

DIGISTEEL COMPACT RANGE

255C · 325C
255C PRO · 325C PRO · 385C PRO · 455C PRO

www.saf-fro.com



WARRANTY
3
YEARS

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

DIGISTEEL COMPACT 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 C panel (255C & 325C) or the C PRO panel (255C PRO, 325C PRO, 385C PRO & 455C PRO), that meet most customer's needs and cover a wide range welding applications.

DIGISTEEL 385C PRO & 455C PRO have the option of water cooling by simply adding the new COOLARC® 26.

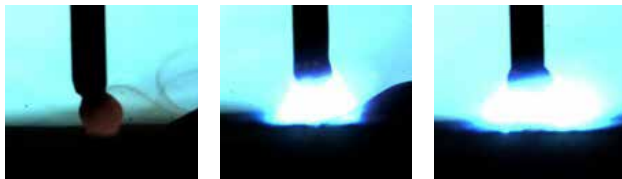
C version

C PRO version



PREMIUM ARC PERFORMANCE

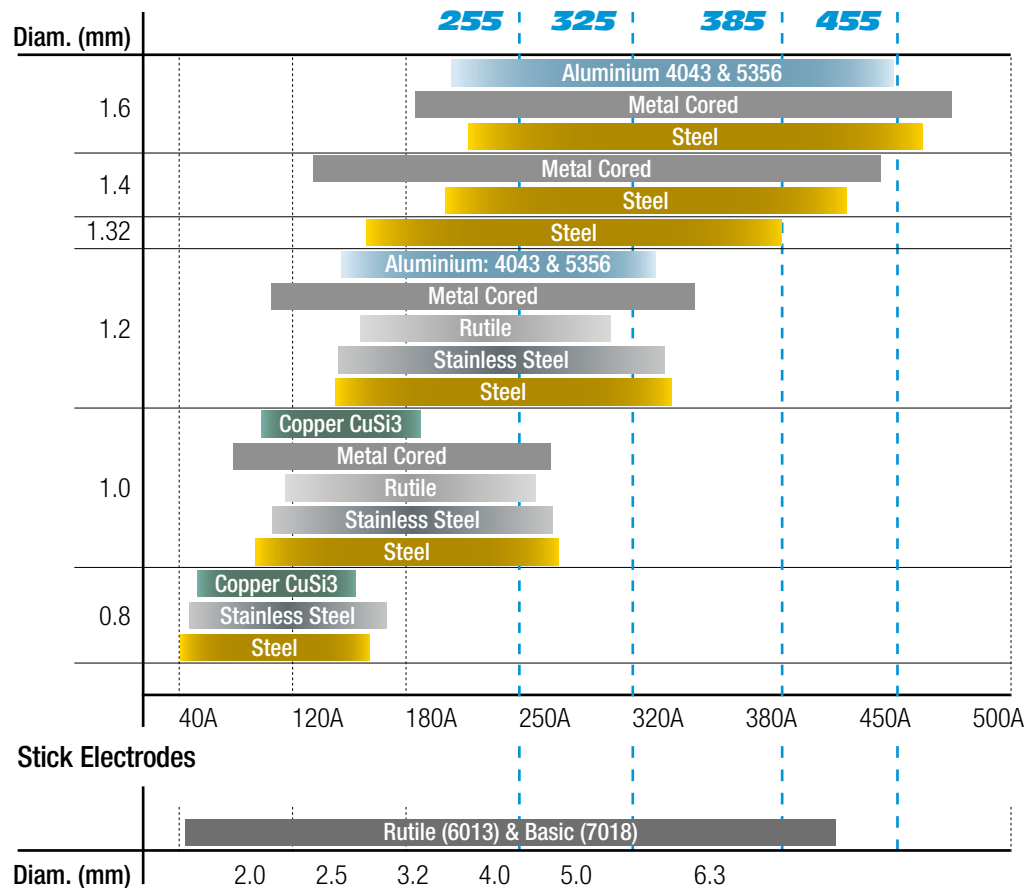
- **ARC INITIATION** – Repeatable arc ignition with outstanding arc characteristics.
- **ARC STABILITY** – Excellent arc stability, ensuring a smooth droplet transfer, with reduced spatter.
- **ARC DYNAMICS** – Rapid parameter adjustment allowing variability under welding conditions.



