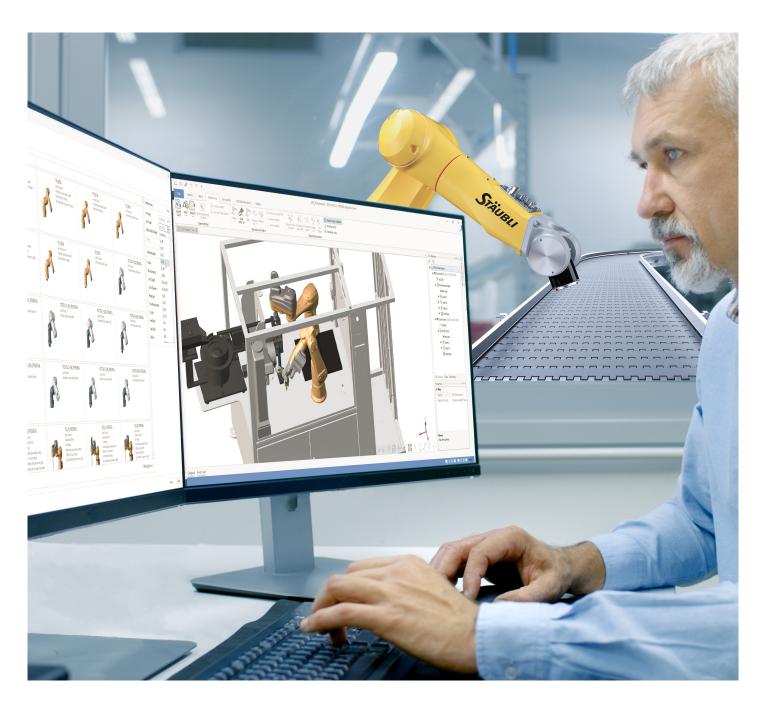


Stäubli Robotics Suite

Robotics | Experts in Man and Machine





STÄUBLI VISION

Experts in Man and Machine



"Today, our robots work both for, and with, people. They have to be fast and precise, collaborative and agile, user-friendly and highly mobile. In all kinds of industries, they redefine performance. Even in the most sensitive environments, they make production smarter. Providing smart data, in an easily connected world, where we share our expertise. A world of solutions."

People drive change, robots accelerate the pace.

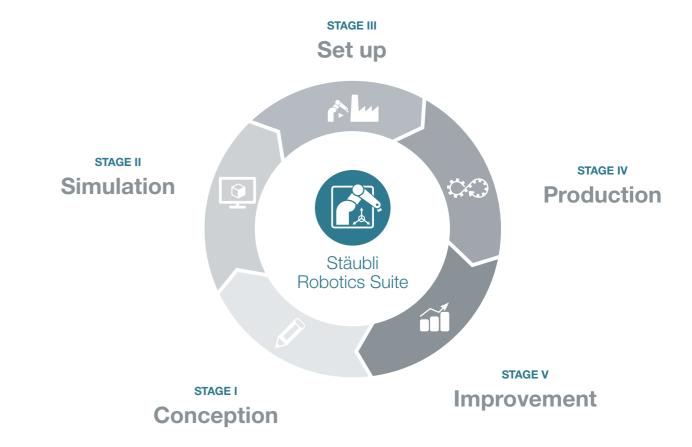
Christophe Coulongeat,Group Division Manager Robotics

STÄUBLI ROBOTICS SUITE 2019

A powerful PC environment for today's smart production

Stäubli Robotics Suite is a broad PC software environment which simplifies managing your robot system. Starting from conception and simulation over setup to production, it also enables easily

a permanent improvement of your robot applications. It guides you clearly through the process of simulating, developing and debugging your robot programs all the way to the final validation and transfer of any system data. Due to its versatility of applications it is the ideal smart production tool offering multi-screen support running on windows operating system.



