

GENERATOR ENCLOSURE & CONTAINER SOLUTIONS

Canopy · Semi-Container · Container — Weather & Noise Protection

EN ISO 8528 compliant • DKP Steel Body • Fire-Retardant Acoustic Insulation • RAL Top Coat (C3, C4, C5, C5M)

AXON enclosure and container solutions protect diesel and natural-gas generating sets from the weather, reduce noise emitted to the surroundings and simplify site installation. Different levels are offered as required: the Canopy, which uses minimum structural steel and relies on the genset's own base frame; the Semi-Container, built from both the base frame and a light self-supporting steel structure; the full Container, which can be lifted complete with the product inside and shipped internationally; and project-specific Data Center Container solutions.

PRODUCT FAMILY

Canopy

Minimum structural steel. The genset's own base frame is load-bearing; the enclosure only provides weather and noise protection. Compact and economical.

Semi-Container

Genset base frame + light self-supporting steel structure. Higher rigidity and a walk-in maintenance volume at larger ratings; still weather- and noise-focused.

Container

Full ISO-container grade structure. With corner castings + welded twistlock options, complete lifting and solutions/certifications for international sea transport can be provided. Custom sizes and multi-story use are engineered to requirements.

Data Center Container

Project- and customer-specific solutions. With CFD analysis: raised air intake/discharge ducts, high-stack designs and modular solutions for easy transport.



Container type enclosure — open (cutaway) and closed view

COMPARISON OF THE THREE MAIN TYPES

Feature	Canopy	Semi-Container	Container
Load-bearing structure	Genset base frame	Frame + light steel	Full ISO (casting + twistlock)
Primary purpose	Weather + noise	Weather + noise	Weather + noise + transport
Typical power range	≤ ~1500 kVA	~1000–2500 kVA	~1000 kVA and above (custom)
Minimum noise level	~65 dB(A)	~65 dB(A)	~60 dB(A)
Lifting when loaded	Limited (frame)	Limited	Yes
Transport	Truck	Truck / Lowbed	ISO — road & sea (ship)
Multi-story stacking	No	No	Yes (optional)
Custom sizing	Yes	Yes	Yes (fully custom)
Walk-in maintenance	Panel access	At larger sizes	Yes (walk-in)

STANDARD & MATERIAL: All levels are compatible with generating sets within the scope of EN ISO 8528. The body is made of DKP steel sheet and the load-bearing members of standard hot-rolled section / container steel. Louvered air inlet/outlet and intake/exhaust silencers control engine cooling air and exhaust noise. Insulation: fire-retardant rock wool (min. 50 mm) + perforated inner skin (optional), according to the noise requirement. Paint: primer + RAL top coat (C3, C4, C5, C5M — outdoor-rated). Protection class IP23–IP44 (optional). Values are example / typical design values; final values are engineered according to the engine, alternator, radiator and acoustic target.

CANOPY TYPE ENCLOSURES

Minimum Steel — Genset Base Frame Load-Bearing — Weather & Noise Protection

Genset Base Frame Load-Bearing • Compact & Economical • Outdoor Rated

DESCRIPTION

AXON Canopy enclosures use the genset's own steel base frame as the load-bearing element, with only a light housing added on top to provide weather and acoustic protection. Thanks to the minimum structural steel it is the most economical and most compact solution. It protects against rain, sun, dust and wind; louvered air inlet/outlet and an internal exhaust silencer reduce the noise emitted to the surroundings. Ideal for small and medium ratings and fast site installation.

HIGHLIGHTS

- Direct mounting on the genset base frame — no extra load-bearing skeleton, low weight and cost
- Removable side and roof panels for full service access
- Louvered radiator air outlet + intake; internal exhaust silencer and flexible connector
- DKP steel body, fire-retardant rock-wool acoustic insulation, RAL top coat
- Lockable service doors; emergency stop and refuelling access
- Outdoor rated; optional super-silent acoustic package



Canopy type enclosure — near-residential application

STANDARD EQUIPMENT

- Louvered air inlet/outlet
- Internal exhaust silencer + flex
- Fire-retardant acoustic insulation
- Lockable service doors
- Internal lighting
- Base-frame lifting lugs

OPTIONS

- Super-silent acoustic package
- Heater / thermostat
- Base (belly) fuel tank integration
- Fire damper
- Stainless-steel louvers
- Custom RAL colour

SEMI-CONTAINER TYPE ENCLOSURES

Frame + Light Load-Bearing Steel — Weather & Noise Protection

Self-Supporting Light Steel • Walk-in Maintenance (large size) • High Rigidity

DESCRIPTION

AXON Semi-Container enclosures combine the genset base frame with a self-supporting light steel structure. They offer a more rigid and durable structure than the canopy and create a walk-in maintenance volume at larger ratings. The purpose is still weather and noise protection, but the design targets heavier sets, higher acoustic goals and tougher site conditions. Corrugated container-style cladding provides a robust and attractive outer surface.

