



POWERTEC® i COMPACT RANGE

i250C · i320C STANDARD
i250C · i320C · i380C · i450C ADVANCED



www.lincolnelectric.eu

POWERTEC® i COMPACT RANGE

The **POWERTEC® iCOMPACTS 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.

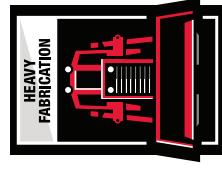
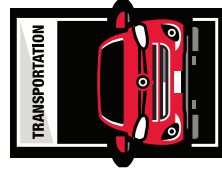
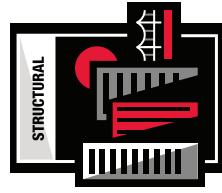
The Plug & Play water cooler **COOLARC® 26** is available for **POWERTEC® i380C & i450C ADVANCED**.

NEW

From now on all newly manufactured Powertec-I Compact machines are equipped with Lincoln Electric **Premium MIG guns LINGGUN® 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

ADVANCED
ADVANCED PANEL 7" TFT COLOR SCREEN

POWERTEC® i250C ADV



PACK



PACK



PACK



PACK



PACK



PACK



PACK



STANDARD
STANDARD PANEL SIMPLE USER INTERFACE

POWERTEC® i380C, i450C ADV
WATER

POWERTEC® i380C, i450C ADV
AIR

POWERTEC® i250C & i320C STD

POWERTEC® i250C + POWERTEC® i320C
LINCUN® PROMIG™ 270 4m + LINCUN® PROMIG™ 300 4m

POWERTEC® i380C + POWERTEC® i450C
LINCUN® PROMIG™ 300 4m + LINCUN® PROMIG™ 400 4m

POWERTEC® i380C + POWERTEC® i450C
LINCUN® PROMIG™ 330W 4m + LINCUN® PROMIG™ 400W 4m
COOLARC®-26 FREEZCOOL

POWERTEC® i250C + POWERTEC® i320C
LINCUN® PROMIG™ 270 4m + LINCUN® PROMIG™ 300 4m

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

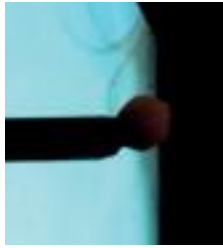
Product	Reference	Input (V)	Fuse Type I _g or Circuit Breaker Type Z	Rated Output	Output Range (A)	Wire Feed Type / Speed Range (m/min)	Weight (kg)	Dimensions H x W x D (mm)	Protection Class	Pack includes:
PowerTEC® i250C Adv Pack	K14285-2	400V 3Ph ±15% 50/60 HZ	16A	250A@60%	10-250	4R / 1-20	70	560 x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

STANDARD

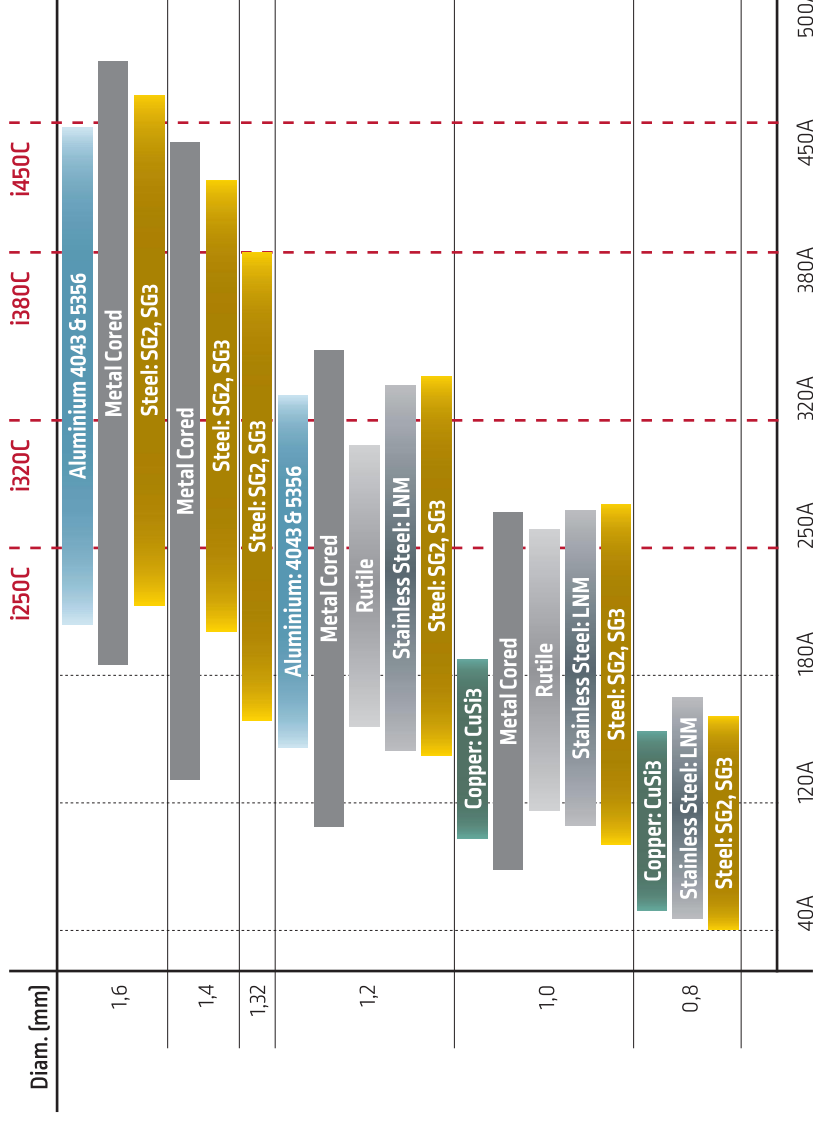
PowerTEC® i250C STD Pack	K14284-2	16A	250A@60%	10-250	4R / 1-20	69	878 x 560 x 935	IP23	LincGun® Promig™ 270 4m (W000345061-2)
PowerTEC® i320C STD Pack	K14286-2	20A	320A@40%	10-320					LincGun® Promig™ 300 4m (W000345067-2)

