

POWERTEC® i **COMPACT RANGE**

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

The range consists of: 250A, 320A, 380A and 450A power sources with a choice of either the STANDARD panel (i250C & i320C) or the ADVANCED panel (i250C, i320C, i380C & i450C), that meet most customers' needs and covers a wide range of welding applications.

The Plug & Play water cooler COOLARC® 26 is available for **POWERTEC® i380C & i450C ADVANCED**.



From now on all newly manufactured Powertec-I Compact machines are equipped with Lincoln Electric **Premium MIG guns LINCGUN® PROMIG™** and offered as **READY-PACKS.**

Water Cooled version available – **PACK** includes **cooler** installed and **coolant!**

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













POWERTEC® I COMPACT AVAILABLE NOW IN THE PACKS

COLOR ADVANCED PANEL

POWERTEC® i250C & i320C ADV



POWERTEC® i250C LINCGUN® PROMIG™ 270 4m

POWERTEC® i320C LINCGUN® PROMIG™ 300 4m

POWERTEC® i380C, i450C ADV **AIR**



LINCGUN® PROMIG™3004m

POWERTEC® i380C POWERTEC® i450C LINCGUN® PROMIG™ 4004m

POWERTEC® i380C, i450C ADV **WATER**



POWERTEC® i380C LINCGUN® PROMIG™330W4m COOLARC®-26 **FREEZCOOL**

POWERTEC® i450C **LINCGUN®** PROMIG™ 400W 4m COOLARC®-26 **FREEZCOOL**

POWERTEC® i250C & i320C STD



POWERTEC® i250C LINCGUN® PROMIG™ 270 4m

E USER INTERFACE

SIMPLI

STANDARD PANEL

POWERTEC® i320C **LINCGUN®** PROMIG™3004m

UNIT INCLUDES: LincGun® Promig™ 4m (all versions), Coolarc®- 26 and Freezcool (only i380C, i450C Water Pack version), Input cable (5 m), Ground cable (3 m), Gas hose (2 m), Rolls 1.0 / 1.2 for solid wire, USB with Operator's Manual, Control panel cover (i380C, i450C)

ADVANCED

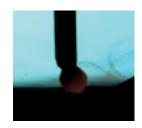
Product	Reference	Input (V)	Fuse Type rG or Circuit Breaker Type Z	Rated Output	Output Range (A)	Wire Feed Type / Speed Range (m/min)	Weight (kg)	Dimensions H x W x D (mm)	Protection Class	Pack includes:	
Powertec® i250C Adv Pack	K14285-2		16A	250A@60%	10-250					LincGun® Promig™ 270 4m (W000345061-2)	
Powertec® i320C Adv Pack	K14287-2		20A	320A@40%	10-320		70				LincGun® Promig™ 300 4m (W000345067-2)
Powertec® i380C Air Pack	K14288-2	400\/ 2Db :450/	25A	380A@40%	10-380					LincGun® Promig™ 300 4m (W000345067-2)	
Powertec® i450C Air Pack	K14289-2	- 400V 3Ph ±15% 50/60 Hz	32A	400A@80%	10-450	4R / 1-20	82	560 x 935 x 878	IP23	LincGun® Promig™ 400 4m (W000345073-2)	
Powertec® i380C Water Pack	K14288-3	-	25A	380A@40%	10-380		70			LincGun® Promig™ 330W 4m (W000345064-2), Coolarc®-26 (K14182-1), Freezcool (W000010167)	
Powertec® i450C Water Pack	K14289-3		32A	400A@80%	10-450		82			LincGun® Promig™ 400W 4m (W000345070-2), Coolarc®-26 (K14182-1), Freezcool (W000010167)	

