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NEW

MEGA.ARC P
MEGA.ARC S

CONTINUOUSLY ADJUSTABLE – FOR PERFECT MIG / MAG WELDING RESULTS



GA.ARC

FOCUS ! ARC

Just better welding

Whether increasing performance or quality improvement – with the fully digital controlled welding processes FOCUS.ARC you ensure all advantages.

Faster

- More meters of welding seam per hour
- Less rework



Better

- Better arc control
- Less faults
- Higher quality



Healthier

- Eliminated pollution from welding sprays
- 80 % less grinding dust



FOCUS.ARC is not just a promise, it proves its performance capability. Because only the result counts – please turn over!

similar picture

SIRIUS

The benchmark in operating welding machines

SIRIUS is a completely new and innovative digital machine interface. With SIRIUS you get a futureproof intuitive operating system with full I 4.0 connection, which is open for all systems. SIRIUS makes complexity easy.

Ingenious

- Simplifies the control of complex digital welding processes
- Graphically dynamic and transparent visualization
- Highest application expertise



Flexible

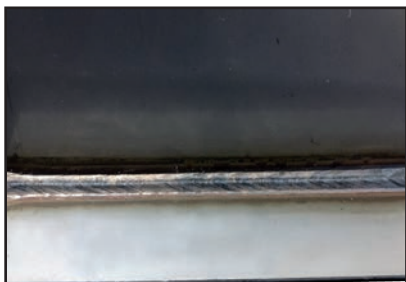
- Ready for I 4.0
- Easy integration in manufacturing systems and networks
- Free configurable interfaces



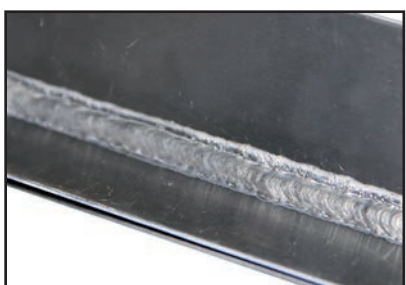
SIRIUS offers you endless prospects – more information can be found on page 06 / 07

Welding seams MEGA.ARC – the result counts

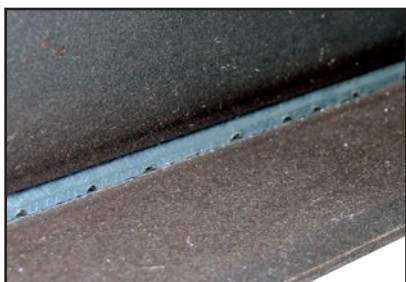
MEGA.ARC P | MEGA.ARC S



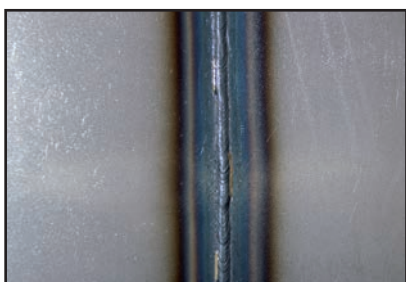
CrNi fillet weld PB | 1.0 mm
POWER.ARC



Aluminium fillet weld PB
| 1.5 mm
POWER.ARC



Steel fillet weld PB | 8.0 mm
FOCUS.ARC



Steel butt weld PG | 2.0 mm
ROOT

MEGA.ARC P



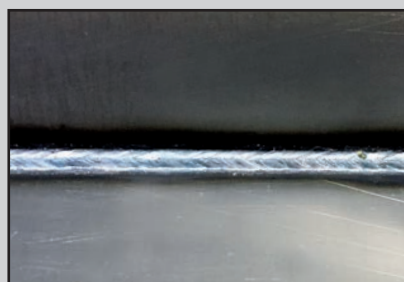
CrNi fillet weld PB | 2.0 mm
POWER.PULS



Aluminium fillet weld PB
| 5.0 mm
POWER.PULS



Steel fillet weld PB | 5.0 mm
POWER.PULS



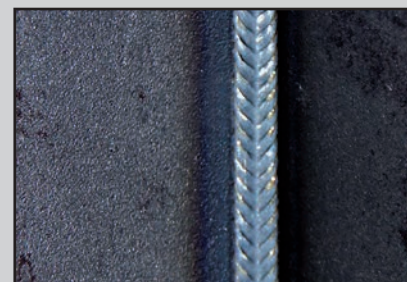
Steel fillet weld PB | 2.0 mm
POWER.PULS