PREMIUM ARC PERFORMANCE

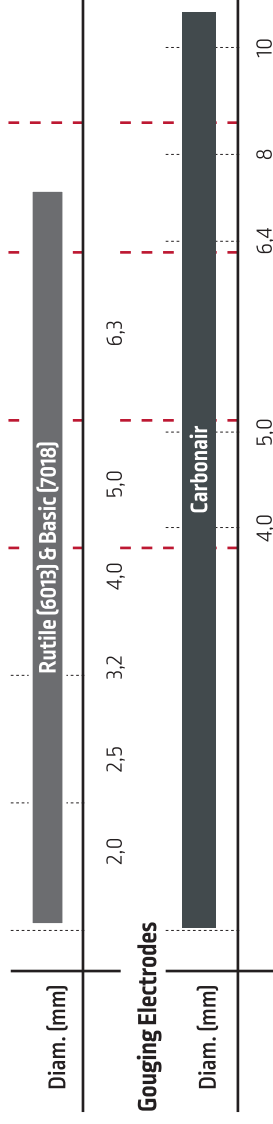
- **ARC INITIATION** – Repeatable arc ignition with outstanding arc characteristics.
- **ARC STABILITY** – Excellent arc stability, ensuring a smooth droplet transfer with reduced spatter.
- **ARC DYNAMICS** – Rapid parameter adjustment allowing variability under welding conditions.



MIG/MAG Wire



Stick Electrodes



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

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



**LED lighting inside
feeder chamber**



Inspection window



**Low gas cylinder
entry**



UI protection cover

7" color TFT screen

Simple navigation also when using
welding gloves

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

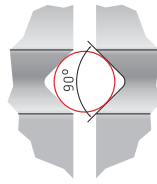
STATE OF THE ART TECHNOLOGY IN WIRE FEEDING

Professional wire feeding system – robust and precise

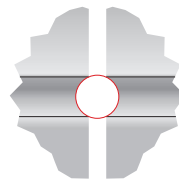
- 4 individually driven rolls for extremely stable wire feeding of various wire types
- Aluminum housing for a long service life
- Big roll diameter (37 mm) for optimal wire feeding
- Simple, tool-free roll change
- Factory-fitted with rolls for 1,0 mm and 1,2 mm steel and stainless steel

Individually adjustable contact pressure for the front and rear roll pair

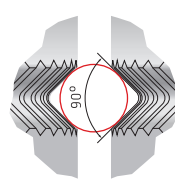
Adjustable set-up for aluminium, steel, stainless steel, braze, flux cored wire



