

MIG/MAG

**ewm**<sup>®</sup>  
WE ARE WELDING

— **SIRION 405 AND 505 PULS**  
OUR UNIVERSAL ALL-ROUND TALENT.



MODULAR —

# THE SIRION 405/505 PULS.

## FLEXIBLE IN ANY SITUATION.

Discover our innovative modular enclosure system, ideal for workstations in any environment. Whether in production or mobile on the construction site, Sirion gives you the flexibility you need with its two variants, 405 puls and 505 puls. Thanks to its small footprint and practical design, it offers you great mobility on the Trolley 54-5 trolley. Optimise your workflow and benefit from a system that easily adapts to any situation.



### YOUR BENEFITS +

- No additional purchase of characteristics required. All are included ex works:
- 72 Synergic characteristics for EWM forceArc® (steel) / forceArc® puls (steel) and EWM rootArc® / rootArc® puls
- Synergic characteristics for MIG/MAG, standard or pulse welding of steel, CrNi and aluminium
- Synergic characteristics for flux-cored wires
- Also suitable for gouging, manual arc and TIG welding
- Adjustable start and end crater functions
- Individually adjustable programmes per JOB (welding task)
- Continuously adjustable arc dynamics (choke effect)
- No additional mains connection of the cooling module required. The Cool 55 is powered from the power source.

**Blue Evolution®** 

### THE EWM ENVIRONMENT INITIATIVE.

We support your efforts to reduce CO<sub>2</sub> emissions with our BlueEvolution® sustainability initiative. After all, a weld seam can only be perfect if the welding process conserves energy and resources. With our resource-saving inverter technology and energy-reducing joining processes, we unite economic efficiency and ecology.



# A SET JUST THE WAY YOU NEED IT.

## SIRION 405 PULS | SIRION 505 PULS.

### INCLUDED IN THE SET +



**WIRE FEEDER DRIVE 4X S**

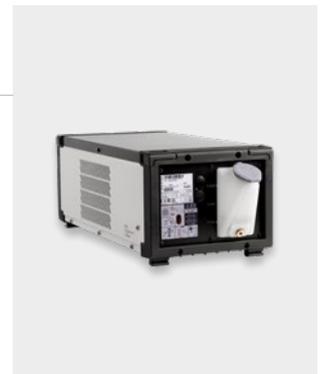


**SIRION 405 PULS OR  
SIRION 505 PULS**



**INTERMEDIATE HOSE  
PACKAGES**

(5M IN THE SET AND 10M/15M/20M  
AVAILABLE SEPARATELY)



**COOLING UNIT COOL 55 U40**



**TROLLY 54-5**



# THE WELDING PROCESSES. FOR YOUR BEST WELDING RESULTS.

Sirion's built-in procedures and processes give you maximum ease of use and durability. All impulse, standard and other innovative welding processes are optimised and included at no extra cost. This ensures perfect welds in low to high alloy steels and aluminium in all material thicknesses and positions.



## MIG/MAG

### Standard (MIG/MAG)

Pulse

TIG

MMA

forceArc® (Steel)

forceArc® puls (Steel)

rootArc®

rootArc® puls

Gouging



#### Pulse

Low spatter pulsed arc



#### Standard

Perfect short and spray arcs



#### rootArc® / rootArc® puls

Perfect root welding/easy-to-execute filler and final passes



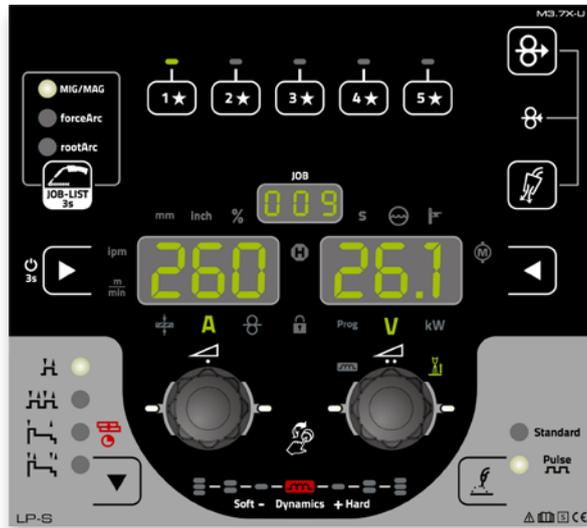
#### forceArc® (steel)/ forceArc® puls (steel)

Powerful, high-performance arc with deep penetration

# THE CONTROL SYSTEM.

## EASY TO USE.

Sirion has the popular one-button operation. The backlighting of the individual symbols ensures a clear view, even when the visor of the welding helmet is folded down. The comprehensive JOB list allows you to define and customise all welding tasks.



