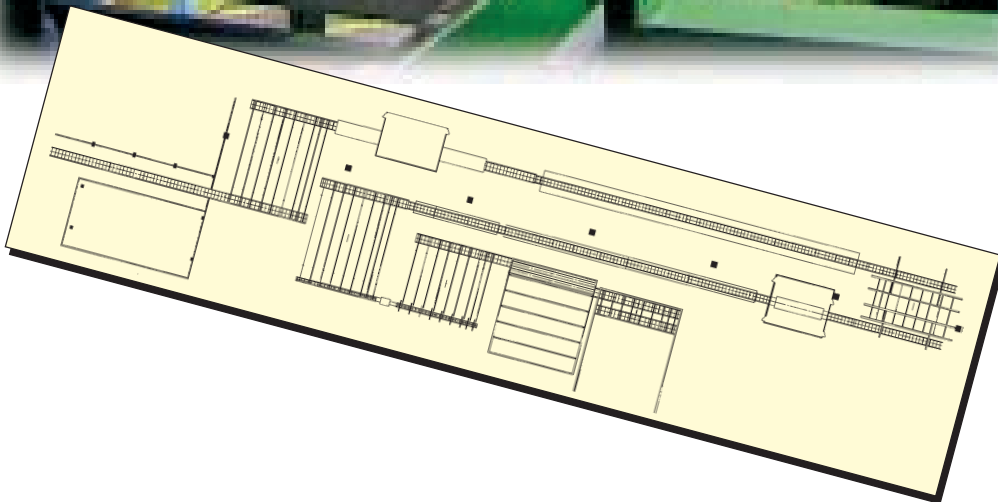


# Handling of beams

## Chassis beams in surface treatment line



## Handling in process plants

UNIVEYOR has delivered numerous complete conveyor lines for handling on process lines, often in close cooperation with suppliers of process equipment.

For VOLVO in Tuve, Sweden, UNIVEYOR has delivered and implemented a complete handling- and conveying system for a fully automatic plant for surface treatment of chassis frames for trucks.

### Special requirements

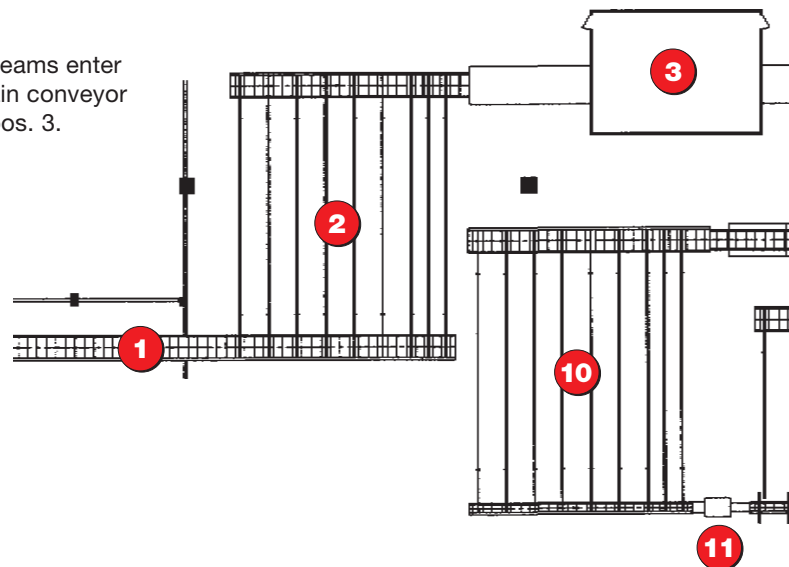
To ensure the best possible quality in the surface treatment major parts of the system are purpose developed special equipment for careful and smooth conveying, lifting, transferring and handling of the surface treated beams.

