



LINCOLN[®]
ELECTRIC

Authorised Distributor
www.teedee.ae



ABOUT TEE DEE

TEE DEE took its first fledgling steps in the year 1999, making a cautious foray into the UAE market. What began as a small-scale trading enterprise, taking pride in its limited customer base and modest range of products in its launch year, is today a force unto itself with a consistent growth rate year on year and a very strong customer base to bolster its growth. This in essence is how TEE DEE has since burgeoned to become a leading stockist and supplier of structural steel and oilfield equipment in UAE.

"Serving our customers, anytime, anywhere has been a corporate mantra, a philosophy followed since its inception". With the ultimate objective of enhancing our own facility, we have in 2015 launched a new company in JAFZA under the name Tee Dee International FZE. This facility focuses on import and export of steel products of reputed international brands with an impeccable infrastructure comprising of two ware houses with a total storage area 3,500,000 sq. ft with the staff strength of 80 highly motivated and professional staff.

VISION

With a clear road map in front of us, the company's vision has been to grow not just in the oil sector, but diversify into other allied businesses, expand the operations of the group, reach out to newer markets and emerge as leaders in the industry.

MISSION

Our constant endeavor is to provide quality and service, the two pillars of TEE DEE. An ongoing Mission is to keep raising the bar with regard to standards in excellence and to set new industry benchmark.

Customer Satisfaction is the pillar of our corporate philosophy, our dedicated staff force are trained in dealing quickly and effectively with customer issues.

To sum up, our mission comprises Enterprise, Excellence, Empowerment and Entrepreneurship. Armed with such an enviable combination, TEE DEE is geared up to meet its firm futuristic agenda.





WELDING AND CUTTING DIVISION

Tee Dee International has taken a conscious decision to foray into Welding Business in U.A.E with the world's leading international welding manufacturer the 125 year old Lincoln Electric USA.

The welding and cutting division of Tee Dee international is led by a highly experience team with vast experience in welding sales, product and application development, assisting customers to reduce production cost by recommending appropriate product, processes and automation solutions. The team possess critical knowledge of WPS, PQR and international ASME /AWS welding code and practices to provide intelligent interface between customer needs and world class Lincoln products and solutions.

The superior Lincoln welding products such as Fleetweld, Pipeliner, Arosta, and LNT range of carbon steel, cellulosic and stainless-steel electrodes and TIG wires are household names internationally and very famous across Oil and gas, Cross country Pipeline, pipe spooling and fabrication Industries.

Similarly Lincoln Diesel welder Fleet 500, Dual Maverick are land mark products from last 50 years, Also Invertec and Flextec range of inverter based advanced welding machines in GTAW and GMAW segments are renowned internationally.

Entire range of Lincoln welding equipment comes with "Desert Ready" with "IP-23" safety standards, ensuring customers for lifelong trouble free and safe working beyond warranty.



EQUIPMENT



BASIC ARC WELDING MACHINES



PRODUCT	I/P POWER	RATED O/P	I/P CURRENT	O/P RANGE
BESTER 170-ND	230v 1ph 50/60Hz (±15%)	160A @ 20%	10A	10A - 160A
BESTER 210-ND	230v 1ph 50/60Hz (±15%)	210A @ 10%	10A	10A - 200A
INVERTEC 270SX	400/3/50/60	270A/30.8V@35% : 200A/28V@100%	20A	5A - 270A
INVERTEC 400SX	400/3/50/60	400A/36V/35% : 300A/32V/100%	30A	5A - 400A
INVERTEC CC 400-5PLUS	380-415/3/50-60	400A/36V@60% : 310A/32.4V@100%	41A	10A - 400A
HOTROD 500S	380/415/3/50/60	600A/44V/35% : 375A/35V@100%	63A	50A - 625A

CONSTANT VOLTAGE

PRODUCT	I/P POWER	RATED O/P	I/P CURRENT	O/P RANGE
INVERTEC 220 TPX	115/230/1/50/60	220A/18.8V/25% : 150A/16V@100%	16A	2-220A
INVERTEC 300 TPX	400/3/50/60	300A/22V/40% : 220A/18.8V/100%	20A	5-300A
INVERTEC 400 TPX	400/3/50/60	400A/26V/35% : 300A/22V/100%	30A	5-400A
ASPECT 300 ACDC	230/400/3/50/60	300A/26V/35% : 200A/18V/100%	32/20A	2-300A
OPTIMARC ACDC 350 TP	380/415/3/50/60	350A/34V/40% : 250A/20V/100%		4-350A

HIGH FREQUENCY TIG WELDING MACHINES



MULTI PROCESS WELDING MACHINES



CC/CV CROSS-LINK TECHNOLOGY

PRODUCT	I/P POWER	RATED O/P	I/P CURRENT	O/P RANGE
SPEEDTEC 505 S	400/3/50/60	500A/39V@60%	32A	20-500A
OPTIMARC CV/CC 500	380-415/3/50/60	500A/40V@60% : 390A/35.6V@100%	16A	15-500A
FLEXTEC 500X	380/460/575/3/50/60	500A/40V@60% : 450A/38V@100%	39/31/31 33/27/27	5-500A
FLEXTEC 650X	380/460/575/3/50/60	750A/44V@60% : 650A/44V@100%	61/50/40 57/47/38	10-815A
FLEXTEC 350X STANDARD	380/460/575/3/50/60	350A/34V@60% : 300A/32V@100%	26/23/18	5-425A

PRODUCT	I/P POWER	RATED O/P	I/P CURRENT	O/P RANGE
IDEAL ARC DC600	230/460/3/60	600A/44V@100% : 680A44V@60%	100/54A	CV:70A/13V - 780A/44V CC: 90A/24V - 780A/44V
IDEAL ARC DC-1000	230/460/3/60	1000A/44V@100%	193/96.5A	150-1300A DC 16-46V
POWERPLUS* 1000HD	380/415/3/50/60	1200A/44V@ 60% : 1000A/44V@ 100%		200-1200A
PRODUCT	WIRE SPEED (m/min)	SOLID WIRE SIZE RANGE	DIMENSIONS	NET WEIGHT
LT-7 TRACTOR	380/460/575/3/50/60	3/32-3/16 (2.4-4.8)	(698 mm x 838 mm x 356 mm)	54.43 kg
ROVER® TRACTOR	380/460/575/3/50/60	3/32-3/16 (2.4-4.8)	(1080 mm x 480 mm x 740 mm)	

SUB ARC WELDING MACHINES





THE NEXT TIG GENERATION

Processes

- GTAW
- SMAW

Materials

- Steel
- Stainless steel
- Low alloy steel

Applications

- General fabrication
- Heavy fabrication
- Structural
- Transportation
- Chemical processing
- Maintenance and repair
- Shipbuilding
- Offshore
- Pipeline

The new **INVERTEC® 275TP** is a new generation TIG inverter which is the next step in professional welding offering excellent welding processes and high performance, to increase productivity. The new INVERTEC® is designed with the latest energy-saving technology and is ready to work in the most difficult environments due to its unique design. To achieve excellent welding results, INVERTEC® 275TP utilises digital communication systems and built-in communication devices such as USB, making it easy to monitor and track welding operations.

Modular system: Power sources 270A@40%, New compact and light cooler **COOL ARC® 27** with higher cooling efficiency, 2-wheeled **CART 24** constructed from solid metal, offering superior mobility and transportation in order to facilitate the most demanding welding applications in various segments.



