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FOCUS.ARC P FOCUS.ARC S

REVOLUTION IN THE MIG / MAG TECHNOLOGY



FOCUS

Just better welding

Whether increasing performance, quality improvement, or a responsible health protection – with the fully digital controlled welding process FOCUS.ARC you ensure all advantages.

Faster

- Up to 50 % more profitability
- · More meters of welding seam per hour
- · Less rework
- · REHM potential analyser



Better

- · Better view into the welding process
- · Better arc control
- · Less faults
- · Higher quality



Healthier

- Up to 70 % less welding fume
- 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!





The benchmark in operating welding machines

SIRIUS is a completely new and innovative digital machine interface. With SIRIUS you get a future proof 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
- Assist functions
- Highest application expertise



Flexible

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



Smarter

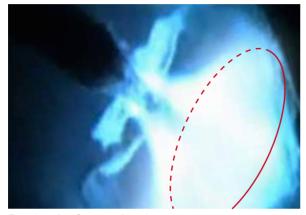
- Load the REHM App and get started
- · Communication with all networks and mobile devices
- LAN, W-LAN



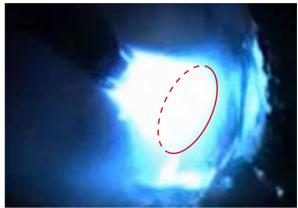
SIRIUS offers you endless prospects – more information can be found on page 06/07

FOCUS ARC

Compared with conventional welding processes concentrates the FOCUS technology the energy in the center of the arc



Previously: Conventional arc Wide arc with spread energy at the edge



Now: FOCUS.ARC
Concentrated arc with centered energy

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 view into the welding process
- · Better controllability of the arc
- · Less welding failures

Improving health protection

- Up to 70% reduction of harmful welding fume
- Up to 80% reduction of grinding dust
- Up to 100 % reduction of welding spray contamination



Previously: Severe smoke development with conventional arc.



Now: Up to 70% reduction of harmful welding fume with the FOCUS.ARC welding process.

^{*} Information only applies in conjunction with REHM FOCUS.PULS

Digitally controlled welding processes for all applications

FOCUS.PULS | FOCUS.ARC P

High performance welding process for steel construction

- · Accurate with adjustable heat input
- Heat input reduced by 30 %
- Melting disposition rate up to 60 % increased
- · Welding with reduced seam opening angle
- · Significant improved quality
- · Overweldable spots
- · REHM generates a profit potential analysis

POWER.PULS | FOCUS.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
- · Full optimization for special applications

FOCUS.ROOT | FOCUS.ARC P / FOCUS.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

FOCUS.ARC | FOCUS.ARC P / FOCUS.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





SIRIUS opens up new potentials

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

SRIUS

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

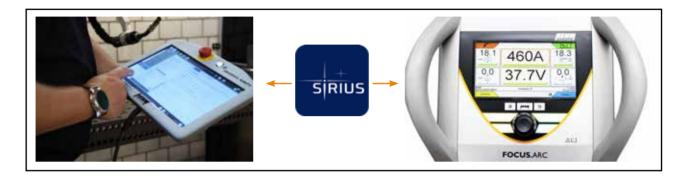
The SIRIUS App guides you through the optimization of the welding technology. *Easy Connect* connects easily to SIRIUS and the welding machine.

A first idea about our easy and self explanatory machine interface you can find here: www.rehm-online.de/de/technologie/sirius.html



A strong team REHM COBOT and FOCUS.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.





