

SOLVING

Assembly rigs for train chassis BOMBARDIER, VÄSTERÅS, SWEDEN

A I R F I L M T E C H N O L O G Y



Operation

The air film based assembly rigs are designed for the preassembly of modules and for positioning of the completed chassis exactly under the wagon body for final installation.

The complete chassis can weigh up to 15 tonnes after assembly of the electrical system, hydraulics and other components.

The rigs are radio remote controlled and hence the operator can fully control the load when moving it.

S O L V I N G

Assembly rigs for train chassis

October 2001

The Solving design team is continually developing ergonomic and economic air film material handling solutions. With the customer's handling and logistics programme in mind, their main objectives are to:

- minimise installation requirements**
- reduce capital expenditure**
- reduce the environmental impact**

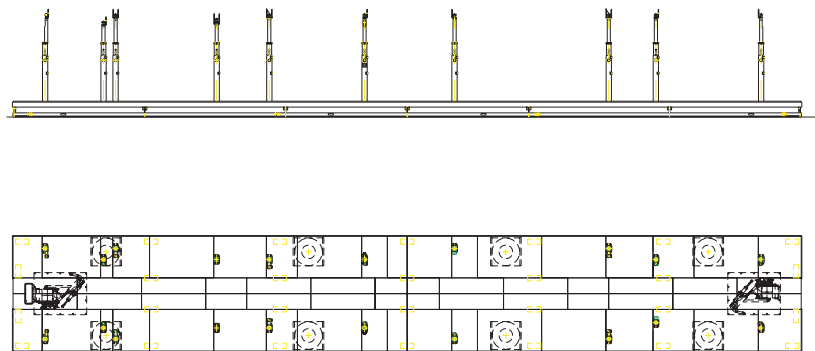
Bombardier, Västerås, Sweden

Bombardier Transportation AB, formerly Adtranz Sweden Ab, is part of the Bombardier group with totally 37,000 employees in production units in 23 countries. The group is the market leader within design, manufacture and delivery of railway vehicles.

AIR FILM TRANSPORTER SPT 15 W-2XYT

Technical data

Capacity:	15 tonnes
Length:	15 000 mm
Width:	2200 mm
Height:	300 mm
Air bearings:	8 x ME21S-3,5
Pressure regulation:	Automatic



Objective

Bombardier wanted simple and flexible assembly rigs, which can easily be rebuilt and adjusted for future generations of trains. It was also important to be able to move and position the chassis under the wagon body as easily as possible and with little effort taken by the operator.

Result

By using air film technology the areas in the assembly hall can be utilised to maximum effect, and the docking time has also been reduced considerably. The rigs have also improved the ergonomics for the operators.



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