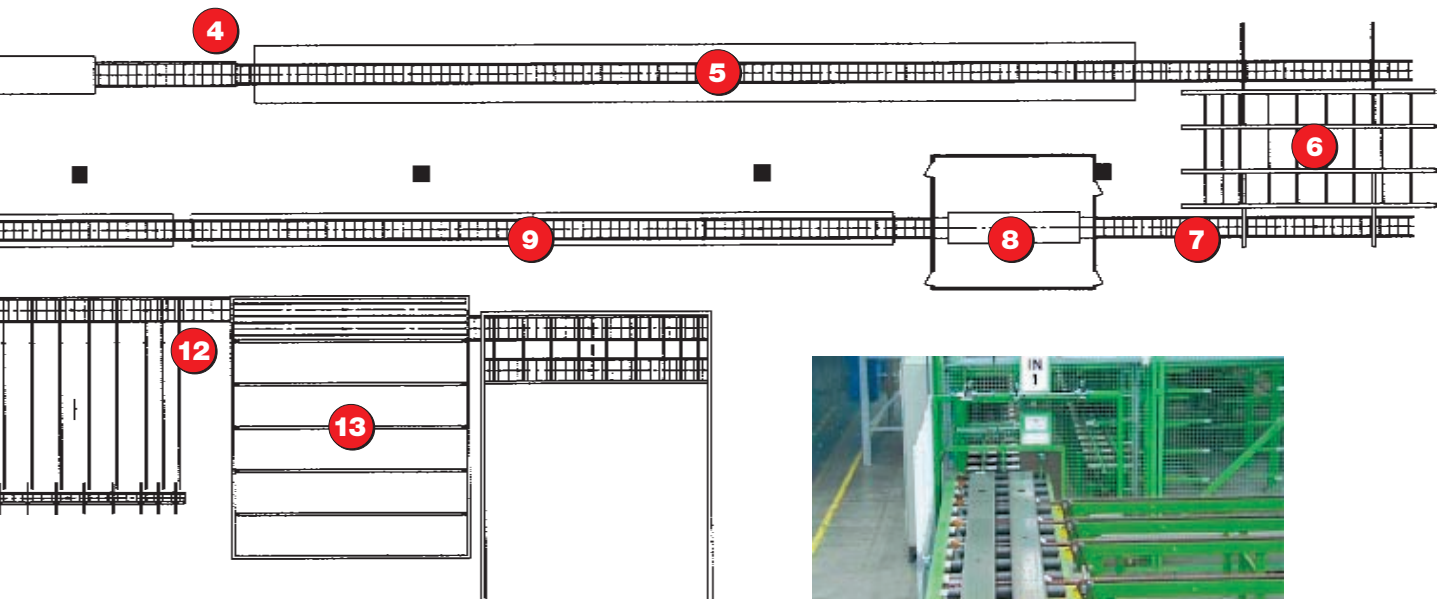
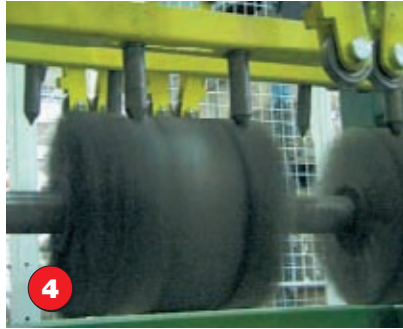
### Incoming for shot blasting

Beams are handled in pairs in a continuously running flow. Beams enter the system on roller conveyor pos. 1, are transferred to chain conveyor buffer pos. 2, and via roller conveyor to shot blasting box pos. 3.

### Specially developed pin conveyor

At pos. 4, after shot blasting, the beams are transferred from roller conveyor to specially developed pin conveyor. This avoids damaging the surfaces through the phosfating process, pos. 5. The pins are thoroughly cleansed at pos. 4 (and at other places in the proces).





**Synchronised lifting and transferring**

At pos 6., after phosfating, a specially developed system gently lifts the beams to a cross conveyor consisting of 9 string pin lanes. Lifting and transferring is done via a gantry lifting device with electro magnets. The movement of the lift is synchronised with the pin conveyor.

A similar synchronised lifting and transferring takes the beams to the downstream pin conveyor pos. 7 - for powder coating pos. 8, convection ovens pos. 9 and succesive cooling zone.

**Pressing and storage**

From multi strand buffer pos. 10 (similar to pos. 2) the beams one at a time are transferred to roller conveyor and press station pos. 11. After press station the beams are paired again, transferred to conveyor pos. 12, where they are pushed together before taken to storage pos. 13, awaiting request and order from assembly area.



*All process and handling in the surface treatment is controlled and monitored from a PC interface.*



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