



Product

Twiflex Layrub 70 Coupling Type 5/10

Application

Suburban Train Class X10

Highlights

- Twiflex Layrub 70 Coupling Type 5/10 installed on X10 design locomotives
- Continuous torque 1320 kNm
- Maximum Coupling Speed 4000 rpm
- Continuous Power Required 1140 kW (4 drives)

In order to service the growth in suburban rail traffic, the Swedish State Railway (SJ) introduced two car units of the X10 design. Each consists of one motor car and one driving trailer and is installed with Twiflex 70 Layrub Couplings.

The advantage of the Layrub product is the ability it provides to engineer a coupling to suit the application. In this instance, the maximum coupling speed required is 4000 rpm with a continuous power of 1140 kW (4 drives), making the type 5/10 the ideal selection.

With a continuous torque of 1320 Nm, the Layrub coupling is particularly suitable for the control of torsional vibration, and the coupling's compactness makes it ideal for high speed operation.

The X10 trains are a new design meeting the need for greater passenger comfort and reduce the wheel and rail wear. The suspension on the bogies permit radial self steering of the wheel axles when running through curves, and the design was based on the experience gained on the high speed routes within Sweden.

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