POWER SOURCE

Product	Item number	Primary voltage	Fuse size (A)	I1 eff (A)	I1 max (A)	Max. input power (kW-kVA)	Rated output (A)		Welding current range (A)	Open circuit voltage (V)	Temperature range		EMC class	Weight (kg)	Dimensions W x L x D (mm)	Protection class
							GTAW	SMAW			Operating	Storage				
Invertec® 275TP	K14243-1	400V +/- 15% 3Ph	16	11.5	17.2	8.6 kW-9.8 kVA	270A@40% 230A@60% 200A@100%	250A@35% 230A@60% 180A@100%	5-270	84 (11V VRD)	-10°C to +40°C	-25°C to +55°C	A	16	360 x 230 x 498	IP23

Invertertec® 270SX

Invertertec® 400SX

Professional welders for tough conditions

The Invertertec® 270SX & 400SX Stick and Lift TIG welders have been designed and manufactured to combine both a rugged industrial construction with excellent arc characteristics. The machines are built to handle harsh environmental conditions using Lincoln tunnel technology to separate the PCBs and sensitive parts from contaminating cooling airflow. The robust metal case with large protective rubber corners make them suitable for operation on site in conjunction with a generator, or within a workshop environment, providing maximum flexibility and durability. Intensive and extensive testing in the Lincoln lab guarantees the quality of these welders.

Features

- Robust, built for heavy environmental conditions.
- Fully featured and user friendly control panel with digital display allows precise setting of welding current.
- Soft and Crisp mode: multiple arc modes for different electrode types.
- Auto Adaptive Arc force: standard in Soft and Crisp modes the automatic variable Arc Force operates when required.
- Adjustable Hot Start and Arc Force allow a smooth start/restart of the electrode and prevent sticking of the electrode in the weld pool.
- Features "Lift TIG" with no tungsten contamination.
- Maximum output of 270A and 400A allows the use of 5.0 mm [270SX] and 6.3 mm [400SX] electrodes.



Technical Specifications

Product	Item Number	Primary Voltage [50-60Hz]	Current Range [A]	Rated Output	Fuse Size [A] (slow)	Weight [kg]	Dimensions HxWxD [mm]	Protection/ Insulation Class
Invertertec® 270SX	K12040-1	400V/3Ph	5-270	270A/30.8V/35% 200A/28V/100%	20	23.6	389 x 247 x 502	IP23 / H
Invertertec® 400SX	K12042-1		5-400	400A/36V/35% 300A/32V/100%	30	36	455 x 301 x 632	



Processes

- Stick
- Lift TIG
- Gouging [400SX]

Recommended Consumables

- **Steel**
Pantafix®, Omnia® 46; Baso® G, 120, 48SP
- **Stainless steel**
Arosta®, Limarosta®, Jungo® 304L, 316L, 309S
- **Hardfacing**
Wearshield® MM, ME / RepTec

Unit Includes

- 3m input cable

Key Options

- **KIT-250A-35-5M** Cable Kit 250A – 35 mm² – 5 m
- **KIT-300A-50-5M** Cable Kit 300A – 50 mm² – 5 m
- **KIT-400A-70-5M** Cable Kit 400A – 70 mm² – 5 m
- **K10529-17-4V** TIG torch LTP 17 GV – 4 m
- **K10529-17-8V** TIG torch LTP 17 GV – 8 m
- **K10095-1-15M** Remote control – 15 m
- **W0200002** Undercarriage [270SX]
- **K2694-1** Undercarriage [400SX]

INPUT



OUTPUT



LINC i400

Portable and robust equipment for professional Stick and Lift TIG welding



FEATURES

- **Exceptional performance:** high duty cycle at 40°C (400A@60%)
- **Versatile** welding with any coated electrodes rutile and basic
- **Selectable VRD protection** for increased safety and adjustable arc force, hot start & anti-stick for greater control and ease of use
- **Digital current display** meter for accurate pre-setting and feedback of welding parameters & output
- **Phase loss protection** prevents damage as machine automatically shuts down if power supply phase loss occurs
- **Temperature, voltage and current sensors** for increased reliability & safety
- **Operating temperature -10°C to +40°C**
- **Compatible with motor generator**
- **Warranty period: 1 Year**



Product	Reference	Primary Voltage [50-60 Hz]	Rated Output [A]	Output Range [A]	Open circuit Voltage [Vdc]	Fuse Size [A] [delayed]	Weight [kg]	Dimensions H x W x D (mm)	Protection Class
LINC i400	K69087-1	400V/3Ph +/- 10%	400A@60% 310A@100%	20-400	74 (18V VRD)	40	18,4	355 x 255 x 540	IP21S / H

HOT ROD 500S



ADVANTAGE

- ▶ **Excellent arc characteristics**
for a wide range of electrode types.
- ▶ **Maximum output of 625A**
allows the use of electrodes up to 6,3mm and air carbon gouging with 8mm electrodes.
- ▶ **Compatible with**
rutile, basic and cellulosic electrodes.
- ▶ **Desert rating**
operating temperature up to 55°C.
- ▶ **Stackable case design**
with built-in hook. Easy storage and handling.
- ▶ **Submersion dipped transformer assembly and potted power circuit board**
for added corrosion and moisture protection.
- ▶ **Input voltage compensation**
for constant output.



TECHNICAL SPECIFICATIONS

Product	Item Number	Primary Voltage	Fuse Size	Weight (kg)	Dimensions HxWxD (mm)	Protection/Insulation Class	Compliance
HOT ROD 500S	K14089-1	380/415V 3Ph 50/60Hz +/-10%	63A (slow)	203	795 x 566x 813	IP23 / H	EN60974-1 EN 50199 CE ROHS
	K14089-2	220/380/440 3Ph 50/60Hz +/-10%					

Invertec® 300TPX Invertec® 400TPX

Industrial TIG welders for tough conditions

The Invertec® 300 and 400TPX have been manufactured in a light-weight but robust outer casing, making them portable and ideal for operation even in the most hazardous environments. These machines feature HF TIG ignition, Lift TIG ignition, 2 or 4 step, variable down slope, post-flow control, digital pre-set meters with hold functions and built-in variable Pulse. Unique pre-settable starting mode allows excellent HF arc start in any welding conditions. Both machines are equipped with ten memory slots allowing for setting of personal welding parameters and procedures. TIG Spot welding mode completes the extensive list of TIG welding features. Both machines have been designed, not only as a TIG welder, but to also operate as a stick welder with a variety of popular stick electrodes including Cellulosic. They can be simply converted to a water-cooled unit by adding the COOLARC® 21 (300TPX) or COOLARC® 46 (400TPX) water-coolers. Robust, stable and well equipped carts are available for easy movement of the units.

Features

- Advanced inverter technology for superior TIG performance.
- Full function user-friendly control panel layout with graph and a numeric display make it easy to set all welding parameters.
- Rugged construction: electrical safety (IP23), potted PC boards and optimum airflow reduce contamination to extend the equipment's life in the harshest environmental conditions.
- HF and Lift TIG ignition meeting all requirements.
- Perfect TIG HF starting with pre-settable stating mode.
- Complete TIG parameters setting: Pulse TIG with variable frequency that allows the welder to adjust the arc focus to suit the applications, 10 memory location for personalized welding setting, TIG Spot welding.
- Water coolers and Carts available

Technical Specifications

Product	Item Number	Primary Voltage (50-60Hz)	Current Range (A)	Rated Output	Fuse Size (A) (slow)	Weight (kg)	Dimensions HxWxD (mm)	Protection/ Insulation Class
Invertec® 300TPX	K12060-1	400V/3Ph	5 - 300	300A/22V/40% 220A/18.8V/100%	16	22	349 x 247 x 502	IP235 / H
Invertec® 400TPX	K12043-1		5 - 400	400A/26V/35% 300A/22V/100%		37	455 x 301 x 632	



Processes

- Stick
- Lift TIG / TIG HF
- TIG Pulse

Recommended Consumables

- **Steel**
LNT 25, LNT 26, LNT Ni1, LNT 19
- **Stainless steel**
LNT 304L, 316L, 309LSi

Unit Includes

- 2 m input cable
- Gas connection kit

Key Options

- **KIT-250A-35-5M** Cable Kit 250A - 35 mm² - 5 m
- **KIT-300A-50-5M** Cable Kit 300A - 50 mm² - 5 m
- **KIT-400A-70-5M** Cable Kit 400A - 70 mm² - 5 m
- **GRD-300A-50-xM** Ground cable 300A - 50 mm² - 5/10 m
- **K10513-26-x** TIG torch LT 26 G - 180A - 4/8 m
- **K10513-18-x** TIG torch LT 18 W - 320A - 4/8 m
- **K10513-20-x** TIG torch LT 20 W - 220A - 4/8 m
- **K10095-1-15M** Remote control - 15 m
- **K14103-1** Water cooler COOL ARC® 21 (300TPX)
- **K14105-1** Water cooler COOL ARC® 46 (400TPX)
- **K10420-1** Coolant Acorox (2x5l)
- **K14114-1** Cart ST/TPX (300TPX)
- **K14129-1** Cart TPX (400TPX)
- **K14115-1** Tool box



INPUT



OUTPUT



ASPECT® 300

The TIG AC/DC new aspect!

