

PRIMA T8

Heavy Freight Locomotives

The PRIMA T8 locomotives are within the most powerful electric freight locomotives in the world and can haul up to 9,000 tonnes at the speed of 120 km/h. The modular design as well as the proven technology, even in extreme climate, makes of it the best seller of Alstom PRIMA locomotive range with more than 1.200 units sold.

GENERAL DESCRIPTION

The PRIMA T8 locomotives are based on a modular platform designed to provide operators the most suitable solutions for heavy freight services. The PRIMA T8 novelty lies in its specific eight-axle design which copes with both low maintenance cost and high operational performances also in extreme climates. Being part of the Alstom PRIMA range, it benefits from the large experience of Alstom in the locomotive segment. The wide offer of rolling stock can be accompanied with the best Alstom expertise in Services in order to provide great availability at the most optimised operational cost.

CUSTOMER BENEFITS

High Traction Power

The PRIMA T8 with its 8 axles is one of the most powerful electric locomotives in the world. It is able to run at 120 km/h and can haul up to 9,000 tonnes. The installed power can go from 8.8 MW up to 10 MW and guarantee reduced energy consumption and maintenance costs. PRIMA Heavy Freight is suitable for operations in extreme weather conditions from -50°C to +50°C, it can easily operate in very cold territories, dealing with ice and snow, or in extremely hot, humid and dusty.

Innovative solutions

The PRIMA T8 heavy freight locomotive is equipped with asynchronous traction motors with per-wheel dedicated traction control as well as a microprocessor-based system for operational control, diagnostic and traffic safety. The long intervals between maintenance activities and repairs further enhance the fleet management efficiency, delivering to the operator the best possible availability and reliability of its PRIMA fleet.

Modular design

Being part of the Alstom PRIMA range, the PRIMA T8 heavy freight locomotive can benefit from a joint development and always up-to-date solutions. The modular approach also allows maintenance and spare parts to be optimised. On the basis of this model, a single or dual voltage electric locomotive is today available, developed for different standards like CIS, China, India.

Ergonomics and comfort

The PRIMA T8 locomotive is dedicated to long-distance heavy freight operations. Driver comfort over long distances is granted thanks to its large cabin equipped with climate control system, heated seat and footrest, meals cooking and storing facilities as well as a toilet, if requested. The cabin complies with all current ergonomics and safety regulations and ensure maximum safety and comfort.

ONE OF THE MOST POWERFUL ELECTRIC FREIGHT LOCOMOTIVE IN THE WORLD:

- 25 kV and 3 kV
- Commercial Speed up to 120 km/h
- Tractive capacity up to 9.000t
- Power from 8.8 MW to 10 MW
- Suitable for extreme climatic conditions



TECHNICAL SPECIFICATION

Wheel arrangement	2 x Bo-Bo
Class of Service	Heavy Freight
Track gauge	1.520 mm
	1.676 mm
	1.435 mm
Norms	GOST
	TSI
	India
	China
Operating temperature range	-50°C to +50°C
Nominal power	From 8,8 MW to 10 MW
Overhead systems available	25 kV 50Hz
	3 kV DC
	Multi system
Maximum speed	120 km/h
Starting tractive effort	705 kN to 833 kN



GREAT PERFORMANCE IN DIFFICULT ENVIRONMENTS

PRIMA Heavy Freight in cold weather

PRIMA T8 is available and tested to operate safely in extreme cold weather up to -50°C. Its specific design, based on many years of operation in CIS region, grants high reliability and availability of PRIMA Heavy Freight in difficult environments as well as an enhanced comfort for the driver during his trips.

PRIMA Heavy Freight in hot climate

PRIMA T8 in the version for India is designed to operate in very high humidity conditions. Specific protections are deployed to grant high level of reliability in hot climate up to +50°C.



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