SPECIFICATION

Product	Item Number	Version	Input (V)	Rated Output (A)			Weight (kg)	Dimensions W x L x D (mm)	Protection Class
				100%	60%	40%			
Digisteel 255	W000404101	C	400V 3Ph ± 15% 50/60 Hz	195	250	-	67	540 x 900 x 870	IP23
Digisteel 325	W000404102					320			
Digisteel 255	W000404103	-							
Digisteel 325	W000404104	320							
Digisteel 385	W000404217	C PRO		240	320	380	69.2	560 x 900 x 870	
Digisteel 455	W000404218			420	450 (80%)	-			

MIG/MAG Wire



PROCESSES

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

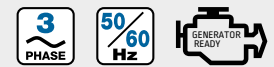
WELDING OF:

Steel
 Stainless Steel
 Low Alloy Steel
 Aluminium
 MIG Brazing

APPLICATIONS

General Fabrication
 Construction site
 Maintenance and Repair
 Light Industrial

INPUT



OUTPUT



INNOVATIVE INTUITIVE INTERFACES

Simple navigation also when using welding gloves

C 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)



C PRO 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



7" COLOR DISPLAY!

Easy Process Selection



MORE FUNCTIONS & FEATURES

Auto

AUTO-SETTINGS

Preset parameters to increase productivity

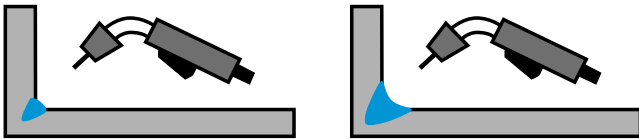


USB CONNECTIVITY

Easy software update & diagnostics, weld log for quality monitoring

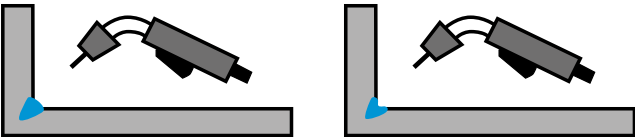
ArcFX™ TECHNOLOGY

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



How does wire feed speed affect my weld?

Wire **ed** – 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 above.

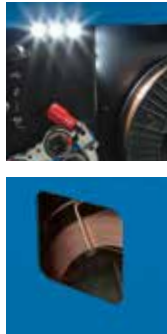


How does voltage affect my weld?

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



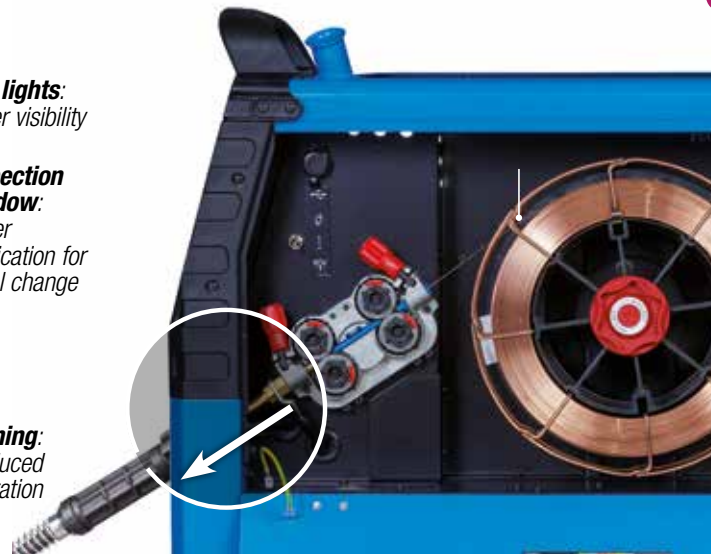
LED lights:
better visibility

Inspection window:
easier notification for spool change

4 rolls/ all driven:

- eliminates wire slipping
- no wire deformation

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

Depending on your application, welding parameters & duty cycle,
you can save up 3.700 kWh* (~480 €) per year and per equipment.



**BUY NOW,
BE READY FOR
TOMORROW AND
START SAVING
TODAY**

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

ALL MACHINES

BUILT FOR THE HEAVIEST INDUSTRIAL CONDITIONS

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

- PCB board made in Lincoln Electric Company
- Fully encapsulated and vertical mounted
- Capable of surviving the harshest testing conditions
- Varnished and potted electronic boards



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



Product	Model	Welding parameters	Setting	Synergic Modes	Support on screen (2)	ARCFX™	Memories / JOBs / Limits	Locking function	USB	Languages selection	Cooler connection	Others
Digisteel 255	C	LEDs meters	Manual	(7) (1)	-	-	-	-	-	-	-	-
Digisteel 325												
Digisteel 255	C PRO	7 TFT colour screen with ARCFX™	Auto / Manual	25	•	Joint visualization Work point in A/ mm	• (49)	•	• Software update Welding Data Collection	•	•	Procedure A/B Quick Trigger Push-Pull Gun Joystick Gun
Digisteel 325												
Digisteel 385												
Digisteel 455												