ASPECT® 300 is an industrial AC/DC TIG welding machine designed and manufactured using the latest inverter digital technology. This machine has been designed and built to perform in the most hazardous environments at high outputs: 300A at 35% duty cycle both in TIG AC and TIG DC application. The controller provides all the features you would expect from industrial AC/DC TIG inverter welding machines combined with a user-friendly front panel layout, setting advanced TIG parameters has never been so simple!

The top class features like the 2A minimum current, the multiple AC mode selection (including four different wave shapes), the optimized TIG start with adjustable electrode type and HF polarity, makes the unit the right choice to suit any application. It can be simply changed to water-cooled by adding the COOL ARC® 46 Water Cooler. A robust, stable and well equipped cart is available for easy movement of the unit.

Features

- Advanced inverter technology for superior TIG performance.
- Superb welding characteristics with TIG DC, TIG AC and Stick welding processes.
- Adjustable cleaning and penetration for perfect aluminium welding.
- Variable AC frequency (40-400Hz) for control of travel speed and penetration.
- Full function user-friendly control panel layout with graph and a numeric display make it easy to set all welding parameters.
- Rugged construction: electrical safety (IP23), potted PC boards and optimum airflow reduce contamination to extend the equipment's life in the harshest environmental conditions.
- PFC (Power Factor Correction) advantages: 30% more output current with the same input current, suitable for 230-400V (+15%-10%) three phase, low current consumption, energy saving, low current harmonics and reduction of the total CO₂ produced by the welding process.
- Water coolers and Carts available.

Technical Specifications

Product	Item Number	Primary Voltage (50-60Hz)	Current Range (A)	Rated Output	Fuse Size (A) (slow)	Weight (kg)	Dimensions HxWxD (mm)	Protection/ Insulation Class
ASPECT® 300	K12058-1	230/400V/3Ph	2-300	300A/22V/35% 200A/18V/100%	32/20	43	455 x 301 x 632	IP23 / H



Processes

- Stick DC, Stick AC
- TIG DC, TIG AC
- Lift TIG, TIG HF
- TIG Pulse

Recommended Consumables

- **Steel**
LNT 25, LNT 26, LNT Ni1, LNT 19
- **Stainless steel**
LNT 304L, 316L, 309L
- **Aluminium**
SuperGlaze®

Unit Includes

- 3 m input cable
- Gas connection kit

Key Options

- **KIT-300A-50-xM** Cable Kit 300A - 50 mm² - 5/10m
- **E/H-300A-50-xM** Electrode holder 300A - 50 mm² - 5/10m
- **GRD-300A-50-xM** Ground cable 300A - 50 mm² - 5/10m
- **K10529-26-x** TIG torch LTP 26 G - 180A - 4/8m
- **K10529-18-x** TIG torch LTP 18 W - 320A - 4/8m
- **K10529-18S-8** TIG torch LTP18 WSC - 400A - 8m
- **KP10516-11** Accessory kit LT17/18/26 - 1,6-2,4 mm
- **KP10516-12** Accessory kit LT17/18/26 - 2,4-3,2 mm
- **K870** Foot Amptrol
- **K14147-1** Remote control - 15 m
- **K14148-1** Extension for remote control 15m
- **K14105-1** Water cooler COOL ARC® 46
- **K10420-1** Coolant Acorox (2x5l)
- **K14129-1** Cart TPX

INPUT



OUTPUT





Powerful Performance From the Ground Up

Out in the shipyards, construction sites and fabrication shops, it pays to keep it simple. The Flextec 500X multi-process welder is easy to set up and operate, yet rugged enough to stand up to heavy-duty indoor and outdoor applications.

Basic pulse MIG capability is standard on the Flextec 500X, including weld modes for carbon steel, stainless steel, aluminum and metalcore electrodes.

The Flextec 500X welder is also equipped with CrossLinc® technology giving you the flexibility to control the machine from hundreds of feet away without a control cable.

Processes »

SMAW, GTAW, GMAW,
GMAW-P, FCAW, Arc Gouging

Applications »

Fabrication, Shipbuilding,
Construction

Output »



Input »



Product Number »

K3607-1 Flextec 500X
K3607-2 Flextec 500X CE
K3612-9 Flextec 500X
Aluminum One-Pak

FLEXTEC® 500X

SIMPLE. RELIABLE. FLEXIBLE.

SPECIFICATIONS

MACHINES	Product Number	Input Power	Rated Output Current/Voltage/ Duty Cycle	Input Current @ Rated Output	Output Range	H x W x D in (mm)	Net Weight lb (kg)
FLEXTEC 500X	K3607-1	380/460/575/3/50/60	500A/40V/60% 450A/38V/100%	39/31/31 33/27/27	5-500A	18.8 x 14 x 27.5 [477 x 356 x 699]	136 [62]
Flextec 500X Aluminum One-Pak	K3612-9						



PORTABLE INDUSTRIAL WIRE FEEDER

We understand the needs of those working hard in the field every single day. Whether you're working on a large structure in a shipyard, or you're 100 feet off of the ground, your safety and efficiency should never be jeopardized. The less you have to move, the more valuable you are. We believe good equipment should never limit your capabilities, and the LN-25X wire feeder with CrossLinc® and True Voltage Technology™ (TVT™) helps you get the job done with drastically less movement.

Processes »

MIG, Flux-Cored

Applications »

Construction, Pipe, Metal Fabrication,
Shipbuilding, Rental Fleet

Output »



Input »



All Models
Across the Arc

Product Number »

K4267-2 LN-25X w/TVT (Tweco®)
K4267-3 LN-25X w/TVT (Tweco, w/Flowmeter)
K4267-4 LN-25X w/TVT CE Model
(Twistmate/Dinse, w/Flowmeter)
K4267-5 LN-25X Extra Torque w/TVT (Tweco)

LN-25X™

FEWER CABLES. GREATER CONTROL.

PRODUCT SPECIFICATIONS

Product Name	Product Number	Input Power	Output Capacity Current/ Duty Cycle	Flow Meter	Input Power Connection	Wire Feed Speed Range ipm (m/min)	Wire Size Range - in. (mm)			Dimensions H x W x D in (mm)	Net Wt lb (kg)
							Solid	Cored	Aluminum		
LN-25X w/CrossLinc and TVT											
Base Model	K4267-2	15-115V DC	450A @ 60%	No	Tweco Style	50-700 [1.3-17.8]	.023-1/16 [0.6-1.6]	.030-5/64 [0.9-2.0]	.035-1/16 [0.9-1.6]	15 x 8.7 x 23.2 [381 x 221 x 589]	40 [18.1]
Base Model w/ Flowmeter	K4267-3			Yes	Tweco Style						
CE Model	K4267-4			Yes	Twist Mate/ Dinse						
Extra Torque Model	K4267-5			No	Tweco Style	30-400 [0.8-10.2]		.030-3/32 [0.9-2.4]			





SIMPLE. RELIABLE. FLEXIBLE.

This multi-process welder delivers up to 815 amps of welding power for a variety of applications, including construction, shipbuilding and heavy fabrication. Embedded CrossLinc® Technology drives welding control at the arc without an added cable to save costs, increase quality and enhance productivity and safety on the job site.