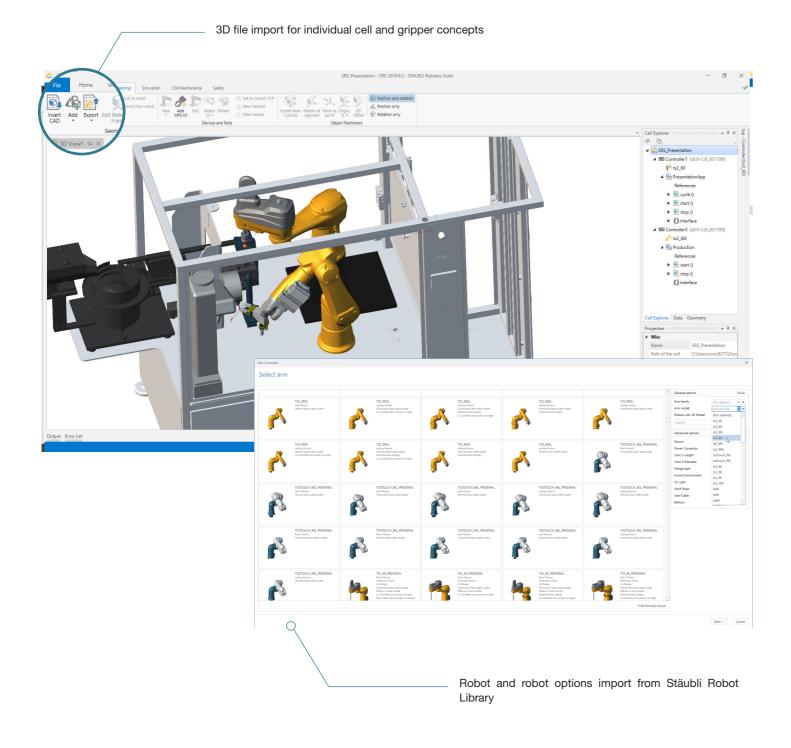


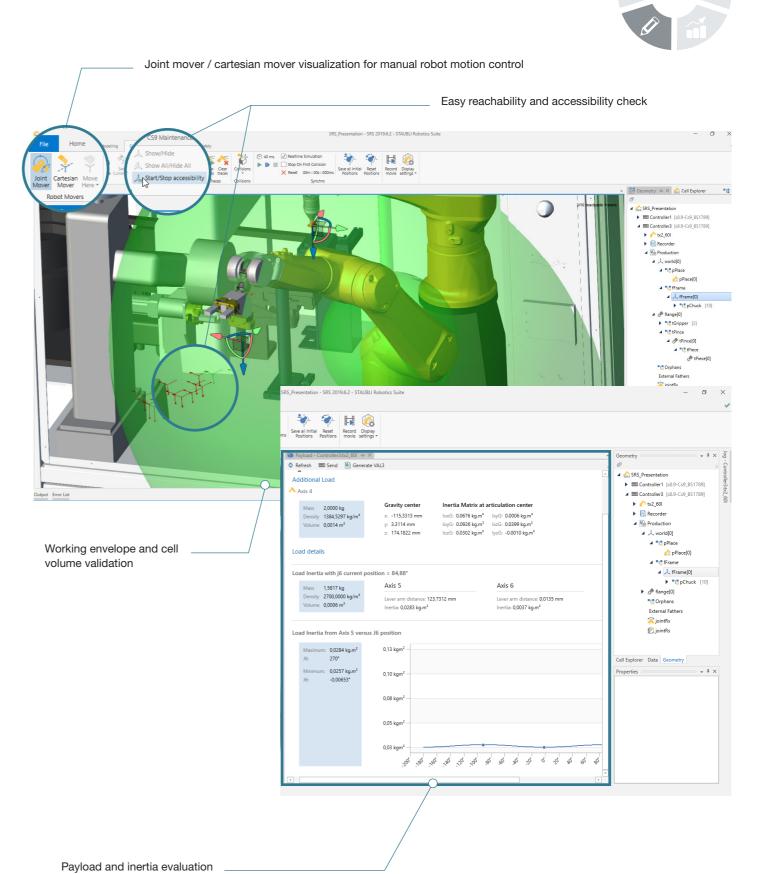
STAGE I: CONCEPTION

Providing a quick overview of the robot feasibilities

Stäubli Robotics Suite is enabling anybody to evaluate automation concepts easily in a 3D environment, even without robot programming experience.