HIGHLIGHTS

- Self-supporting light steel structure + genset base frame — high rigidity
- Walk-in maintenance corridor at larger sizes
- Corrugated (container-style) DKP steel cladding, multi-point locking service doors
- Extended acoustic package for lower noise levels
- Louver + intake/exhaust silencer system; integrated cable and fuel penetrations
- Transportable by truck / lowbed; optional lifting frame



Semi-container type enclosure — doors open view

STANDARD EQUIPMENT

- Self-supporting steel structure
- Corrugated DKP steel cladding
- Louver + intake/exhaust silencer
- Walk-in maintenance (large size)
- Multi-point locking doors
- Internal lighting and socket

OPTIONS

- Lifting frame
- Double-skin / extended acoustics
- Control panel compartment
- Base fuel tank
- Service ladder and platform
- HVAC / heater

CONTAINER TYPE ENCLOSURES

Full ISO Load-Bearing Structure — Complete Lifting, International Transport, Custom Size

Corner Casting + Twistlock • 20ft / 40ft or Custom • Multi-Story & Sea Transport

DESCRIPTION

AXON Container enclosures have a full ISO-container grade load-bearing structure. Thanks to corner castings and roof-welded twistlock points, they can be lifted and set down complete with the product inside and, when required, transported in international road/sea (ship) shipping. Besides the standard 20ft/40ft sizes they can be fully custom-sized to the customer's needs and used in multiple stories (stacked). With a walk-in maintenance volume and integrated fuel, control and distribution compartments, they provide a complete, site-independent power room.

HIGHLIGHTS

- Full ISO load-bearing structure — corner castings + roof-welded twistlocks; lifting when loaded
- Suitable for international road & sea (ship) transport
- Standard 20ft / 40ft or fully custom size; multi-story (stacked) layout
- Walk-in maintenance; integrated fuel / control / distribution compartments
- DKP / container steel body, fire-retardant rock-wool acoustic insulation, RAL top coat
- Low noise levels with the super-silent acoustic package



Container type enclosure — 40ft isometric

STANDARD EQUIPMENT

- Corner castings + welded twistlocks
- Walk-in maintenance volume
- Louver + intake/exhaust silencer system
- Internal lighting and socket
- Cable penetrations and earthing
- Lockable double-leaf doors

OPTIONS

- Base / belly fuel tank
- Control & MV/LV distribution compartment
- Fire detection / suppression
- HVAC air conditioning
- Multi-story stacking kit
- Service ladder; remote monitoring

DATA CENTER CONTAINER TYPE ENCLOSURES

Design to Project Specs & Requirements — Modularity for International Transport — Custom Size

Highly Customized Solutions • CFD-Optimized Airflow • 40ft / 45ft / Custom • Multi-Story (Stacked)

DESCRIPTION

AXON Data Center Container enclosures are container solutions designed specifically to project and customer requirements — a full fit to the needs, sized to high design criteria and to the CFD analyses to be performed. They can be built in standard 40ft / 45ft sizes or fully custom-sized to the customer's need and stacked in multiple stories. Direct-driven or remote radiator solutions are offered. With a walk-in maintenance volume and integrated fuel, control and distribution compartments, they provide a complete, site-independent power room.

HIGHLIGHTS

- Highly customized solutions engineered to project and customer requirements
- Full ISO load-bearing structure — corner castings + roof-welded twistlocks; lifting when loaded
- Standard 40ft / 45ft or fully custom size; multi-story (stacked) layout
- CFD-optimized air intake/discharge ducts and high-stack design
- Direct-driven or remote radiator solutions; modular structure for easy transport
- Built-in provision for Belly Tank, Urea Tank, Fuel Polishing and SCR System needs



Data center container — multi-story (stacked) layout

STANDARD EQUIPMENT

- Highly customized design to project/customer requirements
- CFD-optimized air intake/discharge ducts
- Full ISO load-bearing structure + walk-in maintenance
- Integrated fuel / control / distribution compartments
- Modular structure for easy transport
- Super-silent acoustic package down to ~65 dB(A)

OPTIONS

- Belly / base fuel tank
- Urea (AdBlue) tank
- Fuel polishing system
- SCR (NOx) emission system
- High stack / remote radiator
- HVAC air conditioning; multi-story stacking kit