

Logistics and material handling in the

automotive industry



Logistics and material handling

UNIVEYOR is a turnkey designer and manufacturer of internal logistics- and material handling systems. In this brochure we present a selection of our solutions for the automotive industry.

UNIVEYOR systems for material handling, conveying and storage, are supplied on a turn-key basis. This includes complete control systems, development of special handling equipment, installation, testing and commissioning.

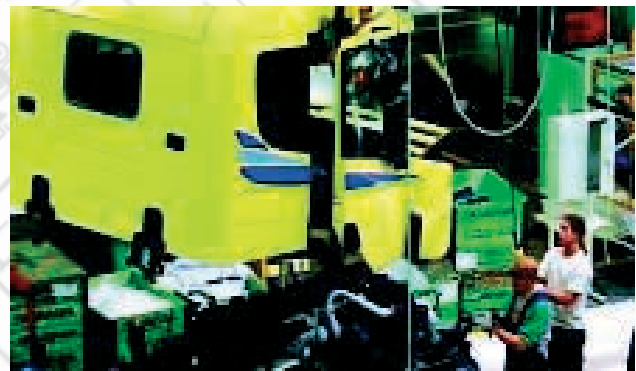
Systems have been supplied to A- B- and C shops to truck manufacturers and automobile manufactures.

The level of the technical solution is determined in a dialogue with the customer, taking into consider-

ation capacity, flexibility, assumed lifetime of the plant, noise standards, man-machine interface, accessibility etc.



UNIVEYOR Shuttle Storage used as flexible buffer storage for cabins. From storage the cabin is delivered for overlift to on-line assembly.



Group association means complete and integrated competence

UNIVEYOR is a member of Columbus McKinnon Group. Our sister company within the group, Automated Systems Inc., is a leading designer and manufacturer of Power & Free conveyors and monorail systems for the automotive industry in the USA. With UNIVEYOR's system competence we can offer any kind of complete and integrated system for material handling.

Storage & Buffer Systems

UNIVEYOR is a supplier of many different kinds of automatic storage systems - all electronically integrated with the overall logistics and production flow.

Our specially developed shuttle storage, with its high flexibility and

compact layout, has been specified for a number of manufacturing and assembly lines, process- and surface treatment plants. As well as being very flexible and compact the shuttle store offers high through put and full accessibility.



Right: UNIVEYOR 2-high shuttle storage for cabs.

Below: Buffer system at motor assembly, based on shuttle car



Out feed from shuttle storage including change of skid



Special Systems . . .

In a high number of turnkey systems delivered by UNIVEYOR, development of special handling equipment and systems has been an integrated part of the project.

Special systems comprise both the mechani-

cal and control systems - integrated to the total flow of both parts and data.

UNIVEYOR has a department for development and research together with in-house control system design and manufacture.



Handling of chassis frames for surface treatment. Beams are being conveyed on special pin supports to avoid damage to phosphated surfaces.

A specially developed system lifts the beams in a synchronised movement to a cross conveyor, and in a synchronised movement to downstream conveyor for further surface treatment, painting and storage.

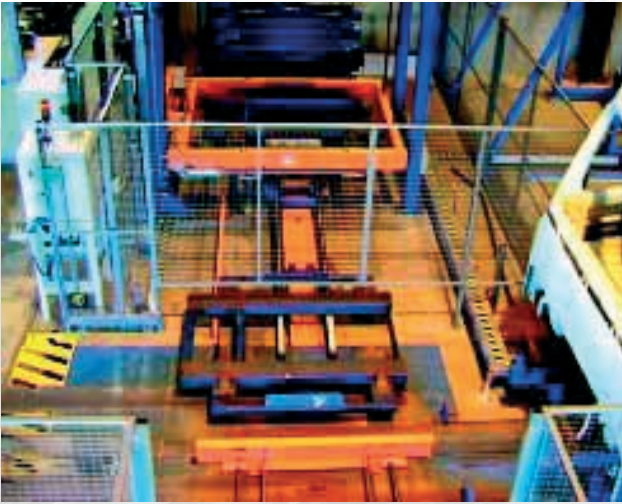


. . . and development

Two more examples of the development of special handling equipment.

