



# SIGMA NEXT RC – WELDING POWER SOURCE FOR EASY INTEGRATION WITH ROBOTS



# STRAIGHTFORWARD ROBOT INTEGRATION

Sigma Next RC (Robot Concept) is a MIG/MAG power source designed for robotic and automated welding. The dedicated power source meets the increasing demand for easy integration with a robot for large and small industrial applications.

## INTERFACE

The fully integrated interface is easy to connect with robots or automatic systems. It supports the following Fieldbus protocols:

- EtherNet/IP
- PROFINET
- PROFIBUS
- DeviceNet
- EtherCAT

The interface shows great flexibility; it predefined configuration files, tested on existing robots, can be altered by the customer for each specific setup.

Zoom: integrated robot interface



All settings are adjusted on the Remote MIG<sup>2</sup> with graphic display.



## POWER SOURCE

Sigma Next RC is based on inverter technology. Its excellent welding performance is based on many years of experience in robotic welding. The power source is available in three configurations: Basic, Synergic and Pulse, covering all types of materials in three different program packages.

## BENEFITS:

- Predefined configuration files for different types of robots for quick and easy communication set-up
- System Log: easy fault-finding, storing all errors for later diagnostics.
- Touch Sensing: use the tip of the welding wire to find the workpiece and use the information to adjust the program to every workpiece. Touch signal is sent to the robot and shown on display.
- Easy software update via SD card.
- Designed for working under tough conditions.

## STANDARD PACKAGE SOLUTION INCLUDES:

- Sigma Next RC MIG/MAG power source, 400 amps, air-cooled
- Built-in digital robot interface
- Remote MIG<sup>2</sup> with graphic display
- RWF<sup>2</sup> Robot Wire Feeder

BASIC	SYNERGIC	PULSE
<ul style="list-style-type: none"> <li>• No program package</li> <li>• Sequence</li> <li>• Sequence Repeat™</li> <li>• Miga Job Control™</li> </ul>	<ul style="list-style-type: none"> <li>• Choose between three packages with synergic welding programs: Standard, Standard Plus or Special</li> <li>• Sequence</li> <li>• Sequence Repeat™</li> <li>• Miga Job Control™</li> <li>• MigaLog™</li> <li>• DUO Plus™</li> <li>• PowerArc™</li> </ul>	<ul style="list-style-type: none"> <li>• Pulse function</li> <li>• Choose between three packages with synergic welding programs: Standard, Standard Plus or Special</li> <li>• Sequence</li> <li>• Sequence Repeat™</li> <li>• Miga Job Control™</li> <li>• MigaLog™</li> <li>• DUO Plus™</li> <li>• PowerArc™</li> </ul>

Software packages are constantly being expanded based on the latest knowledge in welding technology.



**SIGMA** 400  
NEXT RC

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We reserve the right to make changes.

MACHINE TYPE	SIGMA NEXT RC
Mains voltage +/- 15 %, V	3x400
Fuse type C, A	20
Mains current, effective, A	16
Mains current, max, A	24.5
Open circuit voltage, V	70
Current range, A	15-400
Efficiency	0.88
Application class	S/CE
Protection class	23S
Standards	EN/IEC60974-1. EN/IEC60974-10.
Dimensions (HxWxL), mm	520x260x635
Weight, kg	35

DUTY CYCLE	
100% 20°C MIG, A	350/31.5
100% 40°C MIG, A/V	300/29.0
60% 20°C MIG, A	400/34.0
60% 40°C MIG, A/V	370/32.5
Max. 40°C MIG, A/V	400/50/34

RWF <sup>2</sup>	
Protection class	21C
Torch connection	ZA
Duty cycle, 100% 40°C A/V	420/100
Duty cycle, 60% 40°C A/V	500/60
Standards	EN/IEC60974-5, EN/IEC60974-10
Wire diameter, mm	0.6-2.4
Wire feed speed, m/min	0.5-30.0
Dimensions (HxWxL), mm	194x220x350
Weight, kg	6.6

RWF<sup>2</sup> Robot Wire Feeder.



### RWF<sup>2</sup> ROBOT WIRE FEEDER

Configurable MIG/MAG compact tacho-feeder with four-roll wire feed system.

#### Optional add-ons for RWF<sup>2</sup>:

- Intelligent Gas Control<sup>®</sup>: save up to 50% with automatic gas control
- Air blow kit: for cleaning of gas nozzle using compressed air
- Water kit: for connecting an external cooling unit
- Mounting kit: for mounting RWF<sup>2</sup> on robot connecting an external cooling unit
- Mounting kit: for mounting RWF<sup>2</sup> on the robot

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