The world-ready Flextec 650X will run on a wide range of available voltage input power and is IP23 rated for outdoor operation and storage. Broad wire feeder compatibility is not an issue – The Flextec 650X will operate with almost any Lincoln Electric® wire feeder or welding process.

Simple. Reliable. Flexible. Specify the Flextec 650X for your heavy duty applications.

Processes »

Stick, TIG, MIG, Flux-cored,
Submerged Arc, Gouging

Input »



Output »



Product Number »

K3425-1 Base Model

K3533-1 CE Model

FLEXTEC® 650X

MULTI-PROCESS POWER FOR HEAVY DUTY APPLICATIONS

SPECIFICATIONS

Product Name	Product Number	Input Power Voltage/Phase/Hertz	Rated Output Current/Voltage/Duty Cycle	Input Current @ Rated Output	Output Range	H x W x L in (mm)	Net Wt. lb (kg)
Flextec 650X							
Base Model	K3425-1	380/460/575/3/50/60	750A/44V/60%	61/50/40	10-815A	21.8 x 16.1 x 29.3 [554 x 410 x 745]	165 [74.8]
			650A/44V/100%	57/47/38			
CE Model	K3533-1		750A/44V/60%	61/50/40			
			650A/44V/100%	57/47/38			



Processes

- GMAW
- FCAW-G
- FCAW-S
- Pulsed MIG
- GTAW
- SMAW
- CAG
- MIG brazing

Materials

- Steel
- Stainless steel
- Low alloy steel
- Aluminium

Applications

- General fabrication
- Heavy fabrication
- Structural
- Transportatin
- Chemical processing
- Maintenance and repair
- Shipbuilding

NEXT GENERATION

New **SPEEDTEC® 400SP** and **500SP** are the third generation multi-process power sources offering superior quality welding and high efficiency processes which increase the productivity and are the next step into the future of professional welding.

New SPEEDTEC® range designed with the latest energy-saving inverter technology and specially rugged construction are ready to work in even the most demanding environmental conditions.

Modular system: power sources available in two versions 420A@100% and 500A@60% with a choice of separate wire feeders, standard **LF52D** for basic use or the advanced **LF56D** for more demanding applications, new cooler **COOLARC® 60** with higher cooling efficiency, new 4-wheels cart with very solid metal made construction plus wide range of connection cable and accessories fits perfectly with the needs of the most demanding welding applications in various segments.

Behind the outstanding welding performance, SPEEDTEC®'s platform based on digital communication system and with build-in communications tools, such as Ethernet or USB, allowing an accurate traceability and monitoring of your welding activities.

POWER SOURCES

Product	Item number	Primary voltage	Fuse size (A)	Max. input power (kVA)	Rated output (A) at +40°C		Welding voltage range (V)	Welding current range (A)	Open circuit voltage (peak)	Temperature range		EMC class	Weight (kg)	Dimensions W x L x D (mm)	Protection class
					100%	60%				Operating	Storage				
					MIG/MAG										
Speedtec® 400SP	K14258-1	400V/3Ph 50/60Hz ± 15%	25	18,1	420	—	15-45	20-420	65 Vdc	-10°C to +40°C	-25°C to +55°C	A	53,5	625 x 295 x 550	IP23
Speedtec® 500SP	K14259-1		32	25	500	20-500	54,5								

WIRE FEEDERS

Product	Item number	Gun connection	Wire feed mechanism	Feed rolls diameter (mm)	WFS (m/min)	Filler wires diameter (mm)				Wire spool weight (max) (kg)	Wire spool diameter (max) (mm)	Maximum shielding gas pressure	Temperature range		EMC class	Weight (kg)	Dimensions W x L x D (mm)	Protection class
						Fe	Ss	Mc/Fc	Al				Operating	Storage				
LF 52D	K14335-1	Euro	4-rolls, All driven, single motor	37,2	1,5-22	0,8 to 1,6	0,8 to 1,6	0,9 to 1,6	1,0 to 1,6	18	300	0,5 MPa	-10°C to +40°C	-25°C to +55°C	A	17,0	302 x 642 x 516	IP23
LF 56D	K14336-1															17,7		



THE ULTIMATE ALL-IN-ONE MACHINE

KEY FEATURES

- **Best-in-Class Performance** Industry's only true 300Amp, 100% Duty Cycle, All-Process Machine.
- **Flexible Input Power** PowerConnect® Technology allows for 200V-600V input power while maintaining consistent and reliable arc performance.
- **All-Process Versatility** Stick, TIG, MIG, Flux-Cored, Arc Gouging processes, with advanced weld modes and integrated High Frequency and AC/DC capabilities*.
- **Intelligent Connectivity** Intelligent, operator-focused interface and powerful Industry 4.0 capabilities including CheckPoint® Production Monitoring.
- **Ready-to-Run™ Design** Standard features for simple and straightforward operation, including cable management hooks, integrated cart with tilting bottle rack, and TIG solenoid.

Processes »

SMAW, GTAW, GMAW, GMAW-P, FCAW
SMAW-AC*, GTAW-AC*, GTAW-HF*, STT MIG*

Applications »

General Fabrication, Education

Output »



Input »



Product Numbers »

POWER WAVE 300C STANDARD

K4487-1

POWER WAVE 300C ADVANCED

K4488-1

POWER WAVE 300C ADVANCED EDUCATIONAL ONE-PAK®

K4934-1

*Available on Power Wave 300C Advanced Model

For full waveform list please visit
www.PowerWaveSoftware.com

POWER WAVE® 300C

ADVANCED PROCESS WELDER

PRODUCT SPECIFICATIONS

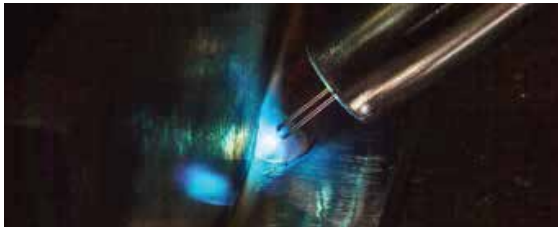
Product Name	Product Number	Input Voltage / Phase / Hertz	Output Range	Rated Output / Voltage / Duty Cycle	Input Current @ Rated Output	Dimensions H x W x D in (mm)	Net Weight lb (kg)
Power Wave 300C Standard	K4487-1	200-208/220-230/380-415/460/575/113/50/60	5-350A	GMAW: 350A / 31.5 V / 40% GMAW: 300A / 29 V / 100%	3ph / 1ph / 40% Duty Cycle: 44/40/25/20/16.5	39.67 x 20.65 x 39.60 [1007.6 x 524.5 x 1005.8]	193 (87.5)
Power Wave 300C Advanced	K4488-1			SMAW: 325A / 33V / 40% SMAW: 280A / 31.2V/100%			226 (102.5)
Power Wave 300C Advanced Educational One-Pak	K4934-1			FCAW: 350A / 31.5 V / 40% FCAW: 300A / 29 V / 100% GTAW: 325A / 23V / 40% GTAW: 300A / 22V / 100%	3ph / 1ph / 100% Duty Cycle: 35/32/19.5/16/14		



HYPERFILL™

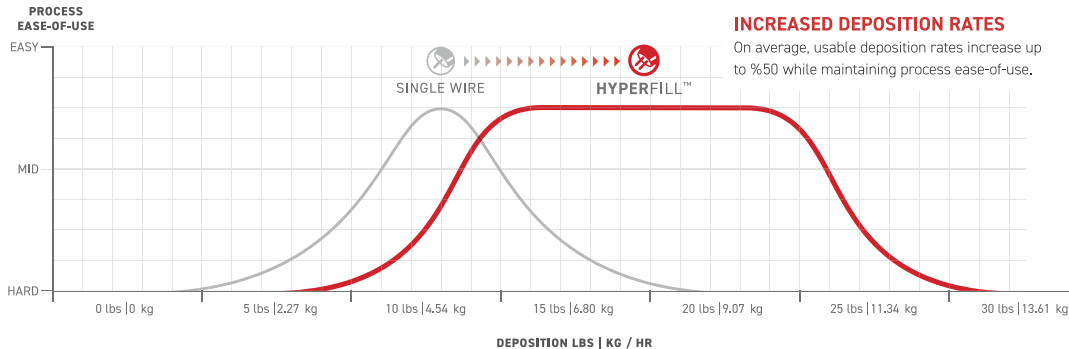
HIGH DEPOSITION, LOW DIFFICULTY

Designed to revolutionize heavy fabrication productivity, the patent pending Hyperfill twin MIG solution allows for increased deposition rates without compromising puddle stability or weld quality



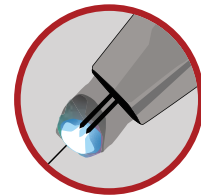
Generates a wide, evenly distributed arc cone. Smooth, stable puddle is more favorable and makes process easy to use at higher deposition rates.