## CONTROL SYSTEM LP-S

Favourites buttons let you save your favourite settings and access them instantly. A special advantage: The LP-S control unit already has the right parameters set at the factory for the required welding process. In addition, you save training time by simply selecting the working point with the click wheel and then welding. The LP-S control unit is the ideal choice for frequently changing welding personnel, e.g. on construction sites or during assembly work.

# THE DRIVE 4X S.

## COMPACT AND HIGH PERFORMANCE.

Weighing only 13 kg (without wire spool) and with an ergonomically balanced handle, the Drive 4X S MIG/MAG wire feeder is the ideal companion on awkward scaffolding, in hard-to-reach areas or for large components. It is optionally craneable and can even fit through a manhole if necessary. The transparent cover allows you to see the welding parameters at all times and adjust them as required using the click wheels.

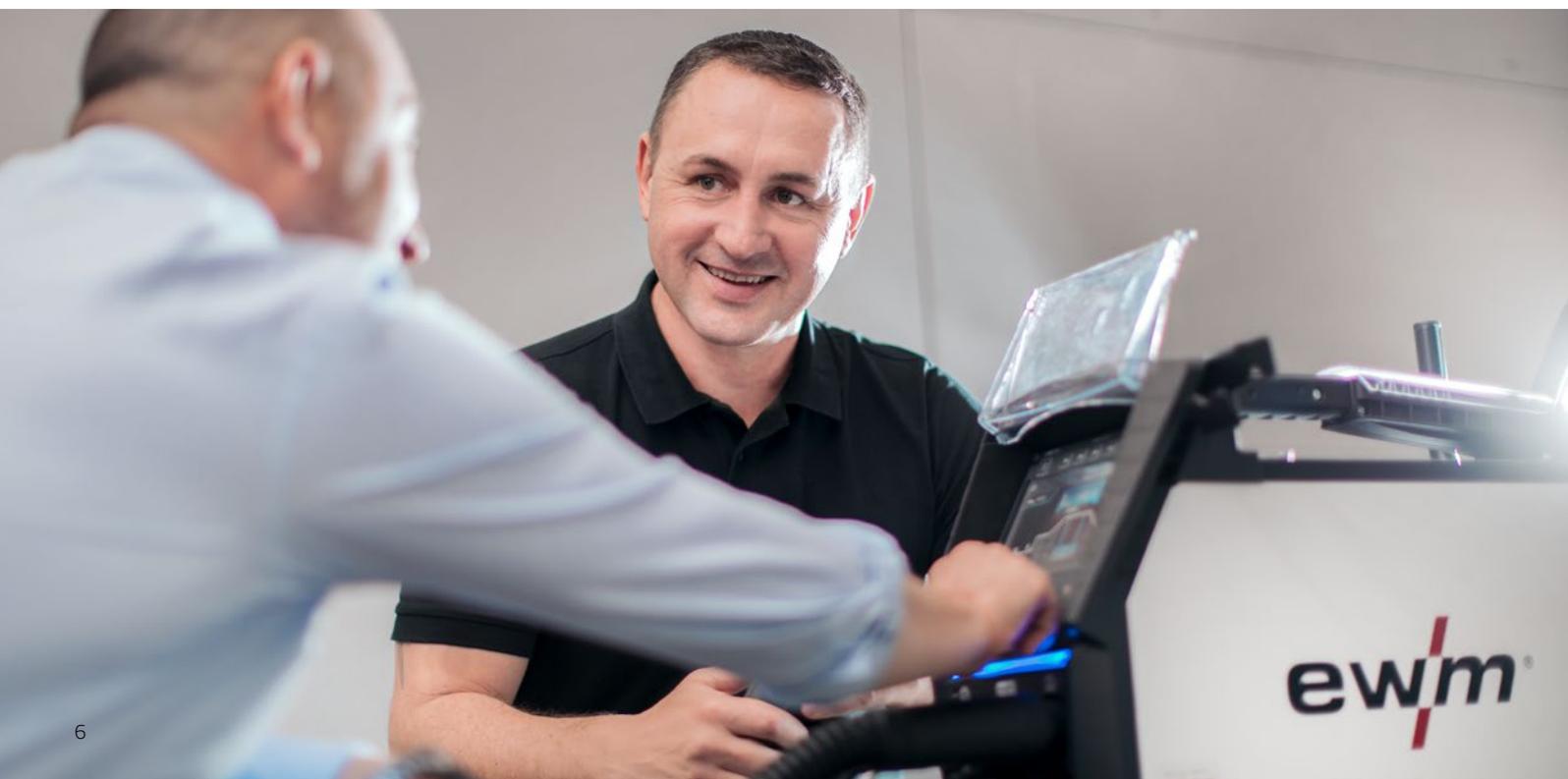


- Easy to transport thanks to low weight and compact design
- Stable base construction (continuous cast aluminium) with rubber feet
- Robust electronics in a dust-free space
- Protected connections for intermediate hosepacks and control lines
- Suitable for 300 mm wire spools, 200 mm wire spools using an adapter
- eFeed: innovative 4-roller drive
- Advantages in combination with the LP-S control unit:
  - All important setting options directly accessible
  - Quick change between welding processes (without JOB switching)
  - Favourite buttons for quick selection of frequently used JOBS

## TECHNICAL DATA.

**SIRION****405 puls****505 puls**

Setting range for welding current	5 – 400 A	5 – 500 A
MIG/MAG duty cycle at 40 °C	400 A / 60 % 350 A / 100 %	500 A / 40 % 430 A / 60 % 370 A / 100 %
Open circuit voltage	82 – 98 V	
Mains voltage (ex works)	3 x 380 – 400 V	
Mains voltage (possible)	3 x 440 – 480 V	
Tolerance (ex works)	-25 % to +20 %	
Mains frequency	50/60 Hz	
Rec. generator output	23,2 kVA	33,2 kVA
