

COMPLETE SOLUTION FOR INDUSTRY

CITOSTEEL -S RANGE

Reliable workhorses are coming. They are as solid as always, more convenient than ever, and superbly productive. These products will help you get more things done. Based on modern inverter technology, now which separate wire feeders. This is another, decisive step into the future of professional welding. With a specially designed, rugged construction, which is subjected to a large variety of tests, they are ready to work in even the most demanding environmental and production conditions. The devices are dedicated especially for heavy-fabrication, structural, transportation, shipbuilding and off-shore industries.

The design of **CITOSTEEL** series is the one that truly stands out. It is ergonomic and efficient in every detail. Various configuration systems, separated wire feeding units, intuitive display interface (7" color TFT), dedicated accessories, and many other features will meet all your industrial welding needs while enhancing your capabilities.









CITOSTEEL-S RANGE



COOLARC® 26



CITOSTEEL -S RANGE is a brand new range of Oerlikon products based on the latest inverter platform, combining modularity, ease of use and optimal **MIG/MAG** or **MMA** welding performance with excellent power cost efficiency. Three power sources: **355S, 425S** and **505S** with a choice of separate wire feeders, standard **WF 52D** for basic use, or the advanced **WF 56D** for more demanding applications, helps customer to fulfill every possible welding needs.

All **CITOSTEEL -S** have the option of water cooling by simply adding the new **COOLARC® 26**.





CHOOSE OERLIKON
FOR COMPLETE SOLUTION
FOR INDUSTRIAL USERS
WITH NEW HEAVY DUTY
DESIGN







NEW ERGONOMIC DESIGN



Simple navigation also when using welding gloves

Practical handle for effortless gripping even with gloves and safe movement of the machine



Cable Management System (option)

For easy transportation of the whole welding system even with very long connection cable

Heavy duty undercarriage

- Extremely reliable and stable, passed incline stability tests on 15°
- Low gas cylinder entree makes loading very easy
- Quick and easy securing of the shielding gas cylinder



and safe transportation

TRUE RELIABILITY



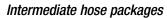
Cable connections on front (in standard) and back rear side (in option)
All cable connections can easily be made without tools



Practical, big storage locker inside the power source with key lock, internal lights, for accessories like gun, gloves, rolls, contact tips, etc.

Large wheels for easily effortlessly overcome obstacles such as cables or thresholds

Very solid, stable, metal made construction



Heavy-duty protective hose and military-quality plugs Strain reliefs on both ends to keep connections well protected A wide range of lengths to choose (up to 30 m), water or air



RELIABLE WORKHORSES

High duty cycle 420A/100% (425S & 505S)

- High production efficiency
- Digital welding current control
- True HD tested made for the harsh environmental conditions

Inverter engine technology – ECO Friendly

- Lower power consumption thanks to high efficiency — energy cost saving
- Automatic power-saving modes (standby/shutdown function)
- Generator ready

Oerlikon Industrial design

- ready to use anywhere
- Safety class IP23, potted PCBs and no structural plastics
- 3 Year full parts and labor warranty









Easy maintenance and servicing

Easy access to all components inside Software update via laptop or USB (WF 56D)

Intelligent F.A.N. (Fan As Needed) in the inverter

Variable speed controlled fan (energy-saving) Low pollution and quiet fan noise



Cooling tunnel design

components arranged to protect against dust and dirt

OPTIMIZED ERGONOMICS



Gun Holder: always at hand, ready to work

Lifting eye – crane suspension
For vertical and suspension operation
For safe and easy transportation



Front UI protection cover keep your UI safe



Professional wire feeding system
Four driven wire feed rolls
Excellent wire feeding on every material
Permanent internal lights
Wire inching gas test toggle switch



Big wheels as standard for mobility



Flowmeter for shielding gas flow setting (option) Precise adjustment directly on site Practical especially with long hose packages





Full access for wire spool installation

STATE OF THE ART TECHNOLOGY IN WIRE FEEDING

Professional wire feeding system – robust and precise

- 4 individually driven rolls for extremely stable wire feeding for 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



Connection for drum feed (optional adapter). Less need to change wire spools saves time

Steel Stainless steel Braze

Steel		
Stainless st	eel 3 ÷ 5	
Braze		
Flux cored	$2,5 \div 3,5$	
Aluminium	1,5 ÷ 2,5	

Individually adjustable contact pressure for the front and rear roll pair Differently set-up for aluminium, steel, stainless steel, braze, flux cored wire



