TALLERES UREÑA

Foundation and evolution

Company in the metallurgical sector, founded in 1986.

In constant evolution and with experience developed over years in industrial locksmithing in the construction sector, specializing in fittings for Transformer Stations and in their construction. In recent years, innovations have been carried out, and Talleres Ureña is currently one of the most experienced companies in the sector, offering customers and collaborators the necessary advice for the correct execution of Transformer Stations, both in the functional and safety sense.

Professional teams

- Administration Department
- Production department: workshop manufacturing, assembly and construction
- Technical Department

Training and qualification of personnel

The staff is qualified and trained both specifically according to the State Agreement, and with complementary training in the sector:

- Trades according to agreement: construction, installations, repairs, assemblies, locksmithing, and structures and metal carpentry
- Work manager in discharge
- Confined spaces
- Working at height
- ORP in assembly, disassembly and use of scaffolding
- First aid
- Electrical risk (LV, Endesa operations standards)
- Overhead cranes and hoists
- Command and leadership for middle managers
- Safety and Hygiene in Electric and Oxyacetylene Welding
- Welders qualification according to UNE-EN ISO 9606-1 standard: electrode and MIG

CERTIFICATIONS

UNE-EN ISO Standard 9001:2015
Sist. Quality Management

UNE-EN ISO 14001:2015 standard
Sist. Environmental Management

UNE-EN ISO 45001:2018 standard
Occupational health and safety

CO2 footprint calculation
Ministry Seal
Scope 1+2

COLLABORATIONS AND REPEAT CUSTOMERS

PRODUCTS, SERVICES AND WORK

Talleres Ureña manufactures and also installs metal elements, including fittings that comply with the standard and approval by electricity companies. It also manufactures elements of its own design or any custom hardware requested by the customer.

In addition to the civil works related to the sector, repairs and breakdowns are also attended, and *turnkey execution* of Transformation Centers.

Usually, all the elements are supplied hot-dip galvanized according to the customer's needs, but they can be manufactured in any other finish that the customer needs or suggests.

Equipment trap

Large trap for transformer access (or other components of the centre), where the frame is embedded in the concrete for fixing on the ground. For the Transformer Stations and as standard, it has a total size of 2400x1600 mm in plan, with a useful section of 2200x1400 mm, composed of three pull-out modules and a crosshead made up of IPN profiles. However, this element can be manufactured with the measurements and configuration requested by the customer.

The trap is paved at ground level, either with concrete or with the same street or enclosure pavement. The raised hatch can be manufactured to have more paving thickness.

Installation of the frame of the trap

Concreting of the trap

Freshly paved trap

Hydraulic Trap

The hydraulic trap is for the access of personnel to an underground enclosure, such as a transformation center. It usually measures 1355x755 mm, although it can be manufactured according to customer requirements. Watertightness is achieved by incorporating neoprene gaskets around the entire frame.

It has a hydraulic system with two shock absorbers to facilitate opening, and incorporates railings around the hole for protection.

This trap can have a concreted, paved or sheet metal finish.

Concrete and pavable hydraulic trap

Hydraulic top finish trap with grooved plate

Watertight personal trap

The watertight is a trap for personnel access, with the usual measurements of 1350x950 mm, although it can be made to measure.

It consists of an inner lid with cams, which press against the frame to make it watertight. The outer cover for closing the assembly is a ribbed plate, with the option of incorporating the electrical hazard symbol.

It has a basket-type element, which incorporates a lock with a lock as an anti-theft system.

Ribbed outer cap

Inner lid with cams

Watertight trap frame

Mixed trap

It consists of a combination of the equipment trap and the personnel access trap, the latter including the modules in the same perimeter frame.

Mixed concrete trapa

Newly paved mixed trap

Special mops (other models and configurations)

Depending on customer needs, other models of traps can be manufactured, to adjust to the needs, either by dimensions, configuration or uses.

Hydraulic traps, for tunnel emergency exit (Casablanca – Morocco)

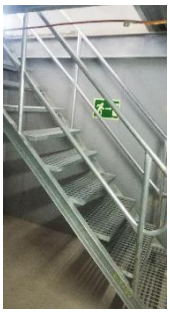
Special hydraulic trap in Putxet Street (Barcelona)

Stairs

They can be cat (completely vertical) or boat (with a certain inclination).

