

Lincoln Electric Europe

Equipment Catalogue



LINCOLN[®]
ELECTRIC

Why to buy Lincoln Electric ?

The Lincoln Electric Company













- **is** one of the largest manufacturers of welding consumables and equipment in Europe.
- has been manufacturing in Europe **for more than 75 years.**
- **has** 17 sales offices across Europe and more than 1500 people working to satisfy its Customers.
- **offers complete welding solutions**
 - full line of stick electrodes, TIG, MIG/MAG, metal- and flux-cored wires as well as submerged arc consumables for carbon and low alloy steel, stainless steel, hardfacing, cast iron and non-ferrous applications.
 - equipment that reflects the latest industry developments including stick welders, TIG welders, CV MIG welders, CC/CV multiprocess welders, plasma cutting, engine driven welders, wire feeders, robotic/automation systems, accessories, and environmental systems.
 - welding procedures for industry
 - base and advanced welding trainings

To learn more, visit www.lincolnelectric.eu

Ask Lincoln, The Welding Experts®





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Using this Catalogue

Catalogue Section

Identifies Catalogue section for easy-to-find products.

Opening Paragraph

This is a general description of the product. It may also include features and applications.

Advantage Lincoln

This section highlights the key features and benefits of the product.

Stick Welders

Inverter V270-S

Powerful portability, robust reliability

The Inverter[®] V270-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.

- Excellent arc characteristics.
- Maximum output of 270 amps allows the use of electrodes up to 5.0 mm.
- Excellent stick rattle, basic and cellular welding performance.
- Adjustable "Arc Force" and "Hot Star" 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.
- Meets IEC60974-1, RDSHS and CE standards for safety and reliability.


Processes
Stick, LIFT TIG

Output

Input

Base Unit Includes
One-input cable, Carrying strap.

Order
K12022-1 Inverter[®] V270-S
K12022-3 Inverter[®] V270-S-2V



Product Name	Product Range	Rated Output (RDSHS)	Rated Output (RDSHS) (RMS)	Phase	Output Input	Input/Phase	Max. Weight (kg)
V270-S	K12022-1	470/3/0-60	270/3/0-60/270/3/0-60	3PH	5 270/0	230 V 1.2/15 x 4/0	13.5
V270-S-2V	K12022-3	230/400/3/0-60	230/400/3/0-60	3 PH	5 270/0	230 V 1.2/15 x 4/0	13.5

www.lincolnelectric.eu

Product Name
Official Lincoln product name.

Input & Output Icons
See below for descriptions.

Ordering
To order, select the product number that best fits your welding needs.

Product Picture
Detailed photo of Lincoln products.

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

Choose Lincoln® Stick Welders For:

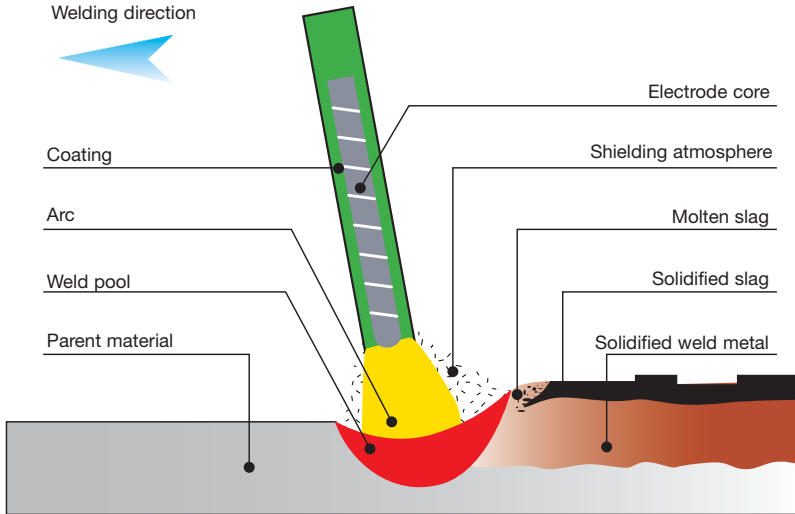
- Weld a Wide Range of Materials and Thicknesses
- Conventional or Inverter Models

	MODEL	OUTPUT		CURRENT RANGE (Amps)	INPUT Voltage (V)	PROCESS				FEATURES					
		Mode	Polarity			Stick	Lift TIG	TIG Scratch	Arc Gauge	115/230 Volt Auto-Sensing	Hot Start	Arc Force	Meters	Warranty (years)	
1-Phase Inverters	<i>Handy Stick</i>	CC	DC	5-130	230	●								1	
	<i>Inverterc® V145-S</i>	CC	DC	5-145	230	●	●				●	●		2	
	<i>Inverterc® V160-S</i>	CC	DC	5-160	230	●	●				●	●		2	
	<i>Inverterc® V160-S-2V</i>	CC	DC	5-160	115/230	●	●				●	●		2	
	<i>Inverterc® V205-S</i>	CC	DC	5-200	230/400	●	●				●	●	●	●	2
3-Phase Inverters	<i>Inverterc® V270-S</i>	CC	DC	5-270	400	●	●				●	●	●	2	
	<i>Inverterc® V270-S-2V</i>	CC	DC	5-270	230/400	●	●				●	●	●	●	2
	<i>Inverterc® V405-S</i>	CC	DC	5-400	400	●	●		○		●	●	●	●	2
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

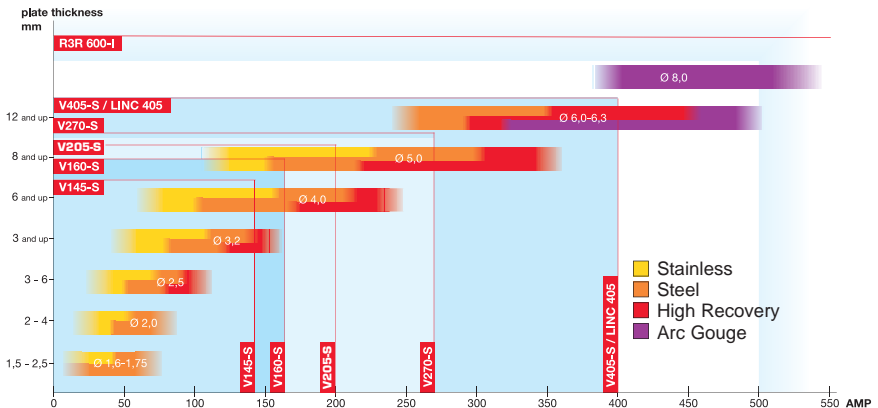
SMAW Process

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



Handy Stick

You cannot get more portable than this !

NEW!

- **Excellent arc characteristics** for Rutile and Basic
- **Small and powerful.** Only 4,5kg
- **Ready to weld.** Cable set included
- **Meet IEC974-1, ROHS and CE** standards for safety and reliability.

Processes

Stick

Output



Input



Base Unit Includes

5m-input cable, work lead and cable 2m, electrode holder and cable 5m

Order

K10421-1 HANDY STICK

Ø(mm)	2,0	2,5	3,2
Basic	X	X	X
Rutile	X	X	X



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)
HANDY STICK	K10421-1	230/1/50-60	130A/35%	16A	5-130 A	320 x 200 x 430	4,5

Invertec® V145-S

You cannot get more portable than this !

Welding arc behaviour has never reached such high levels of smoothness and consistency. The Invertec® V145-S offers much more than you would expect from a welder of its size.

Through Lincoln's unique 'Auto-adaptive Arc Force' feature the V145-S instantly adjusts the weld current to maximise arc stability, avoid sticking and minimise spatter.

Another unique feature of this machine is the ability to select either a Soft or Crisp arc welding mode.