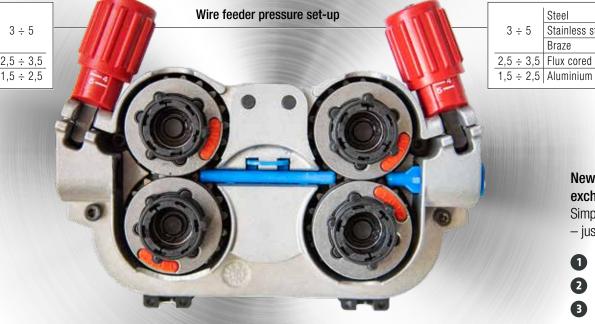
V-groove for stainless steel, steel



U-groove for aluminium



V-groove, knurled for flux cored wire



Color-coded for wire diameter differentiation









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

DESIGNED TO ENHANCED YOUR WELDING CAPABILITY



INNOVATIVE INTUITIVE INTERFACES

Simple navigation also when using welding gloves

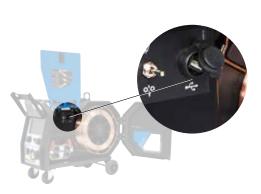


WF 56D

Innovative and easy communication

- Two controls, one button for easy navigation
- Icon language for key commands
- ARCFXTM joint visualization
- Work point in material thickness [mm] / WFS / A
- Locking function / Limits / Memories / Jobs
- Languages (tailor-made language version possible to add)





MORE FUNCTIONS & FEATURES



AUTO-SETTINGS

Preset parameters to increase productivity



USB CONNECTIVITY

Easy software update & diagnostics, weld log for quality monitoring

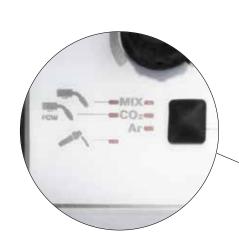


WF 52D

Intuitive and simple in use - reduced time for training

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
- LED's showing the selected process

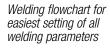




Direct access to the most commonly used welding parameters:

- Arc dynamics (choke effect) from soft to hard
- Torch trigger mode 2-step / 4-step
- Run-in WFS sets the wire feed speed from the time the torch trigger is pressed until an arc is established
- Burn-back time prevents the wire from sticking in the puddle and prepares the end of the wire for the next arc start







STANDARD VS ADVANCED

Comparison of functions and features



WF 52D		WF 56D
LED's	UI type	7'' Color TFT
_	Display view configuration	✓
_	Auto settings	✓
_	Memory Jobs	√ (50)
_	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)	✓
STANDARD	Welding Processes	ADVANCED
✓	GMAW / FCAW	✓
✓	Stick mode	✓
_	Synergic	✓
_	CAG	✓





COOLARC® 26

More functions and features



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



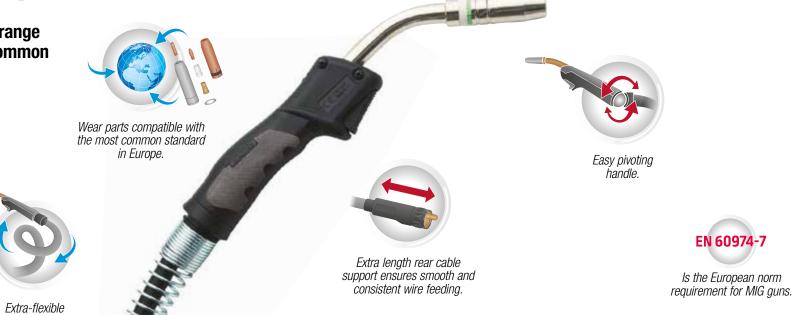




LGS2 MIG GUNS

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

cable.



Choose your gun

Rating calculated using CO₂

Air cooled
Water cooled
Dedicated guns

Series	Size	Rate	200A	230A	250A	270A	330A	350A	420A	500A
LGS2	250G									
	240G	60%								
	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
WIUDEL		LGS2-250G	LGS2-240G	LGS2-360G	LGS2-505W
Duty cycle (CO ₂ sh	nielding 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	Contact tip	1,0 mm	1,0 mm	1,2 mm	1,2 mm
Original equipment	Conical nozzle	15 mm	12,5 mm	16 mm	16 mm