1: Automated systems for infeed of skids in stacks, skid separators, units for change and docking of skids, etc.

2: Complete system for handling of wheels before on-line assembly. Wheels are taken from stock, separated, conveyed to a buffer lane, gripped and lifted to ground level for final assembly on the vehicle. Every wheel just in time.



Manufacturing and process

UNIVEYOR delivers complete process lines, often in close cooperation with suppliers of process equipment. Below are 3 different plants:

1) Complete conveying and handling in automatic manufacturing



centre for motor components.

2) Integrated centre for surface treatment of chassis members.

3) Paint line for cabs

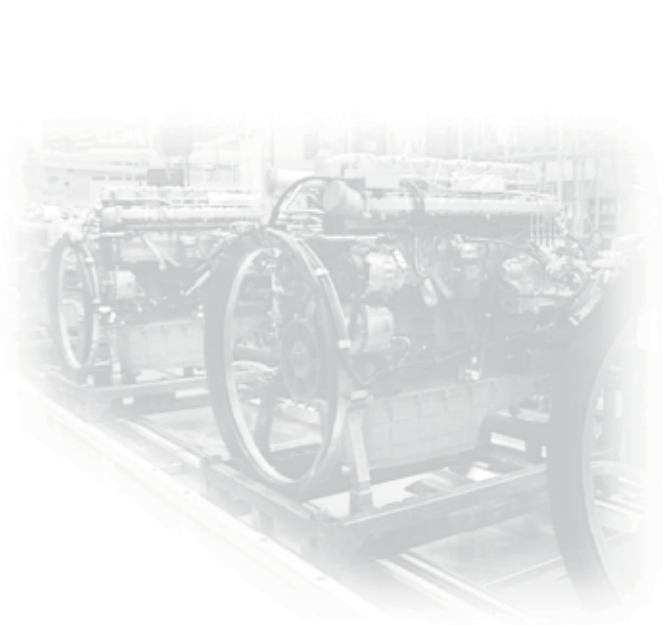
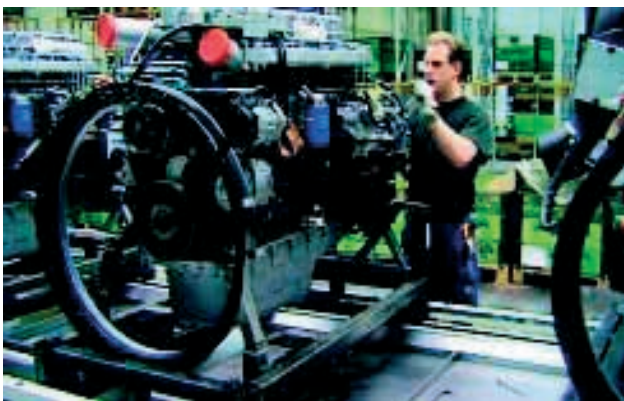
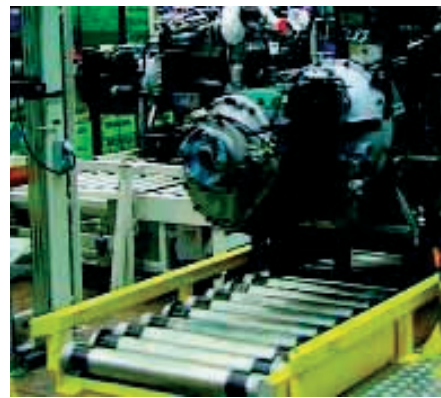


Assembly lines

On line and off line assembly - all with due respect to ergonomic requirements. UNIVEYOR have delivered many systems and offer solutions that optimise the requirements.

Keywords are “just in time” and “flexibility”.

Below are lines for assembly of cabs and completion of truck engines.





>> Main office:

Univeyor Logistics Systems

Industrivej 8

DK-9510 Arden

Tel. (+45) 9940 0000

Fax (+45) 9940 0199

info@univeyor.eu

www.univeyor.eu