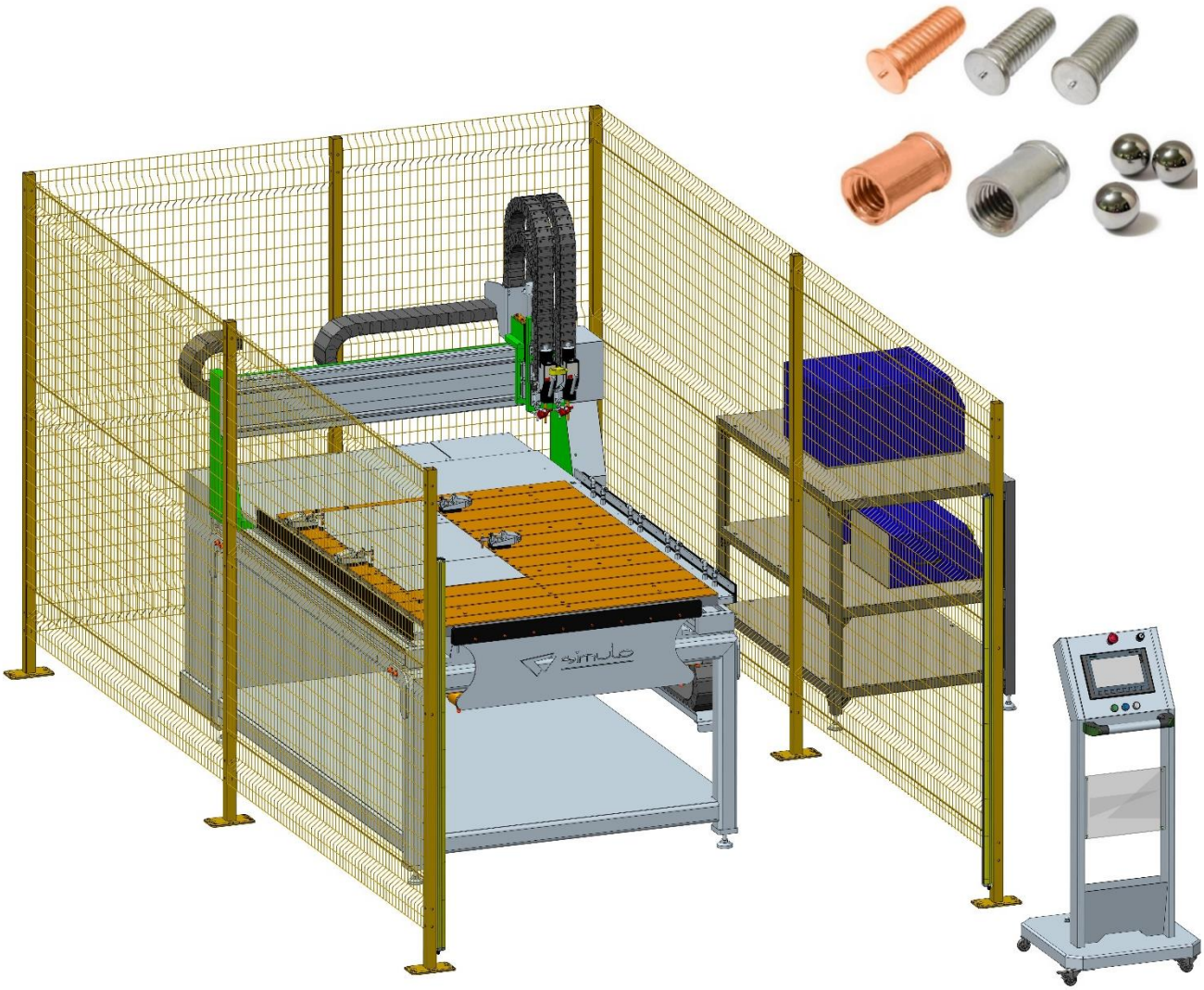
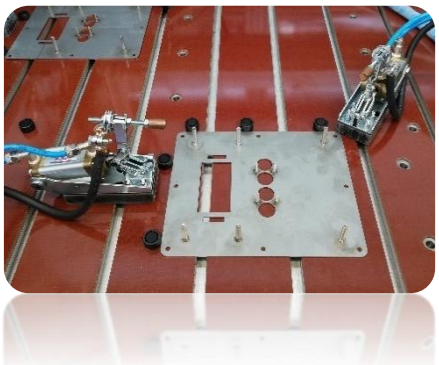
STUD WELDING AUTOMATIONS

SW1000-1500 | SW1500-2500

High-performance cartesian robots for automatic stud welding on sheet metal parts.
Heavy duty machines for stud welding on large-sized parts, specifically designed and manufactured for intensive operation and simultaneous use of multiple welding heads.





TECHNICAL DATA

	SW1000-1500	SW1500-2500
Working area	1000x1500mm; working area divisible into several sub-areas. T-slot machine table made from 40mm thick aluminium plate with insulating coating	1500x2500mm; working area divisible into several sub-areas. T-slot machine table made from 40mm thick aluminium plate with insulating coating
Controller and display	SIEMENS S7-1200 PLC with Ethernet interface for network connectivity and 9'' HMI touch screen mounted on mobile control panel	
Axes	3 motor-driven axes (X, Y, Z) + pneumatic slide for quick descent of welding head (Z) (a pneumatic slide for each installed welding head)	
Positioning speed	Up to 1000mm/s	
Pneumatics	FESTO	
Standard welding unit	SOYER BMS-10N AUTO capacitor discharge stud welder (short cycle or SRM® welding technology available upon request)	
Standard welding head	SOYER SK-5AP automatic welding head	
Max. number of welding heads	4	
Stud feeder	SOYER UVR-300 automatic vibratory bowl stud feeder	
Workpiece clamping	Up to 8 pneumatic clamps with ground cables (4 pneumatic clamps included)	
Weldable materials	Steel, stainless steel, aluminium, brass	
Welding range	M3-M8 or Ø2-8 mm, 6-50mm in length. Special studs, earth tags, balls welding. Other diameters, lengths or welding elements upon request	
Positioning accuracy of welded stud	±0,15mm	
Mains supply	220-240Vac 50-60Hz	
Compressed air supply	6-10bar	
Safety systems	Wire mesh fence panels and/or light curtains	

OPTIONS:

- other stud welding units/welding heads available upon request;
- several welding heads (up to 4);
- working area of different sizes;
- protective fluid spraying unit;
- additional pneumatic clamps;
- special stud feeding equipment (e.g. pick&place);
- easy remote programming from dxf/dwg files with *Simulo tool* software;
- automated load/unload systems;
- IPC-based control;
- teleassistance service;
- other options available upon request.

INDUSTRY 4.0 READY