POWERTEC[®] i COMPACT RANGE

i250 · i320 STANDARD i250 · i320 · i380 · i450 ADVANCED

www.lincolnelectric.eu



POWERTEC

ELECTRI

1450



CHOOSE LINCOLN FOR EXCELLENT AND EFFICIENT MIG/MAG AND MMA WELDING

The Legend + MORE

POWERTEC® i COMPACTS RANGE are built on latest Lincoln power source platform, ensuring optimal **MIG/MAG** and **MMA** welding performance with excellent power cost efficiency.

Six models are available: 250A, 320A, 380A and 450A power sources with a choice of either the **STANDARD** panel (i250 & i320) or the **ADVANCED** panel (i250, i320, i380 & i450), that meet most customer's needs and cover a wide range welding applications.

POWERTEC® i380C & 450C ADVANCED have the option of water cooling by simply adding the new COOLARC® 26.



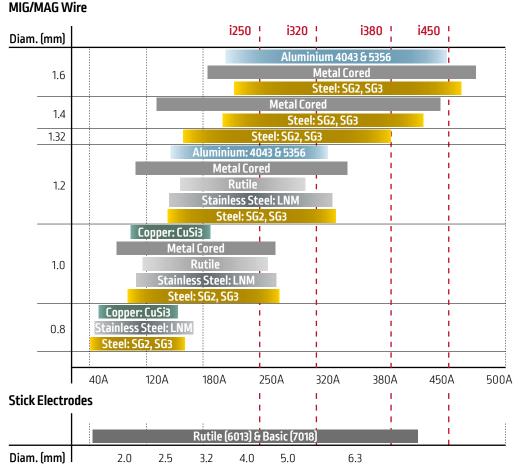
ADVANCED VERSION



PREMIUM ARC PERFORMANCE

- **ARC INITIATION** Repeatable arc ignition with outstanding arc characteristics.
- **ARC STABILITY** Excellent arc stability, ensuring a smooth droplet transfer, with reduced spatter.
- ARC DYNAMICS Rapid parameter adjustment allowing variability under welding conditions.





SPECIFICATIONS

Product	luct Item Number	Version	Input (V)		Weight	Dimensions	Protection		
Flouder	item Number	VEISION	input (v)	100%	60%	40%	(kg)	W x L x D (mm)	Class
Powertec i250C	K14157-1	Standard				-			
Powertec i320C	K14158-1	Stanuaru	400V 3Ph	105	250	320	67	540 x 900 x 870	IP23
Powertec i250C	K14157-2			195	250	-			
Powertec i320C	K14158-2	A shuse so a sh	± 15% 50/60 Hz			320			
Powertec i380C	K14180-1	Advanced		240	320	380	69.2	F (0 + 0 0 0 + 0 7 0	
Powertec i450C	K14181-1			420	450 (80%)	-	80.4	560 x 900 x 870	

Processes

GMAW FCAW-G FCAW-S SMAW CAG (only i450)

Welding of:

Steel Stainless Steel Low Alloy Steel Aluminium MIG Brazing

Applications

General Fabrication Construction site Maintenance and Repair Light Industrial

Input



Output

CC CV	DC
----------	----

INNOVATIVE INTUITIVE INTERFACES

Simple navigation also when using welding gloves

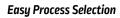
STANDARD Version

- Manual setup for voltage and wire feed speed
- Quick Welding Process & Shielding Gas selection button
- Quick access to the most commonly used welding parameters (Inductance, 2/4 Stroke, Run-in, Burn-back)



ADVANCED Version

- Easy setting by selecting process & material thickness
- Synergic lines, Limits, Memories
- Visualisation of useful information (ARCFX[™]) joint configuration, welding defects...)
- Multi-language navigation menu
- Full Support Menu: technical data, accessories, instructions, safety







MORE FUNCTIONS & FEATURES

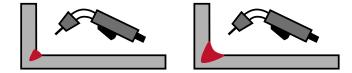
AUTO-SETTINGS Preset parameters to increase productivity

USB CONNECTIVITY

Easy software update & diagnostics, weld log for quality monitoring

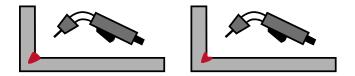
ArcFX[™] TECHNOLOGY

Patented technology providing instant graphical feedback on how Wire Feed Speed and Voltage affect rhe weld outcome.



