

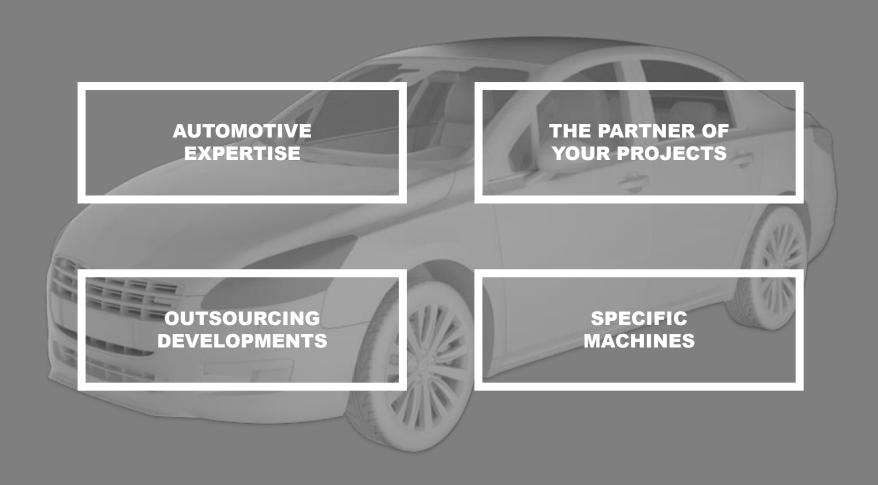


AUTOMOTIVE EXPERTISE

OUR EB SOLUTIONS MEET ALL YOUR CHALLENGES

ELECTRON BEAM WELDING

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AUTOMOTIVE EXPERTISE













SINCE 1968 →

47 YEARS OF EXPERTISE







AUTOMOTIVE EXPERTISE

WE HAVE THEIR TRUST... SEVERAL AUTOMOTIVE CLIENTS





AUTOMOTIVE EXPERTISE

THE PARTNER OF YOUR PROJECTS



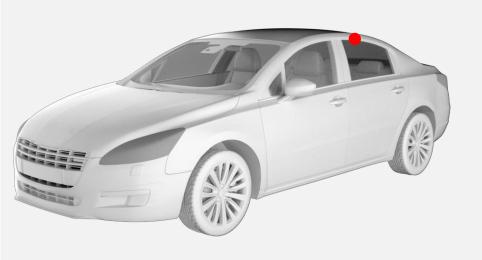
OUR WILLING IS TO GO FURTHER BY YOUR SIDE



AUTOMOTIVE EXPERTISE

THE PARTNER OF YOUR PROJECTS

PARTS WELDED BY TECHMETA TECHMETA ON CARS – ELECTRICAL SENSORS FOR POWER SUPPLY MONITORING





GENERAL INFORMATION

- Shunt
- Bi-metallical strips welded at high-speed

MAIN FEATURES

- 2 guns,
- Welds continuously up to 15 m/min

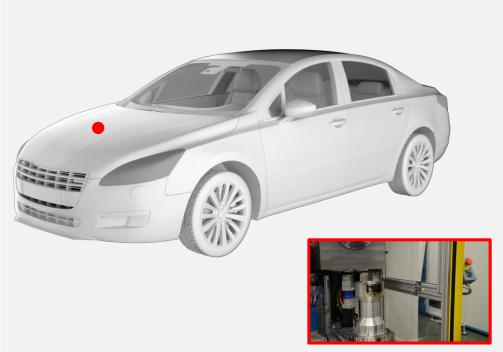
WELDS

- Machining, cleaning, inspections included
- Strips of different width and thickness

AUTOMOTIVE EXPERTISE

THE PARTNER OF YOUR PROJECTS

PARTS WELDED BY TECHMETA TECHMETA ON CARS – ELECTRICAL SENSORS FOR POWER SUPPLY MONITORING



AUTOMOTIVE

EXPERTISE



PARTS

- Wheels in refractory alloy nickel-based,
- Parts hardly weldable by other processes,
- The wheels welding can be done on finished steels
- Almost no deformation after welding