V-groove for stainless steel, steel



U-groove for aluminium



V-groove, knurled for flux cored wire

Color-coded for wire diameter differentiation



LED lights:
better visibility

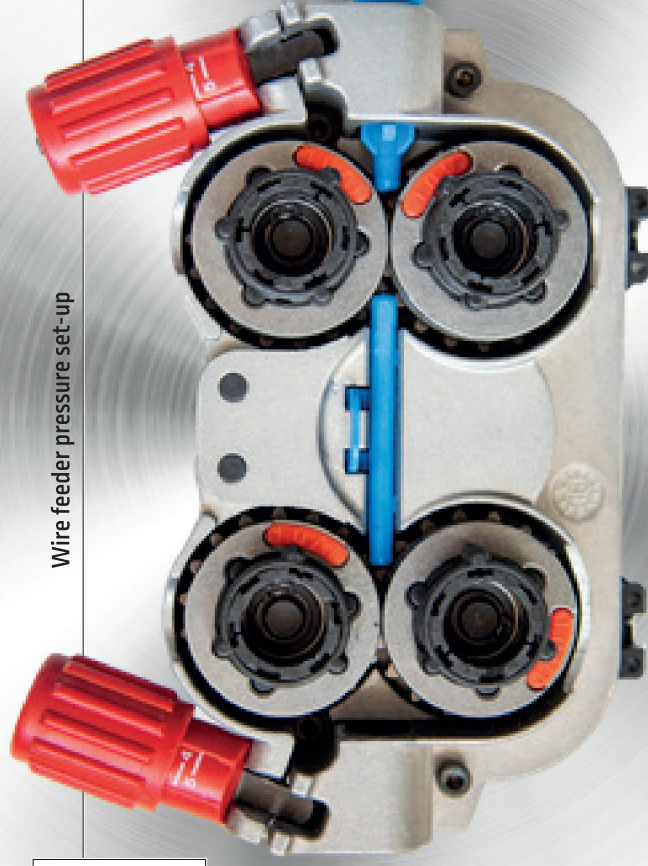
Optimized wire positioning:
improved arc stability & reduced gun vibration



Wire feeder pressure set-up

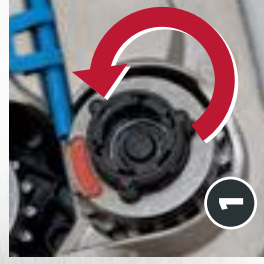
Steel	3-5
Stainless steel	
Braze	
Flux cored	2,5-3,5
Aluminium	1,5-2,5

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



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

- 1 Unlock the roll fastener
- 2 Unlock pressure arm
- 3 Exchange the roll



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

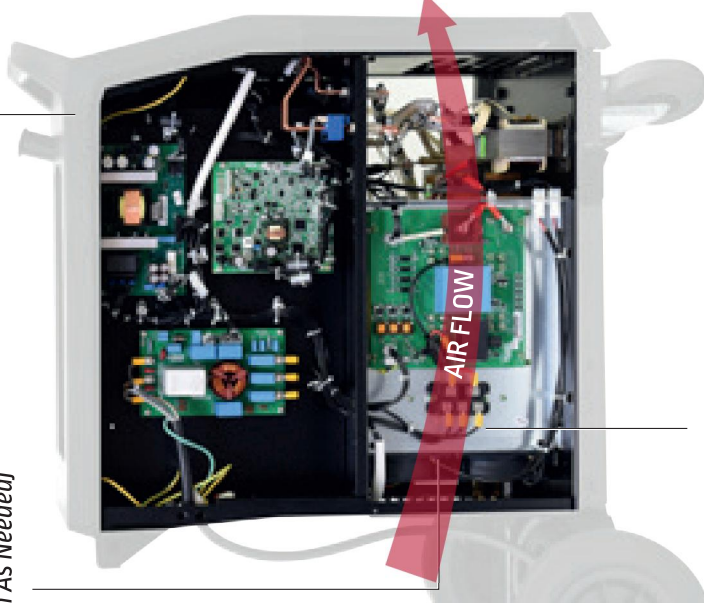
Lincoln Electric Industrial design – ready to use anywhere

- 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

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

7" COLOR DISPLAY!



More functions & features

Auto

AUTO-SETTINGS
Preset parameters to increase productivity.



USB CONNECTIVITY

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

NEW



SPEAKER

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

NEW



CLOCK & CALENDAR

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

STANDARD USER INTERFACE – BASIC SETTINGS

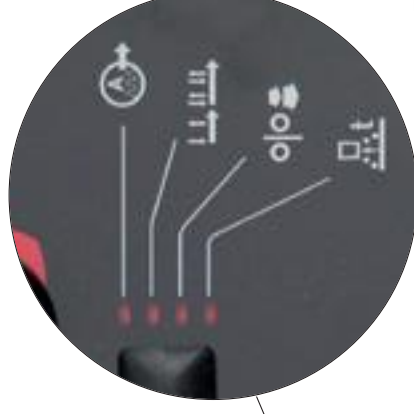
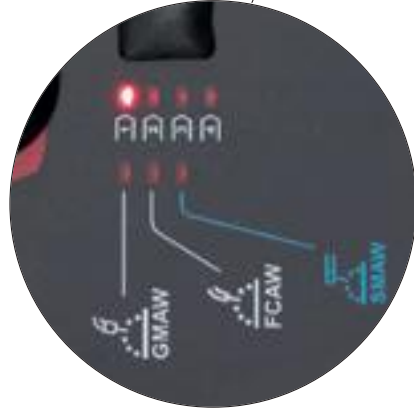
User memory programs & welding process change:

