REDESIGNED
FOR BETTER PERFORMANCE

DIGISTEEL 380C PRO

SAF-FRO

DIGISTEEL
COMPACT RANGE

250C · 320C
250C PRO · 320C PRO · 380C PRO · 450C PRO

SAF-FRO

www.saf-fro.com

DIGISTEEL
COMPACT RANGE

The **DIGISTEEL COMPACTS RANGE** is built on the latest Saf-Fro 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 **C** panel (250C & 320C) or the **C PRO** panel (250C PRO, 320C PRO, 380C PRO & 450C PRO), that meet most customers' needs and covers a wide range of welding applications.

The Plug&Play water cooler **COOLARC® 26** is available for **DIGISTEEL 380C PRO & 450C PRO.**

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

C PRO

FULLY SYNERGIC
7" TFT COLOR SCREEN

DIGISTEEL 450C PRO
450A@80%

DIGISTEEL 380C PRO
380A@40%

DIGISTEEL 320C PRO
320A@40%

DIGISTEEL 250C PRO
250A@60%

C

MANUAL MIG
SIMPLE USER INTERFACE

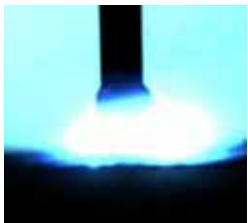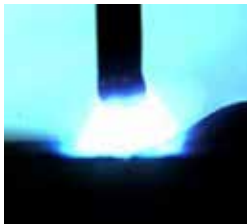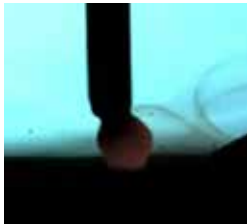
DIGISTEEL 320C
320A@40%

DIGISTEEL 250C
250A@60%

SPECIFICATION

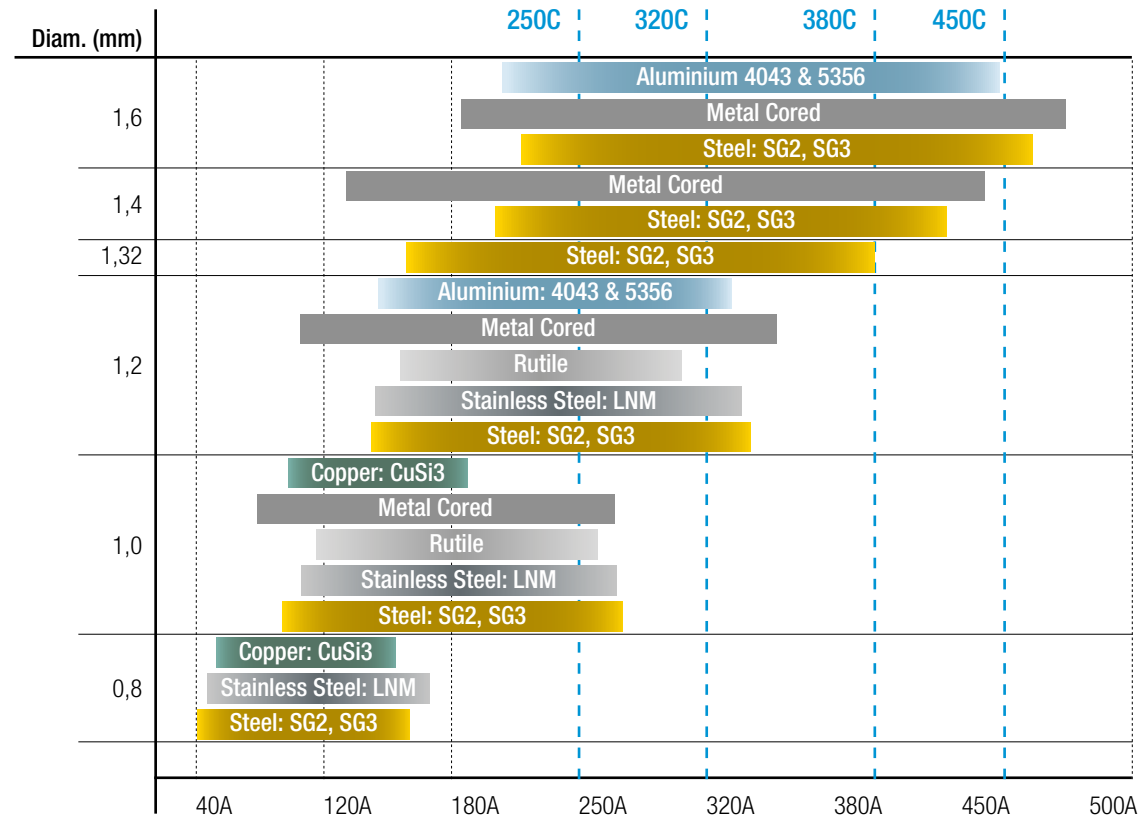| Product	Item Number	Input (V)	Rated Output (A)			Weight (kg)	Dimensions W x L x D (mm)	Protection Class
			100%	60%	40%			
DIGISTEEL 450C PRO	W100000095	400V 3Ph ± 15% 50/60 Hz	420	450 (80%)	–	80,4	560 x 900 x 870	IP23
DIGISTEEL 380C PRO	W100000094		240	320	380	69,2		
DIGISTEEL 320C PRO	W100000093		195	250	320	67	540 x 900 x 870	
DIGISTEEL 250C PRO	W100000091				–			
DIGISTEEL 320C	W100000092				320			
DIGISTEEL 250C	W100000090				–			

