Technologies and systems for automatic and robot welding lines
Selco has developed a range of all-new and highly innovative hardware and software solutions for automatic welding lines and robot welding islands. Over forty years of experience in industrial welding, combined with a lasting commitment to research and development, enables Selco to offer customers a wide range of products, including fast and flexible control and configuration systems, to satisfy the needs of even the most advanced applications.

All hardware and software components have been designed and developed for maximum flexibility and efficiency in a wide range of applications. Whatever type of automatic or robot welding line you are planning, Selco can supply all the hardware you need and configure the software to provide exactly the right functionality.
• New generation of products and accessories for automatic and robot welding
• Unique, new concept software platform
• Library of over 300 MIG/MAG and TIG welding programs

A FLEXIBLE SYSTEM FOR ALL APPLICATIONS

• Complete range of power sources, wire feeders, interfaces, torches and accessories
• Suitable for all commercial brands of robot
• Potentially unlimited number of standard and special configurations
**Automation & Robotics MIG/MAG**

**GENESIS MSE / PME / GSM**
Inverter power sources for MIG/MAG and pulsed MIG/MAG based on Selco’s patented green@wave® technology for reduced energy consumption and better performance.

<table>
<thead>
<tr>
<th>GENESIS</th>
<th>3200 MSE/PME/GSM</th>
<th>4000 MSE/PME/GSM</th>
<th>5000 MSE/PME/GSM</th>
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<tbody>
<tr>
<td>Supply</td>
<td>3x230 - 400 V</td>
<td>3x 400 V</td>
<td>3x 400 V</td>
</tr>
<tr>
<td>Power</td>
<td>13,0 kVA</td>
<td>16,9 kVA</td>
<td>23,6 kVA</td>
</tr>
<tr>
<td></td>
<td>12,4 kW</td>
<td>16,1 kW</td>
<td>22,5 kW</td>
</tr>
<tr>
<td>X%</td>
<td>40°C 50% 320A</td>
<td>40°C 60% 400A</td>
<td>40°C 50% 500A</td>
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<tr>
<td></td>
<td>40°C 100% 250A</td>
<td>40°C 100% 360A</td>
<td>40°C 100% 420A</td>
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<td></td>
<td>25°C 100% 270A</td>
<td>25°C 100% 400A</td>
<td>25°C 100% 470A</td>
</tr>
</tbody>
</table>

**Advanced Robotics MIG/MAG**

**GENESIS MSR / PSR**
Inverter power sources for MIG/MAG and pulsed MIG/MAG based on Selco’s patented green@wave® technology for reduced energy consumption and better performance. The MSR and PSR series are especially designed and developed for use in robot welding stations, and allow customers to benefit fully from the great potential of Selco’s Robotics & Automation range (nozzle sensing / cleaning stations, wire feeder kits, etc.).

<table>
<thead>
<tr>
<th>GENESIS</th>
<th>4000 MSR/PSR</th>
<th>5000 MSR/PSR</th>
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<tbody>
<tr>
<td>Supply</td>
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<tr>
<td>Power</td>
<td>16,9 kVA</td>
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<tr>
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<td></td>
<td>25°C 100% 400A</td>
<td>25°C 100% 470A</td>
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</tbody>
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**Automation e Robotics TIG DC / TIG AC**

**GENESIS TLH / AC/DC**
Inverter power sources for TIG DC HF and TIG AC/DC procedures based on Selco’s patented green@wave® technology for reduced energy consumption and better performance.

<table>
<thead>
<tr>
<th>GENESIS</th>
<th>4000 TLH / ACDC</th>
<th>5000 TLH / ACDC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply</td>
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<td>3x 400 V</td>
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<tr>
<td>Power</td>
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<td>40°C 100% 360A</td>
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<td>25°C 100% 400A</td>
<td>25°C 100% 470A</td>
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</table>
WFR 1000 CLASSIC / PLUS / SYNCRO

WFR 1000 wire feeders, designed for use in automatic welding systems. Wire feed and air test buttons. Suitable for all common configurations. Available in the basic CLASSIC version and the PLUS version (with provision for push-push and wire brake). Also available for MASTER/SLAVE systems (WFR 1000 PLUS with WFR SYNCRO).

iPanel Robot

Advanced user interface with Welding Configuration Manager for the guided configuration of all welding system components. Control panel developed entirely by Selco to guarantee plain and rapid system start-ups.

RI 1000 / 2000 / 3000

Wide range of robot interfaces with up to 22/10 digital inputs/outputs and 4/4 analog inputs/outputs. Available for all common types of field bus (Devicenet, Profinet, Ethernet etc.).

RC 350

RC350 remote control. An interface with a graphic display that is unique in this type of application gives you complete control over automatic welding systems and lets you display and set all system parameters directly from the RC350.

CAN BUS

Selco CAN BUS digital communication system. System components communicate using CAN BUS protocol. The network has been specially developed by Selco for total immunity from electromagnetic interference and for safe, high speed transmission of system data.
FLEXIBLE AND SUITABLE FOR

Some examples:

Selco MIG/MAG system for automatic welding on transverse lines

Selco MIG/MAG system for automatic welding on turntable lines

Selco MIG/MAG system for HW (Hollow Wrist) robot. Water cooling and drum wire feeding.
Selco MIG/MAG system for standard robot. Gas cooling and spool wire feeding.

Selco MIG/MAG system for standard robot with MASTER/SLAVE configuration. Water cooling and drum wire feeding.

Selco TIG DC HF robot system.
COMPONENTS AND ACCESSORIES

**MIG/MAG Power sources**
Standard e Pulsed
GenesisMSE/PME
GenesisMSR/PMR

**Wire feeder units**
WFR 1000 e WFR 1000 PLUS

**Cooling Units**
WU 1000 / 2000 / 3000 / 3200

**Cable Assemblies**

**Interface connection kit / Power Source**

**Robot Interface**
RI 1000 / 2000

**Robot Interface**
RI 3000
Selco’s Weld@Net software platform turns your automatic welding line into an intelligent network capable of receiving and transmitting information about the entire welding process in real time.

Weld@Net Production Control Monitor lets you display and configure all welding process parameters for networked machines from clear, user-friendly screens on the PC. Weld@Net Production Control Monitor also lets you calculate and verify the quality and efficiency of your welding system using an advanced system and cost reporting system.

The Weld@Net platform also includes the Weld@Net Service loader and Weld@Net Service Manager for keeping your system’s welding software constantly up to date and for implementing standard and special welding programs.
Get in touch with Selco! We have the answer to all your needs!

Selco technology for automatic and robot welding provides a modern and efficient solution for industrial welding processes in various sectors:

- Automotive
- Chemical
- Oil and energy
- Pipelines
- Food
- Shipbuilding
- Aerospace
- Metal fabrication