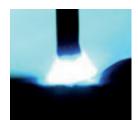
STANDARD

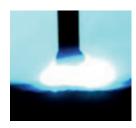
Powertec® i250C STD Pack	K14284-2	400V 3Ph ±15%	16A	250A@60%	10-250	4D /1 20	60	070 y 560 y 025	IDaa	LincGun® Promig™ 270 4m (W000345061-2)
Powertec® i320C STD Pack	K14286-2	50/60 Hz	20A	320A@40%	10-320	4R / 1-20	69	878 x 560 x 935	IP23	LincGun® Promig™ 300 4m (W000345067-2)

PREMIUM ARC PERFORMANCE

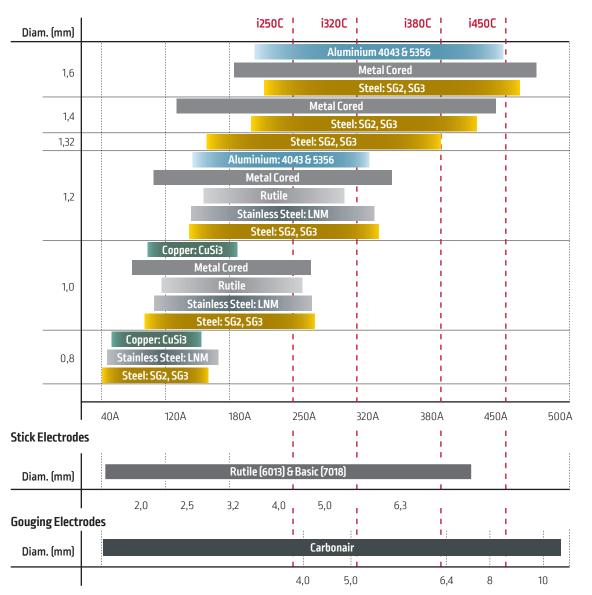
- ARC INITIATION Repeatable arc ignition with outstanding arc characteristics.
- **ARC STABILITY** Excellent arc stability, ensuring a smooth droplet transfer with reduced spatter.
- ARC DYNAMICS Rapid parameter adjustment allowing variability under welding conditions.







MIG/MAG Wire



Processes

- · GMAW
- · FCAW-G
- · FCAW-S
- · SMAW
- · CAG (only i450C)

Materials

- Steel
- · Stainless steel
- · Low alloy steel
- Aluminium
- MIG brazing

Applications

- General fabrication
- Construction site
- Maintenance and repair
- Light industrial







CLOCK & CALENDAR

Weld quality data can also be monitored, logged and recorded using a USB

Start Time	E	THE SECOND	A STATE OF THE PERSON NAMED IN	ALEX	Made	All	Job [Name]
2649,2020 21:33	5.49	164	21.13	36	1		
27/89/2020 19:53	1.49	165	21.25	23	3		
27/88/2020 19:55	1.49	143	21.35	15	3		
27/09/2020 19:59	1.49	142	21.16	32	3		
27.18.3606 18:53	640	215	214	32	12	3	Welder 1
27.14.2429 19.55	640	218	21.55	33	12	3	Welder 1
27.10.2020 10:58	640	229	21.45	31	12	3	Welder 1
27.18.2000 11.82	640	214	21.56	22	12	3	Welder 1
27.18.2020 11.98	640	219	25.3	25	12	3	Welder 1
27.16.2600 11:12	4.31	140	204	33	12		
27.16.2020 16:15	431	140	29.5	15	12		
27.16.2020 19:18	431	140	20.3	14	12		
27.16.2020 16:21	4.31	140	24.35	12	12		
27.18.3000 14:25	431	140	20.5	14	12		



SPEAKER

Additional audio signals when adjusting the encoders and when any improper operation is selected. Training, advertising and other video displays now also include sound



www.lincolnelectric.eu POWERTEC® i COMPACT RANGE 5

FUNCTIONALITIES & ERGONOMICS

Ergonomic design

• Tilting gas bottle tray for ease of loading

• Ideal height for easy-to-view settings

• Easy maneuverability and small footprint

• Convenient top-mounted expendable parts compartment



COOL ARC® 26 as option (only for i380C & i450C)