- **Excellent arc characteristics** for Rutile, Basic and Cellulosic electrodes up to 4.0mm
- **Intelligent 'Auto Adaptive Arc Force'** to avoid sticking and minimise spatter.
- **Two stick modes, Soft and Crisp**, to select the right arc dynamics for the electrode type
- **Built in 'Hot Start'** for excellent arc striking
- **Lift TIG DC operation**, with excellent striking without tungsten contamination
- **Fan on demand (F.A.N.™)** built-in reduces power and the intake of dust and fumes.
- **230V/1ph (16A)** input power, long (60m) extension cable and power generator capability to connect anywhere
- **Ergonomic handle** and carrying strap as standard
- **Portable Package.** 'Ready to weld case' including electrode cable, ground cable, hand shield, chipping hammer and wire brush
- **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

- K12009-1 Invertec® V145-S
 K12009-1P Invertec® V145-S
 "Package"
 K12009-3 Invertec® V145-S - 12V



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)
V145-S	K12009-1	230V/1/50-60	145A/25,8V/35%	16A (slow)	5-145 A Max. OCv: 75V	288 x 158 x 392	6
	K12009-1P		105A/24,2V/100%			600 x 180 x 580 (suitcase)	11,7

Invertec® V160-S

Top arc quality in a small package

The Invertec® V160-S stick welder exhibits excellent arc control, for popular Rutile and Basic electrodes. It is a professional welder with built-in Hot Start and adjustable Arc Force supporting Stick Electrodes up to 4mm. Add an optional gas valve style TIG torch and you also have a very affordable DC Touch-Start TIG welding machine. Its input (115V/230V or 230V according to the model) combined with its rugged portable package makes it ideal for remote welding applications.

- **Provides wide range of operations** with welding range of 6-160 DC amps.
- **Excellent Rutile and Basic** welding performance.
- **Features** adjustable Arc Force control.
- **Advanced inverter technology** for superior arc performance.
- **Available in dual version model**, with auto-reconnect between 115/230V.
- **Features “Lift TIG”** with no tungsten contamination.
- **Line voltage compensation** enables use on remote power from an engine driven generator.
- **Thermal and voltage overload** protection.
- **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

K12016-1 Invertec® V160-S
230/1/50-60

K12016-3 Invertec® V160-S - 2V
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-S	K12016-1	230/1/50-60	160A/26,4V/35% 130A/25,2V/100%	16A	5-160 A Max. OCV: 48V	320 x 200 x 430	10,5
V160-S - 2V	K12016-3	115/230/1/50-60		32A / 16A			

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 allows to connect 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 - 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-S	K12019-1	230/400/1/50-60	200A/28V/35% 170A/26,8V/100%	35/20A (slow)	5-200 A Max. OCV: 48V	385 x 215 x 480	16,8

Invertec® V270-S

Powerful portability, robust reliability

The Invertec® V270-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.

- **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 **CC** **DC**

Input **3** **50/60**
PHASE Hz



Base Unit Includes

2m-input cable, Carrying strap.

Order

K12022-1 Invertec® V270-S

K12022-3 Invertec® V270-S - 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)
V270-S	K12022-1	400/3/50-60	270A/30,8V/35% 200A/28V/100%	20A	5-270 A Max. OCv: 48V	385 x 215 x 480	13,5
V270-S - 2V	K12022-3	230/400/3/50-60		35 / 20A			

Invertec® V405-S

Powerful portability, robust reliability

The Invertec® V405-S 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® 405-S has a solid industrial construction with the features of a professional Stick and Lift TIG welding machine capable of the toughest jobs.

Processes

Stick, Lift TIG, Gouging

Output **CC** **DC**

Input **3** **50/60**

PHASE Hz



Base Unit Includes

2m-input cable.

Order

K12025-1 Invertec® V405-S

- **Provides wide range of operations** with welding range of 5-400DC Amps.
- **Maximum output of 405 amps** allows the use of electrodes up to 6.3 mm.
- **Excellent** stick rutile, basic and cellulosic welding performance.
- **Infinitely variable** "Arc Force" and "Hot Start".
- **Full featured** and user-friendly control panel.
- **Fan on demand (F.A.N.™)** built-in reduces power and the intake of dust and fumes.
- **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.



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-S	K12025-1	400/3/50-60	400A/36V/35% 300A/32V/100%	30A	5-400 A Max. OCV: 48V	500 x 270 x 610	31

LINC 405-S & SA

The rugged and distinguished workhorse

The LINC 405 is an exceptionally rugged conventional stick welder built to be used under harsh environmental conditions. The unit is available in two versions, the basic LINC 405-S ready to support stick welding with all rutile, basic and cellulosic electrodes and the LINC 405-SA completed with all sophisticated features.

- **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 “freezing” the electrode in the welding puddle (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.

Processes

Stick, Lift TIG DC (-SA), Gouging

Output  

Input  



Base Unit Includes

5m-input cable

Order

K14002-2 LINC 405-S
K14002-1 LINC 405-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 & SA

Rugged with high output



The LINC 635 is an exceptionally rugged conventional stick rectifier built to be used under harsh environmental conditions. The unit is available in two versions, the basic LINC 635-S ready to support stick welding with all rutile, basic and cellulosic electrodes and the LINC 635-SA completed with all sophisticated features.

Processes

Stick, Lift TIG DC (-SA), Gouging

Output



Input



Base Unit Includes

5m-input cable

Order

K14038-2 LINC 635-S
K14038-1 LINC 635-SA

- **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 “freezing” the electrode in the welding puddle (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.



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 635-S	K14038-2	230/400/3/50-60	670A/44V/35%	100A (230V)	15-670 A	670 x 580 x 700	150
			500A/40V/60%	63A (400V)	Max. OCV: 78V		
LINC 635-SA	K14038-1		400A/36V/100%				

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)



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% 375A/35V/100%	103A	75-625A 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		Dimensions H x W x D (mm)	Net Weight (kg)
			Current/Voltage/ Duty Cycle	Output Range		
V350-PRO	K1728-12	200/220/380/415/440/3/50-60	350A/34V/60%-3ph 300A/32V/100%-3ph 320A/33V/60%-1ph 275A/31V/100%-1ph	5-425A 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 - 16mm² - 3m)

KIT-140A-25-5M (140A - 25mm² - 5m)

KIT-200A-25-3M (200A - 25mm² - 3m)

KIT-200A-35-5M (200A - 35mm² - 5m)

KIT-250A-35-5M (250A - 35mm² - 3m)

KIT-300A-50-5M (300A - 50mm² - 5m)

KIT-400A-70-5M (400A - 70mm² - 5m)



CABLE KITS (ground)

Item n° :

GRD-400A-70-5M (400A - 70mm² - 5m)

GRD-400A-70-10M (400A - 70mm² - 10m)

GRD-400A-70-15M (400A - 70mm² - 15m)

GRD-600A-95-10M (600A - 95mm² - 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 V160, V205, V270

Item n° : **W0200002**



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

Item n° : **W0200003**



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



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 mm² connector (V145S)

K10513-17-4VS LT17 GV, 4m

K10513-17-8VS LT17 GV, 8m

35-50 mm² connector (V160S, V270S, V405S)

K10513-17-4V LT17 GV, 4m

K10513-17-8V LT17 GV, 8m



TIG

WELDERS

Lincoln® TIG Welders Give You the Power to Perform!™

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

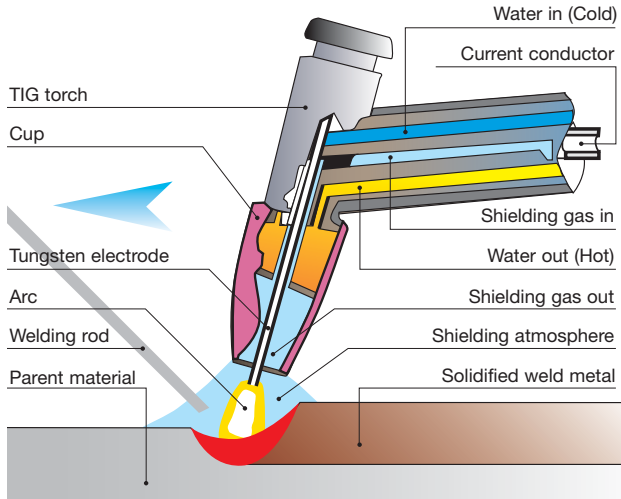
MICRO/START™ II
TECHNOLOGY

	MODEL	OUTPUT			INPUT Voltage (V)	PROCESS					FEATURES			
		Mode	Polarity	Current Range (Amps)		Stick	Lift TIG	TIG HF	TIG Pulse	Gouging	Auto-reconnect	HF Pulse	Variable AC freq.	Meters
1-Phase 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 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® V310-T AC/DC</i>	CC	AC/DC	30-310	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.

