



ebquadro
engineering & beyond

ebquadro s.r.l.

Who We Are

**ebquadro s.r.l. is
a firm specializing in industrial
engineering services,
research and development of
innovative prototypes.**

ebquadro boasts twenty years of experience, expertise, professionalism and reliability in engineering consultancy services, we possess robust skills in mechanical design, coupled with a commitment to steadiness and dependability that has enabled us to develop and sustain significant relationships with prestigious companies throughout the years.



The team

Our offices are located in northern Italy, specifically in Rovereto and Brescia.



Today, ebquadro team consists of 20 collaborators:

- 17 mechanical designers
- 1 electrical designer
- 1 sales associate
- 1 administrative professional



Instruments and suggestions

ebquadro has **expertise**

In the most widely used design softwares for mechanical design, electrical design and, in performing calculations using CAD-CAE systems.

Also, drafting of technical documentation, production of mechanical systems and market analysis.

Our resources are highly **prepared** and oriented to **innovation**.

We aim to establish enduring relationships and partnerships with clients, based on mutual trust and **operational** synergy.



Why ebquadro?

If you require prompt, proficient, and tailored engineering assistance to develop your machinery, with a focus on reducing start-up and production costs, we are the **ideal partner**.

We primarily offer a listening **ear** to deliver targeted engineering consultancy services in the industrial machinery sector. We address specific needs of our customers in the short, medium, or long term,

We operate in a **structured** and **systematic** manner to effectively monitor the progress.

We also manage technical information, project evaluations, schedules, and expenses.



Portfolio*

*Our clients entrust us with their confidential information, and we have both a contractual and ethical obligation to safeguard it. Consequently, while the accounts of our experiences are authentic, the images utilized are purely illustrative.



MACHINING
EQUIPMENTS



TYRE
PRODUCTION
MACHINES



PRESSES



STONE
GRINDING
MACHINES



AUTOMOTIVE



PACKAGING



ASSEMBLY
MACHINE



FOOD AND
BREVERAGE



Machining equipment

Machine tool design, structural design and analysis, FEM analysis, modal analysis. Design of accessories for pallet handling, retrieval, and various maintenance services.



Laser cutting

Laser cutting machine design. Structural analysis and movement sizing.



Wood

CT machines for timber. Woodworking equipment. Machines for artificially "distressing" wood.



Automotive

Design of chassis for specialized vehicles.

Design and calculation of testing platforms for the automotive sector.

Design of assembly and testing machinery for the automotive sector.



Off high-way axles

Complete design (castings, gears and shafts) and sizing of agricultural rear and front axles.
Axles test bench design and calculation.



Rubber

Design of machinery and facilities for tyre production.

Machinery design, sizing, FEM calculations, tolerance analysis.



Packaging

Machine design for the beverage industry.
Transport design, pick-and-place systems,
palletizing equipment.



Food

Layout optimization of pasta extrusion machines,
redesign of the structure of cells for a pasta
drying machine and redesign of a tortellini
filling machine.

Ovens for preparing meat and vegetables.



Bakery

Design of large cyclothermic tunnel ovens.

Design of chain fermentation cells, conveyor systems, cell loading and unloading mechanisms.

Lift for the loading and unloading of multi-storey ovens.

Baking tray storage facilities.



Green

Design of a storage clamp for a sprout tray manufacturing facility.

Design of a hanging vertical cultivation system.



Stone

Design and calculation of stone processing machinery, including splitters, conveyor systems, and stone handling equipment. Automatic and semi-automatic systems. Design of wire and blade stone-cutting machines, both fixed and self-propelled.



Dust mitigation

Design of dust suppression systems.



Recreation

Design and sizing of a pulley for zip line,
featuring a magnetic brake.
Feasibility study and design of a Fun cart.



Oil & Gas & Piping Design

Design of autonomous systems for the internal cleaning of fuel tanks.

Design of bespoke valves.

Overall Project Assessment and Stress Analysis Planning.

Piping Stress Analysis.

Equipment Load Analysis and Flange Checks.

Dynamic and Vibrational Analysis.

Environmental Conditions Analysis.



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