PROCESS COMPARISON - DEPOSITION RANGE



HYPERFILL™ CAN INCREASE YOUR PRODUCTIVITY BECAUSE:

HyperFill™ will provide all users with the opportunity to achieve higher deposition rates, faster travel speeds, and make bigger welds with greater ease.





PIPE FAB

Like the name says, the PIPEFAB "A" system was developed specifically for pipe and vessel fabrication. With its Ready-to-Run™ design, every detail was considered in creating the ultimate setup for the pipe and vessel industry. to deliver the ideal setup for pipe and vessel fabrication. From machine design to arc performance, no detail was overlooked in delivering a complete, customer driven system that lets your shop focus on what matters most making high quality root to cap welds, faster and easier.



PRODUCT SPECIFICATIONS

DESCRIPTION	PRODUCT NUMBER	INPUT VOLTAGE / PHASE / HERTZ	OUTPUT RANGE	RATED OUTPUT / VOLTAGE/ DUTY CYCLE	INPUT CURRENT @ RATED OUTPUT	DIMENSIONS H X W X D	WEIGHT
PIPEFAB™ POWER SOURCE	K3731-1	200380-230-220-208-415575-460	5400-A	STICK: 55 – 400A / 36V @ 100% MIG: 40 – 400A / 26V @ 100% FLUX-CORE: 40 – 400A / 26V @ 100% TIG: 5 – 400A / 26 V @ 100%	53/46/26/24/19	22.1 in x 17.5 in x 34.8 in	207 lbs
PIPEFAB™ FEEDER	K3735-1	40 V DC				14.5 in x 22 in x 30.2 in	80 lbs
PIPEFAB™ READY-PAK	K3734-1					43.5 in x 30.9 in x 48.5 in	340 lbs

WELDING AUTOMATION

Orbital welding a specialized area of welding whereby the arc is rotated mechanically through 360° (180 degrees in double up welding) around a static workpiece, an object such as a pipe, in a continuous process. In orbital welding, computer-controlled process runs with little intervention from the operator.

Orbital TIG welding systems are designed for joining pipes and tubes in demanding environments, restricted spaces and locations with lack of visibility. The welding process has strict parameters that must be maintained to meet the requirements demanded from power plants, chemical plants and refineries. Control system, power source, water cooler, weld head and track ring create the system solution needed for precision control over the welding process. Orbital welding of tubing using totally enclosed weld heads is a fusion process under ASME Section IX. No filler metal is added.





HELIX M45 WELD HEAD



The HELIX® M45 is the second innovation in our mechanized HELIX M Series orbital weld heads. With a low radial clearance of 4.5 in. (114 mm), the HELIX M45 weld head allows for digitally controlled, precision welding in areas of limited space and physical constraints. The M45 weld head has a 5 in. (127 mm) oscillation/steering stroke offering greater flexibility when setting up the track.

PRODUCT SPECIFICATIONS

PRODUCT NAME	PRODUCT NUMBER	INPUT POWER	INPUT CURRENT	TRAVEL SPEED IN/MIN [CM/MIN]	CLEARANCE - IN (MM)		OSCILLATION STROKE IN (MM)	MOTORIZED HEIGHT CONTROL STROKE	LEAD/LAG RANGE	TORCH TILT		DIMENSIONS H X W X D IN (MM)
					RADIAL IN. (MM)	AXIAL IN. (MM)				IN	OUT	
HELIX M45 WELD HEAD	K52224-1	24V DC	9A MAX	0.10 - 120 (0.25 - 305)	4.50 (114.3)	14 (355.6)	5.00 (127)	1.96 (49.784)	+/- 45°	45° MAX	45° MAX	5.08 X 16.63 X 19.70 (129.0 X 422.4 X 500.4)

HELIX M85 WELD HEAD

The HELIX® M85 is the first next-generation orbital welding head. It incorporates digital capabilities in an intuitive ergonomic design, bringing the hyphenate: best-in-class for all of your orbital and plate welding needs from GMAW and FCAW to GTAW and Hot Wire Laser. The HELIX M85 weld head removes the steep learning curve that is required with most other orbital equipment due to its clean design. All of the motors and harnesses are packaged inside the weld head, reducing visual confusion when working in the shop and providing protection from harsh environments when out in the field. The red color coding makes it easy for new operators to identify where adjustments to the weld head can be made.



PRODUCT SPECIFICATIONS

PRODUCT NAME	PRODUCT NUMBER	INPUT POWER	INPUT CURRENT	TRAVEL SPEED IPM (MM)	CLEARANCE - IN (MM)		OSCILLATION STROKE IN. (MM)	MOTORIZED HEIGHT CONTROL STROKE IN (MM)	LEAD/LAG	TORCH TILT		DIMENSIONS H X W X D IN (MM)
					RADIAL	AXIAL				IN	OUT	
HELIX® M85 WELD HEAD	K52101-1	24V DC	9A MAX	0.1 MIN-120 MAX (2.54 MIN-3048 MAX)	8.5 (215.9)	19.75 (501.7)	2.00 (50.8)	2.00 (50.8)	360°	60° MAX	30° MAX	8.33 X 14.25 X 6.85 (211.6 X 362.0 X 174.0)



DUAL MAVERICK 450

Save Money. Less Noise.

- Only one machine to service and maintain instead of two.
- New sound reduction techniques have lowered noise levels substantially from earlier models.
- Engine RPM varies based on the welding output required, resulting in less fuel being used, and less noise.
- Auto Stop-Start function will stop the engine after a user defined period of no welding activity. Start welding again simply by touching the electrode to the work.

Two Displays. More Control.

- Two 4.3", IP67 rated color LCD screens provide increased functionality and easier setup than previous models.
- Intuitive push and turn digital controls make setup a breeze, and guide the end user to the right weld settings.
- Maintenance reminders assist with maximizing engine life and reliability.



MACHINE SPECIFICATIONS

Product Name	Product Number	Description	Rated DC	Output Range	Auxiliary Power (50 Hz)	Dimensions HxWxD in (mm)	Net Weight lb (kg)
Dual Maverick 450	K4381-1	450A DC Engineered DC Generator	Single Mode At 40° C 450A/26V/100% 350A/34V/100%	Single Mode 50 to 450 A Stick/Pipe 100 to 450 A Gouge 13 to 40 V CV 20 to 255 A TIG	13,000 Watts Total Two 220V single phase Euro Plugs One 380V three phase Euro Plug	36.87 x 28.28 x 65.1 (936.5 x 718.3 x 1653.5) To top of exhaust tube 32.23 in. (946)	1155 lbs (524 kg)
			Dual Mode At 40° C 225A/26V/100% 210A/28.4V/100%	Dual Mode 30 to 225 A Stick/Pipe 100 to 250 A Gouge 13 to 40 V CV 20 to 255 A TIG			



Product Numbers

K4381-1 Dual Maverick 450

Processes »

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

Applications »

Construction, Pipeline,
Maintenance and Repair

Rated Output -

Current/Voltage/Duty Cycle

Single Mode

450A/26V/100%
350A/34V/100%

Dual Mode

225A/26V/100%
210A/28.4V/100%

Output »