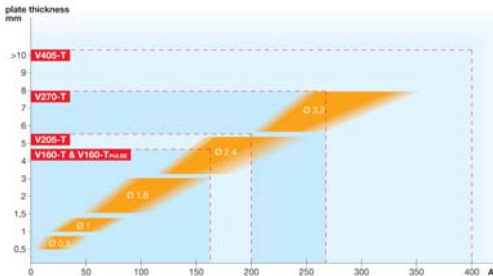
Arc ignition is achieved by touching the work piece with the electrode and lifting it by a few millimetres (contact ignition and lift ignition) or by using a high frequency voltage discharge, a gap of about 4 millimetres is maintained from the tungsten electrode and the work piece, high frequency spark 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:

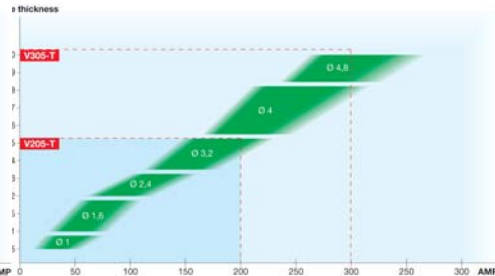
- DC (continuous) current is used with most metals (steel / stainless steel).
- AC (alternative) current is ideal for welding aluminium and other materials containing surface refractory oxide.

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 and 230V 50/60Hz operation make 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 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 **CC** **DC**

Input **1** **50/60**
PHASE Hz



Base Unit Includes

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

Order

K12017-1	Invertec® V160-T 230/1/50-60
K12017-3	Invertec® V160-T - 2V 115/230/1/50-60
K12018-1	Invertec® V160-TP 230/1/50-60
K12018-3	Invertec® V160-TP - 2V 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 V160-TP	K12017-1 K12018-1	230/1/50-60	160A/26,4V/35% 130A/25,2V/100%	16A	5-160A Max. OCv: 48V	320 x 200 x 430	10,5
V160-T-2V V160-TP-2V	K12017-3 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 **CC** **DC**

Input **1** **50/60**
PHASE Hz



Base Unit Includes

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

Order

K12021-1

Invertec® V205-T - 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% 170A/26,8V/100%	35/20A (slow)	5-200 A 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 it portable and ideal for operation, even in the most hazardous environments. The flexibility and generator compatibility of the V270-T & V270-T PULSE allows 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
400/3/50-60 |  |
| K12024-1 | Invertec® V270-TP
400/3/50-60 | |
| K12024-3 | Invertec® V270-TP - 2V
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 Max. OCV: 48V	385 x 215 x 480	13,5
V270-TP	K12024-1		200A/28V/100%				
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. It 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



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% 300A/32V/100%	30A	5-400 A Max. OCV: 48V	500 x 270 x 610	31

Inverterc® V205-T AC/DC

Code quality AC/DC TIG welding

The Inverterc® 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 allows 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 Coolarc 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 Inverterc® 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% 170A/16,8V/60%	32A / 16A	6-200A	385 x 215 x 480	18

Invertec® V310-T AC/DC

Perfect performance, digital dynamics



The Invertec® V310-T AC/DC is an industrial TIG welding machine able to perform at a high output of 300A at 40% duty cycle.

The machine is equipped with a unique colour-LCD user interface, not only showing welding parameters but also the effect on the arc.

Some of the standard features of this machine 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 forms and adjustable Starting current. It can be simply changed to a water cooled unit by adding the Coolarc 35 Water Cooler

Processes

Stick, TIG AC, TIG DC, TIG Pulse

Output

Input



Base Unit Includes

2m-input cable, Gas connection kit.

Order

K2228-2 Invertec® V310-T AC/DC

- **Digital inverter technology** allowing 100% reproducible results.
- **Superb welding characteristics** with TIG AC, TIG DC and MMA processes.
- **Unique colour-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.



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)
V310-T AC/DC	K2228-2	230/400/3/50-60	310A/32V/40%	20A	30-310A	500 x 275 x 610	33

ACCESSORY KITS

CABLE KITS (ground/electrode)
with ground cable & electrode holder (clamp)

- Item n° :
- KIT-140A-16-3M** (140A - 16mm² - 3m)
 - KIT-140A-25-5M** (140A - 25mm² - 5m)
 - KIT-200A-25-3M** (200A - 25mm² - 3m)
 - KIT-200A-35-5M** (200A - 35mm² - 5m)
 - KIT-250A-35-5M** (250A - 35mm² - 3m)
 - KIT-300A-50-5M** (300A - 50mm² - 5m)
 - KIT-400A-70-5M** (400A - 70mm² - 5m)

CABLE KITS (ground)

- Item n° :
- GRD-200A-35-5M** (200A - 35mm² - 5m)
 - GRD-200A-35-10M** (200A - 35mm² - 10m)
 - GRD-300A-50-5M** (300A - 50mm² - 5m)
 - GRD-300A-50-10M** (300A - 50mm² - 10m)
 - GRD-400A-70-5M** (400A - 70mm² - 5m)
 - GRD-400A-70-10M** (400A - 70mm² - 10m)
 - GRD-400A-70-15M** (400A - 70mm² - 15m)
 - GRD-600A-95-10M** (600A - 95mm² - 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, V310-T AC/DC
Item n° : **W0200003**

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

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

COOLARC 20 for use with V205/V270
Item n° : **K1904-1**

COOLARC 30 for use with V405
Item n° : **K2168-1**

COOLARC 35 for use with V310
Item n° : **K2630-1**

Coolant ACOROX (2x5l)
Item n° : **K10420-1**

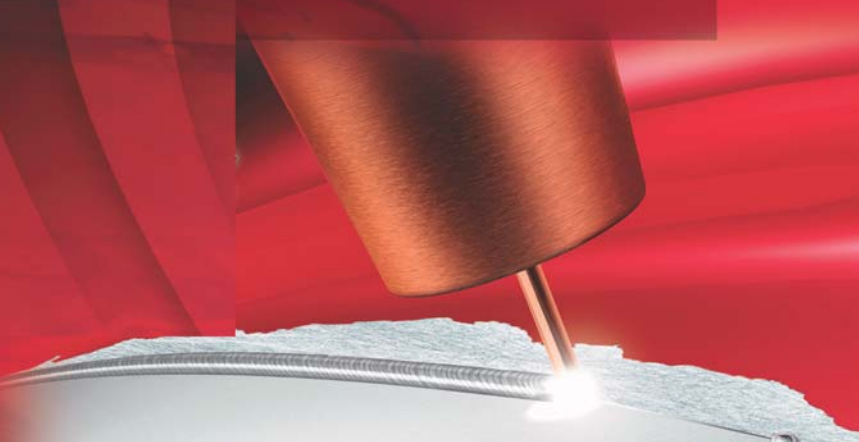


MIG

WIRE FEEDER/WELDERS

– The Professional's Choice!SM

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

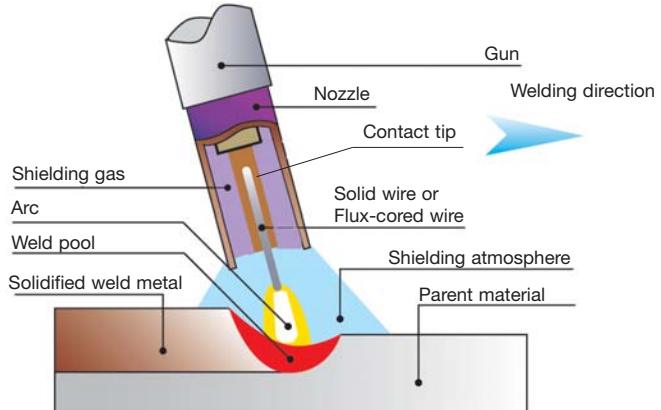


	MODEL	OUTPUT			INPUT	PROCESS		FEATURES			
		Mode	Polarity	Current Range (Amps)		Voltage (V)	MIG	Flux-Cored	Nb of steps	Drive rolls	WFS (m/min)
1-Phase wire feeder/welders	<i>Handy Core</i>	CV	DC	45-80	230	●	○	2	1.0-20	3	
	<i>Handy MIG</i>	CV	DC	45-80	230	●	●	2	1.0-20	3	
	<i>Powertec 161</i>	CV	DC	30-150	230	●	●	2	1.0-17	3	
	<i>Power MIG® 180C</i>	CV	DC	30-170	230	●	●	2	1.0-20	3	
3-Phase wire feeder/welders	<i>Powertec 200C</i>	CV	DC	25-200	230/400	●	○	10	2	1.0-20	3
	<i>Powertec 250C</i>	CV	DC	25-250	230/400	●	○	20	2	1.0-20	3
	<i>Powertec 300C</i>	CV	DC	25-300	230/400	●	○	20	2/4	1.0-20	3
	<i>Powertec 280C Pro</i>	CV	DC	25-280	230/400	●	○	30	4	1.0-20	3
	<i>Powertec 350C Pro</i>	CV	DC	25-350	230/400	●	○	30	4	1.0-20	3
	<i>Powertec 420C Pro</i>	CV	DC	25-420	230/400	●	○	30	4	1.0-20	3