MAIN FEATURES

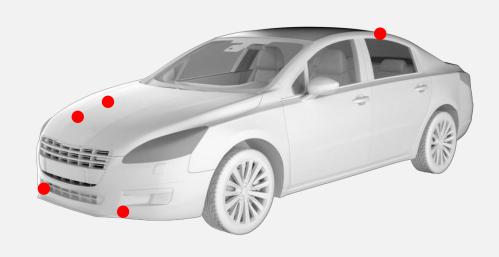
- Horizontal gun position on the chamber wall
- Rotary table with 2 stations fitted with
 2 tool-holders trays
- Vertical rotary axis
- Post heating after welding for metallurgical features

THE PARTNER OF YOUR PROJECTS

VIDEO >

PARTS WELDED BY TECHMETA ON CARS





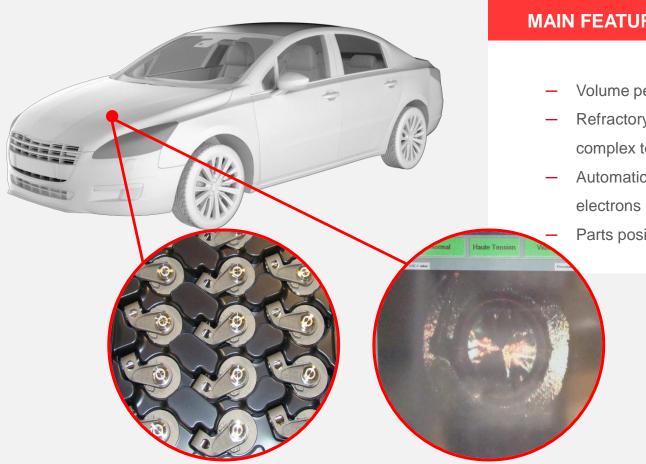
OVER 5 PARTS WELDED FOR CARS

AUTOMOTIVE EXPERTISE

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PARTS WELDED BY TECHMETA ON CARS - VALVES FOR TURBOCHARGER AND ENGINE





MAIN FEATURES

- Volume per year : 600 000
- Refractory alloy and lowly ductile therefore complex to weld
- Automatical joint detection by backscattered
 - Parts position and welding entirely automated

AUTOMOTIVE EXPERTISE

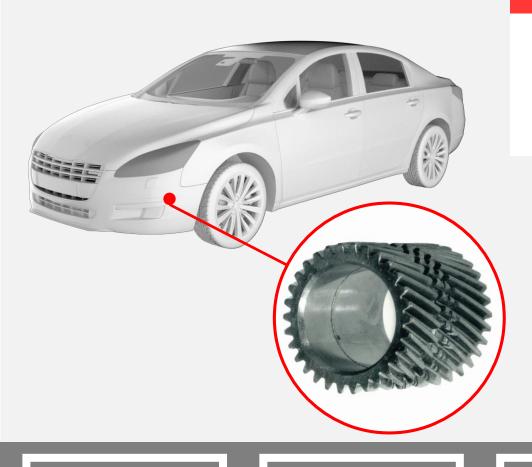
THE PARTNER OF YOUR PROJECTS

OUTSOURCING DEVELOPMENTS

PARTS WELDED BY TECHMETA







MAIN FEATURES

- Carburized steel
- Optimised welding cycle for perfect coaxiality and alignment

