# ENERGYTOWER

## ENERGYTOWER Leader in style, quality and safety

GROUND
DISTRIBUTION
TURRETS

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# ENERGYTOWER

The new range of turrets is developed in **stainless steel AISI 316, in Class II and with a rating of IP 56**, for the distribution of energy, water, TV, data and other services. The most professional solutions for ports, camping sites and both urban and industrial areas.

MORE SECURE

MORE ENDURING

MORE FACILITIES

MORE ELEGANCE

MORE FUNCTIONAL

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# Innovation, Safety and Reliability

A multitude of modern process systems and equipment are characteristic of the 80,000 sq. meter facilities : injection moulding lines, surface treatment, numerical controlled machining as well as assemblies, guarantee that the products are of superior quality conforming to UNI EN ISO 9001 control procedures and that they are certified IMQ,VDE, UL/cus, CCC, RINA, MMI (Italian Military Navy), and many others.

For over one hundred years, Palazzoli has been leader with innovation, quality, performance and specializations with more than 5,000 products that are typically representative of electrical systems developed for distribution of energy and lighting in particularly demanding applications for both the service and heavy industry as well as the naval, construction, tunnel, ports, mining etc.

Palazzoli is the leader in assisting customers during the phases of purchase and installation. A team of specialist give daily support in preparing offers, giving consultancy, choice of product, after-sales product, developing of special products. The services are integrated through software for development and from the web-site it is possible to receive technical-commercial information in real time as well as manuals, price-lists and specific product information.

www.palazzoli.com

# ENERGYTOWER

## MORE SECURE

### GUARANTEED PROTECTION

Energytower is the most secure turret on the market. It is manufactured with a high grade of protection and with an **IP rating of IP56, guaranteed** even when the turret door is open. The turret is waterproof even during strong sea storms or against strong sea sprays with wind.

The turret is developed to carry out its functions in **absolute safety and protection** of the end-user. It is constructed with double isolation (**Class II**) by completely segregating with enclosures all live parts from water. **Each socket is individually protected** by MCB/RCB with high sensitivity in order to guarantee a high level of safety and thus avoiding any possible malfunction on the individual turret without compromising the functioning of all the other turrets

## MORE ENDURING

### RESISTANCE IS OUR STRONG POINT

ENERGYTOWER is constructed in stainless steel **AISI 316L**, a specific material that finds application in particularly aggressive ambient conditions that are typical of marine and urban areas. The high content of molybdenum in fact guarantees an **optimum resistance to corrosion** caused by salt spray, exhaust pollution and acid rain. **Does not require maintenance**, it is not toxic, flame-proof, hail resistant and rodent resistant.
The mechanical structure, the thickness used and the compact dimensions **grant robustness and resistance to impact** (>>IK10) should they be accidental or vandalized.

They **exceed the life span** and consequently **the cost** effectiveness of the more traditional turrets in plastic materials that are more prone to damaging and frequent substitution.

*Corrosion test results*
*equivqlent to two years of exposure.*

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MORE FACILITIES | MORE ELEGANCE | MORE FUNCTIONAL

## Intelligent lighting

Each turret is equipped with an exclusive **multifunctional energy saving device**. This **gives good visibility to the sockets** by illuminating the inlet and profile of the same. **The side porthole is also illuminated**. This assures a **very comfortable use** in the dark. The correct level of light from the porthole does not disturb the boats that are moored nearby.

## Style

The range offers a variety of different turret **solutions for specific applications that are aesthetically coordinated**.
The offer also comprises fire-fighting turrets which can feature either hydrants or extinguishers, as well as turrets for containing energy line protection materials or derivation solutions (mooring head).

## Details

Care of details, for satisfying customer requirements in the most practical way, have given rise to various options of the energytower range.

- **The external frame rail has a decorative and containment function**
- **The cable fairlead** avoids cable tearing and protects the plug from mechanical damage.

**The design is clean, linear and elegant** with respect to the form as well as the colour, which **integrates** well with the environment. Each turret is equipped with a double door lock. The sealing prevents the entry of dust, insects, etc. to the compartments inside.