CrNi fillet weld PF | 5.0 mm
POWER.PULS (as a double pulse)



Aluminium fillet weld PF
| 3.0 mm
POWER.PULS (as a double pulse)



Steel fillet weld PF | 5.0 mm
POWER.PULS (as a double pulse)



Steel fillet weld PB | 10.0 mm
FOCUS.ARC

Digitally controlled welding processes for all applications

POWER.PULS | MEGA.ARC P

Very good modulation of the welding process for steel, stainless steel and aluminium

- Faster welding of stainless steel with weld seam surface almost similar to TIG
- Very little temper colour, electrochemically eliminable
- Adjustable heat input
- Welding seams in TIG optic, by using double pulse
- Overweldable spots
- The arc-length adjustment either via voltage or wire

ROOT | MEGA.ARC P / MEGA.ARC S

Almost spatter free welding process for thin materials and root welding

- Very good bridging of gaps
- Significant weld speed increase at down welding
- Root welding also with reduced seam opening angle
- Save penetration
- No spatters

POWER.ARC | MEGA.ARC P / MEGA.ARC S

Standard welding process

- Quiet, stable arc
- High arc stability
- High energy arc

FOCUS.ARC | MEGA.ARC P / MEGA.ARC S

Welding in unmatched dimensions

- Welding with a short, powerful arc
- Safe root detection
- Particularly deep penetration
- Safe edge detection
- Reduced penetration

REHM recommendation:

Welding processes for different materials and material thicknesses

	mm	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	P	S
Fe	Nonpuls	ROOT			Mixed arc	POWER.ARC						✓	✓					
		POWER.ARC				FOCUS.ARC						✓	✓					
	Puls	POWER.PULS												✓				
CrNi	Nonpuls							POWER.ARC						✓	✓			
	Puls	POWER.PULS												✓				
Alu		POWER.PULS												✓				

Advantages of the REHM FOCUS welding processes*:

Digitally controlled welding processes

- Controlled particle transfer
- Controlled short circuit resolution
- Controlled heat input

Reduction of rework

- The rework can be reduced up to 80 %

Increased quality

- Better controllability of the arc
- Less welding failures

Improving health protection

- Up to 80 % reduction of grinding dust
- Up to 100 % reduction of welding spray contamination



*Information only applies in conjunction with REHM FOCUS.PULS

SIRIUS opens up new potentials

SIRIUS simplifies the operation of complex welding processes by visualization and assist functions.

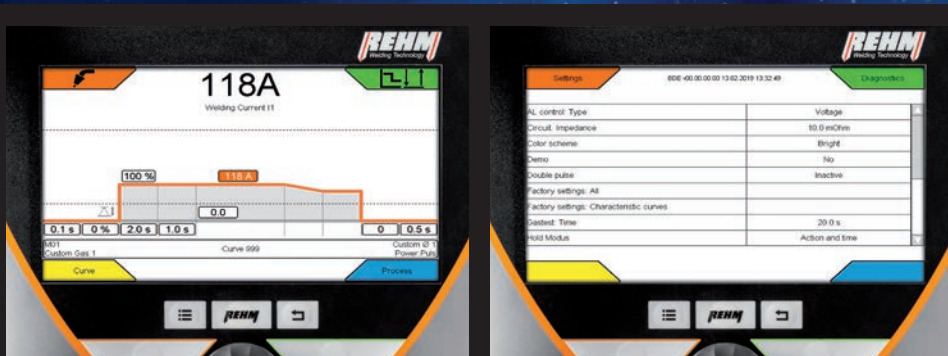
SIRIUS

Modern digitally controlled machines offer multiplicity ways of improvement, which need to be utilized in the industrial production: Increase your competitiveness, by making unused potential transparent with SIRIUS.