KEY: ● Excellent ○ Good ● Optional

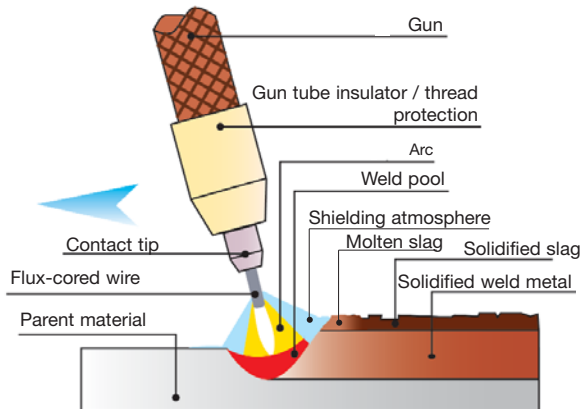
MIG Process

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 (CO₂ or mixture of Argon and CO₂). 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

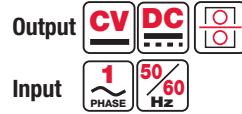
These compact, portable and lightweight wire feed welders plug into a 230V, 16 amp outlet and highly are user friendly. These machines are ideally suited to the light maintenance and repair such as for the small garage worker and jobs around the Farm.

4 voltage settings and continuous wire feed speed adjustment allow you to weld light gauge mild steel. It's easy to get started since practically everything you'll need to weld is included – gun and cable assembly, work cable & clamp, spool of cored wire (+ solid wire with Handy MIG), contact tips and handshield 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®), MIG



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	Dimensions	Fuse Size	Output Range	H x W x D (mm)	Net Weight (kg)
			Rated Output Current/Voltage/Duty Cycle				
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 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 aluminum. Compare performance, features and price. . . you will settle on Power MIG®.

Processes

MIG, Flux-Cored (Innershield®)

Output **CV** **DC**

Input **1** **50/60**
PHASE Hz



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

K2671-1 Power MIG® 180C

- **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.



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 MIG® 180C	K2671-1	230/1/50-60	130A/20V/30%	16A	30-180A 1,3-12,7m/min Max. OCV: 34V	357 x 258 x 472	30

Powertec 161C

The Professional's Choice

The POWERTEC 161C is a completed semi-automatic constant voltage DC arc welding machine. It is ideally suited to weld thin sheet metal and for repair and maintenance works. It's perfect tool for small workshop, car body repair or for farm.

This compact can be easy movable. You need only plug the welder into 230V, 16 amp outlets.

It is recommended for both Innershield gasless flux cored arc welding and MIG/MAG applications, including stainless steel.

The Powertec 161C is designed to feed wire from 0,6 mm to 1,1mm (steel, stainless steel and flux-cored) on K300 and D200 spools.

- **Designed for 0.6-0.8mm solid MIG wire** and 0.9-1.1mm flux-cored wire.
- **Connects to 230V**, 16 amp outlet.
- **Burn-back and spot** welding functions.
- **Ideal for welding of thin sheet** metal application.
- **Easy to change** polarity.
- **Professional** wire feeding system.
- **Equipped with** gun, ground cable and adaptor for D200 spool.
- **Meet IEC974-1, -10 , ROHS and CE** standards for safety and reliability.



Processes

MIG, Flux-Cored (Innershield®)

Output



Input



Order

K14040-1 Powertec 161C



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	K14040-1	230/1/50-60	150A/21,5V/20%	16A	30-150A 1,0-17m/min Max. OCV: 37V	615 x 390 x 825	53

Powertec 200C, 250C, 300C

Powerful compact excellent economics

The design of the Powertec 200, 250 and 300C was driven by the need to provide our customers with a range of machines offering a variety of welding outputs.

The Powertec range begins with the 200C, 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 250C 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 300C has been built as the true multi-purpose model, ideal for both thin sheet applications and light to medium construction work. The Powertec 300C will operate in both Short Arc welding and Full Spray modes with a 1.0mm wire. The Powertec 300C 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 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** (PT300C only).
- **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

K14003-1 Powertec 200C

K14004-1 Powertec 250C

K14005-1 Powertec 300C

K14005-2 Powertec 300C 4-roll



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 200C	K14003-1	230/400/3/50-60	200A/24V/35% 150A/21,5V/60%	25A / 16A	25-200A	815 x 460 x 925	84
Powertec 250C	K14004-1		250A/26,5V/35% 190A/23,5V/60%	32A / 16A	25-250A		94
Powertec 300C	K14005-1 &-2		300A/29V/35% 225A/25,2V/60%	40A / 25A	30-300A		96

Powertec 280C, 350C, 420C 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% Co2 shielding gas. The extensive list of features on all Powertec Pro's includes 2/4-step run-in, wire inch and gas purge. As standard within the range, two clear digital meters are provided to display welding Voltage and Amperes. 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% Co2.
- **Excellent drive system** with large 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.
- **Toolbox** for storing parts and tooling.
- **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

- K14013-1 Powertec 280C PRO
- K14014-1 Powertec 350C PRO
- K14015-1A Powertec 420C PRO Air cooled
- K14015-1W Powertec 420C PRO 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)
Powertec 280C PRO	K14013-1	230/400/3/50-60	280A/28V/40% 230A/25.5V/60%	32A / 20A	30-280A	910 x 565 x 1030	142
Powertec 350C PRO	K14014-1		350A/31.5V/40% 285A/28.2V/60%	40A / 25A	30-350A	910 x 565 x 1030	147
Powertec 420C PRO Air	K14015-1A		420A/35V/40% 345A/31.3V/60%	63A / 32A	30-420A	910 x 565 x 1030	157
Powertec 420C PRO water	K14015-1W					910 x 700 x 1030	183

MIG

INDUSTRIAL WELDERS



MODEL	OUTPUT		INPUT	PROCESS		FEATURES		
	Mode	Polarity		Current Range (Amps)	Voltage (V)	MIG	Flux-Cored	Nb of steps
<i>Powertec 300S</i>	CV	DC	30-300	230/400	●	●	20	3
<i>Powertec 360S</i>	CV	DC	30-360	230/400	●	●	30	3
<i>Powertec 420S</i>	CV	DC	30-420	230/400	●	●	30	3
<i>Powertec 500S</i>	CV	DC	30-500	230/400	●	●	30	3
<i>CV 420</i>	CV	DC	30-420	230/400	●	●	30	3
<i>CV 505</i>	CV	DC	40-500	230/400	●	●	30	3

KEY: ● Excellent ● Good ● Optional

Powertec 300S / LF-22

Powerful potential, Technical triumph

Operating from a three phase supply, the POWERTEC 300S is a constant DC power source rated at 300 amps and 35% duty cycle. The POWERTEC 300S power source and LF-22 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.
- **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.
- **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-22 wire feeder 2-roll air cooled on undercarriage, 0,8-1,0mm drive roll.
- Powertec 300S 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 300S	K14020-1	230/400/3/50-60	300A/29V/35% 225A/25,2V/60%	40A / 25A	30-300A	790 x 460 x 925	96

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-22 - air	K14024-1	34-44 VAC	1 - 20	0,8 - 1,6	1,0 - 1,6	440 x 270 x 636	16

Powertec 360S / LF-24

Powerful potential, Technical triumph

Operating from a three phase supply, the POWERTEC 360S is a constant DC power source rated at 350 amps and 40% duty cycle. The POWERTEC 360S power source and LF-24 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 360S is equipped with a built-in wheeled undercarriage, tow bar, 5m power cable and a 3m work lead with clamp.

This package is available in two versions : air or water cooled.

- **Products developed with** a focus on applications.
- **Superb Arc behaviour** with Argon Mix and 100% Co2.
- **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 Voltage and Amperes meter.**
- **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, spot welding.
- **Meet IEC974-1, ROHS and CE standards** for safety and reliability.

