

Product range

Robotics | Experts in Man and Machine



A unique industrial robot range, power cobots and mobile robot systems for many industries



Main benefits

Cleaning

Washing







Machine loading /

unloading





more



Assembly

Smart Design

- Encapsulated arms, no external cables
- Compatible with all environments from harsh and dirty to sterile
- IP65/67 for the entire arm with pressurization kit



Handling



Integration Flexibility

- Large and efficient work envelope
- Multiple mounting possibilities for flexible and scalable integration
- Small footprint for entire range



High Performance

- Patented JCS gearbox specially designed for compact robots bringing high dynamics, agility and • path precision
- Compatible with NSF H1 food oil with no loss in performance
- 19-bit multiturn absolute encoder technology



Measuring

Quality control



- Integrated electrical and pneumatic user circuit including Cat 5e
- Compatibility with production devices, ERP and standardized protocols including OPC UA
- Web server embedded in CS9 controller



Packaging

Consistent reliability for secured payback

- · Lower total cost of ownership and faster return on investment
- · Long lifetime and low maintenance; all subcomponents are easily accessible and exchangeable



Unique modular SIL3-PLe safety functionalities





The robot switches to a reduced speed (≤ 250 mm/s) as soon as the operator enters the environment, regaining full speed once the operator is



Safe Zone ensure safe limited arm performance within predefined areas.



The robot slows down as the operator approaches, stops during the interaction, and starts up again at the end of the interaction.



Safe Tool is supervising robot's tools or grippers dimension and speed.

POWER cobot TX2touch range

The TX2touch is a unique range of cobots designed for safe Man-Robot Collaboration while maintaining high productivity. Based on the proven TX2 industrial robot, it offers safe operation thanks to its advanced skin technology, quick reaction time and embedded modular safety functions. TX2touch is the only cobot with the SIL3-PLe safety level. It is highly productive due to the performance, smart connectivity and reliability inherited from TX2 robots.



Safe touch

The cobot reacts in 10 ms whenever it comes into contact with an operator. Contact is harmless, since the cobot's skin is up to 20 mm thick to optimize the safety of all Man-Robot interactions.



HelMo mobile robot system

The HelMo mobile robot system is an auton- In combination with the TX2 robot and the omously driving and navigating vehicle that CS9 robot controller including features like has been developed especially for Man-Robot Collaboration.

Three integrated laser scanners are permanently monitoring the system's surrounding and ensuring precise navigation and safety.

safe speed, safe stop and safe zone/safe tool, a safe collaboration is guaranteed.



WFT Modular individual platform systems

When it comes to linking different manufacturing processes together, Stäubli WFT provides the right solution.

Even in the most stringent or sensitive environments like cleanroom, its Automated Guided Vehicles (AGVs) are ready to tackle your challenges.

The patented omnidirectional drive technology brings to our wide range of AGVs unrivaled precision, dexterity, and safe motion performance for the factory floor.

Thanks to high connectivity, Stäubli WFT AGVs deliver smart data to automate and monitor your intralogistics tasks for more production modularity and predictability.



Powerful software solutions for smart production



Perfectly adapted to each user profile



VAL 3 Language

Advanced robotics environment to build high basic to high-end applications.



UniVAL

uniVAL is a "plug and play" solution to program Stäubli's entire range of robots with your generic motion controllers or PLCs.

uniVAL drive

uniVAL plc



Efficient and easy programming for faster payback



Development Studio

Develop your entire cell offline, visualize it in 3D and calculate your cycle time.



Maintenance Studio

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

Controller range

CS9 / CS9 MP



(H x W x D) 270 x 445 x 365 mm - 38 kg (H x W x D) 297 x 445 x 365 mm - 44 kg

- IP20
- 1 GB RAM
- USB ports
- 2 GB CFAST
- Serial link RS232,
 2 Ethernet ports
 (Socket, FTP Server/Client)
- EtherCAT Master
- Modbus TCP/IP Server & Client, Sercos

III Slave, Ethernet IP Adapter, ProfiNet IO-Device, EtherCAT Slave, PowerLink Controlled Node

Optional for CS9 model:

- PCle card: ASI Master, CCLink Client, Profibus DP Master & Slave, Ethernet IP Scanner & Adapter, ProfiNet IO-Controller & Device, EtherCAT Master & Slave, Sercos III Master & Slave, PowerLink Controlled Node
- Remote I/O
- OPC UA server

CS8C MP



CS8C HP



(H x W x D) 481 x 445 x 455 mm - 60 kg

- 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

Optional for CS8C MP and CS8C HP models:

- Modbus TCP/IP Client, CanOpen Master, Profibus DP Master & Slave, DeviceNet Master & Slave, Ethernet IP Scanner / Adapter, ProfiNet IO-Controller and IO-Device, EtherCAT Slave, PowerLink Slave
- OPC UA server
- (H x W x D) 1035 x 607 x 815 mm 140 kg
- 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
- OPC UA server as an option

SP2 manual control unit

This unique terminal combines a lightweight design, 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, emergency stop),
- Ease of use, graphics and intuitive interface,
- Integrated Web technology.







Stäubli Units
 Representatives/Agents

Global presence of the Stäubli Group

www.staubli.com

