, 7.5m-hand cutting torch, Ground clamp and cable, Air connection kit, Cutting torch consumables kit.

#### Order

K12048-1 Tomahawk™ 1025  
K12049-1 Tomahawk™ 1535



| Product Name | Product Number | Input Power | Rated Output Current/Duty Cycle | Cutting Capacity (mm) | Flow Rate                 | Inlet Pressure | Output Range | Dimensions H x W x D (mm) | Net Weight (kg) |
|--------------|----------------|-------------|---------------------------------|-----------------------|---------------------------|----------------|--------------|---------------------------|-----------------|
| TH 1025      | K12048-1       | 400/3/50-60 | 60A/40%<br>40A/100%             | 25                    | 130l/min+/-20%<br>@5,0bar | 6,0 bar        | 20-60 A      | 389 x 247 x 489           | 22              |
| TH 1535      | K12049-1       | 400/3/50-60 | 100A/40%<br>60A/100%            | 35                    | 180l/min+/-20%<br>@5,0bar | 7,5bar         | 30-100A      | 455 x 301 x 618           | 36              |



## **CUTTING CIRCLES**

Item n° : **W0300699A**  
for LC40, LC60, LC65 and LC105

## **UNDERCARRIAGES**



2-wheeled cart, delivered as a kit, for use with PC208, PC210

Item n° : **W0200002**

## **TORCHES**

Hand torches TH1025

PTH-061A-CX-7M5A LC65, 7,5m

PTH-061A-CX-7M15A LC65, 15m

Automatic torches TH1025

PTM-061A-CX-7M5A LC65M, 7,5m

PTM-061A-CX-7M15A LC65M, 15m

Hand torches TH1535

PTH-101A-CX-7M5A LC105, 7,5m

PTH-101A-CX-7M15A LC105, 15m

Automatic torches TH1535

PTM-101A-CX-7M5A LC105M, 7,5m

PTM-101A-CX-7M15A LC105M, 15m



# Environmental Systems

- Reduces Welding Dust and Fume In The Workplace
- Helps Meet The Latest OSHA Requirements
- Portable, Wall Mounted or Shop-Wide Systems

|            | MODEL                    | PROCESS |     |     |            | FILTER        |      | FEATURES |                   |                        |                   |                 |
|------------|--------------------------|---------|-----|-----|------------|---------------|------|----------|-------------------|------------------------|-------------------|-----------------|
|            |                          | Stick   | MIG | TIG | Flux-Cored | System        | Size | Mobile   | Start/stop sensor | Filter indicator gauge | Single arm system | Dual arm system |
| Mobile     | <b>Miniflex™</b>         | ●       | ●   | ●   | ●          | Disposable    | 12m² | ●        | ●                 |                        | ●                 |                 |
|            | <b>Mobiflex™ 200-M</b>   | ●       | ●   | ●   | ●          | Disposable    | 50m² | ●        | ●                 | ●                      | ●                 |                 |
|            | <b>Mobiflex™ 400-MS</b>  | ●       | ●   | ●   | ●          | Self-cleaning | 30m² | ●        | ●                 | ●                      | ●                 |                 |
| Wall mount | <b>Statiflex™ 200-M</b>  | ●       | ●   | ●   | ●          | Disposable    | 50m² |          | ●                 | ●                      | ●                 | ●               |
|            | <b>Statiflex™ 400-MS</b> | ●       | ●   | ●   | ●          | Self-cleaning | 30m² |          | ●                 | ●                      | ●                 |                 |

KEY: ● Excellent ● Good ● Optional

## Statiflex & Mobiflex

ProSource LV™ extraction arms position easily to provide high air flow extraction for a variety of applications. These 203mm diameter arms and maintenance saving filter systems combine the finest features in the industry with the best value. The lightweight arms position easily and hold their place without drifting. Versatility is a plus with the 360° rotatable hood, which can be fitted with a lamp kit and an arc sensor that activates the fan when sensing the arc flash. 3.0m or 3.9m arms are available for both mobile and wall mounted systems.