Processes

MIG, Flux-Cored

Output



Input



Recommended package includes

- LF-24 wire feeder 4-roll, 1,0-1,2mm drive roll
- Powertec 360S power source on undercarriage, Coolarc 25, 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)
PT360S air	K14021-1A	230/400/3/50/60	350A/31,5V/40%	40A / 25 A	30-350A	870 x 565 x 1030	145
PT360S water	K14021-1W		285A/28,2V/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-24 air/water	K14025-1W	34-44 VAC	1 - 20	0,8 - 1,6	1,0 - 1,6	440 x 270 x 636	17
LF-24 PRO air/water	K14026-1W						

Powertec 420S / LF-24 PRO

Powerful potential, Technical triumph

Operating from a three phase supply, the POWERTEC 420S is a constant DC power source rated at 420 amps and 40% duty cycle. The POWERTEC 420S power source and LF-24 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 420S is equipped with a built-in wheeled undercarriage, tow bar, 5m power cable and a 3m work lead with clamp.

This package is available in two versions : air or water cooled.

- **Products developed with** a focus on applications.
- **Superb Arc behaviour** with Argon Mix and 100% Co2.
- **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** Voltage and Amperes meter.
- **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
- **Meet IEC974-1, ROHS and CE** standards for safety and reliability.

Processes

MIG, Flux-Cored

Output   

Input  



Recommended package includes

- LF-24PRO wire feeder 4-roll, 1,0-1,2mm drive roll
- Powertec 420S power source on undercarriage, Coolarc 25, 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)
PT420S air	K14022-1A	230/400/3/50/60	420A/35V/40%	63A / 32 A	30-420A	870 x 565 x 1030	155	
PT420S water	K14022-1W		345A/31,3V/60%			870 x 700 x 1030		180

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-24 air/water	K14025-1W	34-44 VAC	1 - 20	0,8 - 1,6	1,0 - 1,6	440 x 270 x 636	17
LF-24 PRO air/water							

Powertec 500S / LF-24 PRO

Powerful potential, Technical triumph

Operating from a three phase supply, the POWERTEC 500S is a constant DC power source rated at 500 amps and 40% duty cycle. The POWERTEC 500S power source and LF-24PRO 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 500S is equipped with a built-in wheeled undercarriage, tow bar, 5m power cable and a 3m work lead with clamp.

This package is available in two versions : air or water cooled.

- **Products developed with** a focus on applications.
- **Superb Arc behaviour** with Argon Mix and 100% Co2.
- **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 Voltage and Amperes meter.**
- **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
- **Meets IEC974-1 and CE standards.**

Processes

MIG, Flux-Cored

Output



Input



Recommended package includes

- LF-24PRO wire feeder 4-roll, 1,0-1,2mm drive roll
- Powertec 500S power source on undercarriage, Cooler 25, 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)
PT500S air	K14023-1A	230/400/3/50/60	500A/39V/50%	63A /40 A	30-500A	870 x 565 x 1030	165
PT500S water	K14023-1W		400A/34V/60%			870 x 700 x 1030	190

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-24 air/water	K14025-1W	34-44 VAC	1 - 20	0,8 - 1,6	1,0 - 1,6	440 x 270 x 636	17
LF-24 PRO air/water	K14026-1W						

V350-PRO / LF-37 or LF-38

Design smart, Built tough

The Invertec V350-PRO is the most powerful portable inverter power source in its class. 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.
- 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 300A/32V/100%-3ph 320A/33V/60%-1ph 275A/31V/100%-1ph	5-425A 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)
LF-37	K10406	42 VAC	1,5 - 20	Solid 0,8 - 1,6 Cored 1,0 - 1,6	753 x 470 x 295	16
LF-38	K10407					

CV-420 & CV505 / 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. This can be shipyards or offshore yards outside. Therefore the machines are truly meeting IP23 allowing operation in any adverse conditions. Also, 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%Co2.
- **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



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 (Cooler 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	K14028-1A	230/400/3/50/60	420A/35V/60%	32A	30-420A	870 x 565 x 1030	134
CV420 water	K14028-1W		320A/30V/100%		Max. OCV: 43V	870 x 700 x 1030	155
CV505 air	K14029-1A	230/400/3/50/60	500A/40V/60%	48A	40-500A	870 x 565 x 1030	149
CV505 water	K14029-1W		385A/36,5V/100%		Max. OCV: 43 V	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

DC-400

DC multi-process welding power source



The DC-400 CE is one of the world's most recognised multi-process welding machines. It has withstood the test of time, even in the harshest environments.



The DC-400 CE provides outstanding arc characteristics on both constant current and constant voltage processes. This provides great welding versatility with Stick, MIG and Innershield in a single power source.

- **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 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% 450A/38V/60% 400A/36V/100%	77/45A	60-500A 12-42V 12-42V	782 x 566 x 840	215

MIG Welding : options & accessories

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 COOLERS

COOLARC 25

Item n° : **K14037-1**

COOLARC 40 for use with V350PRO & DC400

Item n° : **K2187-2**



Coolant ACOROX (2x5l)

Item n° : **K10420-1**

MIG TORCHES

LINC GUNT™ 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% (Handy MIG/Handy Core)
K10413-14D 2.5m

LG 150GD, 150A @ 60%, connecteur droit
K10413-15GD 3m

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



Advanced Process

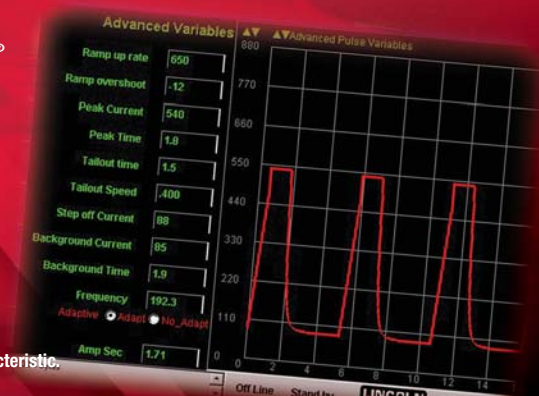
WELDERS

- 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
STT® II	STT	DC	5-450		●					●					3
Power Wave® 345M C	CC/CV	DC	5-350	●	●	●	●	●		●	●	●	●	●	3
Power Wave® 405M	CC/CV	DC	5-425	●	●	●	●	●		●	●	●	●	●	3
Power Wave® 455M	CC/CV	DC	5-500	●	●	●	●	●		●	●	●	●	●	3
Power Wave® 455M/STT®	CC/CV 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 stroke, 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 PSTT2-1-A	200/220/380/400/440/3/50-60	225A/29V/60% 200A/28V/100%	17A	5-450A(peak) 5-125A (background)	589 x 336 x 620 1000 x 700 x 1000	59 115

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® 345M C

Pulsed perfection, multi combinations

The Power Wave® 345M C is an Industrial Compact Pulse welding machine with a complete set of features. As standard the machine is supplied with an extended set of synergic welding programs to support Steel, Stainless Steel, Aluminium, High Nickel, CUSi, Conventional CV, MIG, Stick and Lift TIG. The Power Wave® 345M C is a user-friendly machine with a clean and easy to understand user interface and an extensive set of features. The case of the machine itself incorporates a parts storage compartment. Incorporated in the machine is the same rugged four-roll drive as used in all new LF wire feeders assuring perfect feeding from the coil to gun tip.

- **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.
- **Pulse-on-Pulse®** for a nice weld bead appearance and the welding of thin plate.
- **Hot/Soft start procedure** to support Hot start for aluminium applications.
- **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



Base Unit Includes

- Air cooled model :
5m-input cable, 5m-work cable, undercarriage, drive roll kit (4 rolls)1.2 mm solid wire.
- Water cooled model :
5m-input cable, 5m-work cable, undercarriage, drive roll kit (4 rolls)1.2 mm solid wire, Coolarc 25, Push-pull kit

Order

K10355-2A Power Wave® 345M C air
K10358-2W Power Wave® 345M C water



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 345MC air	K10355-2A	230/400/3/50-60	350A/45V/35%	32A	5-350A (1.2-20 m/min) Max. OCV: 47V	870 x 680 x 1060	135
PW 345MC water	K10358-2W		300A/32V/60%				162

Power Wave® 405M / LF-40

Superior arc performance, revolutionary communication



The Power Wave® 405M with LF40 Semi-automatic wire feeder package was developed with the welder in mind. All the welding controls are located at the wire feeder, making it easy to adjust the welding parameters. The power source itself can be on a distance and only carries basic controls.