Input »



Processes

- Plasma cutting (all)
- Plasma gouging
- Grid Mode

Type of Gas

- Air compressed
- Nitrogen

Applications

- On site maintenance
- Service tasks
- Small construction sites
- General installations
- Air ducting installation (HVAC)
- Demolition work
- Rental

Input



Output

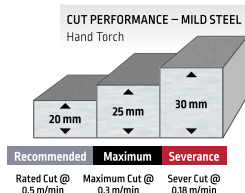


Unit Includes

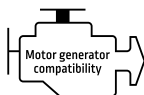
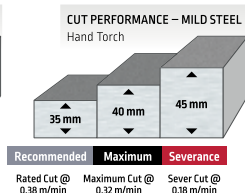
- 2 m-input cable
- 75 m-hand cutting torch
- Ground clamp and cable
- Air connection kit
- Cutting torch consumables kit



TH1025



TH1538



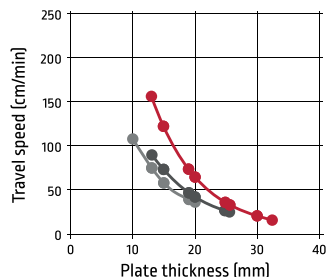
MOTOR GENERATOR COMPATIBILITY:

- minimum power 9,2kW (TH1025), 18kW (TH1538)
- AC waveform peak voltage below 700V.
- RMS voltage of the AC waveform is always equal to 400Vac $\pm 15\%$.

PERFORMANCE

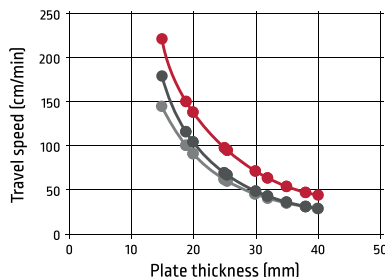
Tomahawk® 1025 with LC65

Comparison at 60A



Tomahawk® 1538 with LC105

Comparison at 100A



● Aluminium ● Mild ● Stainless

TOMAHAWK® 1025 & 1538

- Starting: innovative advanced arc starting without HF.
- Performance: innovative advanced electrode and nozzle design.
- Longer lifetime: innovative advanced design increases lifetime of consumables.
- Faster: higher travel speeds and plate thickness.
- Flexible: multiple torch configurations.
- Different materials: mild steel, stainless steel, aluminium and many more.
- Concentrated plasma stream: less heat input, less distortion.
- Torch Connection – central connector, 9-pin.
- Step less current control.
- Remote kit (optional) that allows the unit to receive an external ON-OFF trigger for mechanized processes (only for TH1538)

**AS GOOD AS THE
BEST IN CLASS,
WITH PRICES FAR
BELOW**



SPECIFICATIONS

Product	Item Number	Primary Voltage [50-60Hz]	Rated Output	Cutting Capacity (mm)	Piercing Capacity (mm)*	Flow Rate	Inlet Pressure	Output Range [A]	Weight (kg)	Dimensions HxWxD (mm)
Tomahawk® 1025	K12048-1	400V3Ph	60A/40% 40A/100%	25	Max. 12	130l/min +/- 20% @ 5,0bar	6,0 - 75 bar	20-60	22	389 x 247 x 489
Tomahawk® 1538	K12039-1		100A/40% 60A/100%	40	Max. 20	280l/min +/- 20% @ 5,0bar	6,0 - 75 bar	20-100	36	455 x 301 x 618

Industrial DC Multi-Process Welder

The DC-1000 offers 1300 amps of smooth DC output, combining pure welding power with multi-process flexibility for semiautomatic and automatic welding.

FEATURES

- ▶ **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 under a workbench and for stacking up to 2 machines to conserve floor space.
- ▶ **Removable side panels** - for easy access to internal parts.
- ▶ **Internal components** - including windings, rectifiers and circuit boards, are coated to protect against the effects of moisture and corrosion.
- ▶ **Seven-year warranty** - on power rectifier.

Idealarc® DC-1000



APPLICATIONS

- ▶ Fabrication
- ▶ Heavy Equipment
- ▶ Pressure Vessel
- ▶ Shipbuilding
- ▶ Transportation
- ▶ Construction

WHAT'S INCLUDED

K1386-3 Includes:

- ▶ Analog ammeter and voltmeter.
- ▶ Fuse protected 115V wire feeder auxiliary power.

Recommended Wire Feeders:

- ▶ LT-7
- ▶ NA-3
- ▶ NA-5



INPUT



(1)

OUTPUT



(1) K1387-3 and K1387-6 only



Two Year Extended
Warranty Available in
the U.S.A. and Canada.

PRODUCT SPECIFICATIONS

Product Name	Product Number	Input Power Voltage/Phase/Hertz	Rated Output Current/Voltage/Duty Cycle	Input Current @ Rated Output	Output Range	H x W x D inches (mm)	Net Weight lbs. (kg)
Idealarc® DC-1000	K1386-3	230/460/3/60	1000A/44V/100%	193/96.5A	16-46V 150-1300A	30.7 x 22.25 x 39.0 (781 x 565 x 991)	821 (372)
	K1386-4	575/3/60		77.2A			
	K1387-3	220/380/440/3/50/60		193/112/96.5A			
	K1387-6	415/3/50/60		102A			
	K1387-11	380/440/3/50/60		112/96.5A			

Automated Welding Systems

Improve productivity with the NA-5 automatic wire feeders. These systems have been specially designed to deposit significant amounts of weld metal at fast travel speeds on thick materials.

FEATURES

- ▶ **Operating Versatility** - Choice of gear ratios allows use of a wide range of wire sizes and wire feed speeds.
- ▶ **Compact Units With Excellent Flexibility** Mountable on simple fixtures or the most complex automated production lines.
- ▶ **Rugged Construction** - Minimizes downtime and maintenance costs.

RECOMMENDED LINCOLN ELECTRIC POWER SOURCES

- ▶ Idealarc® DC-600, DC-655, DC-1000, DC-1500 and CV-655.

WHAT'S REQUIRED

- ▶ Nozzle Assembly
- ▶ Control Cable
- ▶ Weld Power Cable
- ▶ Power Source
- ▶ Wire Reel(s) and mounting

WHAT'S INCLUDED

- ▶ 10 ft. (3.1 m) Control Cable
- ▶ Specific Drive Roll Kit with Each Head
- ▶ Wire Straightener with Each Head

AC Input Power required for all models is 115 (110) volts, 60 or 50 hertz of 350 volt-amperes capacity for the head and controls. An additional 250 volt-amperes is required for the Lincoln Electric travel carriage and more may be needed for other travel mechanisms. This power can be obtained from the Lincoln Electric power source.

NA-5 Control and Heads

APPLICATIONS

- ▶ Heavy Equipment Fabrication
- ▶ Structural Fabrication

AVAILABLE MODELS

FOR SUBMERGED ARC WELDING

NA-5S HEAD

Includes wire feed head with straightener for solid wire, flux hopper with automatic valve and head mounting. Also includes electrode cables from control box to wire contact assembly, and cross seam adjuster. Does not include control box or wire reel, brake and mounting.

Order K346A, K346B

NA-5SF HEAD

Includes wire feed head with straightener for solid wire. Does not include control box or wire reel, brake and mounting, flux hopper with automatic valve and head mounting, cross seam adjuster, head mounting parts or electrode cable from control box to wire contact assembly.