Gun rest

Tools storage



UI protection cover

7" color TFT screen

Simple navigation also when using welding gloves



Low gas cylinder

entry



Rubber bumpers protecting feet

(as standard for i380C & i450C)

4 lifting eyes for easy hook-in and safe transportation

Large wheels to easily and effortlessly overcome obstacles such as cables or thresholds



6

STATE OF THE ART TECHNOLOGY IN WIRE FEEDING

Professional wire feeding system — robust and precise

- 4 individually driven rolls for extremely stable wire feeding of various wire types
- Aluminum housing for a long service life
- Big roll diameter (37 mm) for optimal wire feeding
- Simple, tool-free roll change
- Factory-fitted with rolls for 1,0 mm and 1,2 mm steel and stainless steel

LED lights: better visibility

> Optimized wire positioning: improved arc stability & reduced gun vibration

> > Steel

Stainless steel Braze

3-5



Steel	
Stainless steel	3-5
Braze	
Flux cored	2,5-3,5
Aluminium	1,5-2,5

Individually adjustable contact pressure for the front and rear roll pair

Adjustable set-up for aluminium, steel, stainless steel, braze, flux cored wire



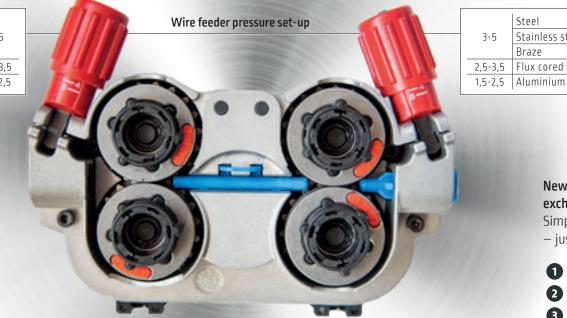
V-groove for stainless steel, steel



U-groove for aluminium

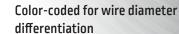


V-groove, knurled for flux cored wire



New locking system, quick exchange of roll and wire guides Simple, tool-free roll change just few steps

- Unlock the roll fastener
- Unlock pressure arm
- Exchange the roll











www.lincolnelectric.eu POWERTEC® i COMPACT RANGE

BUILT FOR DEMANDING INDUSTRIAL CONDITIONS

High duty cycle 420A/100% (i450C)

- High production efficiency
- Digital arc control
- True HEAVY DUTY

Inverter engine technology – ECO Friendly

- Lower energy consumption
- Automatic power-saving modes (standby/shutdown function)
- Generator ready

Lincoln Electric Industrial design — ready to use anywhere

- Safety class IP23, potted PCBs and no structural plastics
- 3 Year full parts and labour warranty





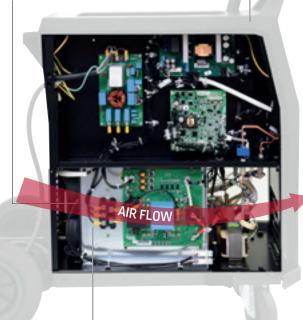




Easy maintenance and servicing

Easy access to internal components Software update via laptop or USB (Advanced version)

Intelligent F.A.N. [Fan As Needed]



Cooling tunnel design

POWERTEC® i COMPACT RANGE

INNOVATIVE, INTUITIVE USER INTERFACE — REDUCED TIME FOR TRAINING

Simple navigation also when using welding gloves

Innovative and easy communication

- Two controls, one button for easy navigation
- Icon language for key commands
- Easy process and settings selection
- ARCFX[™] joint visualization
- Work point in material thickness (mm) / WFS / A
- Locking function / Limits / Memories / Jobs
- Interface available in languages: English, German, French, Polish, Finnish, Spanish, Italian, Russian, Dutch, Romanian, Slovakian, Hungarian, Czech, Turkish, Portuguese



More functions & features



AUTO-SETTINGS

Preset parameters to increase productivity.



