

caissa
metal solutions



METAL SOLUTIONS

CAISA is a company in the metallurgy sector devoted to carrying out studies, projects, construction and coordination of assemblies of boiler equipment, of which we highlight the following:

- ≡ Reactors under pressure and at atmospheric pressure
- ≡ Vessels under pressure and at atmospheric pressure
- ≡ Mixers
- ≡ Storage tanks
- ≡ Thermal fluid boilers
- ≡ Steam boilers
- ≡ Chimneys
- ≡ Heat exchangers and condensers
- ≡ Autoclaves
- ≡ Economizers
- ≡ Coils
- ≡ Repair and/or modification of processing equipment in the plant or workshop
- ≡ Hoppers and silos
- ≡ Metal structures (gangways, banisters, stairs and a variety of metal profiles)
- ≡ A variety of metallic constructions based on specifications or blueprints
- ≡ Selection and supply of pumping equipment
- ≡ Turnkey assemblies and installations

CAISA works closely with highly qualified experts in the engineering of processes such as heat recovery, chemical processes, drying, particle atomisation and the installation of turnkey facilities:

- ≡ Pressurised containers for industrial gas storage and chemical products
- ≡ Pressure vessels with complementary accessories to be used as industrial equipment: pressure filters for water, hydro-pneumatic systems, water de-ionisers, etc.
- ≡ Industrial equipment, such as: heat exchangers, crystallisers, etc.

CAISA provides customers with the opportunity to carry out drying and atomising tests at semi-industrial levels using a 250 kg/h capacity sludge drier and a 7 kg/h atomiser for dry products.



APLICACIONES

The products manufactured by **CAISA** can be used by different industries, of which we highlight:

the
metal
industry

the
agri-food
and food
industry

the
automotive
industry

the
lubricant
industry

the
pottery
industry

the
pharmaceutical
industry

Civil
engineering

the
chemical
industry

The
thermal
fluids industry



MACHINERY

CAISA has the following machinery to carry out all his works:

CUTTING MACHINES

DRILLS

Sheet and portable. Radial for 80 mm bit.

FOLDING MACHINE

240 tonnes of folding sheet metal of up to 20 mm.

FORKLIFT TRUCK

ATEX, 1,800 kg.

GEKA 55 PUNCHER

Technically-sized bench, cylinder with supplementary guide, rod with strong and precise anti-turn system, progressive punch centring, quick punch change, safety protections, large free space for assembling special equipment, excellent operating speed, wide variety of optional standard and special equipment for carrying out a wide range of jobs, range of punches from 50 tonnes to 220 tonnes with necks of between 130 mm. and 800 mm, punching power 550KN, maximum capacity diameter 40 x 10 mm and neck: 50 mm.

GRANTY CRANES

Two units, one of 10 metric tonnes and another of 5 metric tonnes.

INDUSTRIAL SHEARS

With a cutting capacity for thicknesses of 10 mm and lengths of 3 m.

LATHE

For small-scale machining.

PLASMA MACHINE

Manual plasma cutting equipment is currently an indispensable tool for industry in general.

ROLLING MACHINE

Pre-bending of 22 mm metal sheet – Bending of 15 mm metal sheet.

TEJERO BENDER

Tejero profile bender Model L-80CN, hydraulic pressing, 90 diameter shafts with the three motorised, 7.5Hp motor at 380V, digital lower roller positioning, Bending capacity in tonnes= 80 x 8, UPN=120 x 55, pipe with 90 x 3.5 diameter, 132 x 132 strip, 55 diameter and 50 square.

TONERS

With a diameter of up to 4,200 mm.

WELDING EQUIPMENT

TIG welding
Coated electrode welding
Mig-Mag welding

WELDING POSITIONERS

Up to 2,000 kg, with a 1 m diameter.