Designed rugged for industrial use. The Power Wave® 405M output of 400 Amps supports almost all manual pulse and CV welding applications with solid wires. The feeder can be used static, or portable. Supplied with Coolarc 10 water cooler and undercarriage .

- **Superb arc welding characteristics** in Pulse, Double Pulse, CV, stick or DC TIG
- **Double Pulse** supports thin plate Aluminium welding and high arc stability at low Amps
- **Features** Hot/Soft start, Synergic control, Craterfill and 8 Memory locations
- **Excellent feeding**; four roll drive
- **Unique “fliptop”** protects the wire drive mechanism, program selection and controls
- **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



Recommended Package Includes

- LF-40 wire feeder 4-roll water cooled, 1,0-1,2mm drive roll.
- PW405M power source on undercarriage, Coolarc 25, 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)
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

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-40 (water push-pull)	K10340-40-5-W	40 VDC	2 - 20	0,8 - 1,6	1,0 - 1,6	753 x 470 x 295	20,5

Power Wave® 455M / LF-40

Superior arc performance, revolutionary communication



For welding thicker materials in robotics, hard automation and Semi-automatic applications, choose the Power Wave® 455M with the LF-40 wire feeder. The PW455M features Waveform Control Technology for superior arc performance on a variety of materials, including steel, stainless, aluminium and nickel alloys, and custom control of the arc for each wire type and size for consistent welds time after time.

Processes

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

Output   

Input  



- **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.
- **Features** Hot/Soft start, Synergic control, Craterfill and 8 Memory locations
- **Excellent feeding;** four roll drive
- **Unique “fliptop”** protects the wire drive mechanism, program selection and controls
- **Water flow sensing** (water cooled package)
- **Meet IEC974-1, ROHS and CE** standards for safety and reliability.

Recommended package Includes

- LF-40 wire feeder 4-roll water cooled, 1,0-1,2mm drive roll.
- PW455M power source on undercarriage, Water cooler, 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)
PW 455M on undercarriage	K24582	380/415/3/50/60	500A/40V/60% 400A/36V/100%	44A	5-500A Max. OCV:75V	663 x 505 x 835	114

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-40 (water push-pull)	K10340-40-5-W	40 VDC	2 - 20	0,8 - 1,6	1,0 - 1,6	753 x 470 x 295	20,5

Power Wave[®] 455M/STT / PF-10M DUAL

Superior arc performance, revolutionary communication

For welding thicker materials in robotics, hard automation and Semi-automatic applications and for other applications where heat input control, minimal distortion and reduced spatter are essential, opt for the Power Wave[®] 455M/STT with the Power Feed-10M DUAL wire feeder.

The PF10M Dual is a unique dual-head wire feeder which allows you to use two different types of wires individually for different welding applications (STT[®] and Pulse as an example).

- **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



Recommended package Includes

- PF-10M DUAL wire feeder 4-roll water cooled, 1,0-1,2mm drive roll.
- PW455M/STT power source on undercarriage, Water Cooler, Input cable, Work clamp and cable assembly.
- 5m-Interconnection cable, 2 MIG guns (air and water) and 2 gas regulators.



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/STT	K2459-2	380/415/3/50/60	500A/40V/60% 400A/36V/100% STT : 325A/33V/100X	48A	5-500A Max. OCV:75V	663 x 505 x 835	121

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		
Power Feed 10M DUAL	K2461-21	40 VAC	1,2 - 30,5	0,6 - 2,4	0,9 - 3,0	508 x 584 x 864	48



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 COOLERS

COOLARC 25

Item n° : **K14037-1**



COOLARC 40

Item n° : **K2187-2**



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

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

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	Power Feed™ 10M	●	●	●	●		2.0-30.5 (high) 1.3-20.3 (low)	0.6-1.6 0.8-2.4	0.9-2.0 0.9-3.0	4	A/W	3
	Power Feed™ 10M Dual	●	●	●	●		2.0-30.5 (high) 1.3-20.3 (low)	0.6-1.6 0.8-2.4	0.9-2.0 0.9-3.0	4	A/W	3
Analog	LF-22	●			●		1.0-20	0.8-1.6	1.0-1.6	2	A	3
	LF-24	●			●		1.0-20	0.8-1.6	1.0-1.6	4	A/W	3
	LF-24 Pro	●			●		1.0-20	0.8-1.6	1.0-1.6	4	A/W	3
	LF-33	●			●		1.0-20	0.8-1.6	1.0-1.6	4	A/W	3
	LF-34	●			●		1.0-20	0.8-1.6	1.0-1.6	4	A/W	3
	LF-35	●			●		1.0-20	0.8-1.6	1.0-1.6	4	A/W	3
	LF-40	●			●		2.0-20	0.8-1.6	1.0-1.6	4	A/W	3
	LN-10	●			●	●	1.3-31.7 (high) 0.8-19 (low)	0.6-1.6 0.6-2.4	0.9-2.0 0.9-3.2	4	A/W	3
	DH-10	●			●	●	1.3-31.7 (high) 0.8-19 (low)	0.6-1.6 0.6-2.4	0.9-2.0 0.9-3.2	4	A/W	3
Field	LN-15	●			●		1.3-17.8	0.6-1.3	0.9-1.6	2	A	3
	LN-23P				●		0.76-4.3		1.7-2.0	2	A	3
	LN-25	●			●		1.3-17.8	0.6-1.6	0.9-2.0	2	A	3
	LF-37	●			●		1.5-20	0.6-1.6	1.0-1.6	4	A/W	3
	LF-38	●			●		1.5-20	0.6-1.6	1.0-1.6	4	A/W	3

LINC FEED-22, -24 & -24 PRO

The LF-22, LF-24 and LF-24 Pro are portable wire feeders with stabilised wire feed speed. They include a rugged 2 or 4 roll wire feed unit, controls for cold inch and 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
- + for the LF24 PRO**
- **Bright digital** Volt and Amperes meter
 - **Synergic control** to support easy control by the welder
 - **Run in** to support perfect starting
 - **Meet IEC974-1, ROHS and CE** standards for safety a reliability.

Processes

MIG, Flux-Cored

Output



Input



Base Unit Includes

Drive roll kit 1,0-1,2mm, Spindle and wire reel adaptor on mobile mounting stand

Recommended Power Sources

Powertec 300S, Powertec 360S, Powertec 420S, Powertec 500S

Order

K14024-1 LF-22
 K14025-1W LF-24
 K14026-1W LF-24 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-22	K14024-1	2	A	34-44 VAC	1 - 20	0,8 - 1,6	1,0 - 1,6	440 x 270 x 636	17
LF-24	K14025-1W	4	A/W						
LF-24 PRO	K14026-1W	4	A/W						

LINC FEED-33, -34 & -35

Small & robust, flexible & complete

The LF33, 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.

- **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, Spindle and wire reel adaptor on mobile mounting stand, Water connection kit

Recommended Power Sources

STT® II, CV420, CV505

Order

K14024-1	LF-33
K14025-1W	LF-34
K14026-1W	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-33	K14030-1W	4	A/W	34-44 VAC	1,0 - 20	0,8 - 1,6	1,0 - 1,6	440 x 270 x 636	17
LF-34	K14035-1W				1,5 - 20				
LF-35	K14036-1W				1,5 - 20				

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 Source

CV-420, CV505, STT® 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-40

Designed to work with Lincoln's digital power sources

The LINC FEED wire feeder family is designed to combine easy handling and control by the welder with perfect wire feeding. All LINC FEED feeders are equipped with the same rugged four-roll drive system. This drive is easy to access and protected by the unique fliptop cover. The wire guidance from the coil to gun tip is smooth and accurate. It is designed to eliminate tangles and guarantee trouble free feeding.

LINC FEED feeders can be used static, or portable.

Mounted on a rugged undercarriage or on a boom. The LF40 is fully featured and designed to work with all the Power Wave® machines.