WATER COOLED PUSH PULL GUN



Feed rolls, for soft wire

Wire guide sets for torch neck

	0,8-1,0 mm	1,2 mm	1,6 mm	-	-
PA Liner with outlet guide for PP-LG	KP10417-8	KP10417-9	KP10417-10	_	_
Bronze liner for PP-LG, L= 300 mm	KP10417-11	KP10417-12	KP10417-13	-	_
Liner for PP-LG, L= 300 mm	KP10417-14	KP10417-15	KP10417-16	_	_

S53131-7

S53131-8

Wire guides for cable assemblies

Ò-Ring

KP10470-2

Liner collet

KP10436-4

	_	-	-	0,8-1,6 mm	1,0-1,6 mm
Liner w/o insulation 8 m	_	_	_	KP10411-8M	_
PA-liner 8m	_	_	_	-	KP10430-8M

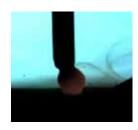
Top Features

High quality rugged linc welding gun built to Oerlikon standards

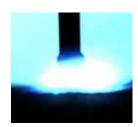
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PREMIUM ARC PERFORMANCE

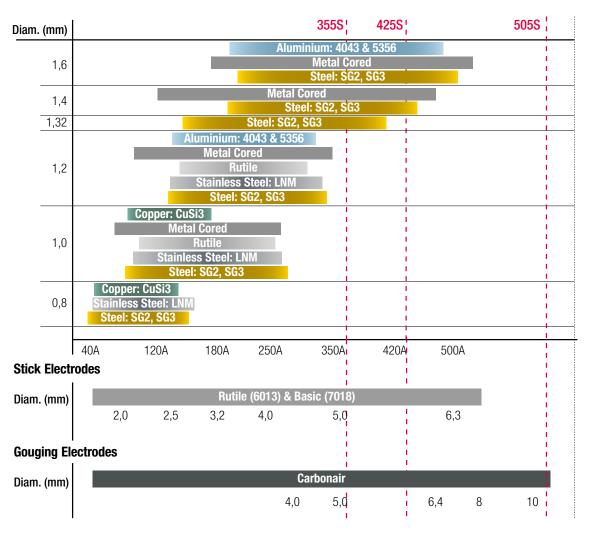
- ARC INITIATION Repeatable arc ignition with outstanding arc characteristics.
- ARC STABILITY Excellent arc stability, ensuring a smooth droplet transfer, with reduced spatter.
- ARC DYNAMICS Rapid parameter adjustment allowing variability under welding conditions.







MIG/MAG Wire



Processes

GMAW FCAW-G FCAW-S

SMAW CAG

Welding of:

Steel Stainless Steel Low Alloy Steel Aluminium MIG Brazing

CONNECTIONS CONFIGURATION

STANDARD

Connection of the intermediate hose package in **front** of the power source



OPTIONAL

Connection of the intermediate hose package on the **back** of the power source



	Item type	Item desrciption	Item # (Air)	Item # (Water)			
		CITOSTEEL 355S	W0004	04457			
1	Machine	CITOSTEEL 425S	W000404458				
		CITOSTEEL 505S	W0004	104459			
		Air 1 m	K14198-PG	_			
		Air 3 m	K14198-PG-3M				
		Air 5 m	K14198-PG-5M	_			
		Air 10 m	K14198-PG-10M	_			
		Air 15 m	K14198-PG-15M	_			
		Air 20 m	K14198-PG-20M	_			
		Air 25 m	K14198-PG-25M	_			
	Hose	Air 30 m	K14198-PG-30M	_			
2	package	Water 1 m	_	K14199-PGW			
		Water 3 m	_	K14199-PGW-3M			
		Water 5 m	_	K14199-PGW-5M			
		Water 10 m	_	K14199-PGW-10M			
		Water 15 m	_	K14199-PGW-15M			
		Water 20 m	_	K14199-PGW-20M			
		Water 25 m	_	K14199-PGW-25M			
		Water 30 m	_	K14199-PGW-30M			
3	Cooder	WF 52D	W0004	104460			
•	Feeder	WF 56D	W0004	104461			
4	Cooler	Coolarc® 26	_	K14182-1			
5	MIG gun	LGS2	see acce	essoriess			
6	Option	Cable Management KIT	K14201-1				
		Gas flow meter KIT	K14175-1				
7	Option	Output connection KIT (355S)	K14196-1				
8	Option	Output connection KIT (425S / 505S)	K14202-1				
9	Option	Water connection KIT		K14208-1			