Order K347A, K347B



INPUT



OUTPUT



Two Year Extended
Warranty Available in
the U.S.A. and Canada

PRODUCT SPECIFICATIONS

Product Name	Product Number	Input Power	Wire Feed Speed Range ipm (m/min)	H x W x D inches (mm)	Net Weight lbs. (kg)
NA-5 Control	K356-2	115 VAC 50/60 HZ	25-775 (0.6-16.5)	12.75 x 18.5 x 22.25 (324 x 470 x 565)	41 (18.6)

Submerged Arc DC Wire Feeder

The LT-7 Tractor is a self-propelled mechanized wire feeder, designed for the submerged arc process with track system capabilities. It is self-guiding and easy to operate – only one operator is usually required. It is designed to be used with a variety of Lincoln DC constant voltage and constant current power sources. The rugged, lightweight unit permits quick movement to the next joint. Its compact size fits through small openings and confined spaces. Butt and fillet welds can be made on heavy plate or steel as light as 12 gauge (2.5mm). The LT-7 Tractor is ideal for the following applications: ship and barge building, storage tank erection, bridge deck installation, beam, girder or column fabrication, and long seams on heavy weldments.

Processes

Submerged Arc

Advantage Lincoln

- LT-7 Tractor feeds 3/32 to 3/16" (2.4 to 4.8 mm) solid wires, from 100 - 400 inches per minute (2.5 - 10.2 m/min) wire feed speed.
- Calibrated tractor drive adjusts travel speeds from 6 to 70 inches per minute (0.12 to 1.8 m/min).
- Vertical head lift adjuster for adjusting electrical stickout from 1/2 in. to 5 in. (12.7 to 127.0 mm).
- Weld angle is up to 50° from vertical on either side; drag angle is up to 30° from vertical.
- Control box is conveniently located on the tractor (can be mounted either left or right), eliminating the need to return to the power source for routine procedure changes.
- Exceptional tracking control and self-steering in most applications leave the operator free for quality control, joint cleaning and flux handling.
- Welds butts, horizontal fillet and lap joints to the left or right side of the tractor frame for convenience.
- Close mechanical alignment between wire and joint maximizes weld quality with no fixturing costs.
- Three-year warranty on parts and labor.

Description

Output  Input 

Required Options

Control Cable, Weld Power Cable, Contact Nozzle Assembly

Recommended General Options

Wire Feeder Control Cable Extensions, Adapter Cable, Linc-Fill™ Attachments, Horizontal Fillet and Lap Adapter Kit, Flat Fillet Adapter Kit, Butt Seam Guide Kit, Track Conversion Kit, Tiny Twinarc® Adapter Kit, Track Section, Flux Screen, Magnetic Flux Screen Separator, Concentric Flux Cone Assembly

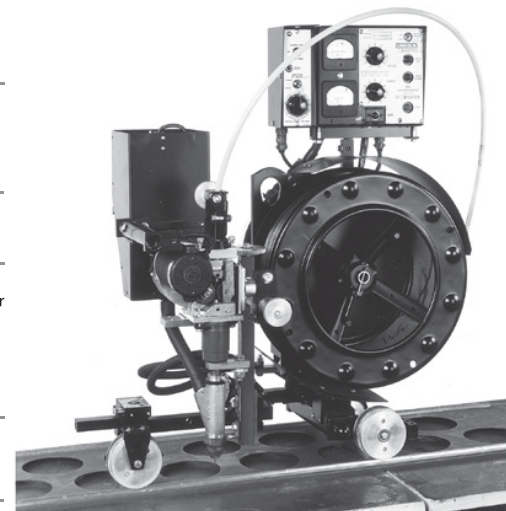
Recommended Power Sources

CV-655, DC-600, DC-655, DC-1000, DC-1500

Order

K227-1 LT-7 Standard Model
K395-1 LT-7 Track Model

LT-7 Tractor



TECHNICAL SPECIFICATIONS

Product Name	Product Number	Input Power	Rated Output Current/Duty Cycle	Wire Feed Speed Range ipm (m/min)	Wire Size Range Solid in. (mm)	Dimensions H x W x D in. (mm)	Net Weight lbs. (kg)
LT-7 Standard	K227-1	115 VAC 50/60 Hz	600A/100% 1100A/100% (with water cooling)	100 - 400 (2.5 - 10.2)	3/32 - 3/16" (2.4 - 4.8)	27.5 x 33 x 14 (698 x 838 x 356)	120 (54)
LT-7 Track	K395-1						130 (59)

Submerged Arc Power Source

POWERPLUS® 1000HD is designed for constant current and constant voltage Submerged Arc Welding. The welding arc is stable over a wide range of parameters and the output can be precisely controlled. The power source is combined with the Lincoln Electric Rover™ Tractor to create a robust automatic welding package.

POWERPLUS® 1000HD is rugged and reliable to operate in the harshest welding conditions. It is often used for welding mild steel, low alloy steel, and stainless steel. The POWERPLUS® 1000HD can also be used by itself for carbon arc gouging. It is used in many industries, such as shipbuilding, wind tower and pressure vessels.

POWERPLUS® 1000HD is available for CE.

Processes

Submerged Arc, Gouging

Wire Feeder Options

Rover™ Tractor

Required Options

Tractor, Control Cable, Welding Cable, Work Cable with Clamp, Track

Design Features

- The main transformer is built to H grade.
- High reliable SCR Insulation Classification ensures excellent output stability.
- Designed with optimum cooling efficiency.
- Overheating, overcurrent, loss of phase and short circuit protection ensures long-lasting performance.
- Potted PC boards ensure long life in harsh conditions.
- Built to IP23S classification.

POWERPLUS® 1000HD



Description

Output



Input



Advantage Lincoln

- Precise output control results in a stable arc.
- Ability to preset the current.
- Line voltage compensation maintains consistent welding within $\pm 10\%$ variation.
- 1,000A @ 100% duty cycle with a maximum output capacity of 1,200A.
- 500 amps output terminal enhances low current arc characteristics.
- User-friendly operation panel with analog meters to display current and voltage while welding.
- Can be stacked up to two machines high to save on floor space.



TECHNICAL SPECIFICATIONS

Product Name	Product Number	Input Power	Rated Output Current/Voltage /Duty Cycle	Input Power @ Rated Output (kVA)	Output Range	Dimensions H×W×D (mm)	Net Weight (kg)
POWERPLUS® 1000HD	K60067-5*	380-415V(±10%)/ 3Ph/50HZ/60HZ	1,200A/44V@ 60% 1,000A/44V@ 100%	69 @ 100%	200-1,200A	900 x 600 x 970	335

Increase Productivity, Quality and Flexibility

The Power Wave® AC/DC 1000® SD delivers Waveform Control Technology® to submerged arc welding. Choose constant current or constant voltage operation and set variable frequency and amplitude. Software-driven AC, DC positive or DC negative output allows the user to control the deposition rate and penetration. The result over conventional power sources is increased weld speeds, consistently higher quality welds and improved efficiencies in a single or multi-arc environment.

Processes

DC+ Submerged Arc
DC- Submerged Arc
Balanced AC Submerged Arc
Variable AC Submerged Arc



Power Wave® AC/DC 1000® SD



Key Features

- **380 - 575 VAC, 50/60Hz Voltage Input** – Offers the ability to be connected anywhere in the world.
- **Voltage Compensation and Reliable Input Voltage Connection** – Provides consistent operation over $\pm 10\%$ input voltage variation.
- **No Hardware Reconfiguration Required with Easy Polarity Switching** – Eliminates downtime.
- **Easy to Parallel Machines or Run Multiple Arcs.**
- **3-Phase Voltage Input** – Eliminates the imbalance associated with transformer-based AC welding machines.
- **95% Power Factor Correction** – Enables connection of multiple machines on the same plant infrastructure for lower installation costs.
- **Severe Duty** – Can be stored outdoors. IP23 Rated.
- **ArcLink®, Ethernet, and DeviceNet™ Communication** – Offers remote process monitoring, control and troubleshooting.
- **True Energy™** – Measures, calculates and displays instantaneous energy in the weld for critical heat input calculations.
- **CheckPoint™** – A cloud-based system to view or analyze your welding data. Track equipment usage, store weld data, configure fault limits and more.
- **iARC™ Digital Control** – 90 times faster than the previous generation, delivering a responsive arc.
- **Factory Burn-In Tested** – At maximum output for 2 hours to ensure quality and reliability.