Quick and easy concept validation due to the following Stäubli Robotics Suite capabilities:





STÄUBLI

STAGE II: SIMULATION

Comfortable visualization and validation of your cell concept or digital twin

During the stage of simulation Stäubli Robotics Suite allows even more realizing functionalities.

> %Q0 %Q1

%Q3

%Q6

Analogue Inputs
Analogue Outputs

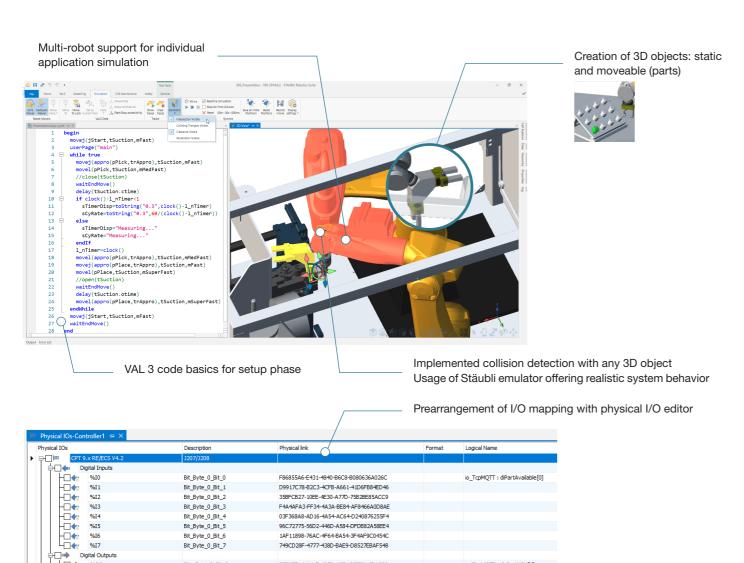
Bits Byte 0 Bit 1

Bits_Byte_0_Bit_2

Bits_Byte_0_Bit_3

Bits_Byte_0_Bit_4

Bits_Byte_0_Bit_6 Bits_Byte_0_Bit_7 Based on your concept evaluation, Stäubli Robotics Suite enables a simple completion with detailed robot, cell, tool and part simulation features:



DFF9EE14-A41E-405B-A874-DE70912BA986

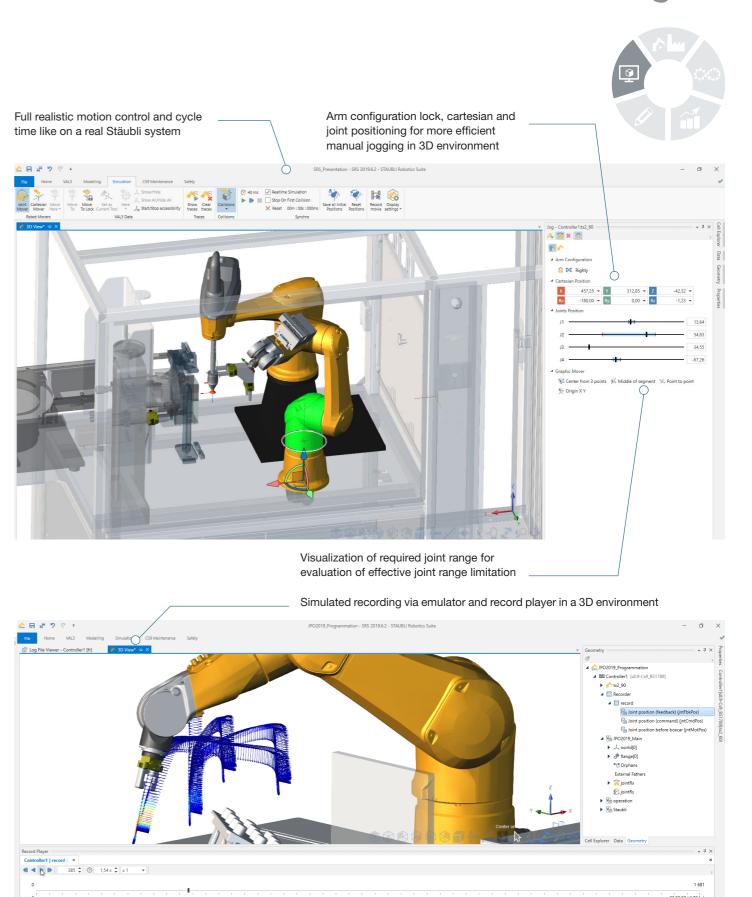
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8DF64D5E-0E58-4C45-861F-AF04618EA1AD

8A023A3B-6F64-42ED-B2F7-0BFD1C211FF1 D0781ECF-8DA6-4561-9C50-E78EF7DA2193

6F154F2B-1C8A-4140-AFEF-9D9D3D1CF7D2

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STÄUBLI

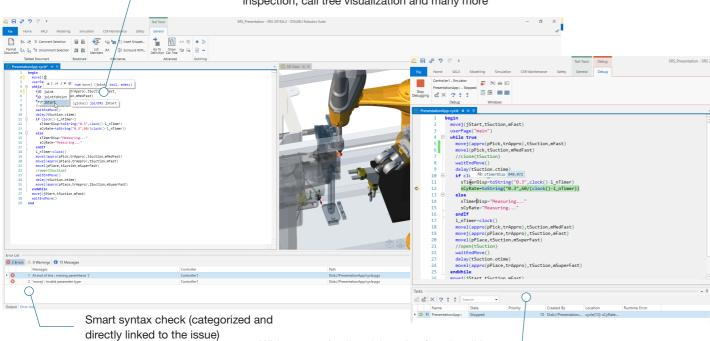
STAGE III: SETUP

Entire realization of individual customer needs

Stäubli Robotics Suite is your key to fully manage any Stäubli robot system and giving access to all the powerful controller functionalities of Stäubli Robotics

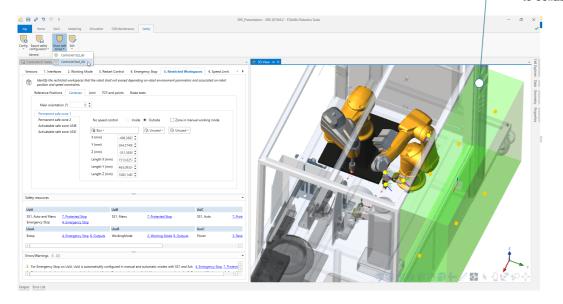
Controls including safety. An easy-going implementation is guaranteed by various functionalities:

Integrated VAL 3 development environment with auto-completion, collapse and expand function of code, automated code inspection, call tree visualization and many more

