

LOCOMOTIVES

TRAXX SHUNTER™

FOUR-AXLE SHUNTING LOCOMOTIVE PLATFORM

PRODUCT
SHEET



The Traxx Shunter allows a wide range of shunting applications and combines best-in-class traction performance with optimized lifecycle costs.

This four-axle shunting locomotive platform provides various configurations with a focus on green traction and will be available in many European countries in conjunction with a state-of-the-art maintenance set-up.

KEY BENEFITS

An environmentally-friendly locomotive available with various energy sources:

- **Electric-Battery** combining catenary and battery operation, offering zero direct emission operation as regional shunter
- **Hydrogen** combining fuel cell and battery, offering zero direct emission and extended autonomy compared to the Electric-Battery version
- **Electric-Diesel** combining catenary and diesel, offering reduced emissions, high flexibility and largest autonomy

Traxx Shunter benefits from high expertise and components developed for **more than 5'700 Traxx locomotives** sold worldwide, over the past 20 years.

GENERAL DESCRIPTION

The four-axle Traxx Shunter locomotive platform is based on a modular design to provide operators with the most suitable solutions for most shunting and trackwork services. As part of the wide range of Traxx™ locomotives, the Traxx Shunter locomotives benefit from Alstom's extensive locomotive experience, proven components / systems and renowned service expertise, leading to high availability at optimized operating costs.

CUSTOMER BENEFITS

Environmentally friendly

This locomotive will be designed to combine various energy sources, enabling environmentally friendly operations when and where possible. Most of the four-axle Traxx Shunter variants use a state-of-the-art battery-system. The focus of the solutions is therefore on zero direct emission locomotives based on catenary, battery and hydrogen technologies.

Enhanced flexibility and autonomy

Traxx shunting locomotives allow seamless changes between different traction modes, keeping high tractive effort, increasing operational flexibility and effectiveness. The platform comes with three main variants. Two variants based on catenary operation with either battery or diesel as second power source to provide autonomy in operation. The third variant is based on hydrogen fuel cells and battery for zero direct emission. The diesel version enables operation with HVO or Biodiesel.

Higher speed and traction effort

The Traxx Shunter can operate safely at speeds up to 120 km/h. Thanks to a peak power of 2.5 MW in electric mode it can easily be integrated into traffic flow on main lines. The high traction effort of up to 300 kN provides the possibility to tow more wagons and to better start in curves or in hilly areas due to its sophisticated adhesion control.

Driver comfort and safety

The driver's cab of the Traxx Shunter locomotive was designed to respond to operational needs, such as allowing good visibility, fast drive direction changes or providing sufficient space for the driver and additional people. The driver's cab is accessible via front or back entries using gangways and offers several cameras and comfortable platforms for shunting operation at each end. It comes with the Atlas™ Modular ETCS system and a wide selection of national signaling systems where required.

TRAXX SHUNTER™ FOUR-AXLE SHUNTING LOCOMOTIVE PLATFORM

TECHNICAL SPECIFICATIONS

	Electric-Battery	Hydrogen	Electric-Diesel
Axle configuration	Bo'Bo'		
Starting effort	300 kN		
Mass	80 t up to 90 t		
Gauge	1'435 mm (UIC standard)		
Maximum axle load	20 t up to 22,5 t		
Voltages	25 kV, 15 kV 3 kV, 1.5 kV		25 kV, 15 kV 3 kV, 1.5 kV
Power at wheel	2 MW (2.5 MW peak)	TBC	2 MW (2.5 MW peak) Diesel ~750 kW
Energy storage	Up to >500 kWh	TBC	
Length	18'750 mm		
Width	2'950 mm		
Curve radius	75 m		
Vertical radius	250 m		
Multiple unit operation	Up to 4		
Operation temperatures	-25°C to +40°C		

TRAXX SHUNTER B™ (ELECTRIC-BATTERY)

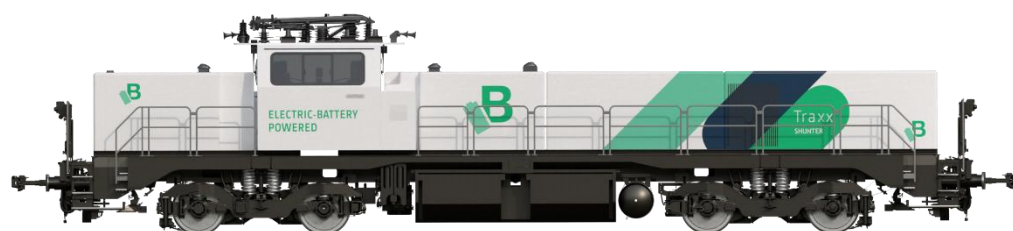
Traxx Shunter B operates in an emission-free mode, avoiding pollution in sensitive areas, industrial plants or tunnels, but still delivering high power and autonomy. Different battery packs are possible in order to fit with operators' needs for autonomy.

TRAXX SHUNTER H™ (HYDROGEN)

Traxx Shunter H comes to provide shunting operation for up to 24 hours based on state-of-the-art fuel cell and battery technology, thus, delivering emission-free operation despite no catenary available in ports or industrial sites.

TRAXX SHUNTER (ELECTRIC-DIESEL)

Traxx Shunter (Electric-Diesel) can provide high power and tractive effort for medium / heavy shunting also on main lines. This Traxx Shunter variant provides the greatest autonomy thanks to diesel (liquid) fuel which can also be of HVO or biodiesel quality.



FOR MORE INFORMATION:

Alstom
48, rue Albert Dhalenne
93482 Saint-Ouen-sur-Seine
Cedex - France
Phone: +33 1 57 06 90 00
www.alstom.com