SPEAKER

Product operation (adjusting the encoders or pressing the button) and errors signaled by a sound.



USB CONNECTIVITY

Easy software update & diagnostics, weld log for quality monitoring.



CLOCK & CALENDAR

Simple welding quality monitoring as weld log data recording on USB.



STANDARD USER INTERFACE — BASIC SETTINGS

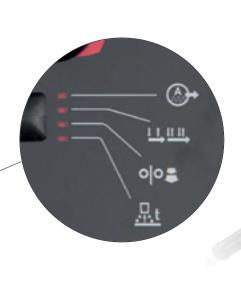
User memory programs & welding process change:

- Simple and quick selection by pressing the button of 4 welding programs stored in user memory or 3 welding processes (GMAW, FCAW, SMAW)
- LEDs showing the selected process

Quick and easy access to the most commonly used welding parameters:

- **Arc Controls** (depend on the welding program)
- Torch trigger mode 2-step/4-step
- Wire Feed Speed **Run-in** function
- Burn-back time





Sticker with description of all welding program numbers available.

STANDARD VS ADVANCED — COMPARISON OF FUNCTIONS AND FEATURES



ADVANCED		STANDARD
7" Color TFT	UI type	LED's
	Speakers	_
\checkmark	Clock and calendar	_
√	Display view configuration	_
\checkmark	Auto settings	_
√ (50)	Memory Jobs	√ [3+4]
V	Limits	_
√	Locking function	_
\checkmark	Languages	_
√	USB connectivity	_
\checkmark	Media files (Support)	_
√	Weld Logs / History	_
√	Quick Triger	_
√	Push-Pull gun	_
√	Cross-switch gun	_
√	A/B procedure	_
√	Software version	√
√	Factory Reset	√
√	Inductance	√
\checkmark	2T/4T Gun mode	\checkmark
√	Spot welding	√
√	Gas purge test	√
√	Cold Inch test	√
√	Preflow time	√
√	Run-in WFS	√
√	Start procedure	_
√	Crater procedure	√
√	Burnback time	√
√	Postflow time	√
√	Hot Start (SMAW)	√
\checkmark	Arc Force (SMAW)	√
ADVANCED	Welding Processes	STANDARD
	GMAW / FCAW	<u> </u>
	Stick mode	
✓	Synergic	√
√ (i450C)	CAG	_



Product	Model	Welding parameters	Setting	Synergic Modes	Support on screen ^[1]	ARCFX™	Memories / JOBs / Limits	Locking function	USB	Languages selection	Cooler connection	Others	
Powertec i450C		7 TFT		33		Joint			•				
Powertec i380C		colour screen		28	_	visualization	•	•		Software		_	Procedure A/B
Powertec i320C	Advanced	with	Auto		•	Work point in	[49]	[49]	updateWelding Data	•		Quick Trigger Push-Pull Gun	
Powertec i250C		ARCFX™	/ Manual	25		A/mm			Colection			rusii-ruii uuii	
Powertec i320C	Ctandard	LEDs		25			•				_		
Powertec i250C	Standard	meters			_	_	[3+4]	_	_	_		_	

