SINCE 2000 · BUMBEȘTI-JIU, GORJ

Assembly lines for the automotive industry. From drawing to commissioning.

We design, build and commission workstations, fixtures, conveyors and automation with our own software (PLC, HMI, machine vision). In the same workshop we laser-cut, CNC-machine and weld, so we control lead time and quality from the first drawing.

ISO 9001:2015 · SRAC | **CE marking on machines** | **EN 10204 3.1 on request** | **NDA on request**

CLIENTS PIRELLI MAGNA CUMMINS GF+ FAN COURIER YOKOHAMA

Since 2000	700 m²	200+	±0.1 mm
continuously in business	production hall	units delivered since 2017	typical laser cutting tolerance

Reference project · Magna, client since 2012



Complete final assembly line for three vehicle models

We designed, built and commissioned the complete final assembly line for the front bumper, rear bumper and grille of three car models made in Romania: frames, conveyors, fixtures, guarding and automation. 37 units, from quotation to installation in 1 year.

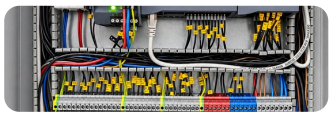
37	3	3	2–6
units	vehicle models	parts	trim versions / part

Equipment and automation

- **Stations and tables** in aluminium profile, with operator screen
- **Fixtures** and **silicone jigs** cast in our own moulds
- **Conveyors** 10–30 m (incl. 3-level), safety guarding
- **Control cabinets**, **PLC** Siemens and Keyence, HMI
- **AdoVIS**: our own machine vision, traceability
- **Safety**: Keyence perimeter scanners, programming and installation (Yokohama group)
- **Logistics**: automation of a 30 m sorting conveyor, 7 outlets: sensors, Siemens PLC, HMI (FAN Courier)

How we work

- **01 Analysis and quote**: we review the process on site
- **02 3D design**: concept approved by the client
- **03 Build in our workshop**: mechanics, electrics, PLC
- **04 Installation and start-up**: line tests, training, CE documentation
- **05 Service**: changes after delivery





Machine park

PROCESS	MACHINE	CAPACITY
Sheet fiber laser	Gweike LF3015GA, 2 kW (2021)	3000 × 1500 mm · repeatability 0.02 mm
Tube fiber laser	Gweike LF60M, 1.5 kW	tube and profiles up to 230 mm · 6 m bars
Abrasive waterjet	Teenking TK-Trump50, 420 MPa	2000 × 1000 mm · steel up to 200 mm
CNC router	Large-format router	4000 × 2000 mm bed
CO_2 laser	LMG-1390, 150 W (2018)	1600 × 1000 mm · cuts acrylic and Stiplex sheet, engraves wood and aluminium composite (bond)
Gantry CNC milling	Vision Wide SF-2112, Fanuc 0i-MD CNC	15,000 rpm · aluminium, steel, POM, PA
CNC bending	Inanlar CNC HAP 100 (press brake)	100 t · 2500 mm · Sick laser safety
Welding	MIG/MAG and TIG	steel and aluminium · jig-welded assemblies
Finishing	Shot blasting and electrostatic powder coating	in the RAL colour of your choice · ready to install

Materials and thicknesses

MATERIAL	SHEET LASER	WATERJET
Steel S235 / S355	15 mm (16 mm with light burrs)	200 mm
Stainless steel	4 mm	yes
Aluminium	6 mm	yes
Titanium	3–4 mm	yes
Tungsten	3–4 mm	—
Copper, brass, granite, glass	—	yes

Steel tube: 2–8 mm wall.

Typical tolerances

PROCESS	TOLERANCE
Sheet laser	±0.1 mm
Tube laser	±0.2 mm
Waterjet	±0.1–0.2 mm
CNC milling	±0.02 mm
CNC bending	±0.5°
Welded assemblies	±1 mm, diagonals max. 2 mm

Quality and documentation

- **ISO 9001:2015**, SRAC no. 12664, valid until 23 Nov 2028, for automotive line machinery and equipment
- **FAT** in our workshop, **SAT** at the client · warranty **12 months**
- EN 60204-1 · EN ISO 13849-1 · SolidWorks design
- **CE marking**: declaration of conformity, risk assessment, technical file
- **Dimensional report** on first article, and certificates **EN 10204 3.1**
- **Liability insurance** third-party and product liability (Allianz-Țiriac)
- Drawings handled confidentially, **NDA** signed on request

Lead times and delivery

- **Cutting:** 1–2 working days; same day if urgent and material is in stock
- **Urgent delivery** with our own vehicle in Gorj, Dolj and Vâlcea
- **Fixtures and fabrication:** 2–6 weeks
- **Quote:** 24 h for cutting; for equipment, after process review
- **Instant price** from DXF: ad-au.com/calculator.html (Romanian)

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Send your drawing (DXF, DWG, STEP, PDF) or a sketch; we reply within 24 working hours.