How does wire feed speed affect my weld?

Wire Feed Speed – As your wire feed speed is increased the weld penetration increases, and as your wire feed speed is decreased, the weld penetration decreases. Notice the changes to the weld puddle in the image shown abowe.



How does voltage affect my weld?

Voltage – Arc voltage affects the arc length. At the same wire feed speed, as voltage increases, the arc length gets longer and as voltage decreases, the arc length gets shorter. The length of the arc in turn determines the width and size of the arc cone. Notice the changes to the weld puddle in the image shown above.



PERFECT FEEDABILITY





Inspection window: easier



notification for spool change



Optimized wire positioning: improved arc stability & reduced gun vibration

READY FOR TOMORROW

The new European regulation for Welding Equipment will soon be implemented and will require a phase out of conventional equipment.

The new **POWERTEC® i** family complies with this regulation by having a minimum power source efficiency of 85% & an idle consumption which is below the new tolerated limit.

* 350A, 2 shifts a day with 30% operator factor

Depending on your application, welding parameters & duty cycle, you can save up **3.700 kWh***

(~480 €) per year and per equipment.



ALL MACHINES

BUILT FOR THE HEAVIEST **INDUSTRIAL** CONDITIONS

Developed and tested under the hardest conditions (TRUE HD) to grant the reliability you need.

- Fully encapsulated and vertical mounted
- Capable of surviving the harshest testing Conditions
- Varnished and potted electronic boards









www.lincolnelectric.eu



BUY NOW, BE READY FOR TOMORROW AND START SAVING TODAY





Product	Model	Welding parameters	Setting	Synergic Modes	Support on screen ^[2]	ARCFX™	Memories / JOBs / Limits	Locking function	USB	Languages selection	Cooler connection	Others
Powertec i250C	Ctandard	LEDs	Manual	(-) (I)								
Powertec i320C	Standard	meters	Mdfiudi	[7] [1]	-	-	-	-	-	-		-
Powertec i250C				25					•		-	
Powertec i320C		7 TFT colour screen	Auto	25	_	Joint visualization	•		Software	•		Procedure A/B Quick Trigger
Powertec i380C	Advanced	with ARCFX™	/ Manual	28	•	Work point in A/	(49)	•	update Welding Data	•		Push-Pull Gun Joystick Gun
Powertec i450C		ARLEA		33		mm			Colection		•	JUYSLICK UUII

(1) Welding Process & Shielding Gas Selection: MIG / FCW Manual with MIX, CO2, Ar gas & STICK mode (2) Technical data, list of accessories, instructions & safety information directly on the screen

COOLARC[®] 26

More functions and features



(Back side view)

Built-in handle for easy transportation

> Cooler fully controlled by power source: AUTO/ON/OFF for better energy savings and extended service life





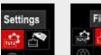
Weight (kg) Dimensions Protection **Cooling power** Reservoir Product Input (V) Item Number @1L/min (kW) WxLxD(mm) capacity (L) Class 230/400V COOLARC[®] 26 IP23 K14182-1 ±15% 0.84 4 18 260 x 150 x 680 50/60 Hz

New COOLARC® 26 cooler fully controlled by power source



Cooler Menu is available when cooler is connected

Settings: 3 Modes of operation available:





1. AUTO 2. OFF 3. ON



Filling Procedure step by step detail filling instruction

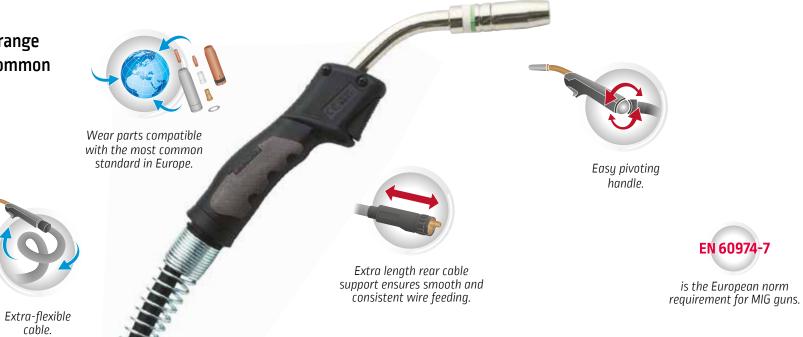




POWERTEC[®] I COMPACT RANGE

LGS2 TORCHES

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



Choose your gun	Series	Size	Rate	160A	180A	200A	230A	250A	270A	330A	350A	420A	500A	TO ORDER		
rating calculated using CO2		150G												3 m	4 m	5 m
		250G												W10429-15-3M	W10429-15-4M	W10429-15-5M
Air cooled	LGS2	240G	60%											W10429-25-3M	W10429-25-4M	W10429-25-5M
	LUJZ													W10429-24-3M	W10429-24-4M	W10429-24-5M
Water cooled		360G												W10429-36-3M	W10429-36-4M	W10429-36-5M
		505W	100%											W10429-505-3M	W10429-505-4M	W10429-505-5M

MODEL			WATER COOLING			
MODEL		LGS2-150G	LGS2-250G	LGS2-240G	LGS2-360G	LGS2-505W
Duty cycle (CO	D₂ shielding gas)	180 A @ 60%	230 A @ 60%	250 A @ 60%	330 A @ 60%	500 A @ 100%
Applications		Thin plates, automotive industry	Thin plates, light fabrication	Thin plates, light fabrication	Vessel manufacture, steel structures	Heavy duty, high production
Wire diamete	er	Up to 1.0 mm	Up to 1.2 mm	Up to 1.2 mm	Up to 1.6 mm	Up to 2.4 mm
Original	Contact tip	0.8 mm	1.0 mm	1.0 mm	1.2 mm	1.2 mm
equipment	Conical nozzle	12 mm	15 mm	12.5 mm	16 mm	16 mm

9

ACCESORIES • Optional ✓ Included				Powertec [®]				
		STAN	IDARD		ADV <i>A</i>	NCED		
		i250C	i320C	i250C	i320C	i380C	i450C	
		K14157-1	K14158-1	K14157-2	K14158-2	K14180-1	K14181-1	
Control panel cover KIT	K14174-1			•		~	(
Bumpers KIT	K14177-1			•		~	/	
Polarity change KIT	K14173-1			•		~	(
Cooler COOLARC [®] 26	K14182-1			_		•	•	
Coolant FREEZCOOL 9,6L	W000010167 -					•		
Gas flow meter KIT	K14175-1		•					
Gas heater KIT	K14176-1			•				
12PIN Remote Control KIT	K14172-1		_			•		
6-PIN/12-PIN adapter	K2909-1		_			•		
Remote control (IPOT, required K14172-1 and K2909-1 adapter KITs)	K10095-1-15M		_			•		
Remote control MIG 7M (required K14172-1 KIT)	K14091-1		_			•		
Water cooled Push-Pull gun LG PPLG405WC 8m (required K14172-1 kit)	K10413-PPW405-8M			_		•		
Cable with Electrode holder 400A/70mm ² - 5m	E/H-400A-70-5M	•						
Adapter for spool type S300 (300mm)	K10158	•						
Adapter for spool type S300 (300mm)	K10158-1				•			
Adapter for spool S200 (200mm)	R-1019-125-1/08R				•			