The steps will be non-slip, and the set may have the necessary protections or that the customer requests (railings, reinforcements, protection rings, etc.)

Boat Staircase Views



Boat ladder
with tramex steps

Cat ladder

Doors

They can have the configuration, dimensions and finishes requested by the customer, as they can be made to measure. We include anti-seizure bolts in the manufacturing process.

Top and bottom vent doors, with inverted angle

Interior CT Door

Top and bottom vent door, with normal angle

Set of doors and side fixes, all laminated, for front façade

All-vented door

Special Door, Imitation wooden door

Screens

The partitions serve as a protective defense of the transformer, forming a physical separation. These can be completely blind, with a window formed by a methacrylate peephole, and can also include a part made up of a grid. The set consists of side and/or central posts, and Judas-type bridles.

Set of partitions with posts

Screen between door and door

Screen detail

MT, BT, and other benches

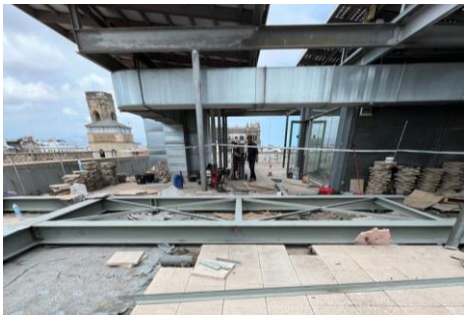
The benches are used to install equipment on its upper part, and to be able to leave the lower part free, through legs and frames.

In transformer stations, benches for MV cabins are usually installed, consisting of legs according to the height of the pit, and crossbars of variable size depending on the number and type of cabins that are installed. And also the BT benches as a lifting support for BT frames, including 4/6 mm fluted plates to cover pits if necessary.

Benches can also be manufactured and installed in the configuration and dimensions that are requested according to their use and need.

MT Bench in Transformation Center

BT bench and manholes in the Transformation Center



Manufacture and installation of large dimensions for the Aj generator set. Barcelona

Flagstone

The anti-vibration slab is an element manufactured to prevent the transmission of vibrations from the transformer to the walls or structure of the building.

It consists of a steel frame with concrete reinforcement, and all this on springs, which are responsible for isolating vibrations.

Set of slab + tank elements, approved by Endesa.

Slab with docks (unconcreted, in workshop)

Concrete slab (on site)

Deposit

The oil tanks are used to collect a possible oil leak from the transformer, formed by a 4mm sheet metal box that acts as a tank, on which UPN 160 profile rails are placed to install the transformer. Gravel (train-type stone) is added to the tank to prevent a possible fire of the leaked oil.

The direction of UPN rails can be parallel to the long side or the short side.

Approved by electricity companies.

Tank with rails parallel to the short side
(in workshop)

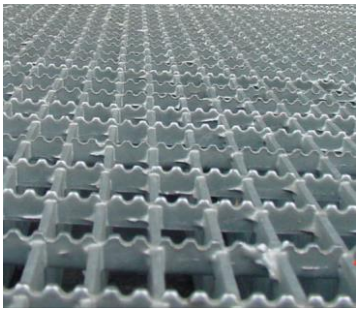
Tank with rails parallel to the long side
(on site, with the stone in place)

Non-slip grating

They are ventilation grilles located horizontally, and usually in urban spaces, to prevent pedestrians from slipping. It consists of a network of toothed profiles, placed in a frame, so that it can be dismantled for possible maintenance and cleaning tasks.

Frame for non-slip

Non-slip grating placed



Detail of toothed profiles

Ventilation grille

Vertical ventilation grilles are installed on walls or walls for the ventilation of enclosures such as transformer stations. They are custom-made according to the needs of the site or the client.

They can also be manufactured as fixed elements on vertical walls, to give continuity, for example, to a front of all ventilated and lamellated doors.

Ventilation grille

Installation of ventilation eja
At the entrance of the neighbouring community

Fixed on the front façade,
Between lamadas doors

Intumescent grating

Installation of intumescent grating according to certified manufacturer, tested with different sizes and compositions. These grilles have the purpose of fireproofing, composed of sheets that expand in the event of fire.

They are usually installed in Transformation Centres, complemented by double-slatted grilles on the outside of enclosures.