Product	Item Number	Input (V)	Cooling power @1l/min (kW)	Reservoir capacity (l)	Maximum Pressure (MPa)	Weight (kg)	Dimensions W x L x D (mm)	Protection Class
COOLARC® 26	K14182-1	230/400V ± 15% 50/60 Hz	0.84	4	0,47	18	260 x 150 x 680	IP23

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.

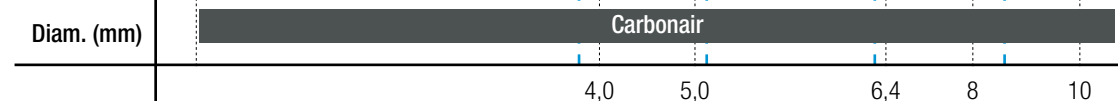- **ARC DYNAMICS** – Rapid parameter adjustment allowing variability under welding conditions.

MIG/MAG Wire

250C   320C   380C   450C

Diam. (mm)	
1,6	Aluminium 4043 & 5356
	Metal Cored
	Steel: SG2, SG3
1,4	Metal Cored
	Steel: SG2, SG3
1,32	Steel: SG2, SG3
1,2	Aluminium: 4043 & 5356
	Metal Cored
	Rutile
	Stainless Steel: LNM
	Steel: SG2, SG3
1,0	Copper: CuSi3
	Metal Cored
	Rutile
	Stainless Steel: LNM
	Steel: SG2, SG3
0,8	Copper: CuSi3
	Stainless Steel: LNM
	Steel: SG2, SG3

40A   120A   180A   250A   320A   380A   450A   500A

Stick Electrodes

Diam. (mm)	
	Rutile (6013) & Basic (7018)

2,0   2,5   3,2   4,0   5,0   6,3

Gouging Electrodes

Diam. (mm)	
	Carbonair

4,0   5,0   6,4   8   10

Processes

GMAW

FCAW-G

FCAW-S

SMAW

CAG *(only 450C)*

Materials

Steel

Stainless steel

Low alloy steel

Aluminium

MIG brazing

Applications

General fabrication

Construction site

Maintenance and repair

Light industrial

14:59

NEW ERGONOMIC HANDLE

For safe movement of the machine and an effortless grip, even when wearing gloves

CABLE MANAGEMENT SYSTEM

(option)
For easy transportation of the whole welding system, (cables, guns, etc.)

NEW ENCODERS

for more precise adjustment

CLOCK & CALENDAR

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

Start Time	Average WFS [m/min]	Average current [A]	Average voltage [V]	Arc Time [s]	Mode	Job	Job [Name]
26.09.2020 21:33	1.49	164	21.13	35	3	-	-
27.09.2020 19:53	1.49	165	21.23	23	3	-	-
27.09.2020 19:55	1.49	163	21.35	15	3	-	-
27.09.2020 19:59	1.49	162	21.16	32	3	-	-
27.10.2020 10:53	6.60	215	23.6	32	12	3	Welder 1
27.10.2020 10:55	6.60	218	23.55	33	12	3	Welder 1
27.10.2020 10:58	6.60	220	23.45	31	12	3	Welder 1
27.10.2020 11:02	6.60	214	23.56	32	12	3	Welder 1
27.10.2020 11:08	6.60	219	23.3	35	12	3	Welder 1
27.10.2020 11:12	4.31	140	20.4	33	12	-	-
27.10.2020 16:15	4.31	140	20.5	15	12	-	-
27.10.2020 16:18	4.31	140	20.3	14	12	-	-
27.10.2020 16:21	4.31	140	20.35	12	12	-	-
27.10.2020 16:25	4.31	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