ACCESSORIES

CITOSTEEL

		355S	425S	505S
		W000404457	W000404458	W000404459
WF 52D	W000404460	•	•	•
WF 56D	W000404461	•	•	•
Coolarc® 26	K14182-1	•	•	•
Freezcool 9,6l	W000010167	•	•	•
Output socket connection kit (355S)	K14196-1	•	_	_
Output socket connection kit (425S / 505S)	K14202-1	_	•	•
Cable management kit	K14201-1	•	•	•
Water connection kit	K14208-1	•	•	•
Gas supply heater kit	K14176-1	•	•	•
Ground cable 400A – 70 mm² – 5 / 10 / 15 m	GRD-400A-70-xM*	•	_	_
Ground cable 600A – 95 mm² – 5 / 10 m	GRD-600A-95-xM*	•	•	•

Intermediate hose package AIR					
Cable pack 5-pin G – 70 mm ² – 1 m	K14198-PG	•	•	•	
Cable pack 5-pin G – 70 mm² – 3 / 5 / 10 m	K14198-PG-xM*	•	•	•	
Cable pack 5-pin G - 95 mm ² 15 / 20 / 25 / 30 m	K14198-PG-xM*	•	•	•	

Intermediate hose package WATER				
Cable pack 5-pin W – 95 mm ² – 1 m	K14199-PGW	•	•	•
Cable pack 5-pin W – 95 mm ² – 3 / 5 / 10 / 15 / 20 / 25 / 30 m	K14199-PGW-xM*	•	•	•

Wire Feeder

		STANDARD	ADVANCED
		WF 52D	WF 56D
LINC GUNTM		W000404460	W000404461
LGS2 360 G - MIG gun air cooled - 3 / 4 / 5 m	W10429-36-xM*	•	•
LGS2 505 W - MIG gun water cooled - 3 / 4 / 5 m	W10429-505-xM*	•	•
Gas flow meter kit	K14175-1	•	•
Wire feeder drum quick adapter	K14204-1	•	•

^{*}x = length (m)



COOLARC® 26 K14182-1

FREEZCOOL W000010167



CABLE MANAGEMENT KIT K14201-1

> WATER CONNECTION KIT K14208-1

> > INTERMEDIATE HOSE PACKAGE

AIR K14198-PG (1m) K14198-PG-xM*

WATER K14199-PGW (1m) K14199-PGW-xM*



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 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

SPECIFICATIONS

Product	Item Number	Primary Voltage	Max Input Power (kVA)	Input 1max (A)	Fuse size (A)	Rated Output	Efficiency	ldle Power	Weight (kg)	Dimensions H x W x D (mm)	Protection Class	Item contains			
CITOSTEEL 355S	W000404457	400V/2Db	15	21	25	350A@50% 300A@100%			68		68	68			USB with operator's manual Ground cable with clamp (3 m)
CITOSTEEL 425S	W000404458	400V/3Ph 50/60Hz ± 15%	19	27	32	420A@100%	> 85%	< 35W	78	932 x 560 x 925	x 925 IP23	Gas hose (2 m) Chain (for gas cylinder protection) Slow-blow fuse 2A (2 pcs)			
CITOSTEEL 505S	W000404459	± 1370	23	34	32	500A@60% 420A@100%			79			GIOW BIOW 1036 ZA (Z pcs)			

Product	Item Number	Rated Output	Feeding System	WFS Range (m/min)	Solid Wires (mm)	Aluminum Wires (mm)	Cored Wires (mm)	Weight (kg)	Dimensions H x W x D (mm)	Protection Class	Item contains	
WF 52D (Standard)	W000404460	500A@60%	4 Rolls	1 5 . 00	00.10	00.16	10.16	00.16	17	E16 v 200 v 640	6 x 302 x 642	USB with operator's manual Rolls 1,0/1,2 for solid wire
WF 56D (Advanced)	W000404461	420A@100%	ø37mm	1,5 ÷ 22	0,8 ÷ 1,6	1,0 ÷ 1,6	0,9 ÷ 1,6	17,7	516 x 302 x 642	516 x 302 x 642		

Product	Item Number	Input (V)	Cooling power @1L/min (kW)	Reservoir capacity (I)	Maximum Pressure (MPa)	Weight (kg)	Dimensions H x W x D (mm)	Protection Class	Item contains
COOLARC® 26	K14182-1	230/400V ± 15% 50/60 Hz	0,84	4	0,47	18	260 x 150 x 680	IP23	USB with operator's manual Blue and Red water hoses Black hose for filling procedure





cunha mendes cunha, Ida Equipamentos Industriais

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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 fitness for any customers' particular purpose is specifically disclaimed.

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