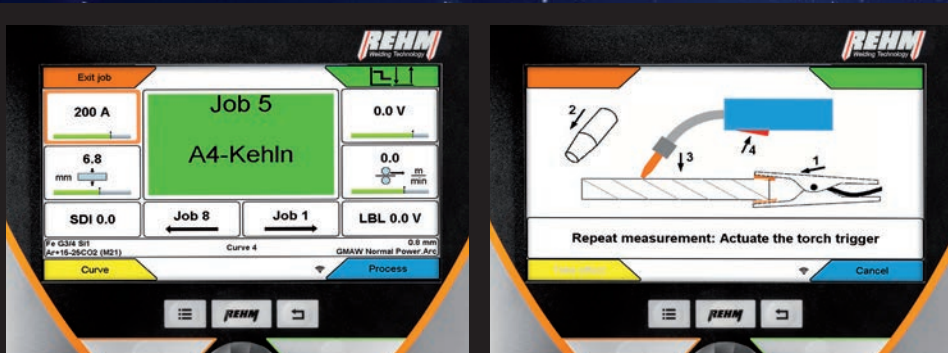
- SIRIUS ensures the easy and fast access on unutilized potentials
- SIRIUS supports the performance and quality with it's clear structures and simplifies the work of the welder
- SIRIUS is multilingual
- SIRIUS provides a clear overview like never before and leads to outstanding welding results



The SIRIUS display shows everything at a glance – in day and night modus



Parameters to be optimized are transparent and graphic-dynamic visualized



The relevant parameters are always in the foreground, which can be recognized from distance by the operator

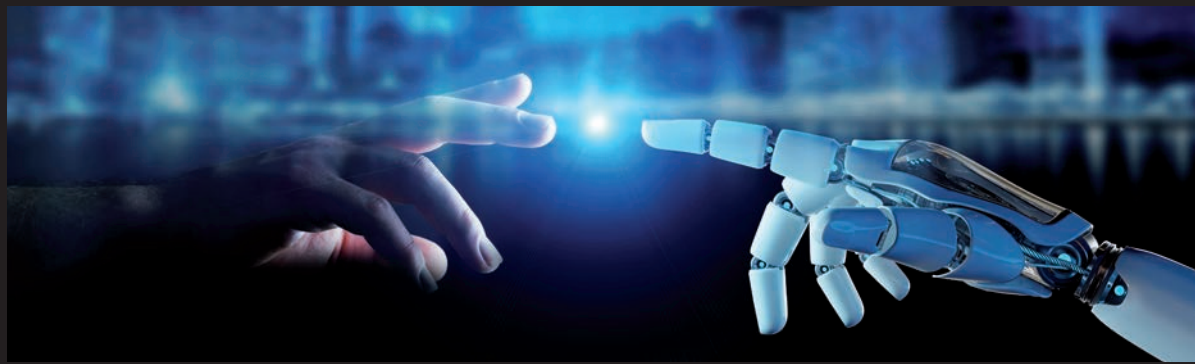


SIRIUS* with *Open Connect* is fully Industry 4.0 capable

**The possibilities to communicate digitally through SIRIUS are endless.
The interface architecture of SIRIUS can be configured and expanded in any way.**

Easy embedding into existing systems via integrated server module. SIRIUS communicates via all established interfaces like Ethernet, USB, CAN-bus, LAN, W-LAN, 2,4 GHz Wireless technology.

- SIRIUS is not an single application, only for the documentation of welding data
- SIRIUS offers full embedding in the workflow processes
- SIRIUS creates easy embedding to CAD or workflow software
- SIRIUS comes with free programmable interfaces
- SIRIUS digitises and communicates machine and process data into all networks



SIRIUS* is online via *EASY Connect* around the clock

Contains everything which is necessary for communication with other digital devices.



The integrated WEB server includes the necessary software to communicate with any other digital devices. Time consuming preparations or even the need of a service technician is not necessary anymore for:

- Establishing a remote control on tablets or smart phones
- Software updates
- Welding process update
- Adding of special welding processes

The SIRIUS App guides you through the optimization of the welding technology.
Easy Connect connects easily to SIRIUS and the welding machine.