Power consumption Pi	23 W	
Efficiency	89 %	
Protection classification	IP23	
Product certification		
EMC class	A	
Dimensions (L x W x H) mm	625 x 298 x 531	
Dimensions (L x W x H) inch	24.6 x 11.7 x 20.9	
Weight	39,4 kg / 86.9 lbs	42,7 kg / 94.2 lbs
Standards	IEC 60974-1, -2, -10 CL.A	




**Drive**
**4X S**

TIG	
Welding current/duty cycle at 40 °C	600 A / 40 %
MMA	
Welding current/duty cycle at 40 °C	470 A / 100 %
Wire speed	0,5 – 25 m/min 19.685 – 984.253 ipm
Roll assembly ex works	1,0 / 1,2 mm UNI (steel)
Coil diameter	D200 / D300
Torch connection	Euro central connection
Protection classification	IP23
Product certification	<b>CE UK</b>
EMC class	A
Dimensions (L x W x H) mm	660 x 280 x 380
Dimensions (L x W x H) inch	26 x 11 x 15
Weight in kg	14,2
Weight in lbs	31.3
Standards	IEC 60974-1, -5, -10 CL.A


**COOL**
**55 U40**

Mains voltage	1 x 400 V (-25 % to +20 %)
Mains frequency	50/60 Hz
Cooling capacity at 1 l/min	1200 W
Max. pump pressure	3,5 bar
Tank capacity	4,5 l
Protection classification	IP23
Safety identification	<b>CE ENEC UK</b>
Dimensions (L x W x H) mm	665 x 298 x 247
Dimensions (L x W x H) inch	26.2 x 11.7 x 9.7
Weight in kg	19
Weight in lbs	41.9
Standards	IEC 60974-1, -2, -10 CL.A



WE ARE WELDING

EWM GmbH  
Dr. Günter-Henle-Straße 8  
56271 Mündersbach  
Germany  
Tel: +49 2680 181 0  
Fax: +49 2680 181 244  
E-Mail: [info@ewm-group.com](mailto:info@ewm-group.com)



#WEAREWELDING



EWM is your partner for the best welding technology. With EWM, you'll weld more efficiently, more reliably and produce higher-quality results. Innovative systems, efficient welding procedures, digital technologies & services and EWM's expert consultation help you carry out your welding tasks with perfection.



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The contents of this document were researched, checked and edited with care. However, it is still subject to alterations, writing errors and mistakes.

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