Product range
Robotics | Man and Machine
Industries and applications

Technical advantages that make the difference

Stäubli robots are the best solution for any industry requiring speed, precision, and reliability.

Our robots include 4 ranges:
- 4-axis, SCARA
- 6-axis, including the new TX2 generation
- FAST picker
- Robots built for sensitive environments

PROTECTION
- Work in difficult environments
  - Vertical outlet provides complete protection of connection under the arm.

RELIABILITY
- High precision, long life and reduced maintenance
  - JCS gearbox designed by Stäubli.

COMPACTNESS
- Optimum use of workspace
  - Reduced footprint, large work envelope.

FLEXIBILITY
- Integrated in flexible production line
  - Various mounting options, Bellows optional, Multiple user connections.

PERFORMANCE
- Solutions for every need
  - Many versions and options available:
    - 200 mm stroke, HE version.
A complete range of standard robots

<table>
<thead>
<tr>
<th>Axis</th>
<th>X/Y/Z reach at wrist</th>
<th>Maximum payload</th>
<th>Protection class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Axis 1</td>
<td>1710 mm</td>
<td>2 kg</td>
<td>IP65 / IP67</td>
</tr>
<tr>
<td>Axis 2</td>
<td>208°/s</td>
<td>±180°</td>
<td></td>
</tr>
<tr>
<td>Axis 3</td>
<td>200°/s</td>
<td>±160°</td>
<td></td>
</tr>
<tr>
<td>Axis 4</td>
<td>260°/s</td>
<td>±137,5°</td>
<td></td>
</tr>
<tr>
<td>Axis 5</td>
<td>400°/s</td>
<td>±131°</td>
<td></td>
</tr>
<tr>
<td>Axis 6</td>
<td>760°/s</td>
<td>±140°</td>
<td></td>
</tr>
</tbody>
</table>

For ceiling version, consult us.

Can be configured by software up to ±18000°.

A complete range for all sensitive environments

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
<th>Protection class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paint</td>
<td>Stericlean</td>
<td>IP65 / IP67</td>
</tr>
<tr>
<td>Paint</td>
<td>Acrylic</td>
<td>IP65 / IP67</td>
</tr>
<tr>
<td>Paint</td>
<td>Epoxy</td>
<td>IP65 / IP67</td>
</tr>
<tr>
<td>Paint</td>
<td>Silicone</td>
<td>IP65 / IP67</td>
</tr>
<tr>
<td>Paint</td>
<td>Fluoropolymer</td>
<td>IP65 / IP67</td>
</tr>
<tr>
<td>Paint</td>
<td>Anti-corrosion</td>
<td>IP65 / IP67</td>
</tr>
</tbody>
</table>

TX2 : a generation of robots built for Industry 4.0

The 4th industrial revolution has started and made more efficient, human-bots working in the same space. The TX2 is adapted to create an efficient safety and machine collaboration. With the TX2 robot range and the CS9 controller, Cobot opens a new chapter in the relationship between safety and speed. The safety functions need to be adapted to the specific environment and the safety function must be reconfigured. All safety functions must be validated before use. The TX2 robot range is designed to be safe, powerful, and easy to use, with new features and improved safety.
Our software solutions

### Controls

**VAL 3 LANGUAGE**

Advanced robotics environment to build high end and tailored applications.

**VAL PRODUCTS**

Ready to use market solutions.

**uniVAL**

uniVAL is a “plug and play” solution to drive Stäubli’s entire range of robots with generic industrial multi-axis controllers or PLCs.

### A controller range

#### CS8C M
- IP20
- 512 Mb RAM
- USB ports
- 2 GB Flash disk
- Communication RS232/422 serial link, 2 Ethernet ports (Socket, FTP Server/Client)
- 1 or 2 boards 16/16 digital I/O, optional
- Modbus TCP/IP Server

(H x W x D) 520 x 200 x 300 mm - 17 kg

#### CS8C
- IP20 (IP54 option)
- 512 Mb RAM
- USB ports
- 2 GB Nand Flash
- Communication RS232/422 serial link, 2 Ethernet ports (Socket, FTP Server/Client)
- 1 or 2 boards 16/16 digital I/O, optional
- Modbus TCP/IP Server

(H x W x D) 331 x 445 x 455 mm - 50 kg

#### CS8C paint / CS8C HP
- IP54
- 512 Mb RAM
- USB ports
- 2 GB Nand Flash
- Communication RS232/422 serial link, 2 Ethernet ports (Socket, FTP Server/Client)
- 1 or 2 boards 16/16 digital I/O, optional
- Modbus TCP/IP Server

(H x W x D) 1035 x 850 x 780 mm - 140 kg

#### CS9
- IP20
- 1 GB RAM
- USB ports
- 2 GB CFAST
- Serial link RS232, 2 Ethernet ports (Socket, FTP Server/Client)
- Remote I/O in option on EtherCAT Master
- Modbus TCP/IP Server & Client, SercosIII Slave, Ethernet IP Adapter, Profinet IO-Device, EtherCAT Slave, PowerLink Controlled Node

(H x W x D) 240 x 370 x 445 mm - 38 kg

Optional for CS8C M, CS8C, CS8C paint and CS8C HP models:
- Modbus TCP/IP Client, CanOpen Master, Profinbus DP Master & Slave, DeviceNet Master & Slave, Ethernet IP Scanner / Adapter, Profinet IO-Controller and IO-Device, EtherCAT Slave, PowerLink Slave

Optional for CS9 model:
- ASI Master, CCLink Client, Profinbus DP Master & Slave, Ethernet IP Scanner & Adapter, Profinet IO-Controller & Device, EtherCAT Master & Slave, SercosIII Master & Slave, PowerLink Controlled Node

### Development Studio

3D simulation of robotic cell and off-line application development.

### Maintenance Studio

Remote controller access with 3D visualization of the robot cell.

### VAL 3

Advanced robotics environment to build high end and tailored applications.

### SUITE

3D simulation of robotic cell and off-line application development.

### Controls

Remote controller access with 3D visualization of the robot cell.

### VAL products

Ready to use market solutions.

### uniVAL

uniVAL is a “plug and play” solution to drive Stäubli’s entire range of robots with generic industrial multi-axis controllers or PLCs.

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**SP1 and SP2 manual control unit:** The power of Stäubli at your fingertips

This unique terminal combines a lightweight design (700 g), ergonomics (for left or right-handed user) and robustness to deliver advantages in all environments:
- built-in programming, maintenance and supervision,
- safety functions (3-position dead-man control, presence detection).
Global presence of the Stäubli Group

www.staubli.com