www.lincolnelectric.eu

ACCESORIES

ROLL KIT 0.6/0.8VT FI37 4PCS GREEN/BLUE ROLL KIT 0.8/1.0VT FI37 4PCS BLUE/RED	KP14150-V06/08 KP14150-V08/10
ROLL KIT 1.0/1.2VT FI37 4PCS RED/ORANGE	KP14150-V10/12 *
ROLL KIT 1.2/1.6VT FI37 4PCS ORANGE/YELL	KP14150-V12/16
ROLL KIT 1.6/2.4VT FI37 4PCS YELL/GREY	KP14150-V16/24
ROLL KIT 0.9/1.1VT FI37 4PCS	KP14150-V09/11
ROLL KIT 1.4/2.0VT FI37 4PCS	KP14150-V14/20

* Included as standard in every product version

Each item # contains:

- metal wire guide for Euro socket
- 4 rolls
- plastic wire guide set



Color differentiation for wire diameter:

Roll Kit For Aluminium Wires	
ROLL KIT 0.6/0.8AT FI37 4PCS GREEN/BLUE	KP14150-U06/08A
ROLL KIT 0.8/1.0AT FI37 4PCS BLUE/RED	KP14150-U08/10A
ROLL KIT 1.0/1.2AT FI37 4PCS RED/ORANGE	KP14150-U10/12A
ROLL KIT 1.2/1.6AT FI37 4PCS ORANGE/YELL	KP14150-U12/16A
ROLL KIT 1.6/2.4AT FI37 4PCS YELL/GREY	KP14150-U16/24A

Roll Kit For Cored Wires

ROLL KIT 1.2/1.6RT FI37 4PCS ORANGE/YELL	KP14150-V12/16R
ROLL KIT 1.4/2.0RT FI37 4PCS	KP14150-V14/20R
ROLL KIT 1.6/2.4RT FI37 4PCS YELL/GREY	KP14150-V16/24R
ROLL KIT 0.9/1.1RT FI37 4PCS	KP14150-V09/11R
ROLL KIT 1.0/1.2RT FI37 4PCS -/ORANGE	KP14150-V10/12R
	I

Wire Guides

Wire Guide Set Blue 0.6÷1.6	0744-000-318R
Wire Guide Set Red 1.8÷2.8	0744-000-319R

SOLID WIRES	0.6	0.8	1.0	1.2	1.6	2.4	0.9	1.1	1.4	2.0
KP14150-V06/08										
KP14150-V08/10										
KP14150-V10/12										
KP14150-V12/16										
KP14150-V16/24										
KP14150-V09/11										
KP14150-V14/20										

ALUMINIUM WIRES	0.6	0.8	1.0	1.2	1.6	2.4	0.9	1.1	1.4	2.0
KP14150-U06/08A										
KP14150-U08/10A										
KP14150-U10/12A										
KP14150-U12/16A										
KP14150-U16/24A										

CORED WIRES	0.6	0.8	1.0	1.2	1.6	2.4	0.9	1.1	1.4	2.0
KP14150-V12/16R										
KP14150-V14/20R										
KP14150-V16/24R										
KP14150-V09/11R										
KP14150-V10/12R										

CUSTOMER ASSISTANCE POLICY

The business of The Lincoln Electric Company® is manufacturing and selling high quality welding equipment, consumables, and cutting equipment. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or advice about their use of our products. Our employees respond to inquiries to the best of their ability based on information provided to them by the customers and the knowledge they may have concerning the application. Our employees, however, are not in a position to verify the information provided or to evaluate the engineering requirements for the particular weldment. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or advice. Moreover, the provision of such information or advice, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or advice, including any implied warranty of merchantability or any customers' particular purpose is specifically disclaimed.

Lincoln Electric is a responsive manufacturer, but the selection and use of specific products sold by Lincoln Electric is solely within the control of, and remains the sole responsibility of the customer. Many variables beyond the control of Lincoln Electric affect the results obtained in applying these types of fabrication methods and service requirements.

Subject to Change – This information is accurate to the best of our knowledge at the time of printing. Please refer to www.lincolnelectric.eu for any updated information.





