

AX PANTOGRAPH

This range of pantographs has a large scope of applications.

It can be fitted to:

- locomotives or multiple-unit railcars operating at speeds of up to 220 km/h under an adapted catenary,
- very high speed trains operating at speeds above 220 km/h under an adapted catenary.

This type of pantograph is ultralight and very compact. Its simple design makes it a highly reliable device. It can be used at high speeds under all voltages (1.5 kV DC - 3 kV DC - 15 kV AC - 25 kV AC, etc.).

This new generation of pantographs with remarkable characteristics uses modern and high-performance technologies:

- ◆ air cushion,
- ◆ precision pressure regulator,
- ◆ composite materials.

Their sophisticated design, confirmed by calculations and wind tunnel and on-line tests, enables excellent control of the aerodynamic behaviour:

- ◆ articulated structure with low lift (profiled arms)
- ◆ low aerodynamic interactions between the top section of the upper arm and the collecting head,
- ◆ bow with low or high lift depending on option chosen.

TECHNICAL DATA

■ **Extension: 2.6 m**

- ◆ Weight: 105 kg (drive system included, insulators and collector shoe excluded).
- ◆ Constant static force throughout complete extension obtained by precision pressure regulator.
- ◆ Possibility of bistatic control (see options).

■ **Construction:**

- ◆ Single-tube upper and lower arms.
- ◆ Shunted articulations - sealed bearings greased for life.
- ◆ 3-foot mounting.



MAIN AX REFERENCES

SNCF/RATP	Automotrice MI 2N 25 KV - 1,5 KV	140 km/h
SNCB	Automotrice M 96 25 KV	160 km/h
	Automotrice AM 96 3 KV	160 km/h
SNCF	Locomotive BB 36000 25 KV	220 km/h
SNCB	Locomotive T13 3 KV	200 km/h
200 km/h	Locomotive T13 25 KV	