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 380C & 450C)

Gun rest

Tools storage

LED lighting inside feeder chamber

UI protection cover

7" color TFT screen
Simple navigation also when using welding gloves

Inspection window

Low gas cylinder entry

Rubber bumpers protecting feet
(as standard for 380C & 450C)

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 (37mm) 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	3-5
Braze	
Flux cored	2,5-3,5
Aluminium	1,5-2,5

Wire feeder pressure set-up

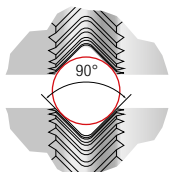|	Steel
3-5	Stainless steel
	Braze
2,5-3,5	Flux cored
1,5-2,5	Aluminium
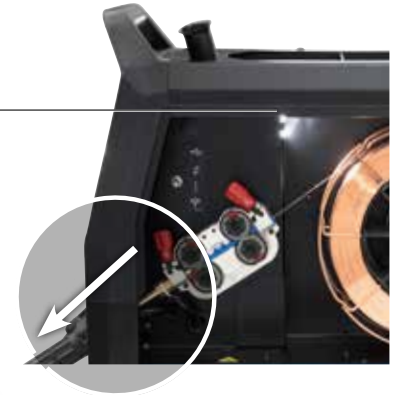
Individually adjustable contact pressure for the front and rear roll pair
Adjustable set-up for aluminium, steel, stainless steel, braze, flux cored wire
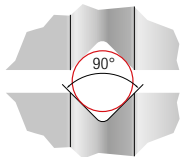
90°
V-groove
for stainless steel, steel
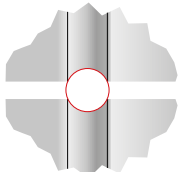
U-groove for aluminium

90°
V-groove, knurled for flux cored wire

Color-coded for wire diameter differentiation

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% (450C)

- High production efficiency
- Digital arc control
- True Heavy Duty

Inverter engine technology – ECO Friendly

- Lower energy consumption thanks to high efficiency – energy cost saving
- 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

TRUE HD
HEAVY DUTY TEST
LINCOLN ELECTRIC

ECO FRIENDLY WELDING & CUTTING

WARRANTY 3 YEARS

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

Intelligent F.A.N. (Fan As Needed)

AIR FLOW

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

## Welding Process & Shielding Gas Selection

- Welding characteristics optimized in terms of welding process (GMAW/FCAW or SMAW) selection and shielding gas type for the best dynamics and minimal spatter
- Simple and quick selection by pressing the button
- LEDs showing the selected process

Easy access to the most commonly used welding parameters:

- **Arc dynamics** (inductance effect – from soft to hard)
- Torch trigger mode 2-step / 4-step
- Wire Feed Speed **Run-in** function
- **Burn-back time**

Welding flowchart for easiest setting of all welding parameters
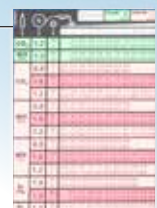
STANDARD VS ADVANCED – COMPARISON OF FUNCTIONS AND FEATURES

C PRO	Feature	C
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)	✓
C PRO	**Welding Processes**	**C**
✓	GMAW / FCAW	✓
✓	Stick mode	✓
✓	Synergic	–
✓ (450C PRO)	CAG	–

Product	Model	Welding parameters	Setting	Synergic Modes	Support on screen (2)	ARCFX™	Memories / JOBs / Limits	Locking function	USB	Languages selection	Cooler connection	Others
DIGISTEEL 450	C PRO	7 TFT colour screen with ARCFX™	Auto / Manual	33	●	Joint visualization Work point in A/mm	● (49)	●	Software update Welding Data Colection	●	●	Procedure A/B Quick Trigger Push-Pull Gun
DIGISTEEL 380				28								
DIGISTEEL 320				25								
DIGISTEEL 250												
DIGISTEEL 320	C	LEDs meters	Manual	(7) (1)	–	–	–	–	–	–	–	–
DIGISTEEL 250												

(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

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
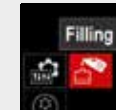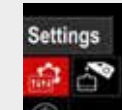
Simple Connection and Easy Installation