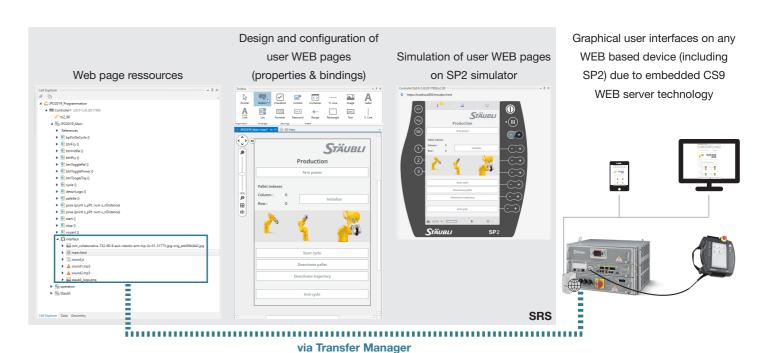


Wide range of online debugging functionalities

Safety configuration from industrial up to collaborative applications









One centralized software tool for configuration of all fieldbus I/Os

Robotics | Stäubli Robotics Suite 2019

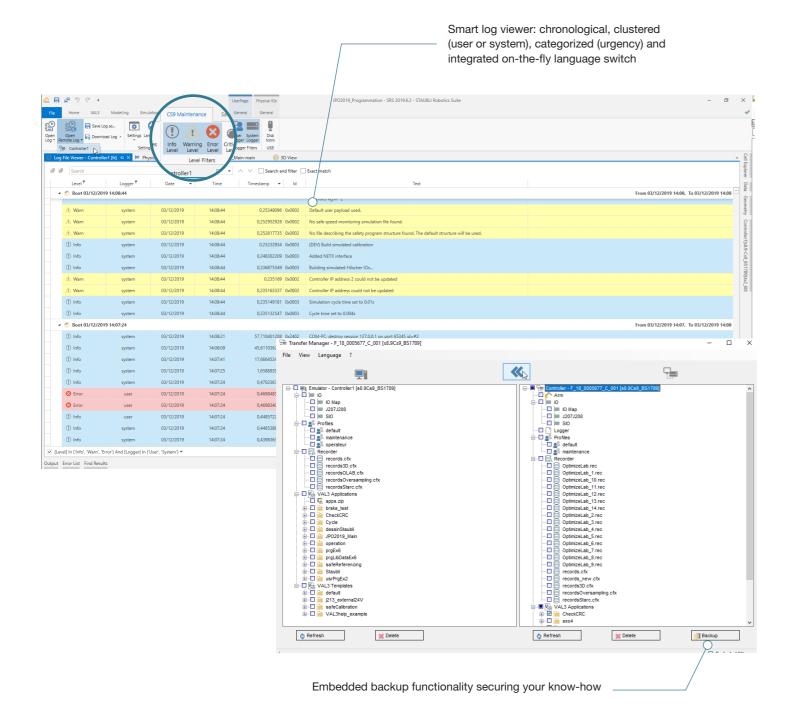


STAGE IV: PRODUCTION

Keeping your production connected and efficient

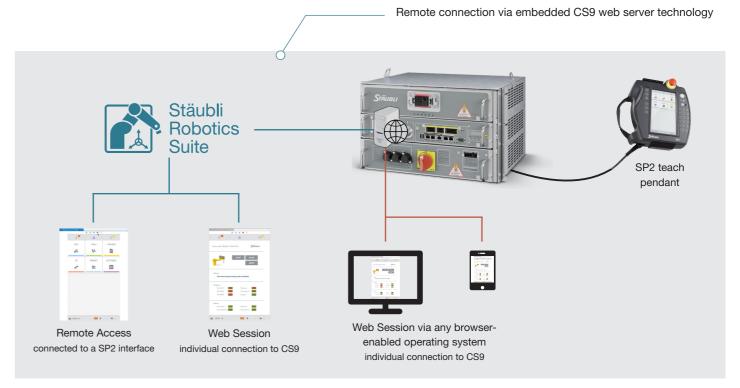
Even after setting up your production process, Stäubli Robotics Suite stays by your side in order to secure your engineering investment. Stäubli Robotics Suite helps

you manage your valuable process and keeps control of your constantly generated data thanks to the following capabilities:











STAGE V: IMPROVEMENT

OEE* increase through smart robot optimization possibilities

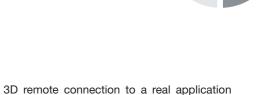
Stäubli Robotics Suite supports you with increasing your *Overall Equipment Efficiency for existing production lines and further concepts or digital twins. Stäubli Robotics Suite enables you to improve your current and future robot processes by the optimization of:

- robot motion
- cycle time
- robot stress
- robot lifetime

through record player and colored load visualization.

