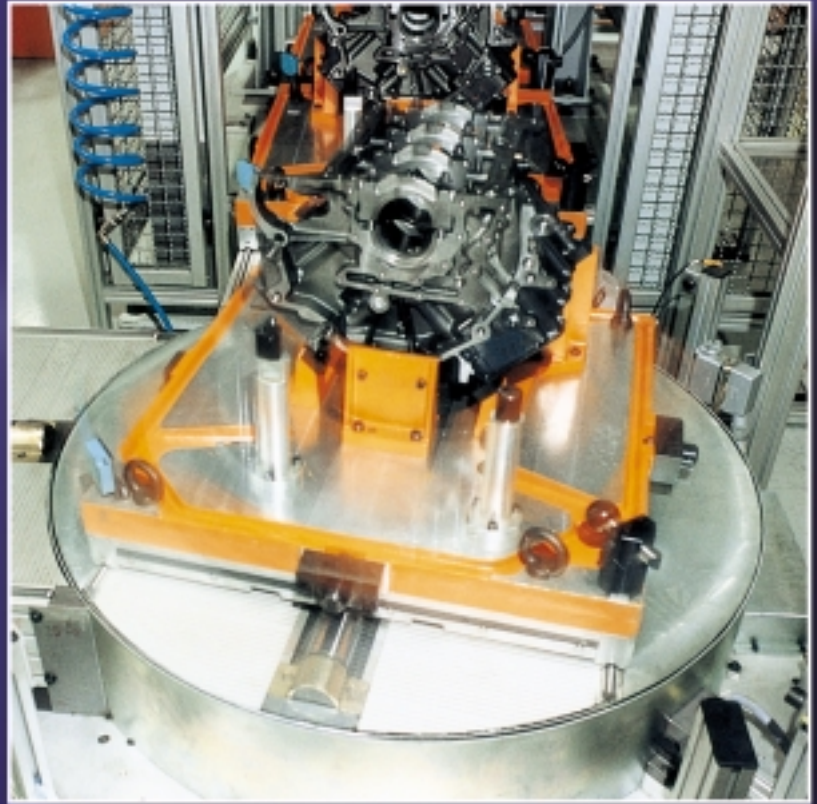


# Cooper Automation<sup>TM</sup>



**GARDOTRANS<sup>TM</sup>**  
TRANSPORT SYSTEM  
FOR AUTOMATED ASSEMBLY

  
**COOPER** Tools

# **GARDOTRANS™** TRANSPORT SYSTEM FOR AUTOMATED ASSEMBLY

## ■ **Standardized Modules**

Standardized modules allow cost effective solutions to most system requirements. A variety of modules meets users needs for over/under, carousel or other assembly line configurations. Rotate stations, repair loops and spurs, and sorting legs are all easily accomplished. Reconfiguration to meet changing capacity requirements is very economical.

## ■ **Integrated Shock Absorbers**

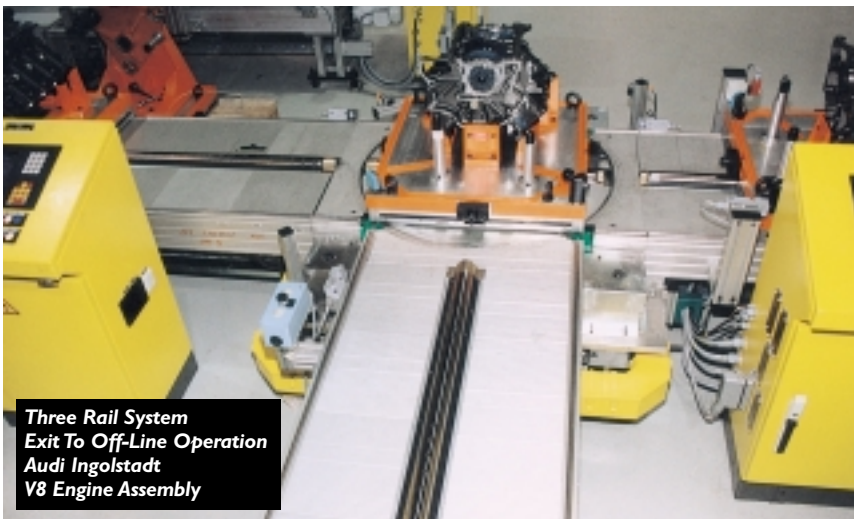
Integrated Shock Absorbers in pallets and stops assure smooth stops as pallets enter stations and as they accumulate behind other pallets. Stops also have an integral anti backup latch to trap pallets in position. Stops can be actuated pneumatically or electro-mechanically for increased reliability.