A first idea about our easy and self explanatory machine interface you can find here:

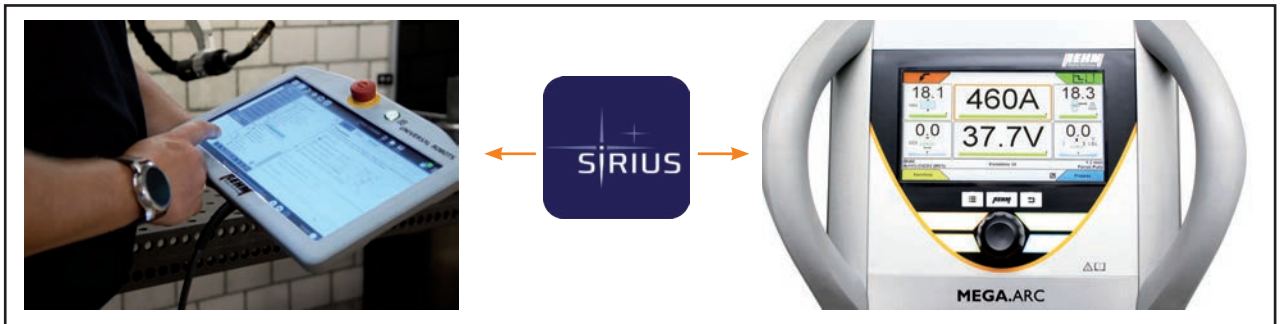
www.rehm-online.de/de/technologie/sirius.html



*Only with optional W-LAN router

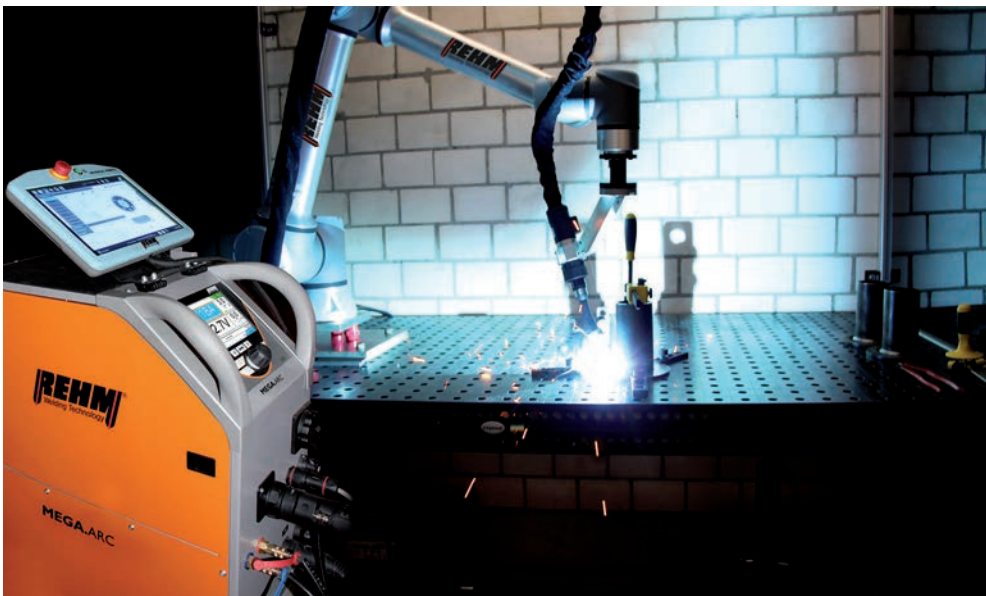
A strong team REHM COBOT and MEGA.ARC

The simple operation of the REHM COBOT is a perfect match for SIRIUS, the most modern operating and communication system for welding machines.



THAT SPEAKS FOR THE REHM COBOT SYSTEM:

- Go immediately to the amortization.
- Lets reduce production costs.
- Works for 4-6 euros an hour.
- Has no holidays and is always top fit.
- Prevents a shortage of skilled workers and relieves your qualified employees.
- Fastest integration into your operation.
- Comes individually assembled from a single source. You only have one contact.



You will find more information about our COBOT System here:



Features MEGA.ARC P and MEGA.ARC S

There is the right variant for every requirement,
with the always suitable equipment.