Output



Input



www.lincolnelectric.com/green

Technical Specifications

Product Name	Product Number	Input Voltage	Rated Output Current/Voltage/Duty Cycle	Input Current @ Rated Output	Output Range	Dimensions H x W x D in. (mm)	Net Weight lbs. (kg)
Power Wave® AC/DC 1000® SD	K2803-1 ⁽¹⁾	380/400/460/500/575/3/50/60	1000A/44V/100%	82/79/69/62/55	100-1000A	49.2 x 19.2 x 46.2 (1250 x 488 x 1174)	800 (363)



LINC-CUT® S 1530w

PLUG & PLAY SYSTEM FOR PLASMA CUTTING

- Complete cutting system with high quality single-source components
- 2 year warranty
- Air plasma cutting
- For mild steel and stainless steel
- Sheet metal 1500 x 3000 mm
- Compact machine optimizing the floor space
- Fast installation with minimal learning curve for operators
- Ready for operation within less than one hour after delivery and installation

Applications

- Small metal fabrication shops
- Sheet metal contractors
- Custom vehicle fabricators
- Prototyping
- Education & training
- Hobbyists & artists



Machine	Article code	Dimensions (mm)	Cut area (mm)	Weight (kg)	Water capacity (l)	Power demands	Machine ground	Product name	Supply voltage	Rated output current	Power demands	Output range (A)	Air pressure required (Bar)	Air flow rate (l/min)	HxWxD (mm)	Weight (kg)
LINC-CUT® S 1530w	AS-CM-LCS1530WF125	2400x4200 x1600*	1500x3000	900	400	230V/4A 1Ph 50/60Hz HMI and CNC controller	Dedicated earth ground supplied by other	FlexCut® 125 CE	400 VAC 3Ph 50/60Hz	125A/175V/100%	100% 40A	20-125	6,21-8,27	260	526x 311x648	53,5

*Add a minimum safety zone to these dimensions
800mm for operator access areas
Machine placed on concrete slab, flatness of the slab ± 10mm,
drop 30mm (5mm/m max)

- The water table makes it possible to capture the dust released during cutting.
- The residual gases which escape remain below the exposure limit values in workshop conditions of sufficient dimensions with air renewal and an average effective cutting time of 2 hours.
- Load capacity adapted to sheet format 1500x3000 mm in thickness 20 mm.
- Capacity 25 mm on half the surface

LINC-COBOT



THE LINC-COBOT ROBOTIC WELDING SYSTEM EASILY MOVES TO PARTS THAT NEED TO BE WELDED AND CAN BE SAFELY OPERATED IN TANDEM WITH YOUR PRODUCTION STAFF.



Intelligent Torch System

Guide the robot into the correct position by hand, using the torch-mounted enabling device. Use the torch handle to manipulate the finishing push and weld points when in the joint. Operators with any skill level can teach at the torch.



Dual-Action Pushbutton Interface

Record points directly at the torch, reducing the cumbersome part programming. The pushbutton interface designed directly into the torch, allows the operator to record approach and weld start/end points, as well as change robot translation.



Touch Panel Tablet Teach Pendant

The new tablet teach pendant, featuring icon-based, timeline programming reduces the learning curve. Simply swipe icons in or out of the timeline, or tap them to modify. Including the Lincoln Arc Welding Plug-in.

BENEFITS:

- **Increase productivity**, with a collaborative robot system that your operators can work alongside with
- **Teach at the torch**, designed for an operator at any level of experience with robotics
- **Simplified programming**, icon-based programming is designed for straightforward, user-friendly operation.
- **Flexible work zone**, bring the cobot to every part. Providing greater flexibility of your welding throughout your facility.
- **Small footprint**, optimize your work space

Product Name	Product Number	Footprint Dimensions L x W (mm)	Weight(kg)	Cart Payload (kg)
Linc-Cobot CE Pack	AS-RM-2461-3	1595 x 815	433	226
Tooling table	AS-RP-TABLE800x800	800x 800	115	

LINC-COBOT CE Pack

- Fanuc CRX 10iA/L with Tablet-Based Teach Pendant
- Integrated Pushbutton Torch Control
- Power Wave® R450 Robotic Power Source
- AutoDrive® 4R100 Wire Feeder
- Magnum® PRO Robotic torch
- Fixed Welding Table
- Heavy Duty Casters
- Stabilizing Kickstand
- Utility Drawer & Tablet Tray
- Arc visual protection



Optional system

- Tooling H28 Table 800x800x25mm
- MOBILEFILTER Fume Extractor *



*Fume Extraction performance will depend on final application and working environment. For operators safety but also for the protection of the environment, user has to collect and filter welding fumes. Consult us to see the possible options.



WELDING COLUMN & BOOM LINC-MATIC CB-L C SERIES

Model	Vertical boom travel	Vertical boom speed	Horizontal boom travel	Horizontal boom speed	Traveling way	Traveling speed	Rotation
C&B 5050 Motorized Base	5000mm	1100(mm/min)	5000mm	175- 1750(mm/min)	Motorized traveling	2500 mm/min	±175° (by manual)






C&B size type	Flex Fab MD5050
Boom end load capacity	250kg
Vertical boom travel	5000 mm
Vertical boom speed	1100 mm/min
Horizontal boom travel	5000 mm
Horizontal boom speed	175-1750 mm/min
Boom end cross slide	Motorized 200*200 mm -Mechanical Seam Tracker include
Rotation	±175° manual with lock
Base Traveling way	Motor on the rail
Voltage	380V or 415V±10% 50Hz 3Phase
Control system	Remote control 15m cable
Color	RAL 3002 RED+9005 Black








SCOPE OF SUPPLY

Various Brands under Lincoln Electric

	USA / Poland / China	All Kind Of Equipments And Consumables
	UK / Netherlands	Low Alloy And Creep Resistance Alloy Consumables
	France / Romania	Low Hydrogen Consumables
	France	Welding Automation
	Canada	Aluminium Consumables

	USA	Nickel Alloy Consumables
	USA / Mexico	Gas Cutting Equipment
	France / Netherlands / Italy	Carbon Steel, Low Hydrogen, Low Alloy Consumables

CONSUMABLES

CARBON STEEL & LOW ALLOY – PIPING, SKID, PRESSURE VESSEL, OFFSHORE

PRODUCT	A W S CODE
AS B-255 H4R VACUUM PACK	E7018-1 H4R
EASYARC 7018	E7018-1
SUPERCITO 7018	E7018-1 H4
LNT 25	ER70S-3
LNT 26/MERIT JG-56	ER70S-6
LNT 24	ER70S-2



PRODUCT	A W S CODE
EXCALIBER 8018-C3 H4R	E8018-C3 H4R
LNT Ni1	ER80S-Ni1
KRYO 1P	E8018-G H4R
LNT 28	ER80S-G
CHROMET-1	E8018-B2 H4R
ER80S-B2	ER80S-B2
L61/S2Si	EM12K
780/960/860/SJ101	F7A2/F7A4
OESD3/L50M/PREMIER WELD H12K	EH12K
OP121TT/P240/888	F7A8-P8
LNS150	EB2
LNS164	EF3
LNS160	ENi1
SUPRAMIG	ER70S-6



CELLULOSIC ELECTRODES - PIPE LINE

PRODUCT	A W S CODE
PIPELINER 6P+	E6010
PIPELINER 7P+	E7010-P1
PIPELINER 8P+	E8010-P1,E8010-G
PIPELINER 16P+	E7016-1 H4

SPECIAL APPLICATION - OIL FIELD, SHUT DOWN PROJECT

PRODUCT	A W S CODE
EXCALIBER 10018-D2	E10018-D2 H4R
ER80S- D2	ER80S- D2
E16-8-2-15	E16-8-2-15
GRINOX 29	E312-16
SUPRANOX RS310	E310-16
INTERROD 310	ER310

SS DUPLEX / SUPER SUPLEX

A W S CODE	
316L-16	309LMO-16
308L-16	2209
309L-16	2594





TEE DEE



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