AUTOMOTIVE EXPERTISE

THE PARTNER OF YOUR PROJECTS

OUTSOURCING DEVELOPMENTS

PARTS WELDED BY TECHMETA TECHMETA



ON CARS - FUEL INJECTION PUMP SHAFT

MAIN FEATURES



- Radial welding realised by localized magnetical deflection
- Carburized steel



AUTOMOTIVE EXPERTISE

THE PARTNER OF **YOUR PROJECTS**

OUTSOURCING DEVELOPMENTS

PARTS WELDED BY TECHMETA TECHMETA OTHER PROJECTS







AUTOMOTIVE EXPERTISE

THE PARTNER OF **YOUR PROJECTS**

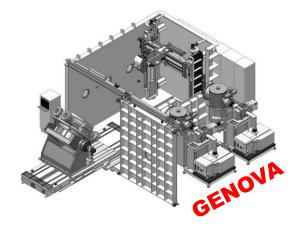
OUTSOURCING DEVELOPMENTS

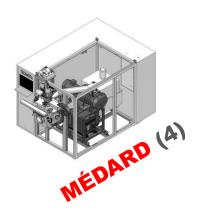
MACHINES

WE DESIGN AND MANUFACTURE THE MACHINE THAT BEST FITS WITH YOUR WELDING NEEDS





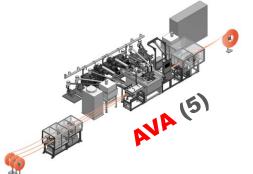


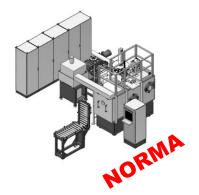


OVER 30 MACHINES AROUND THE WORLD









AUTOMOTIVE EXPERTISE

THE PARTNER OF YOUR PROJECTS

OUTSOURCING DEVELOPMENTS

MACHINES

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AUTOMOTIVE EXPERTISE

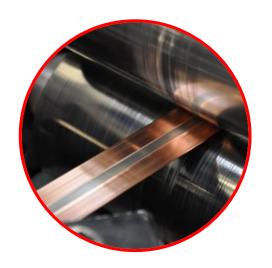
THE PARTNER OF YOUR PROJECTS

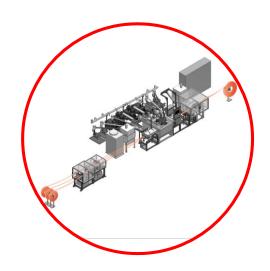
OUTSOURCING DEVELOPMENTS

MANUFACTURED MACHINES



AVA MACHINE - STOP-START SYSTEM







MAIN FEATURES

- 2 guns,
- Welds continuously up to 15 m/min,

- Machining, cleaning, inspections included
- Strips of different width and thickness

AUTOMOTIVE EXPERTISE

THE PARTNER OF YOUR PROJECTS

OUTSOURCING DEVELOPMENTS

MANUFACTURED MACHINES



BARI MACHINE - DRIVE SHAFT FOR MILITARY VEHICLES







MAIN FEATURES

- 2 mechanical movements,
- Chamber: 0,215 m³

Vacuum : 1 10⁻² mbar

Refurbished machine from another supplier

AUTOMOTIVE EXPERTISE

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OUTSOURCING DEVELOPMENTS

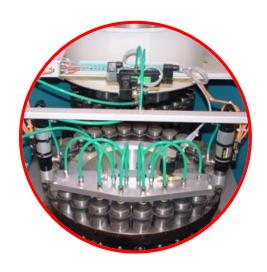
MANUFACTURED MACHINES



BARI MACHINE - DISTRIBUTOR'S CYLINDER FOR BRAKES







MAIN FEATURES

- Steel alloy,
- 1 loading / unloading station,
- 1 welding station,
- 28 parts / station,
- Automatic seam location,

- Primary vacuum : 4 10⁻² mbar
- Weld penetration: 3 mm,
- Part dimension:
 - Diameter: 20 mm,
 - Height : 65 mm

AUTOMOTIVE EXPERTISE

THE PARTNER OF YOUR PROJECTS

OUTSOURCING DEVELOPMENTS

OUR EB SOLUTIONS MEET ALL YOUR CHALLENGES

WHAT WILL BE YOURS?







THANK YOU FOR YOUR ATTENTION

ANY QUESTIONS?

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ELECTRON BEAM WELDING