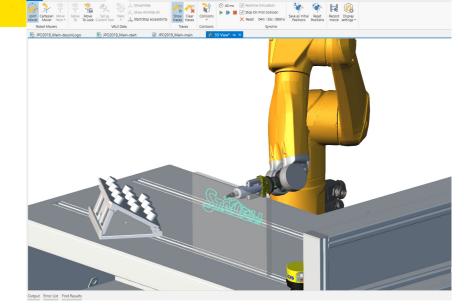
Now the recording is colored based on the stress level of the robot. Coming from our Optimize Lab software solution

**Proceed Section 19 | **Proceedings | **Proceedings | **Proceedings | **Proceedings | **Proceedings | **Procedings | **Procedings | **Proceedings | **Procedings | **Procedin



environment for faster and more efficient

troubleshooting on distant or difficult to access systems





LICENSES

Stäubli Robotics Suite adds value for any usage or engineering stage

Depending on your needs you can choose between two independent license models to get access to the variety of functions of Stäubli Robotics Suite. The free trial allows you to examine all functions with only less limitations.



Development Studio license

This license activates the necessary functionalities to perform realistic simulations (3D layout development, collision detection, parts handling, realistic cycle time estimation, application development, etc.).



Maintenance Studio license

This license activates all the functionalities required to connect and maintain remotely a real robot cell (remote access to the manual control pendant, loading a 3D robot cell to visualize the real robots trajectories, etc.). The licenses can be used separately or combined for full access.

All licenses are available as Local or Network USB dongles.

For further development and analysis, an additional Stäubli product is available:

 Optimize Lab for robot performance and load analysis

In addition to Stäubli Robotics Suite, please keep our Brake Distance Calculator (BDC) in mind to validate your robot stopping performance during the phase of risk assessment (phase 2).



Demo

	Function	Development Studio	Maintenance Studio
	Save Stäubli Robotics Suite project	✓	
Ø	3D-file import	\checkmark	
	Robot (options) library	✓	\checkmark
	Reachability and accessibility check	\checkmark	
	Payload and inertia evaluation	✓	
	Improved jog interface (arm config. Switch and lock,)	\checkmark	\checkmark
ğ	Creation of 3D objects	\checkmark	\checkmark
	Simulation of motion, cycle time and system behavior	\checkmark	\checkmark
	OPC UA on CS9 emulators (and CS8C, SRC ≥ 7.11)	✓	\checkmark
	Safety configuration (3D visualization of safety zones,)	\checkmark	
	Visualization of safety configuration	✓	\checkmark
	Collision detection	\checkmark	
	Multi-robot support (interaction)	\checkmark	
	Designer for customized graphical user page (CS9)	\checkmark	
<u>ra</u>	Integrated VAL 3 development environment	\checkmark	
	Syntax check	\checkmark	
	Find Code Issues	✓	
	Configuration of all fieldbus I/Os	\checkmark	
	Online debugging	✓	
	Display variable values through mouse over	\checkmark	
	Watch function also for single array elements, calculations and boolean expressions	✓	
\$ \$	Smart log viewer		\checkmark
	Recording visualization		✓
	Embedded backup functionality		\checkmark
	Remote access		\checkmark
	Show colored visualization of Optimize Lab robot stress result	✓	
	Record player in 3D environment	✓	

mode*	
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*With the demo mode, Stäubli is offering you the possibility to validate our software functionalities according to your needs. Project saving is not available.



Stäubli UnitsRepresentatives/Agents

Global presence of the Stäubli Group

www.staubli.com