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Camping sites

Parks

Markets

## MORE SOLUTIONS

### FOR DOCKS

COMPACT 208MM DEPTH

- 2 interlocked socket outlets 16A/32A
- 2 water taps

STANDARD 276MM DEPTH

- up to 4 industrial interlocked socket outlets 16A/32A
- up to 4 water taps

COMPACT 208MM DEPTH

- 2 industrial sockets from 16A/32A
- 2 water taps

- 1 interlocked socket outlet from 250A up to 400A

### FOR CAMPING URBAN AND INDUSTRY AREA

STANDARD 276MM DEPTH

- 4 industrial interlocked sockets 16/32A

STANDARD 276MM DEPTH

- 4 industrial sockets of 16/32A

### MOORING HEAD SITES

- 36 modules (12X3)

### FOR FIRE-FIGHTING

- For fire extinguishers of up to 6 to 9 kgs.
- hose and nozzle

### TECHNICAL ACCESSORIES

Breakable panel patented "SAFE CRASH" for fire fighting turret

Door lock keys

Cable fairlead

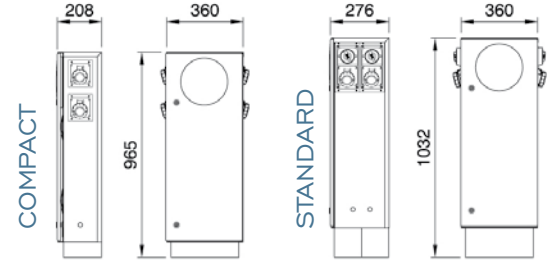
Containment frame

Cable fairlead bar

## CUSTOMIZATIONS

- **Different types of combinations of socket**
- **TV connections**
- **Telephone/data connection**
- **Consumption meters**

**www.palazzoli.com**

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# Selection guide

## FOR DOCKS

| | | Industrial sockets 2P+⏚ 220V | Dimensions b x h x d (mm) | Palazzoli code |
|---|---|---|---|---|
| COMPACT turrets 2 industrial sockets 2 water taps | | 2 x16A | 360x965x208 | 575100 |
| | | 1x16A 1x32A | | 575101 |

| | | Industrial interlocked sockets outlet 2P+⏚ 220V | 3P+⏚ 3P+N+⏚ 380V | | Dimensions b x h x d (mm) | Palazzoli code |
|---|---|---|---|---|---|---|
| COMPACT turrets 2 interlocked sockets outlet 2 water taps | | 2x16A | | | 360x965x208 | 575110 |
| | | 1x16A 1x32A | | | | 575111 |

| | | Industrial interlocked sockets outlet 2P+⏚ 220V | 3P+⏚ 3P+N+⏚ 380V | | Dimensions b x h x d (mm) | Palazzoli code |
|---|---|---|---|---|---|---|
| STANDARD turrets 2/4 interlocked sockets outlet 2/4 water taps | | | | 2x63A | 360x1032x276 | 575112 |
| | | | | 1x32A 1x63A | | 575113 |
| | | 4x16A | | | | 575200 |
| | | 4x32A | | | | 575201 |
| | | 2x16A | 2x16A | | | 575202 |
| | | 2x16A 2x32A | | | | 575203 |
| | | 2x16A | | 2x16A | | 575205 |
| | | 2x16A | 1x16A | 1x32A | | 575206 |

**Characteristics** : each socket is individually protected by a miniature circuit breaker and residual current circuit breaker of 30mA class AC with nominal current equal to that of the socket, operational curve C and interruption of power at 6kA. The turret is equipped with fluorescent lighting of 9W-230V with ballast and G23 lamp holder (inclusive). All electrical equipment is enclosed inside isolated watertight enclosures (Class II). Terminals for lighting are 2P of 6mm$^2$. All terminals have a secure tightening shell. Water taps of ½" with tap reducer for hose. Panel door equipped with triangular safety lock. **Class II>> IK10-IP56**.