EQUIPMENT	MEGA.ARC P	MEGA.ARC S
SIRIUS operating and communication system	Identical	
Web server	Optional	
Performance data	Identical	
Job memory	500	500
Welding process POWER.ARC	X	X
Welding process ROOT	X	X
Welding process POWER.PULS	X	
MIG / MAG procedure	X	X
MMA procedure	X	X
Accessories	Identical	
Options	Identical	

POWER FACTOR CONTROLLER (PFC)



- Compliance with the new regulation EU 2019/1784
- Highest energy efficiency
- Worldwide operation
- Clean consumption out of the supply network
- Use also in residential areas (useable anywhere)

You can find everything you need to know about PFC here:



Technology you can count on - robust, durable and state of the art! Made in Germany by REHM.

Robust control panel

- The display is protected by a shock proved transparent cover
- The control knob is specially designed for tough conditions

Ergonomic control panel

- Perfect working height
- Perfect angle of the display for the best view of the worker

Excellent communication skills

- **Integrated web server** with all established interfaces



Power station

- Ultrafast **inverter poor of inductivity**
- Own processor control for quick reaction in the arc
- Contains PFC (Power Factor Controller)
- Wide range input voltage
- 450 amperes out of 9 kg weight
- Intelligence beats weight



Undercarriage Advanced

Big wheels

- Front 160 mm with fixing brake
- Rear 260 mm

Gas bottle mount

- Robust mount for up to 50 l

Wheel arches in the back

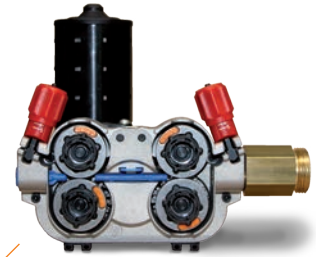
- Prevents the power cords to be squeezed while moving





Everything under control

- Ergonomic designed handle bars for save steering



Wire feeder

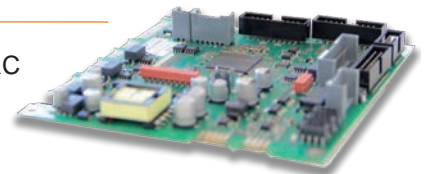
- Digital controlled precise and powerfully 4-wheel drive
- Feeder rolls are according to the wire diameter coded by colours
- Quick change system for feeder rolls without tools
- Contact pressure for inlet and outlet independently adjustable

Intelligent water cooling unit

- Circular pump for high output flow
- Energy management only cools on demand based on temperature sensing of coolant
- Conserves resources
- Increases live time of all components

Main board

- The control centre of the MEGA.ARC
- High integrated unit with main processor coordinates all procedures and processes
- Controls the communication intern and extern



Loading rack for gas bottles

- Protection for intervertebral disk
- Avoids work accidents

Integrated crane hooks

Breaks on the front wheels

- Avoid rolling of the machine at transport and exchanging the gas bottle



Compact machines

(Choose undercarriage separate)

MEGA.ARC P

Machines	Item no.
MEGA.ARC P 250	1307145
MEGA.ARC P 250 W	1307146
MEGA.ARC P 300	1307155
MEGA.ARC P 300 W	1307156
MEGA.ARC P 350	1307165
MEGA.ARC P 350 W	1307166
MEGA.ARC P 400	1307175
MEGA.ARC P 400 W	1307176
MEGA.ARC P 450	1307185
MEGA.ARC P 450 W	1307186

Machines with separate wire feeder

(Choose undercarriage separate.
Serially operated in the feed case.)

MEGA.ARC P

Machines	Item no.
MEGA.ARC P 250 S	1307147
MEGA.ARC P 250 WS	1307148
MEGA.ARC P 300 S	1307157
MEGA.ARC P 300 WS	1307158
MEGA.ARC P 350 S	1307167
MEGA.ARC P 350 WS	1307168
MEGA.ARC P 400 S	1307177
MEGA.ARC P 400 WS	1307178
MEGA.ARC P 450 S	1307187
MEGA.ARC P 450 WS	1307188



MEGA.ARC P 300/
MEGA.ARC S 300



MEGA.ARC P 300 W/
MEGA.ARC S 300 W

Most images are not illustrating the standard equipment

Compact machines
(Choose undercarriage separate)