COOL ARC® 26

More functions and features



New **COOL ARC® 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

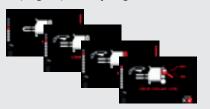






Filling Procedure

step by step detail filling instruction





PREMIUM MIG WELDING GUNS - LINCGUN® PROMIG™





		LG PROMIG 230T	LG PROMIG 270	LG PROMIG 300	LG PROMIG 400	LG PROMIG 330W	LG PROMIG 400W	LG PROMIG 500W
Dutu suds	CO ₂	230 A @ 60%	270 A @ 60%	300 A @ 60%	400 A @ 60%	330 A @ 100%	400 A @ 100%	500 A @ 100%
Duty cycle	M21	200 A @ 60%	240 A @ 60%	270 A @ 60%	370 A @ 60%	300 A @ 100%	370 A @ 100%	450 A @ 100%
Wire diameter	options	0.8-1.0 mm	0.8-1.0 mm	1.0-1.2 mm	1.0-1.6 mm	0.8-1.0 mm	1.0-1.2 mm	1.0-1.6 mm
Original	Contact tip	0.8 mm steel	1.0 mm steel	1.2 mm steel	1.2 mm steel	1.0 mm steel	1.2 mm steel	1.2 mm steel
equipment	Nozzle	Ø 12 mm	Ø 14 mm	Ø 16 mm	Ø16 mm	Ø 14 mm	Ø 16 mm	Ø 16 mm
Handle size, otl	ner feature	Small, rotatable swan neck for comfortable welding in hard-to-reach places	Small	Large	Large	Small	Small	Large
Typical applicat	tion	Thin plates, automotive industry, out of position welding	Thin plates, light, fabrication, locksmithing	Vessel, manufacture, steel structures, boiler making, structural steelwork	Thick plates, heavy duty welding when water cooling is not possible	Precision and high-intensity applications	Intensive applications such as boiler making, structural steelwork, mechanical welding	Thick plates, heavy duty welding
					Reference			
	3 m	W000275408-2	W000345060-2	W000345066-2	W000345072-2	W000345063-2	W000345069-2	W000345075-2
	4 m	W000275419-2	W000345061-2	W000345067-2	W000345073-2	W000345064-2	W000345070-2	W000345076-2
	5 m	W000275420-2	W000345062-2	W000345068-2	W000345074-2	W000345065-2	W000345071-2	W000345077-2

www.lincolnelectric.eu

LINCGUN® PROMIG™ UD — PARAMETER CONTROL

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



Two new models with parameter adjustment:





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



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



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

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

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

This functionality is available to Lincoln Electric machines with a 12 pin plug.



Technical specifications

Product Name	Product Number	Cooling	Duty Cycle	Length
LINCGUN PROMIG 300 UD 4M	W100000297	Air	300 A CO2 / 270 A M21 @ 60%	
LINCGUN PROMIG 500W UD 4M	W100000298	Water	500A CO2 / 450A M21 @100%	4m

Both models are a part of the LINCGUN PROMIG family, which means:

- Highly resistant to mechanical damage and high temperatures
- Long-life, proprietary wear parts delivering up to 70% more welding wire per contact tip
- Dedicated high quality liners ensuring smooth wire feeding
- Simplified use and wear parts management to reduce downtime
- Extended warranty
- Delivered ready to weld: with a long-life contact tip and a liner
- Compliant with EN 60974-7 norm

