Sorting and Feeding of Screw

Feeding & Handling System
Ref. 220
**Description:**

**Sector**
Automotive industry

**Component**
Screws M6 x 55

**Technical Requirements**
Positionally correct feed of 10-screw groups through 10 m long hoses using air pressure

**Discharge Position**
Hanging from the head, one behind the other

**Operation Description**
The screws are loaded in bulk into the hopper of the step feeder and then sorted positionally correct after being passed to the linear track.
At the end of the linear track, each screw is separated and passed to one of the 10 screw intakes.
All 10 received screws are cycled by the separation station using a programmable servo axis (spindle drive).
Once all 10 screws have passed through, the unit drives to the end position in which all 10 screws -- after clearance -- are shot into the subsequent station using air pressure.
Should a further screw be necessary at one or several stations, a subsequent insertion is possible.

**Performance**
10 parts in 40 seconds

**Control**
Simulation control to test the entire installation

**Elements of the Feeding System**
Step feeder, linear track, return-feed slide, separation station, enclosure

**Design**
RNA-standard conforming to DC-regulations.