- 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

NEW
SYNERGIC
Capability

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
✓	Clock and calendar
✓	Display view configuration
✓	Auto settings
✓ [50]	Memory Jobs
✓	Limits
✓	Locking function
✓	Languages
✓	USB connectivity
✓	Media files [Support]
✓	Weld Logs / History
✓	Quick Triger
✓	Push-Pull gun
✓	Cross-switch gun
✓	A/B procedure
✓	Software version
✓	Factory Reset
✓	Inductance
✓	2T/4T Gun mode
✓	Spot welding
✓	Gas purge test
✓	Cold Inch test
✓	Preflow time
✓	Run-in WFS
✓	Start procedure
✓	Crater procedure
✓	Burnback time
✓	Postflow time
✓	Hot Start [SMAW]
✓	Arc Force [SMAW]
✓	Welding Processes
✓	GMAW / FCAW
✓	Stick mode
✓	Synergic
✓ [450C]	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	Advanced	7 TFT colour screen with ARCFX™	Auto / Manual	33	•	Joint visualization Work-point in A/mm	• (49)	•	• Software update Welding Data Collection	•	•	Procedure A/B Quick Trigger Push-Pull Gun
Powertec i380C				28								
Powertec i320C				25								
Powertec i250C												
Powertec i320C	Standard	LEDs meters			–	–	• [3+4]	–	–	–	–	–
Powertec i250C												

(1) Technical data, list of accessories, instructions & safety information directly on the screen

COOL ARC® 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



Coolant filter
keeps coolant clean

LED lights inside reservoir
for clearer visibility of the coolant level

Flow sensor inside
for gun protection



Simple Connection and Easy Installation

New COOL ARC® 26 cooler fully controlled by power source



Cooler Menu is available when cooler is connected

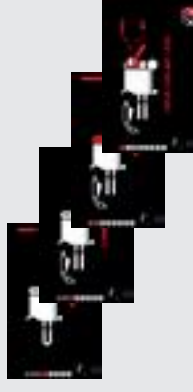
Settings: 3 Modes of operation available:



1. AUTO
2. OFF
3. ON



Filling Procedure
step by step detail filling instruction



PREMIUM MIG WELDING GUNS – LINCUN® PROMIG™

Nylon base with a fibre glass compound swan neck insulation

Water cooled swan necks

NEW

NEW

Mono-bloc nozzle: double nozzle seat insulation with PTFE and silicon glass

NEW

Ergonomic, flexible ball joint handle

NEW

Special handle construction with air pockets which insulate the handle from the heat and extend the life of the gun

Additional strengthening ring protecting the swan neck against mechanical damage

Reliable trigger tested in harsh conditions

NEW

Firm grip handle, two sizes

Unfailing power cables designed and engineered to withstand over 1 million bends

SMOOTH WIREFEEDING ENSURES CONTINUOUS WELDING

Special liners made of higher tensile raw materials produce stiffer liners, provide less friction and last longer



AIR-COOLED MODELS

LG PROMIG 230T

LG PROMIG 270

LG PROMIG 300

LG PROMIG 400

LG PROMIG 330W

LG PROMIG 400W

LG PROMIG 500W

Duty cycle

230 A @ 60%

270 A @ 60%

300 A @ 60%

400 A @ 60%

330 A @ 100%

400 A @ 100%

500 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 equipment

0.8 mm steel

1.0 mm steel

1.2 mm steel

1.0 mm steel

1.2 mm steel

1.2 mm steel

1.2 mm steel

Handle size, other feature

Ø 12 mm

Ø 14 mm

Ø 16 mm

Ø 16 mm

Ø 14 mm

Ø 16 mm

Ø 16 mm

Typical application

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

LINGGUN® PROMIG™ UD – PARAMETER CONTROL

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



NEW

Two new models with parameter adjustment:



