

**SOLVING**

Laser navigated carriers for Distaloy plant

**HÖGANÄS AB**

**AIR FILM TECHNOLOGY**



### Operation

6 laser navigated AGVs handle the transport of heavy containers for the iron powder. Each container can weigh up to 10 tons.

The carriers are equipped with air bearings to achieve total accuracy when positioning. The equipment floats over the floor with a low spot load.

S O L V I N G



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# Air bearing carriers for Distaloy plant

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Aug -97

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**

## Höganäs AB, Höganäs

Höganäs AB is the world's biggest manufacturer of iron powder. In the company's Distaloy plant over 700 product versions are manufactured, the majority of which are for the vehicle industry.

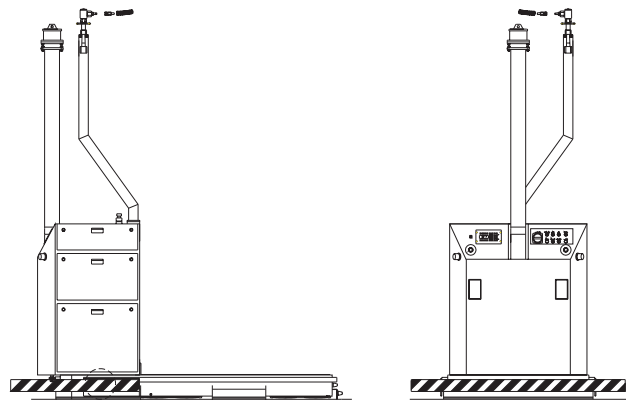
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### AIR FILM TRANSPORTER FTR 10-DAL

#### Construction

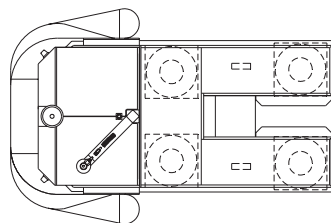
The air film transporter is designed as a forklift truck for picking up the container directly off the floor.

The compressed air is supplied to each transporter from an overhead air supply system in the building.



#### Technical data

Capacity:	10 tonne
Air bearings:	ME18S
Drive unit:	SED 1,5 XYR
Navigation:	Laser guidance
Pressure regulation:	Automatic



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#### Objective

The wide product range often results in frequent process modifications. The mixtures and process times are always changing. This means that the supply flows must be flexible and organised for optimal operation of the plant.

#### Result

Air bearing technology provides great flexibility for variations in the process and high accuracy when positioning the containers. Laser guidance also provides an optimal driving distance with minimal waiting times.



P.O.Box 98  
FIN-68601 Pietarsaari, Finland  
Tel. +358 6 781 7500, Fax +358 6 781 7510  
e-mail: solving@multi.fi

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### SOLVING DO BRASIL

Repres. Exclusivo Brasil e América Latina

Fone/Fax: +55 19 3829 1336

[www.solvingdobrasil.com.br](http://www.solvingdobrasil.com.br)  
[vendas@solvingdobrasil.com.br](mailto:vendas@solvingdobrasil.com.br)