(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



Coolant filter
keep coolant clean

LED lights inside reservoir
for better visibility of the coolant level

Flow sensor inside
for gun protection



Simple Connection and Easy Installation

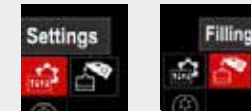


New COOLARC® 26 cooler fully controlled by power source

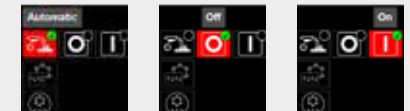


Cooler Menu is available when cooler is connected

Settings: 3 Modes of operation available:

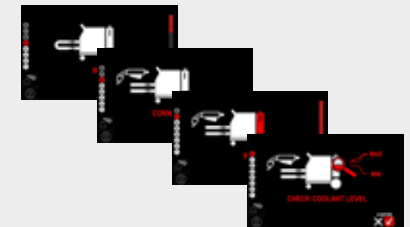


1. AUTO
2. OFF
3. ON



Filling Procedure

step by step detail filling instruction



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

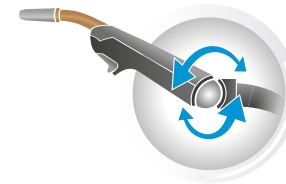


LGS2 TORCHES

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



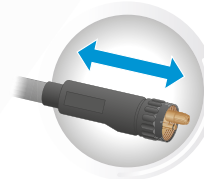
Wear parts compatible with the most common standard in Europe.



Easy pivoting handle.



Extra-flexible cable.



Extra length rear cable support ensures smooth and consistent wire feeding.



is the European norm requirement for MIG guns.

Choose your gun

rating calculated using CO₂

- Air cooled
- Water cooled

Series	Size	Rate	160A	180A	200A	230A	250A	270A	330A	350A	420A	500A
LGS2	150G	60%	Air cooled									
	250G		Air cooled									
	240G		Air cooled									
	360G		Air cooled									
	505W	100%	Water cooled									

TO ORDER

3 m	4 m	5 m
W10429-15-3M	W10429-15-4M	W10429-15-5M
W10429-25-3M	W10429-25-4M	W10429-25-5M
W10429-24-3M	W10429-24-4M	W10429-24-5M
W10429-36-3M	W10429-36-4M	W10429-36-5M
W10429-505-3M	W10429-505-4M	W10429-505-5M

MODEL	AIR COOLING				WATER COOLING
	LGS2-150G	LGS2-250G	LGS2-240G	LGS2-360G	LGS2-505W
Duty cycle (CO ₂ 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 diameter	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 equipment	Contact tip	0.8 mm	1.0 mm	1.0 mm	1.2 mm
	Conical nozzle	12 mm	15 mm	12.5 mm	16 mm

ACCESSORIES

• Optional ✓ Included

		DIGISTEEL					
		C		C PRO			
		255	325	255	325	385	455
		W000404101	W000404102	W000404103	W000404104	W000404217	W000404218
Control panel cover KIT	K14178-1			•			✓
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 (1POT, 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/70mm² - 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				•		

ADAPTER FOR SPOOL TYPE S300
K10158-1



REMOTE CONTROL
K10095-1-15M

ELECTRODE HOLDER
E/H-400A-70-5M



COOLARC® 26
K14182-1



ADAPTER FOR SPOOL TYPE S300
K10158



6-PIN/12-PIN ADAPTER
K2909-1



FREEZCOOL
W000010167



ACCESSORIES

Roll Kit For Solid Wires

ROLL KIT 0.6/0.8VT FI37 4PCS GREEN/BLUE	KP14150-V06/08
ROLL KIT 0.8/1.0VT FI37 4PCS BLUE/RED	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

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

Wire Guides

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

Each item # contains:

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



Color differentiation for wire diameter:

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	Green	Blue								
KP14150-V08/10		Blue	Red							
KP14150-V10/12			Red	Orange						
KP14150-V12/16				Orange	Yellow					
KP14150-V16/24					Yellow	Grey				
KP14150-V09/11										
KP14150-V14/20										

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

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



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CUSTOMER ASSISTANCE POLICY

The business of Lincoln Electric 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 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.

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