## ■ **Time Proven Design**

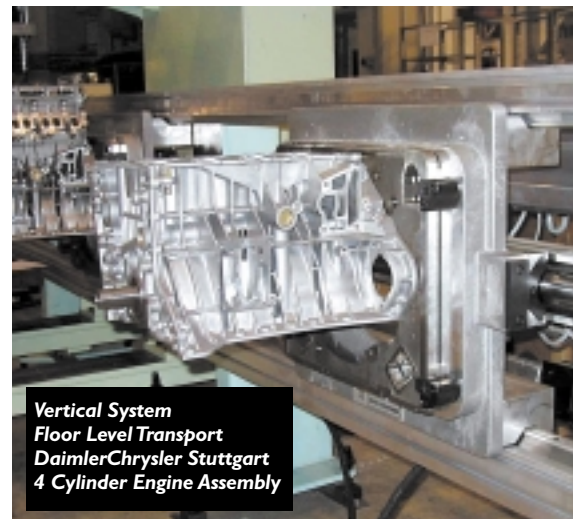
The time proven design the **GARDOTRANS** System has become the standard for some of Europe's most prestigious manufacturers. Over 20,000 feet installed in various European, Asian and North and South American auto and truck plants. The basic concept has been in use in high production environments for over fifteen years.

## ■ **Simple Design Concepts**

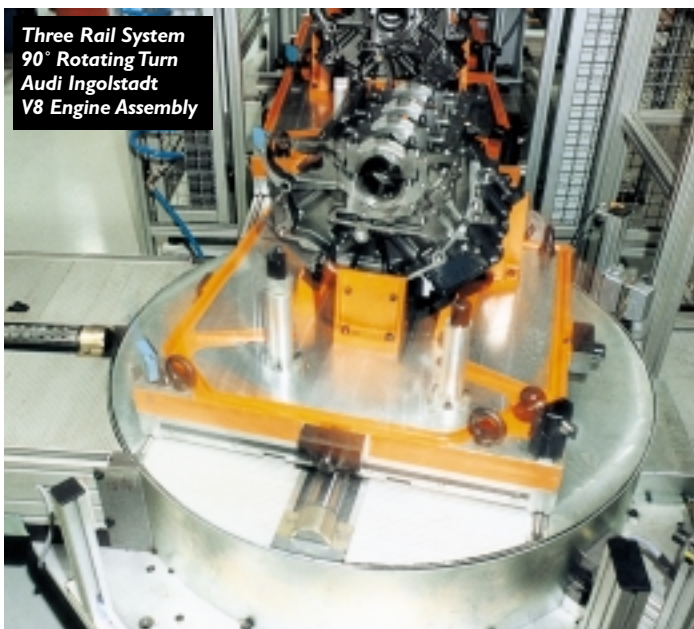
Simple design concepts are employed to minimize maintenance and maximize flexibility. This assures that productivity will remain high throughout the life of the machine. Continuous improvement over the last 15 years of use in Europe has resulted in a highly refined and efficient design.



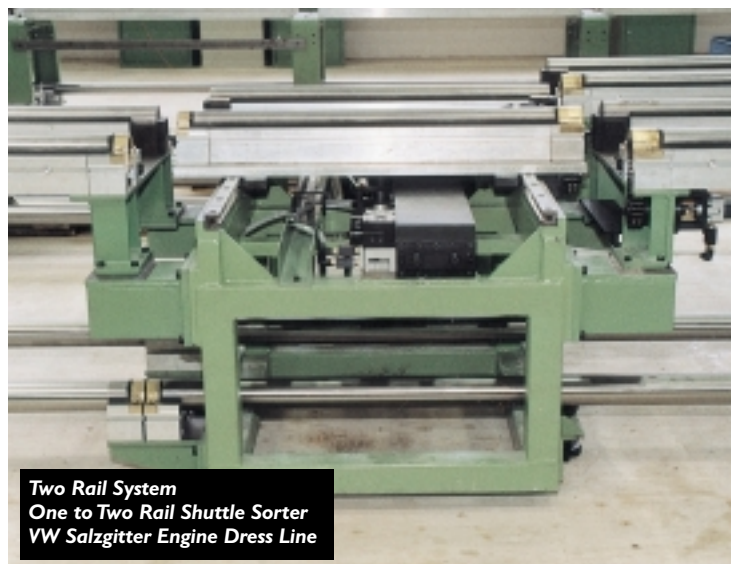
**Three Rail System  
Exit To Off-Line Operation  
Audi Ingolstadt  
V8 Engine Assembly**