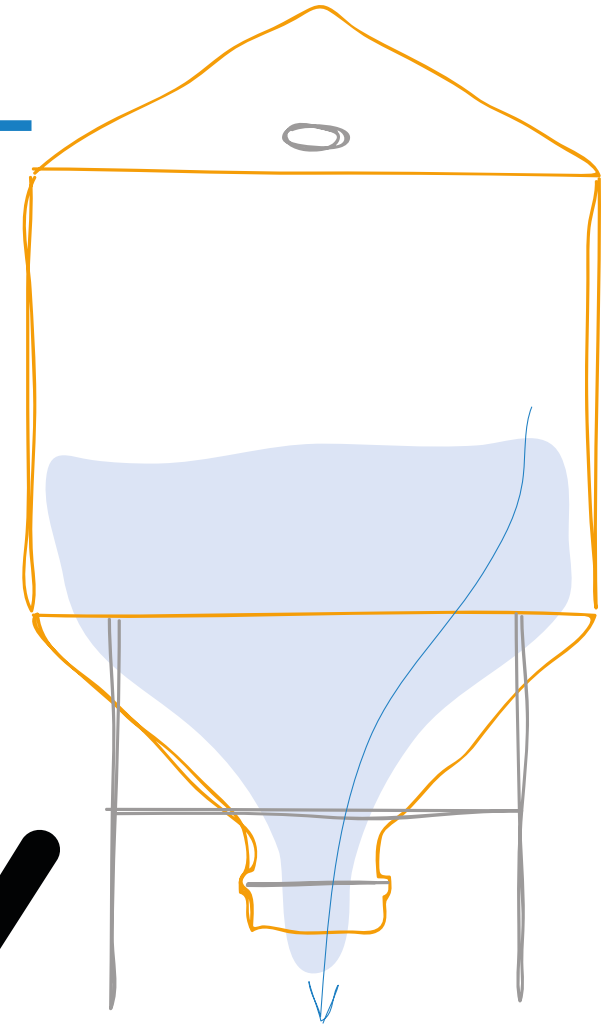


OUR TEAM

CAISA is made up of a team of professionals from the sector that is multidisciplinary in nature, and led by a management team with a broad technical outlook.

The workforce includes:

- senior engineers
- technicians
- administrative staff
- skilled staff
- certified welders
- labourers





MATERIALS - STANDARDS

CAISA is highly versatile when it comes to working with steel products (carbon, stainless steel, aluminium) For metal fabrication, light metalworking and structural constructions. (EN-1090).

CAISA has extensive experience in the handling of high-performance materials, such as:

- ⇒ Conventional stainless steel products, such as austenitic, refractory and ferric.
 - ⇒ Different grades of plated steel.
- Base metals: Nickel, Inconel, Incoloy, Hastelloy and others

List of standards or design codes used in the design of the equipment:

- ⇒ AD-MERKBLATTER
 - ⇒ API
 - ⇒ ASME
 - ⇒ BS
 - ⇒ CODAP
 - ⇒ TEMA
 - ⇒ EN-1090 IMPLEMENTATION CLASS IV.
- CAISA** has been approved for the manufacture of carbon and stainless steel, in accordance with regulation EN-1090 up to Implementation Class IV.

QUALITY CONTROL

We check all our work independently of those checks required by our customers, with the tests being performed in our workshop under the required presence and conditions. Main tests:

- ⇒ Pressure testing with freon gas, air or water.
- ⇒ Checking welds with penetrating liquids (our team is equipped with approved welders).
- ⇒ Scanning of the welds with x-rays, ultrasound and destructive tests.

We work with official inspection and quality control bodies, such as ECA, I.C.I.T, etc.

MAIN PROJECTS

- Turnkey status for new sulphonation and sulphitation plant, equipment and installation.
- Turnkey status for the installation of a biomass boiler and 10 cubic metre storage tank, with legalisation included.
- Modification and modernisation of 6 ATUs for painting cabins in the automotive sector.
- Execution of covered metal structure storage units.
- Manufacture and supply of equipment for the hydrolysis of meat protein.
- Manufacture of waste treatment tanks.
- Manufacture and supply of half-rod and stirring equipment in stainless steel.
- The modification of tanks for bituminous emulsions.
- Modification of cabins and tankers for bituminous emulsion.
- Manufacture and installation of an access control hut.
- Modernisation and expansion of the polycarboxylate process facility.
- Manufacture and supply of thermal fluid boilers.
- Manufacture and installation of silos for solid particles (sodium sulphate and calcium carbonate)
- Atomiser and auxiliary installation assembly.
- Turnkey installation of coal-dust suction unit in thermal power plant.





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