Features FOCUS.ARC P and FOCUS.ARC S

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

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

POWER FACTOR CONTROLLER (PFC)

The benchmark for efficient welding



- 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 and W-LAN

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





Big wheels

- Front 160 mm with fixing brake
- Rear 260 mm

Gas bottle mount

· Robust mount for up to 50 I

Wheel arches in the back

 Prevents the pover cords to be squeezed while mooving





Everything under control

 Ergonomic designed handle bars for save stearing



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 FOCUS.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)

Machines with separate wire feeder

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

FOCUS.ARC P

Machines	Item no.
FOCUS.ARC P 250 0,8/1,0	1307045
FOCUS.ARC P 250 W 0,8/1,0	1307046
FOCUS.ARC P 300 1,0/1,2	1307055
FOCUS.ARC P 300 W 1,0/1,2	1307056
FOCUS.ARC P 350 1,0/1,2	1307065
FOCUS.ARC P 350 W 1,0/1,2	1307066
FOCUS.ARC P 400 1,0/1,2	1307075
FOCUS.ARC P 400 W 1,0/1,2	1307076
FOCUS.ARC P 450 1,0/1,2	1307085
FOCUS.ARC P 450 W 1,0/1,2	1307086

Machines	Item no.
FOCUS.ARC P 250 S 0,8/1,0	1307047
FOCUS.ARC P 250 WS 0,8/1,0	1307048
FOCUS.ARC P 300 S 1,0/1,2	1307057
FOCUS.ARC P 300 WS 1,0/1,2	1307058
FOCUS.ARC P 350 S 1,0/1,2	1307067
FOCUS.ARC P 350 WS 1,0/1,2	1307068
FOCUS.ARC P 400 S 1,0/1,2	1307077
FOCUS.ARC P 400 WS 1,0/1,2	1307078
FOCUS.ARC P 450 S 1,0/1,2	1307087
FOCUS.ARC P 450 WS 1,0/1,2	1307088

FOCUS.ARC S

Machines	Item no.
FOCUS.ARC S 350 W 1,0/1,2	1330212
FOCUS.ARC S 400 W 1,0/1,2	1330213
FOCUS.ARC S 450 W 1,0/1,2	1330214

Machines	Item no.
FOCUS.ARC S 350 WS 1,0/1,2	1330232
FOCUS.ARC S 400 WS 1,0/1,2	1330233
FOCUS.ARC S 450 WS 1,0/1,2	1330234





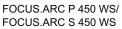


FOCUS.ARC P 300 W

■ OPTIONS Item no.

Housing	
Operation in the machine	1381153
Without undercarriage	1381100
Undercarriage Profi (50 I)	1381101
Undercarriage Advanced (50 I with loading rack and fixing brake)	1381102
Retrofit kit driving carriage for wire feed case CONSTRUCTION	7501502
Top shock proof cover display FOCUS.ARC	1381107
Bottom shock proof cover display FOCUS.ARC	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







Trolley (avaible from Q3/2021)

■ 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 Imax.	[%]	80			60	
Weld current at 100 % ED	[A]	230	280	320	370	400
Open-circuit voltage	[V]	89 75			5	
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 Imax	[kVA]	8.4	11	13.7	16.8	20.6
Weight without undercarriage	[kg]					
Compact gas-cooled			46		4	9
Compact water-cooled (W)			56		5	9
With wire feed case gas-cooled (S)		57 60			0	
With wire feed case water-cooled (WS	3)	70 73			3	
Dimensions without undercarriage L	kWxH [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	3)	555 X 556 X 1,100				



		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

Customer applications that speak for themselves Stahlbau Heil, Stuttgart

Our customer, Stahlbau Heil, was looking for new technologies to increase productivity.

Due to the large range of parts that have to be manufactured, the specification was a versatile, yet easy-to-use system.



After a convincing FOCUS.ARC P demonstration, our customer received 4 FOCUS.ARC P 450 WS as part of a project. Above all, the many process variants and the SIRIUS operating and communication system were convincing.

For each workplace, specific goals were defined, which aimed at problems or costs that had previously occurred to eliminate. For example, reducing rework, increasing quality or simpler work. The results that have been documented by Stahlbau Heil over time have exceeded even the most optimistic forecasts.

THE RESULT SPEAKS FOR ITSELF.

- The welders are enthusiastic about the device, there is a high level of acceptance and satisfaction.
- The annual saving through the use of this REHM technology amounts to approx. 17,000 euros at one workplace.

- MORE SPEED
- HIGHER EFFICIENCY



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

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