

SOLVING

Assembly line for diesel engines

WÄRTSILÄ NSD, VASA

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



Operation

The air film transporters are used for transporting diesel engines between six assembly stations in a new production line for Wärtsilä 20 engines.

All sizes of engines from 4 to 9 cylinders can be handled smoothly by the air film transporters and positioned precisely at each assembly station.

Construction

- Ergonomical design for maximum accessibility to every part of the engine
- Smoothly adjustable telescope construction
- External drive unit connected to the air film transporter for simple and safe transportation
- Built-in safety system

S O L V I N G



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The Solving team of designers are continually developing ergonomic and economic solutions to material handlings on air. 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**

Wärtsilä NSD, Vasa

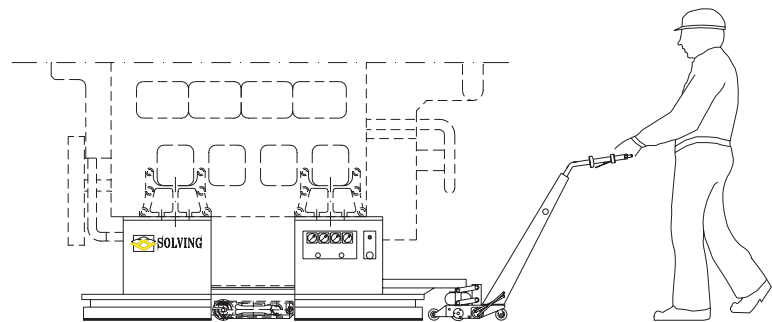
Part of the Wärtsilä NSD-group, the world's largest manufacturer of diesel engines

Products: Wärtsilä 20 and Wärtsilä 32
Capacity: 1300 MW (1996)
Employees: 1500

AIR FILM TRANSPORTER PTR 14

Technical data

Capacity: 14 tonne
Length: 1985...3000 mm
Width: 1300 mm
Height: 600 mm
Air bearings: ME21S-3.5
Drive unit: ARL 500 E
Pressure regulation: Automatic



Objective

One objective when considering investment in a new production line is to streamline the production of diesel engines and increase production capacity by allowing individual assembly times. Another important objective is good, safe working conditions by using Solving's air film technology.

Flexibility

When choosing the transport system, air bearing technology provided a flexible solution allowing maximum use of the floor surface and changes to be carried out at a later date, if required, at minimal cost.

Result

The air bearing system eliminates floor wear and provides very good working conditions and flexibility required by the customer. The air film transporters are essentially smoother than a conventional transport system, they make little noise and cause no dust problems.



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