 Cooler Menu is available when cooler is connected

Settings: 3 Modes of operation available:

1. AUTO
2. OFF
3. ON
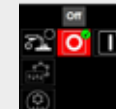
Filling Procedure
step by step detail filling instruction

LGS2 MIG GUNS

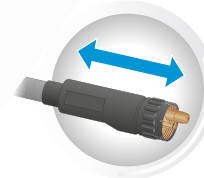**Simple and reliable, this range is adapted to the most common applications.**

Wear parts compatible with the most common standard in Europe.
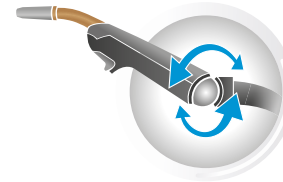
Easy pivoting handle.

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

Extra-flexible cable.

EN 60974-7

Compliant with the European requirement for MIG guns.

Choose your gun

Rating calculated using CO_2

▬	Air cooled
▬	Water cooled
▬	Dedicated guns

Series	Size	Rate	200A	230A	250A	270A	330A	350A	420A	500A
LGS2	250G	60%	▬▬▬▬							
	240G		▬▬▬▬▬							
	360G		▬▬▬▬▬▬▬							
	505W	100%	▬▬▬▬▬▬▬▬▬▬▬▬▬							

TO ORDER

3 m	4 m	5 m
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
		LGS2-250G	LGS2-240G	LGS2-360G	LGS2-505W
Duty cycle (CO_2 shielding gas)		230 A @ 60%	250 A @ 60%	330 A @ 60%	500 A @ 100%
Applications		Thin plates, light fabrication	Thin plates, light fabrication	Vessel manufacture, steel structures	Heavy duty, high production
Wire diameter		Up to 1,2 mm	Up to 1,2 mm	Up to 1,6 mm	Up to 2,4 mm
Original equipment	Contact tip	1,0 mm	1,0 mm	1,2 mm	1,2 mm
	Conical nozzle	15 mm	12,5 mm	16 mm	16 mm

● Optional ✔ Included

		DIGISTEEL					
		450C PRO	380C PRO	320C PRO	250C PRO	320C	250C
		W100000095	W100000094	W100000093	W100000091	W100000092	W100000090
Control panel cover KIT	K14326-1	✔	✔			●	
Bumpers KIT	K14328-1	✔	✔			●	
Polarity change KIT	K14173-1	✔	✔			●	
Cooler COOL ARC® 26	K14182-1	●				–	
Coolant FREEZCOOL 9,6 l	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			●			–
Water cooled Push-Pull gun LG PPLG405WC 8 m (required K14290-1 kit)	K10413-PPW405-8M	●				–	
PROMIG PP 341 8M (Standard)	W000385860			●			–
PROMIG PP 341 8M (Potentiometer)	W000385861			●			–
PROMIG PP 441W 8M (Standard)	W000385862	●				–	
PROMIG PP 441W 8M (Potentiometer)	W000385863	●				–	
Adapter 12PIN -> 19 PIN	W100000031			●			–
Cable with Electrode holder 400A/70 mm² – 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				●		

ADAPTER FOR SPOOL TYPE S300

K10158-1

PROMIG PP 341

W000385860
W000385861
W000385862
W000385863
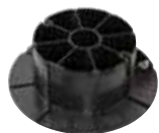
REMOTE CONTROL

K10095-1-15M

ELECTRODE HOLDER

E/H-400A-70-5M

COOL ARC® 26

K14182-1

ADAPTER FOR SPOOL TYPE S300

K10158

6-PIN/12-PIN ADAPTER

K2909-1

FREEZCOOL

W000010167

CABLE MANAGEMENT KIT

K14201-1

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 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 Fl37 4 rolls (orange / yellow)	**KP14150-V12/16**
Roll Kit 1,6 / 2,4VT Fl37 4 rolls (yellow / grey)	**KP14150-V16/24**
Roll Kit 0,9 / 1,1VT Fl37 4 rolls	**KP14150-V09/11**
Roll Kit 1,4 / 2,0VT Fl37 4 rolls	**KP14150-V14/20**

Roll Kit for aluminium wires

Roll Kit 0,6 / 0,8AT Fl37 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 Fl37 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 Fl37 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 Fl37 4 rolls (– / orange)	**KP14150-V10/12R**

Each item # contains:

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

www.saf-fro.com

SF-E2-20EN-M77I