- **Excellent feeding;** four roll drive as standard.
- **Ergonomic design;** User friendly controls with digital displays showing text to support the operation.
- **Safety;** Unique "fliptop" design prevents and protects the wire drive mechanism.
- **Large bright Volt and Amp meters;** allows Pre-setting of the welding parameters before welding and read-out during welding.
- **Well featured;** the LF 40 features 2/4 stroke, Crater fill and Soft / Hot start, synergic welding mode and 8 memories.
- **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, Spindle and wire reel adaptor on mobile mounting stand, Water connection kit

Recommended Power Sources

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

Order

K10340-40-5-W LF-40



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-40	K10340-40-5-W	4	W	40 VDC	2 - 20	0.8 - 1.6	1.0 - 1.6	753 x 470 x 295	20.5

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) Solid	Dimensions H x W x D (mm)	Net Weight (kg)
LN-15	K1871-3	2	A/W	42 VAC	1,3-17,8	0.6 - 1.2	356 x 188 x 553	13

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.
- **Presetable 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	52.6

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® 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 1,5 - 20	High speed 0,6 - 1,6	1,0 - 1,6	470 x 343 x 775	16
PF-10MD	K2461-2				Low speed 1,27 - 20,3	Low speed 0,6 - 2,4	0,9 - 3,0		

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

DC-400, DC-655, 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) Cored	Dimensions 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

Portable construction wire feeder

The LN-25 Semi-automatic wire feeder is ideal for field or construction use. Since it is powered across the arc, no control cables are needed! Simply connect the weld cable, attach the arc sensing clip, and you are ready to go.

- **For MIG and flux-cored arc welding processes** using up to 19.9 kg spools.
- **Designed for** 0.6-1.6 mm solid, 0.9-2.0 mm cored and 0.9-1.6 mm) aluminium wire sizes.
- **Selectable dial for setting low range**, 1.3-8.9 m/min wire feed speed or high range, 1.3-17.8 m/min wire feed speed.
- **Includes DC voltmeter**, voltmeter polarity switch and 4.6 m arc sensing lead and clip and 508 mm weld power cable.
- **Automatic overvoltage** and motor overload shutdown protection.
- **Double-latched case** features an insulated gun holder and easy access to wire.
- **Entire unit is compact and portable** and will pass through a 400 mm diameter manhole/manway.
- **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

- K428-2 LN-25
 K449-3 LN-25 (w/ Internal Contactor and Gas Solenoid)



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-25	K428-2	2	A	42 VAC	1,27 -17,8	0,6 - 1,6	1,2 - 2,0	356 x 188 x 356	14
LN-25	K449-3								17

Semi-automatic Wire Feeders : options & accessories

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
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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



LN-25 SOLENOID & REMOTE CONTROL KITS

Gas Solenoid Kit

Includes solenoid valve and mounting bracket.

Item n° : **K430-2** for LN-25 (K428, above code 10500)



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**



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, Power Feed™ 10R



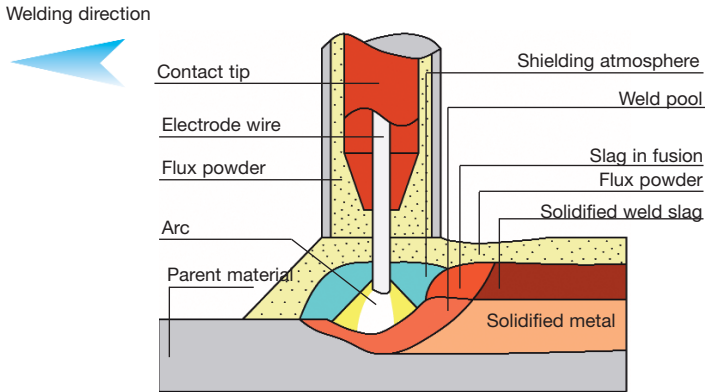
Subarc

welders

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

KEY: ● Excellent ◐ Good ○ Optional

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

Increased productivity, quality and flexibility

The Power Wave® AC/DC1000 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.

With the Power Wave® AC/DC, 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 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 AC/DC Power Wave® 1000 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.
- **Consistent operation over ± 10% input voltage variation** through built-in line voltage compensation and reliable input voltage connection.
- **Meet IEC974-1 and CE standards** for safety and reliability.

Processes

Submerged Arc

Output



Input



Recommended wire feeders

PF10A controller, PF10S head

Order

K2344-2 Power Wave AC/DC 1000

K2444-2 CE filter set



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 CE	K2344-2	400/3/50-60	1000A/44V/100%	80A	200-1000A	1110 x 488 x 838	250

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 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 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% 815A/44V/60%	122/70A	50-815A Max. OCV: 68V (CC)	99 x 564 x 965	327

DC-1000

Multi-process welder

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

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

- **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.

Processes

MIG, Flux-Cored, Submerged Arc, Gouging



Recommended Wire Feeders

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

Order

K1387-9 DC-1000 with meters



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%	193/112/97 A	16-46V	781 x 572 x 991	372
			1140A/45V/60%		150-1300A		
			1000A/44V/100%		Max. OCv: 60V		

DC-1500

Multi-process welder DC arc welding power source

The 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.

- **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.

Processes

Flux-Cored, Submerged Arc, Gouging

Output **CC** **CV** **DC**

Input **3** **50/60**
PHASE Hz



Recommended Wire Feeders

NA-3, NA-5, LT-7

Order

K1383-4 DC-1500
380/440/3/50/60

K1383-5 DC-1500
415/3/50/60



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)
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		

AC-1200

Automatic submerged arc welding power source

The 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 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 AC-1200
380/1/50/60

K1382-6 AC-1200
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	Power Feed™ 10A			●	0.25-7.62	1.6-5.6	-					●	3
Analog	NA-3	●	●	●	0.6-15.2	0.8-5.6	0.9-4.0	●	●	●			3
	NA-4			●	Subject to arc voltage used	0.8-5.6	-				●		3
	NA-5	●	●	●	0.6-19.7	0.9-5.6	1.2-4.0	●	●	●			3
	LT-7			●	2.5-10.2	2.4-4.8	-	●	●				3

KEY: ● Excellent ● Good ● Optional

Power Feed™ 10A

Arclink® controller for Power Wave® AC/DC system



The Power Feed™ 10 A is the main user interface for the Power Wave AC/DC 1000 subarc cell. The simple functionality is based on NA5 and PF10. All the welding parameters, timers, motions, procedure memories, configurations and diagnostics are accessed from the PF10A controller.

- **Versatile system set-up options for stand-alone or PLC configurations** help you customise the weld cell to make your operations as efficient as possible.
- **Lincoln's Waveform Control Technology®** gives you the ability to select the right waveform for each application.
- **The Power Feed™ 10A Controller** provides clear dual digital display of set-up and weld modes, six memories, AC controls, strike/start/end options, travel stop/start, and timers.
- **Controls can be adjusted on-the-fly** to change penetration and/or deposition rates with Variable Frequency, Variable Amplitude and Variable Balance.
- **Easy-to-use switch panel** can be removed and used as a Remote Control Pendant to create a versatile work station set-up.
- **The motor conversion kit** allows the use of existing NA-3, NA-4, and NA-5 feed head mounting hardware.
- **Meet IEC974-1 and CE** standards for safety and reliability.

Processes

Submerged Arc

Output



Input



Recommended Power Source

Power Wave® AC/DC 1000

Order

K2362-1 PF10A controller

K2370-1 PF10SF head



Product Name	Product Number	Input Power	Wire Feed Speed (m/min)		Wire Size Range (mm) Solid	Dimensions H x W x D (mm)	Net Weight (kg)
			low	high			
PF10A	K2362-1	40VDC	-	-	2,0 - 5,6	400 x 300 x 150	5
PF10SF	K2370-1		0,25-5,0	0,6-8,0			

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



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

LT-7 Tractor

Submerged arc DC wire feeder

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!

- **Feeds 2.4-4.8 mm solid wires**, from 2.5-10.2 m/min wire feed speed.
- **Calibrated tractor drive** adjusts travel speeds from 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.