**Vertical System  
Floor Level Transport  
DaimlerChrysler Stuttgart  
4 Cylinder Engine Assembly**



**Three Rail System  
90° Rotating Turn  
Audi Ingolstadt  
V8 Engine Assembly**



**Two Rail System  
One to Two Rail Shuttle Sorter  
VW Salzgitter Engine Dress Line**

## ■ Enhanced Safety

Safety is enhanced by constant drive force exerted by pallet regardless of part weight (three rail system). Drive concept makes it impossible for dropped parts to put pallet in direct drive. Wipers keep drive rollers clean and fingers out.

## ■ Minimum Wear Parts

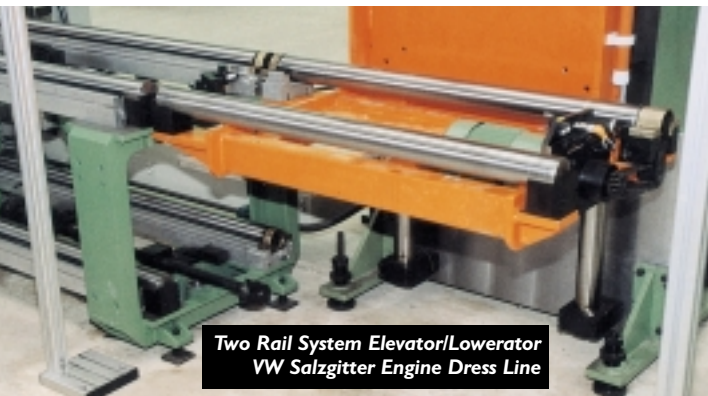
Minimum wear parts reduce operating costs and increase uptime. Gear motors drive transport drive rails through cogged belts. Drive shafts and pallets ride on sealed-for-life bearings. Hardened and ground drive rollers minimize wear. Wipers on drive rails remove abrasive contamination.

## ■ High Load Capacity

High load capacity provided by heavy duty design allows oversize parts to be handled with ease. Systems are in use carrying loads to 3,500 lbs., reliably. The unique design makes it possible to supply a floor level transport, horizontal or vertical, for optimum assembly and material handling capability.

## ■ Clean, Quiet Operation

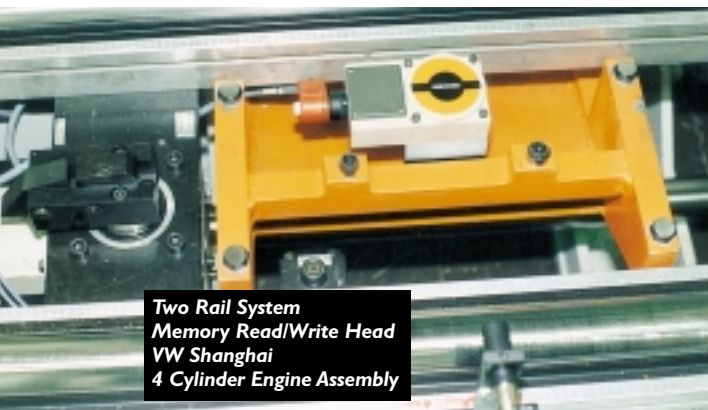
Clean, quiet operation is provided by the removable track covers and roller drive mechanism. Parts do not drop on the floor or onto the drive. Hardened rollers riding on the hardened ground rails make almost no noise. Both factors contribute to a safe, pleasant and efficient workplace.



Two Rail System Elevator/Lowerator  
VW Salzgitter Engine Dress Line



Three Rail System Elevated Track Section  
Audi Ingolstadt V8 Engine Assembly



Two Rail System  
Memory Read/Write Head  
VW Shanghai  
4 Cylinder Engine Assembly



Two Rail System  
Shuttle Turn  
VW Pamplona  
Engine Assembly



Two Rail System Repair/Storage Loop  
VW Shanghai 4 Cylinder Engine Assembly



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**Cooper Automation**  
4121 N. Atlantic Blvd.  
Auburn Hills, MI 48326  
USA

Phone: (248) 391-3700

Fax: (248) 391-7824

[www.cooper-automation.com](http://www.cooper-automation.com)

**Cooper Power Tools GmbH & Co.**

Postfach 30

D-73461 Westhausen

Germany

Phone: (49)7363-810

Fax: (49)7363-81222

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