### LFA3.1 and LFA4.1 Arms

- **Spring balanced** for easy positioning.
- **3 & 4 meter** lengths.
- **360 degree** rotatable hood.

### Mobiflex/Statiflex 200M and 400-MS

- **Generous 735 CFM airflow** with LFA 3.1/4.1 extraction arm.
- **Filter efficiency** up to 99.8%.
- **50/30 m2 LongLife® filter** with ExtraCoat® pretreatment.



- **Electronic filter pressure system** monitors internal static pressure and controls filter cleaning.
- **Indicator light** for saturated filter.
- **RotaPulse® automatic filter cleaning system.**
- **Internal aluminium mesh spark arrester.**

## Miniflex™

### Portable welding fume extractor

Lincoln Electric's® Miniflex™ is a portable, high vacuum, low volume system specifically designed for the removal and filtration of welding fumes. With light duty welding process, the Miniflex™ excels in performance, design and ease of handling. It can be used in confined spaces and other locations that are not accessible with other welding fume extractors.

- **Well thought-out**, user-friendly design.
- **Four-stage filtration system** with a 99.7% efficiency.
- **LongLife-H™ filter technique** separates and retains small particles for maximum efficiency.
- **Final filter: HEPA H12 Class.**
- **Two powerful motors:** 1.2 hp each.
- **Multiple extraction capacity settings:**
  - Low: 94 CFM.
  - High: 135 CFM.
- **Cable sensor allows** automatic start/stop capability.
- **Low noise level:** 70dB(A) with nozzle extraction installed.

### Processes

Stick, TIG, MIG, Flux-cored

### Input



### Order

7603001700 Miniflex™



# Auto-Darkening welding helmets

*Comfortable protection and perfect vision*

Auto-darkening Linc Screen® helmets are all designed to combine safety with a variety of features suitable for each kind of welding method.

The Linc Screen® range begins with the basic LS model, which is ideal for Stick, TIG and MIG welding. A large control located on the exterior of the helmet allows easy adjustment of the shade from 9 to 13 DIN.

The Linc Screen® Smart model provides the same features as the basic Linc Screen® model but all three controls are placed on the filter and are better protected from heavy industrial conditions. An additional independent sensor improves auto-darkening action.

Linc Screen® Pro is the most advanced and is equipped with even more features. It is convenient for all welding including TIG Pulse, Plasma Cutting and Plasma Welding. Two special settings support grinding and gas cutting as well. The filter installed on the Linc Screen® Pro is one of the fastest on the market, with a reaction time of only 0,04ms. With a large viewing area (96x67mm) the welder can see much more than other typical helmets on the market.

## Order

|          |                    |
|----------|--------------------|
| K10550-3 | Linc Screen®       |
| K10550-4 | Linc Screen® Smart |
| K10550-9 | Linc Screen® Pro   |





### PRODUCT CENTER

The most comprehensive on-line welding catalog, at your fingertips!

- Powerful browse and search capabilities allow you to find the product that best suits your needs.
- Links to literature, images, options and accessories.



### ACCOUNT CENTER

Fast and easy access to all the information you need about your Lincoln Electric account!

- You will have access to invoices, payment history and open items as well as pricing and inventory.
- Search for your purchase order using your PO number or track all your pending orders.
- Shipment tracking is only a click away!



### MARKETING CENTER

Be up to date and get access to marketing materials!

- View, download or print all of our product literature and photographs.

#### **CUSTOMER ASSISTANCE POLICY**

The business of Lincoln Electric Europe is manufacturing and selling high quality welding equipment, consumables and cutting equipment. Our challenge is to meet the needs of the customer and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for advice or information about their use of our products. We respond to our customers based on the best information in our possession at that time. Lincoln Electric is not in a position to warrant or guarantee such advice and assumes no responsibility, with respect to such information or advice. We expressly disclaim any warranty of any kind, including any warranty of fitness for any customer's particular purpose, with respect to such information or advice. As a matter of practical consideration, we also cannot assume any responsibility for updating or correcting any such information or advice once it has been given, nor does the provision of information or advice create, expand or alter any warranty with respect to the sale of our products.

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.



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