Processes

MIG, Flux-Cored, Submerged Arc

Output



Input



Order

K395-2 LT7



Track model shown

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**

INTERCONNECTION CABLES



Extension for standard control to head cable. For K208.
Item n° : **K235-xM** 3m or 5m

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**



Sahara ReadyBag™
The packaging solution for any hazardous flux storage conditions

Automatic Wire Feeders

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			AC Generator Power Range (Watts)	PROCESS							
	Mode	Polarity	Current Range (Amps)		Stick	Pipe	DC TIG Touch-Start	MIG	Flux-Cored	Arc gouging	Warranty (years)	
Ranger 305D	CC/CV	DC	20-305 DC 40-300 Pipe 20-250 DC TIG	8 000	●	●	●	●	●	●	●	3
Vantage® 400	CC/CV	DC	30-500 DC 40-300 Pipe 20-250 DC TIG	13200	●	●	●	●	●	●	●	3
Vantage® 500	CC/CV	DC	30-575 DC 40-300 Pipe 20-250 DC TIG	14500	●	●	●	●	●	●	●	3

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 230/400V (115V for the UK model) 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% CO₂ and blended gas) and arc gouging with up to 4.8 mm carbons.
- **Lincoln's® Chopper Technology®** provides easy starts, a smooth arc, low spatter and excellent bead appearance.
- **A portable powerhouse**—delivers 10,000 peak (9,500 continuous) watts of 120V/240V AC generator power (115V for the UK model). 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.
- **Fully enclosed case** for equipment protection and low noise.
- **Meet IEC974-1 and CE** standards for safety and reliability.

Processes

Stick, TIG, MIG, Flux-Cored, Gouging

Output   

Input  

Order

K2279-1 Ranger 305D
UK model

K2279-2 Ranger 305D
European model



Product Name	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	250A/30V/100%	20-305 DC 40-300A Pipe 20-250A TIG 14-29V CV 8500 watts peak 8000 watts continuous	Kubota D722 Diesel	3	12kW @ 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'll value the superior arc performance delivered by exclusive Lincoln Chopper Technology.

You'll 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 cellulose electrodes.
- **Built-in "hot start"** for easier starts and restrikes
- **Plenty of AC 50 Hz generator power** : 3-phase 400V phase 230V (& 110V on the UK version).
- **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 **CC CV** **DC** **13/15 kW**

Input **D**



Order

K2502-2 VANTAGE 400 CE

K2503-2 VANTAGE 500 CE



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)
VANTAGE 400	K2502-2	350A/34V/100%	30-400 DC	Diesel Perkins 404C-22	4	28CV @1500	913 x 642 x 1524	560
VANTAGE 400 (UK)	K2502-1	400A/30V/60%						
VANTAGE 500	K2503-2	400A/36V/100%	30-500 DC	Diesel Perkins 404C-22 TURBO	4	38CV @1500	913 x 687 x 1590	586
VANTAGE 500 (UK)	K2503-1	450A/38V/60%						

UNDERCARRIAGE

Large Four-Wheel Yard Trailer

For in-plant and yard towing.
Trailer with Lunette Eye Hitch for
Vantage 400 & Vantage 500
Item n° : **K767-2**



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

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



Plasma Cutting Systems

	MODEL	OUTPUT			PROCESS			Warranty (years)	
		Mode	Polarity	Current Range (Amps)	Cutting thickness (mm)	Cut	Arc Gouge		Pierce
1-Ph	<i>Invertec® PC-25</i>	CC	DC	12-25	9	●	●	●	2
	<i>Invertec® PC-65</i>	CC	DC	20-65	18	●	●	●	2
3-Ph	<i>Invertec® PC-105</i>	CC	DC	20-105	35	●	●	●	2

Invertec® Pro-Cut 25

Portable cutting power up to 9 mm

The PC25 is one of the best examples of how portable and easy to use today's plasma cutters can be. It combines the next generation of plasma technology and enough power to cut 9mm mild steel in a package that weighs only 13.4 kg. Sheet metal and autobody companies will find the PC25 especially easy to use with its back lit LED status lights, 15 ft. plasma torch, and integral air controls.

- **25 amps of cutting power** from only a 13.4 kg package (without cables) for competitive performance on materials up to 9.5 mm thick.
- **Patented PCT 20 torch with VORTECH™ technology** consumables for unmatched cutting speed, precision and long life.
- **Automatic re-connection between 115V and 230V** for easy power connection and flexibility.
- **Parts-in-Place™ safety indicator and lockout circuit** to safely protect both the operator and the system.
- **Can be powered by most Lincoln® engine driven welders** for ultimate portability.
- **Meet IEC974-1, ROHS and CE** standards for safety and reliability.

Processes

Air plasma cutting, gouging

Output **CC** **DC**

Input **1** **50/60**
PHASE Hz



Base Unit Includes

2m-input cable, 5m-hand cutting torch, Ground clamp and cable, Air connection kit, Cutting torch consumables kit.

Order

WF200115

Invertec® PRO-CUT 25



Product Name	Product Number	Input Power	Rated Output Current/Voltage Duty Cycle	Cutting Capacity (mm)	Output Range	Dimensions H x W x D (mm)	Net Weight (kg)
PRO-CUT 25	WF200115	230/1/50-60	25A/90V/35%	6 @ 56 cm/min 9 @ 23 cm/min 9 @ 23 cm/min	12-25 A	254 x 165 x 405	9

Invertec® PC-65 & PC-105 Plasma cutting systems

The Invertec® PC65 & PC105 are Air Plasma cutting systems for mild steel, stainless steel, aluminium and most other metals. Based on the latest inverter technology the Invertec® PC65 incorporates many sophisticated features that enable the production of high quality cuts over a wide range of thicknesses up to 18 mm for the PC25 and 35 mm for the PC105.

A quick connect torch assembly protected against accidental contact with live parts allows easy switching between hand and machine torches.

They are supplied ready to cut with all the necessary accessories including a start up pack of consumables.

- **The most advanced inverter technology** for outstanding performance and reliability.
- **Pilot Arc control** to maintain an uninterrupted arc when cutting expanded metal or grates. Stepless current control.
- **Output compensated** for mains fluctuations.
- **Wide range of applications** including gouging, inside corners, pipe saddle cutting and others.
- **Remote control connection** (PC105)
- **Overload protection** and warning light.
- **Meet IEC974-1, ROHS and CE** standards for safety and reliability.

Processes

Air plasma cutting, gouging

Output



Input



Base Unit Includes

3m-input cable, 6m-hand cutting torch, Ground clamp and cable, Air connection kit, Cutting torch consumables kit.

Order

K12012-1 Invertec® PC-65

K12013-1 Invertec® PC-105



Product Name	Product Number	Input Power	Rated Output Current/Voltage Duty Cycle	Cutting Capacity (mm)	Output Range	Dimensions H x W x D (mm)	Net Weight (kg)
PC 65	K12012-1	400/3/50-60	65A/106V/35% 55A/102V/60%	18	20-65 A	385 x 215 x 586	19
PC105	K12013-1	400/3/50-60	105A/122V/35% 80A/112V/60%	35	20-105A	500 x 275 x 711	32

CUTTING CIRCLES



Item n° :
W0300199A for PC65
W0300194A for PC105

UNDERCARRIAGES



2-wheeled cart, delivered as a kit, for use with PC65
Item n° : W0200002



4-wheeled undercarriage with gas cylinder platform delivered as a kit, for use with PC105
Item n° : W0200003



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	Miniflex™	●	●	●	●	Disposable	12m ²	●	●		●	
	Mobiflex™ 200-M	●	●	●	●	Disposable	50m ²	●	●	●	●	
	Mobiflex™ 400-MS	●	●	●	●	Self-cleaning	30m ²	●	●	●	●	
Wall mount	Statiflex™ 200-M	●	●	●	●	Disposable	50m ²		●	●	●	●
	Statiflex™ 400-MS	●	●	●	●	Self-cleaning	30m ²		●	●	●	

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.



Statiflex 6000-MS



For centralised filtration, choose the Statiflex 6000-MS Central Filter Unit. With a capacity of 6375 m³/h, the Statiflex 6000-MS can provide filtration for up to four extraction arms in use at one time.

- Filter surface area 150m².
- Filter residue container : 100 litres
- For four extraction arms or more, if using the automatic start/stop sensor.
- Automatic filter cleaning.
- 99.8% efficiency.
- Also for large hoods or downdraft tables.

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.
- **Standard wheels** and handle make it easy to roll the Miniflex™ around the shop.

Processes

Stick, TIG, MIG, Flux-cored

Input



Base Unit Includes

- 3 m cord (AWG 14) with 15 amp plug (NEMA 5-15).
- 2.5 m length x 1-3/4 45 mm O.D. extraction hose.
- LongLife®-H main filter.
- HEPA filter.
- 2 spare sets of carbon brushes and seals for motors.

Order

7603001700 Miniflex™



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- E-Mail your questions to Lincoln experts.





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.

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