



Tunneling

Refuge Chambers



AYSAN

COMPANY PROFILE

AYSAN, operates with an unwavering commitment to providing optimal solutions of the highest quality to meet the diverse needs of our valued customers. With our expertise, we specialize in the meticulous manufacturing of refuge chamber based on precise technical drawings provided by our customers.

We provide 24 hour service and engineering support to our expanding list of clients in over several countries.

At AYSAN, we prioritize innovation, precision, and customer satisfaction in every aspect of our work, ensuring that each product we deliver surpasses expectations and contributes to the success of our clients' endeavors.

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TUNNELING REFUGE CHAMBERS

AYSAN Tunnelling Refuge Chamber offers extensive customization options to accommodate various tunneling projects. It can be tailored to meet the safety standards set by the European Standard (EN 16191:2014) for Tunnelling Machinery, the British Standard (BS 6164:2011) for Health and Safety in Tunnel Construction, as well as the ITA's guidelines for Refuge Chambers during construction.

AYSAN Tunnelling Refuge Chambers prioritizes simple recognition and swift access during emergencies. Strobe lights, a warning siren, and reflective signs notify bystanders of the chamber's whereabouts.

Tunneling Chambers are specially designed for providing a secure area for the personnel in case of emergency. When an evacuation is no longer an option, then the chamber is a gathering extraction point that covers up all vital needs of the personnel.

Chambers have a filtration system that converts the air coming from the compressed air line into breathable air. If the air is interrupted the CO₂ and CO gases damping system (Scrubber) is activated.

On the other hand, Tunneling Chamber prevents heat shocks that may occur as a result of heat build-up with air condition system in it. Continuous battery support system operates life support systems starting from 24 hours.

Right along with the desired size and required capacity, Tunneling Chambers can be manufactured ground or rail mounted, designed to be mounted to a vehicle, engineered to be drill and blast tunneling operations.



STANDART CONFIGURATIONS

Model		Occupancy		Width (mm)	Height (mm)	Length (mm)	
ITA	BSEN	Person	Duration (h)			ITA	BSEN
AYS-TU8I	AYS-TU8E	8	24	1,6	2,0	5,00	6,4
AYS-TU12I	AYS-TU12E	12	24	1,6	2,0	6,80	8,55
AYS-TU16I	AYS-TU16E	16	24	1,6	2,0	8,5	10,4
AYS-TU20I	AYS-TU20E	20	24	1,6	2,0	9,5	12,3
AYS-TU24I	AYS-TU24E	24	24	1,6	2,0	11,0	-



CHAMBER FEATURES

INTERIOR AND EXTERIOR FEATURES

- Emergency escape hatches that can be functional from both sides
 - Medical O₂ cylinders
 - Minimum 24 hours battery backup system
 - Sealed structure
 - 6mm steel plate construction
 - Continuous battery support for 36 hours
 - Blast rating: 5psi up to 15 psi
 - Observation window: 20mm thickness
 - Two point mechanism sealed and outward opening door
 - 100 mm wide visible reflective bands
 - Towing and lifting points
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- Ergonomically designed seating
 - CO₂ and CO gas damping system and chemical cartridges (Scrubbing System)
 - Air conditioning
 - Touch screen LCD control panel
 - Manuel gas measurement kit
 - First aid kit
 - Fire extinguisher inside and outside
 - Fire blanket
 - Portable chemical toilet
 - Radio connection for voice communication
 - Storage space for rescue equipment





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