Air Cooled
LINGGUN PROMIG
300 UD 4M
W100000297



Water Cooled
LINGGUN PROMIG
500W UD 4M
W100000298

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 choose 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
LINGGUN PROMIG 300 UD 4M	W100000297	Air	300 A CO2 / 270 A M21 @ 60%	4m
LINGGUN PROMIG 500W UD 4M	W100000298	Water	500A CO2 / 450A M21 @100%	

Both models are a part of the LINGGUN 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®									
ADVANCED									
Water PACK			Air PACK				STANDARD		
i450C	i380C	i450C	i380C	i320C	i250C	i320C	i250C	Air PACK	
K14289-3	K14288-3	K14289-2	K14288-2	K14287-2	K14285-2	K14286-2	K14284-2		
Control panel cover KIT		✓			•				
Bumpers KIT		✓			•				
Polarity change KIT		✓			•				
Cooler COOL ARC® 26	✓		•		–				
Coolant FREEZCOOL 9,6 l	✓		•		–				
Cable Management KIT			•						
Gas flow meter KIT			•						
Gas heater harness KIT			•						
12PIN Remote Control KIT			•					–	
6-PIN/12-PIN adapter			•					–	
Remote control (iPOT, required K14290-1 and K2909-1 adapter KITS)			•					–	
Remote control MIG 7M (required K14290-1 KIT)			•					–	
RC7 Advanced remote control (required K14290-1 KIT)			•					–	
Cable with Electrode holder 400A/70 mm ² – 5 m						•			
Adapter for spool type S300 (300 mm)						•			
Adapter for spool type S300 (300 mm)						•			
Adapter for spool S200 (200 mm)						•			
Wire feeder drum quick connector						•			
FLAIR 600 Gouging torch with airflow regulated	•	–	•						
LINGGUN® PROMIG™ 270 - 4m air cooled			•				✓	•	✓
LINGGUN® PROMIG™ 300 - 4m air cooled	•			✓				•	•
LINGGUN® PROMIG™ 400 - 4m air cooled	•							•	
LINGGUN® PROMIG™ 330W - 4m water cooled	•	✓						–	
LINGGUN® PROMIG™ 400W - 4m water cooled	✓		•					–	
LINGGUN® PROMIG™ 300 UD - 4m (required K14290-1 KIT)	–		•					•	–
LINGGUN® PROMIG™ 500W UD - 4m (required K14290-1 KIT)	•					•	[with CA26 inst.]	–	–

• Optional ✓ Included

ACCESSORIES

Wire Guides

Wire Guide Set Blue 0,6-1,6	0744-000-318R
Wire Guide Set Red 1,8-2,8	0744-000-319R
Euro Wire Guide 0,6-1,6	D-1829-066-4R
Euro Wire Guide 1,8-2,8	D-1829-066-5R
Roll Kit for solid wires	
Roll Kit 0,6 / 0,8VT FB37 4 rolls (green/blue)	KP14150-V06/08
Roll Kit 0,8 / 1,0VT FB37 4 rolls (blue/red)	KP14150-V08/10
Roll Kit 1,2 / 1,6VT FB37 4 rolls (orange/yellow)	KP14150-V12/16
Roll Kit 1,6 / 2,4VT FB37 4 rolls (yellow/grey)	KP14150-V16/24
Roll Kit 0,9 / 1,1VT FB37 4 rolls	KP14150-V09/11
Roll Kit 1,4 / 2,0VT FB37 4 rolls	KP14150-V14/20

Roll Kit for aluminium wires

Roll Kit 0,6 / 0,8AT FB37 4 rolls (green/blue)	KP14150-U06/08A
Roll Kit 0,8 / 1,0AT FB37 4 rolls (blue/red)	KP14150-U08/10A
Roll Kit 1,0 / 1,2AT FB37 4 rolls (red/orange)	KP14150-U10/12A
Roll Kit 1,2 / 1,6AT FB37 4 rolls (orange/yellow)	KP14150-U12/16A
Roll Kit 1,6 / 2,4AT FB37 4 rolls (yellow/grey)	KP14150-U16/24A
Roll Kit for cored wires	
Roll Kit 1,2 / 1,6RT FB37 4 rolls (orange/yellow)	KP14150-V12/16R
Roll Kit 1,4 / 2,0RT FB37 4 rolls	KP14150-V14/20R
Roll Kit 1,6 / 2,4RT FB37 4 rolls (yellow/grey)	KP14150-V16/24R
Roll Kit 0,9 / 1,1RT FB37 4 rolls	KP14150-V09/11R
Roll Kit 1,0 / 1,2RT FB37 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.



www.lincolnelectriceurope.com

LINCOLN
ELECTRIC