RF Gate

We install metal fire doors, manufactured by our suppliers and classified according to the UNE EN 13501-2 standard and tested according to the UNE-EN 1634-1 standard.

These are usually EI2120 doors, in accordance with the requirements established in the Technical Building Code, in the Basic Fire Safety Document (CTE DB SI). The doors can be single or double leaf, have different accessories, and can be manufactured as requested by the customer.

Talleres Ureña executes the civil works and its installation, including the execution of the independence hall if necessary.

Construction of independence lobby
for RF Door Placement

Single RF Gate Installed

Double RF Gate Installed

Ventilation turrets

They are urban elements intended for the ventilation of spaces. They consist of a stainless steel base as a base and a gray high-density polyethylene cap. The caps can be engraved with the customer's logo, on request.

These turrets can incorporate accessories such as an interior grille (either with double perforated sheet metal or with Z-type slats) to prevent foreign objects from being introduced, or base plates to adapt support on larger chimneys.

This element is of Talleres Ureña's own design.

Base and cap set polyethylene

Stainless steel base

Perforated double sheet inner filter (galva)

Internal filter with Z profiles (in black)

Other vents

Other elements can be installed on public roads for the ventilation of enclosures, tanks or any other space. These can be of various designs and sizes. At Talleres Ureña, we have manufactured some of these elements:

Manufacture of large, boat-type ventilation.

Large ventilation tower,
Mercat Sant Antoni, Barcelona


Corten steel ventilation box
(the corten-look finish is achieved with the aging of the already treated material)

Enclosures

Manufacture of enclosures, enclosures, fencing of any type of enclosure, with the configuration, design, measurements and finishes required by the client.


Enclosure of Can Vidalet park (Finestrelles)


Plaça Dolors Piera Enclosure (Barcelona)



Substation enclosure, imitation of the existing one,
with emergency swing doors and sliding door

Façade cladding

Vertical wall cladding by means of metal substructures.




Façade cladding and roof of existing building,
Through aluminum substructure and aluminum composite panels.

Construction fences

The construction or signage fences are manufactured with tubes of different sections, depending on the configuration indicated by the customer.


Urban elements of space delimitation

Manufacture and installation of posts or other elements such as fences, for the delimitation of urban spaces, with configuration, dimensions and finishes according to customer requirements.



Gateways

Manufacture and installation of walkways, in any environment, such as substations.

Large and/or motorized doors

Large doors are manufactured, and in different configurations, with the option of incorporating the motorization of the latter.

Manufacture and installation of large sliding doors, motorized, with guides and reinforcements.

Manufacture and installation of motorized door for substation

Other steel elements

At Talleres Ureña we can manufacture and install a wide variety of hardware applications.

Manufacture and installation of railings for hostel bunk beds in Vilafranca

Manufacture for small fittings as marker / score, in stainless steel

Box office type module, with special security locks

Civil Works – raised floor

Execution and construction of technical flooring based on rabbit partitions, plastering of pits, interior ventilation ducts and concreting of the floor at final level.

The mesh and plates, welded to the equipotential network, are also installed, as required by regulations.

Rabbit partitions | Mesh Placement | Plate placement | Concreting at final level

Civil Works – sprayed of rock wool

Execution of the sprayed of rock wool in the upper slab, to achieve Fire Safety requirements of the enclosure. Normally, in transformer stations, EI240 is required, so the combination of the type of slab with a specific thickness of the rock wool achieves this requirement.

It is usually executed together with the false ceiling.

Civil Works – acoustic false ceiling

Implementation and assembly of acoustic false ceiling, to meet the requirement of the transformer stations, formed by plasterboard with membrane, incorporating rock wool boards. Set supported by rods with shock absorbers with anti-vibration function.

Installation of rods and profiles

Installation of rock wool panels

Installation of plasterboard

Civil Works – Feedthroughs

Execution of feed-through holes with diamond drilling machine. Options for different diameters and hole configurations are available.

Civil Works – waterproofing

Waterproofing of slabs and/or roofs, with suitable materials according to their location and use.




Acoustic measurement and reporting

Acoustic insulation measures are carried out, normally in newly executed transformer stations, and a certified report is subsequently issued by competent personnel in the specialty.