| | | Industrial interlocked socket outlet 3P+⏚ 500V | Characteristics | Dimensions b x h x d (mm) | Palazzoli code |
|---|---|---|---|---|---|
| Turrets in aluminium alloy with 1 interlocked socket outlet | | 1x250A | Ground fixing supports in stainless steel. Plug insert is facilitated by mechanical insertion device. Fuses are ACR gr 1 for 250A sockets and 400A socket **Class II >> IK 10 - IP 56** | 360x965x208 | 575300 |
| | | 1x400A | | | 575301 |

| | | Industrial plug 3P+⏚ 500V | Characteristics | Dimensions b x h x d (mm) | Palazzoli code |
|---|---|---|---|---|---|
| Plug with in-line poles | | 250A | Body in aluminium cable gland diameter 2 "1/4 **Class I >> IK10 IP56** Specific use for turret code **575300 and 575301** | 250x390x102 | 575320 |
| | | 400A | | | 575321 |

## FOR CAMPING AND URBAN / INDUSTRIAL AREAS

| | | Industrial sockets 2P+⏚ 220V | Characteristics | Dimensions b x h x d (mm) | Palazzoli code |
|---|---|---|---|---|---|
| STANDARD turrets 4 industrial sockets | | 4x16A | Characteristics : each socket is individually protected by MCB and RCB with 30mA class AC with nominal current equal to the that of the socket, operational curve C and interruption power at 16kA. The turret is supplied with fluorescent lighting and G23 lamp holder (inclusive). All electrical equipment is enclosed inside a watertight enclosures (Class II). Terminals are 3P+N+⏚ of 35mm$^2$ . All terminals have secure tightening shell panel door equipped with triangular safety lock. **Class II >> IK 10 – IP56** | 360x1032x276 | 575401 |

| | | Industrial interlocked sockets outlet 2P+⏚ 220V | Dimensions b x h x d (mm) | Palazzoli code |
|---|---|---|---|---|
| STANDARD turrets 4 interlocked sockets outlet | | 4x16A | 360x1032x276 | 575400 |

## EXTINGUISHER

| | | Extinguisher housing | Characteristics | Dimensions b x h x d (mm) | Palazzoli code |
|---|---|---|---|---|---|
| Fire-fighting turret for extinguisher or nozzle and hose | | N° 1 extinguisher of 6 to 9 kgs | Breakable panel "Safe Crash" patented. The turret is supplied with fluorescent lighting of 9W 230V, red diffuser, G23 lamp holder (supplied with lamp bulb) **Class II-IP56** | 360x1032x276 | 575600 |
| | | **Equipped** | Fire-fighting type hose "Gomel" diameter 45mm. of 20mt, length. Nozzle type AWG UNI 45 with 3 spray adjustments complete of tap of ½" UNI 45 in brass. Breakable panel "safe crash" patented. The turret is supplied with fluorescent light of 9W-230V, red diffuser, G23 lamp holder (supplied with light bulb) **Class II–IP56** | | Palazzoli code |
| | | Nozzle and hose | | | 575601 |

## MOORING HEAD

| | | Nº of modules EN50022 | Characteristics | Dimensions b x h x d (mm) | Palazzoli code |
|---|---|---|---|---|---|
| Predisposed turret for receiving protections | | 36 (12x3) | The protection devices can be mounted on rail (**EN 50022**) inside 3 isolated separate watertight enclosures. Entry and exit of main lines have access to the bottom side of the turret. The turret is supplied with fluorescent lighting of 9W-230 V and G23 lamp holder (light bulbs are inclusive) **Class II - IP56** | 360x1032x276 | 575800 |

## TECHNICAL ACCESSORIES

| | | For turret type | Description | Palazzoli code |
|---|---|---|---|---|
| Cable fairlead | | COMPACT | N°2 cable fairleads in stainless steel complete of fixing screws | 575716 |
| | | STANDARD | | 575715 |
| Decorative containment frame | | COMPACT | Frame in stainless steel complete of fixing screws | 575711 |
| | | STANDARD | | 575710 |
| Cable fairlead bars | | COMPACT | n°4 stainless steel complete with fixing screws | 575721 |
| | | STANDARD | | 575720 |
| Breakable panel | | For all versions of fire fighting turrets | Patented panel "SAFE CRASH" | 575706 |
| Panel lock and keys | | For all turrets | n°2 keys | 575708 |

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