MEGA.ARC S

Machines	Item no.
MEGA.ARC S 300	1330375
MEGA.ARC S 300 W	1330376
MEGA.ARC S 350	1330385
MEGA.ARC S 350 W	1330386
MEGA.ARC S 400	1330395
MEGA.ARC S 400 W	1330396
MEGA.ARC S 450	1330405
MEGA.ARC S 450 W	1330406



MEGA.ARC P 450 WS/
MEGA.ARC S 450 WS

Machines with separate wire feeder

(Choose undercarriage separate.
Serially operated in the feed case.)

MEGA.ARC S

Machines	Item no.
MEGA.ARC S 300 S	1330377
MEGA.ARC S 300 WS	1330378
MEGA.ARC S 350 S	1330387
MEGA.ARC S 350 WS	1330388
MEGA.ARC S 400 S	1330397
MEGA.ARC S 400 WS	1330398
MEGA.ARC S 450 S	1330407
MEGA.ARC S 450 WS	1330408



Trolley
(available from Q3/2021)

OPTIONS

Item no.

Housing	
Operation in the machine	1381153
Without undercarriage	1381100
Undercarriage Profi (50 l)	1381101
Undercarriage Advanced (50 l with loading rack and fixing brake)	1381102
Retrofit kit driving carriage for wire feed case CONSTRUCTION	7501502
Top shock proof cover display	1381107
Bottom shock proof cover display	1381108
Toolbox for compact machines	1381143
Air pre-filter	1381144
Crane lifting lugs for wire feed unit	1381146
Drum wire feed through (wire feed unit)	1381147
Holder for torch and hose pack	1180214
Centre lock variants	
Adaptor EC-SA Torch connection Binzel	4300318
Push-Pull	
Option Push-Pull FAP (only for S/WS systems)	1381380
Interfaces	
Interfaces - SET FA to URe series	7504015
Programmed interface including 5m connection cable and installation manual	
Interface FP1 standard 5m Start, current flows, two analog values with 5m control line	1381285



Undercarriage Advanced



Undercarriage Profi



Without undercarriage

Driving carriage for
wire feed case

■ TECHNICAL DATA

TECHNICAL DATA		250	300	350	400	450
Setting range	[A]	20-260	20-310	20-360	20-410	20-460
Duty cycle (ED) at I _{max} .	[%]	80				60
Weld current at 100 % ED	[A]	230	280	320	370	400
Open-circuit voltage	[V]	89		75		
Wire feed	[Ø mm]	0.8 / 1.0	1.0 / 1.2			
Mains connection	[V]	3 x 400				
Mains voltage tolerance	[%]	+ 15 / - 25				
Fuse	[A]	32				
Protection type		IP 23				
Power factor	[cos phi]	0.99				
Power consumption at I _{max}	[kVA]	8.4	11	13.7	16.8	20.6
Weight without undercarriage	[kg]					
Compact gas-cooled		46		49		
Compact water-cooled (W)		56		59		
With wire feed case gas-cooled (S)		57		60		
With wire feed case water-cooled (WS)		70		73		
Dimensions without undercarriage LxWxH	[mm]					
Compact gas-cooled		650 x 330 x 624				
Compact water-cooled (W)		650 x 330 x 820				
With wire feed case gas-cooled (S)		650 x 330 x 1,100				
With wire feed case water-cooled (WS)						

TECHNICAL DATA	Undercarriage Advanced	Undercarriage Profi	Without undercarriage	Driving carriage for wire feed case
Weight [kg]	31.5	30	0.8	3.36
Dimensions LxWxH [mm]	900 x 560 x 1,020	950 x 611 x 1,100	544 x 30 x 43	480 x 120 x 140

THE REHM PERFORMANCE PROGRAM

- REHM MIG / MAG welding machines
- REHM TIG welding machines
- REHM MMA electrode inverter
- REHM PLASMA cutting systems
- Welding accessories and consumables
- Welding fume extraction
- Technical welding advice
- Torch repairs
- Service

WEEE-Reg.-Nr. DE 42214869

REHM 04 / 2021 • Item no. 9900621

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