For more information on any of the guns seen here, go to www.lincolnelectric.eu

ACCESSORIES			Powertec®							
					STANDARD					
				Water PACK Air PACK						
• Optional	✓ Included	i450C	i380C	i450C	i380C	i320C	i250C	i320C	i250C	
		K14289-3	K14288-3	K14289-2	K14288-2	K14287-2	K14285-2	K14286-2	K14284-2	
Control panel cover KIT	K14325-1		v	/			•	•		
Bumpers KIT	K14328-1		v	/			•	•		
Polarity change KIT	K14173-1		v	/			•	•		
Cooler COOL ARC® 26	K14182-1	•	/		•		-	_		
Coolant FREEZCOOL 9,6 I	W000010167	•	/		•		-	_		
Cable Management KIT	K14201-1				(•				
Gas flow meter KIT	K14175-1					•				
Gas heater harness KIT	K14176-1					•				
12PIN Remote Control KIT	K14290-1				_					
6-PIN/12-PIN adapter	K2909-1	•						_		
Remote control (1POT, required K14290-1 and K2909-1 adapter KITs)	K10095-1-15M	•						_		
Remote control MIG 7M (required K14290-1 KIT)	K14091-1		•					-	-	
RC7 Advanced remote control (required K14290-1 KIT)	K14203-1				•			_		
Cable with Electrode holder 400A/70 mm ² – 5 m	E/H-400A-70-5M					•				
Adapter for spool type S300 (300 mm)	K10158					•				
Adapter for spool type S300 (300 mm)	K10158-1					•				
Adapter for spool S200 (200 mm)	R-1019-125-1/08R					•				
Wire feeder drum quick connector	K14204-1			T-	1	•				
FLAIR 600 Gouging torch with airflow regulated	W000010136	•	_	•			-			
LINCGUN® PROMIG™ 270 - 4m air cooled	W000345061-2			•			✓	•	√	
LINCGUN® PROMIG™ 300 - 4m air cooled	W000345067-2	•			√	✓	•	√	•	
LINCGUN® PROMIG™ 400 - 4m air cooled	W000345073-2	•	•	✓			•			
LINCGUN® PROMIG™ 330W - 4m water cooled	W000345064-2	•	✓		•					
LINCGUN® PROMIG™ 400W - 4m water cooled	W000345070-2	✓		•			-	_		
LINCGUN® PROMIG™ 300 UD - 4m (required K14290-1 KIT)	W100000297	-	-			•		_	-	
LINCGUN® PROMIG™ 500W UD - 4m (required K14290-1 KIT)	W100000298		•	• (with	CA26 inst.)			_		

LE-E2-22EN-M14

ACCESSORIES

Wire Guides

Pall Vit for solid wires	
Euro Wire Guide 1,8-2,8	D-1829-066-5R
Euro Wire Guide 0,6-1,6	D-1829-066-4R
Wire Guide Set Red 1,8-2,8	0744-000-319R
Wire Guide Set Blue 0,6-1,6	0744-000-318R

Roll Kit for solid wire

KOII KIL IOI SOIIU WII ES	
Roll Kit 0,6 / 0,8VT Fl37 4 rolls (green/blue)	KP14150-V06/08
Roll Kit 0,8 / 1,0VT Fl37 4 rolls (blue/red)	KP14150-V08/10
Roll Kit 1,2 / 1,6VT FI37 4 rolls (orange/yellow)	KP14150-V12/16
Roll Kit 1,6 / 2,4VT FI37 4 rolls (yellow/grey)	KP14150-V16/24
Roll Kit 0,9 / 1,1VT FI37 4 rolls	KP14150-V09/11
Roll Kit 1,4 / 2,0VT FI37 4 rolls	KP14150-V14/20

Roll Kit for aluminium wires

Roll Kit 0,6 / 0,8AT FI37 4 rolls (green/blue)	KP14150-U06/08A
Roll Kit 0,8 / 1,0AT Fl37 4 rolls (blue/red)	KP14150-U08/10A
Roll Kit 1,0 / 1,2AT Fl37 4 rolls (red/orange)	KP14150-U10/12A
Roll Kit 1,2 / 1,6AT FI37 4 rolls (orange/yellow)	KP14150-U12/16A
Roll Kit 1,6 / 2,4AT Fl37 4 rolls (yellow/grey)	KP14150-U16/24A
Roll Kit for cored wires	
Roll Kit 1,2 / 1,6RT FI37 4 rolls (orange/yellow)	KP14150-V12/16R
Roll Kit 1,4 / 2,0RT Fl37 4 rolls	KP14150-V14/20R
Roll Kit 1,6 / 2,4RT Fl37 4 rolls (yellow/grey)	KP14150-V16/24R
Roll Kit 0,9 / 1,1RT Fl37 4 rolls	KP14150-V09/11R
Roll Kit 1,0 / 1,2RT FI37 4 rolls (–/orange)	KP14150-V10/12R



Each item # contains:

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

CUSTOMER ASSISTANCE POLICY

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

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

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



