



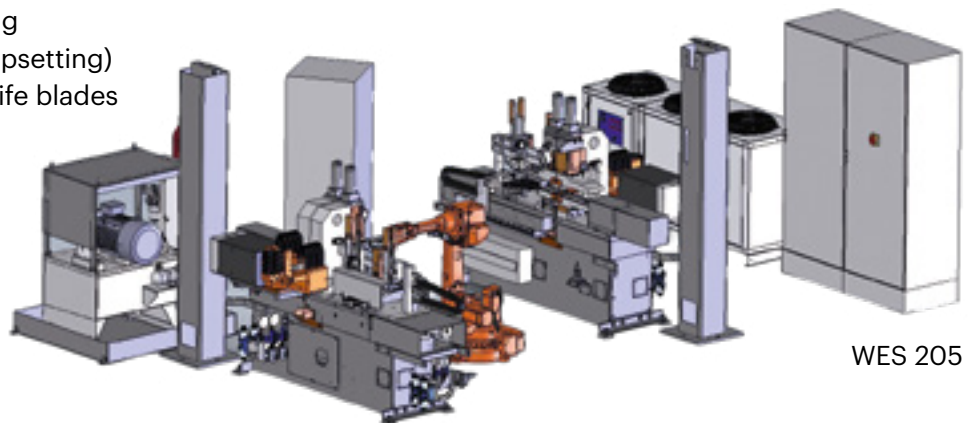
## SPECIAL SOLUTIONS RESISTANCE UPSETTING MACHINE TYPE WES & MULTIPOINT WELDING MACHINE TYPE VPS

# WES VPS

Our **VPS and WES special solutions** provide high-precision, automated welding systems designed for specialized manufacturing requirements in both high-volume production and structural metal fabrication. These systems are engineered for **maximum efficiency, short cycle times, and exceptional repeatability**, delivering customized solutions for demanding applications in the automotive, mechanical engineering, and metalworking industries.

### RESISTANCE UPSETTING MACHINE

Professional Blade Manufacturing  
For the production (resistance upsetting)  
of the ferrule on professional knife blades



### GENERAL ADVANTAGES OF THE VPS SERIES

**Technology:** High-precision resistance welding with multi-point welding capability

**Automation:** Fully automated handling available with short cycle times

o VPS 1052 / 1081: < 7 seconds

o WES 205 (resistance upsetting): < 60 seconds

**Controls:** Siemens or Allen-Bradley PLC with electronic cycle control and data storage (Industry 4.0 ready)






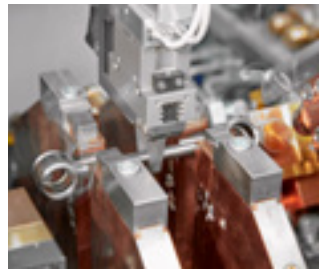


#### Typical Applications

**Automotive Industry:** Stabilizers, Bolts and fasteners, Rings and structural components

**Metal Fabrication:** Grids and mesh structures, Blades and knife components, Profiles and formed parts

**Mechanical Engineering & Infrastructure:** Cable trays, Window and door frames, Drawer rails, Handles

**Key Advantages:** Cost-efficient welding process, High process repeatability, Minimal material wear, Ideal for high-volume production, Flexible material capability (carbon steel, stainless steel, alloy steels), Designed for **single-operator production cells**

VPS 589 R	VPS 1051	VPS 1081	VPS 1085
			
			
Edge bars on the sides of grids	Stabilizer rings & bars (automotive)	Rings, bars, ball bolts	cable conductor
<b>Application</b> Heavy construction Edge bar joining	<b>Application</b> Chassis technology Series production	<b>Application</b> Automotive Screw & bolt construction Chassis technology Stabilizers (pin & ball)	<b>Application</b> Semi-automatic and fully automatic cell solutions for the production of industrial cable terminator systems using resistance, projection, and spot welding
<b>Materials and specifications:</b> Height 20 - 80 mm Material thickness: 1.5 - 5 mm Material: S235/S355/S500C T-profile End product: L 500 - 2500 mm W 500 - 2000 mm Weight 200 kg	<b>Materials and specifications:</b> Rings: Ø23 - 40 mm, H 12 - 25 mm Rods: Ø 6 - 18 mm, L 30 - 500 mm Material: C15K/St 52 Capacity: 200 kVA Welding current: 40 kA Welding force: 10 kN Resistance welding using 50 Hz or 1000 Hz technology	<b>Materials and specifications:</b> Rings: Ø 23-40 mm, H 12-25 mm Rods: Ø 6-18 mm, L 30-500 mm Balls: Ø 16-25 mm Bolts: M10-M14, L 20-92.5 mm Material: 7MnB8, 23MnB4+QT, C10, 4CrMo4+QT Capacity: 250 kVA Welding current: 30-40 kA Welding force: 10-20 kN Resistance welding using 50 Hz or 1000 Hz technology	<b>Materials and specifications:</b> Finished product width: 200 mm - 900 mm Side height: 110 mm; 160 mm Length: 2,000 mm - 6,000 mm Material thickness: 1.5 mm - 2.0 mm Materials: 1.0917, 1.0330, 1.0332, 1.4301, 1.4401, 1.4571
<b>Optional modules</b> Automatic robot handling Siemens/Allen Bradley PLC Cooling/hydraulic/conveyor technology Electronic cycle control & data storage	<b>Optional modules</b> Version VPS 1061 with CO2 welding station, automatic handling Siemens/Allen Bradley PLC Electronic cycle control & data storage	<b>Optional modules</b> Automatic handling Siemens/Allen Bradley PLC VPS1084: 1 line VPS1081: 2 mirror-image lines Electronic cycle control and data storage	<b>Optional modules</b> Siemens/Allen Bradley PLC Electronic cycle control & Data storage Joining techniques: Welding/Clinching