

BEYOND ROBOTS

Why choose Stäubli for your preventive maintenance?



Knowhow of Stäubli

Robot experts using official Stäubli preventive maintenance method



A follow-up of each of our interventions and of the robot's history



Qualified technicians combining technical knowhow with problem-solving skills



100% Stäubli parts ensuring high quality during our maintenance interventions



12 month warranty We provide a 12 month warranty for all spare parts replaced.

Thanks to our Stäubli Preventive Maintenance Configurator (SPMC), Stäubli's official preventive maintenance method, our technicians are able to perform the most effective maintenance for your robot. They use Stäubli SPMC to define a maintenance



profile and schedule specifically for your robots. With Stäubli SPMC, service technicians maintain your equipment systematically, monitor the entire system, and replace parts, so they can prevent equipment problems before they happen.

Key benefits of annual preventive maintenance:

- Protection of high value-added components
- Reducing the risk of unwanted downtime
- Increasing the durability of your robot
- Limit unpredictable costs

Our preventive maintenance standards

| | | | LEVEL A | LEVEL B | LEVEL C |
|--|---|--|---------|---------|---------|
| | | 87 inspection-points (arm + controller) | * | * | * |
| | General state of the arm | Painted parts: visual check, touch up the paintwork for small areas (<2sq cm) without oxidation (depending on the robot model) | * | * | * |
| | | Lubrication of moving parts (depending on the robot model) | * | * | * |
| | | Execution of a robot test program lasting from 15 minutes to 1 hour maximum | * | * | * |
| | | Control of the general tightening of the screws | * | * | * |
| | Ū | Checking the known reference position | * | * | * |
| | Gear boxes | Oil level adjustment of all the joints | * | * | * |
| | | Adjustment of backlash | * | * | * |
| | | Draining axes 1 and 2 (depending on robot model) | * | * | * |
| | | Draining of all axes (depending on robot model) | | * | * |
| | Sealing | Replacement of flat seals | * | * | * |
| | Belt | Adjustment of belt tension (depending on robot model) | * | * | * |
| | | Replacement of belts (depending on the robot model) | | * | * |
| | | Replacement of pulleys and rollers (depending on the robot model) | | * | * |
| | Balancing system | Replacement of the bearings (depending on the robot model) | | * | * |
| | Electrical and pneumatic harness | Replacement of solenoid valves (depending on the robot model) - optional | | | * |
| | Undate o | f system files and firmware | * | * | * |
| | Check/clean of the entire controller ventilation system (depending on the controller model) | | * | * | * |
| | Replacement of filters | | * | * | * |
| | Creation/update of a boot key or flash disk given to the customer | | * | * | * |
| | Replacement of CPU battery | | | * | * |
| | Replacement of the drives fans | | | | * |
| | Replacement of the starc fan | | | | * |
| | Replacement of the air exchanger fans (option) | | | | * |
| | Replacement of the CPU fans | | | | * |
| | Replacement of the power supply fans | | | | * |
| | Replacement of the power contactors (depending on the controller model) | | | | * |

Levels applicable for all robots except RS20, TS20, TP80, TX250, TX340, RX260, RX270

Up to 87 inspection-points

Safety - arm

- Mechanical hard stop (option): visual check [1]
- Remote brake release (option): check operation [2, 3, 4, 5, 6, 7]
- Fastenings (base, tool interface flange, etc.): check tightness and for corrosion [8, 9, 10, 11, 12, 13, 14, 15]
- Power light (option): check [16]
- Check that the motors and brakes are working properly [17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28]

General state - arm

- External: Visual check for corrosion and collision damage [29]
- Check of the factory marks [30, 31, 32, 33, 34, 35]
- Check all moving parts (MPS010, external harness, bellow, ...) [36]



Teach pendant

- Check MCP screen & keyboard [86]
- Check MCP housing [87]



• Check the joints for backlash and proper operation [37, 38, 39, 40, 41, 42] • Check oil level [43, 44, 45, 46, 47, 48]

Sealing - arm

- Visual check of external leakage [49, 50, 51, 52, 53, 54]
- Visual check of internal leakage [55]
- · Covers, interconnect plate, forearm I/O plate and forearm/wrist interface flat seals: Visual check [56]
- · Pressurization unit : check operating pressure on dial (depending on the robot model) [57, 58, 59]

Electrical and pneumatic harness - arm

- Check the electrical and pneumatic harnesses and connections [60, 61, 62, 63, 64, 65, 66]
- Solenoid valves: check operation (depending) on the robot model) [67]

- Examination of the logger and check for any operating anomalies [68, 69] • Check the operating and installation conditions [70, 71, 72]
- Check that the fans are working properly [73, 74, 75, 76, 77, 78, 79, 80] • Visual check of LED's [81]
- · Backup of the applications download from our website (with a secure access) [82, 83]

Preventive maintenance schedule

Your Stäubli representative will help you define your preventive maintenance plan according to your robot usage and definition.

| Robot definition | LEVEL A | LEVEL B | LEVEL C |
|--|-----------------------------|-------------------------------|-------------------------------|
| Standard robot | Every 7,000 hours or 1 year | Every 20,000 hours or 5 years | Every 40,000 hours or 8 years |
| Robot using H1 oil OR robot with heavy duty applications | Every 7,000 hours or 1 year | Every 10,000 hours or 5 years | Every 40,000 hours or 8 years |
| Robot using H1 oil AND with heavy duty applications | | Every 7,000 hours or 1 year | Every 40,000 hours or 8 years |

*Whichever is the sooner (hours or years)





Willing to evaluate the health of your robot?

Contact us to perform a Robot health check-up

The Robot health check-up consists of 87 inspection-points. We perform a visual inspection of your robot to ensure it is operating correctly. Thanks to our diagnostic and detailed report, we highlight any issues and repairs needed.



Get in contact with our team

