

Leyde Special Machine Construction

Using Automation to Combat the Workers Shortage

09/2025

Manufacturing

Mechanical Machining

- conventional turning, CNC milling, drilling, sawing, pressing

Sheet Metal processing

- bending, notching, round rolling, CNC punching

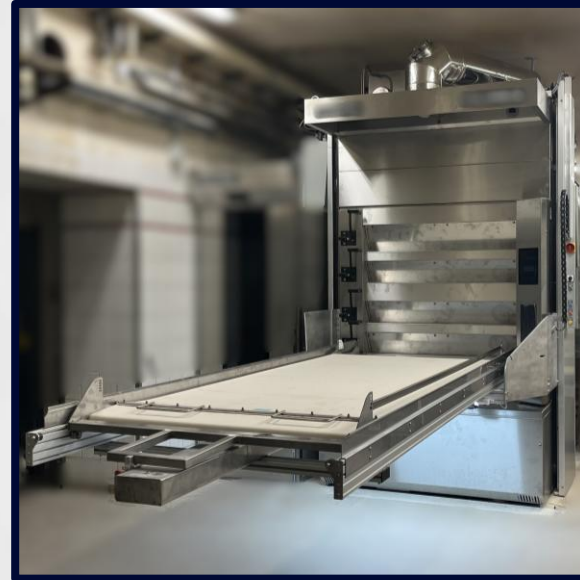
Welding: various materials, mainly stainless steel and aluminum

- electrode welding, MAG, TIG, spot welding



Leyde Bakelift Oven Loaders

- Wide selection of oven loaders to load deck ovens
- Bakelift M – E – Plus – Auto for manual/semi-automatic loading and unloading of small and medium-sized deck ovens
- Bakelift Pro for automatic loading and unloading of large deck ovens
- Bakelift Pro with additional automation options



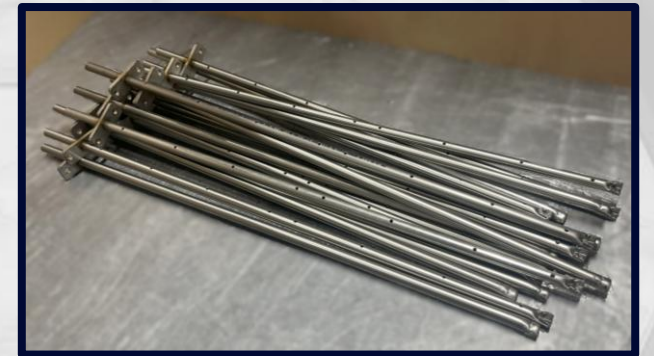
Bakelift M – E – Plus – Auto



Bakelift Pro

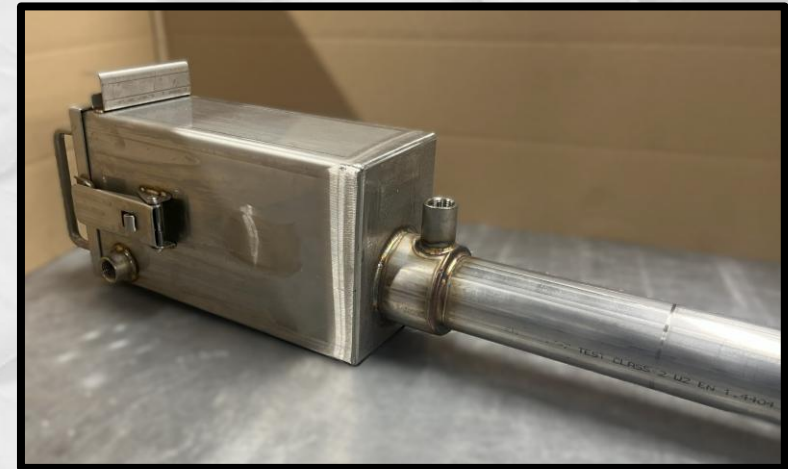
Small-Batch Production

- Welding and grinding of housing parts, door handles, hose connections, pipes, flanges made of steel, stainless steel or aluminum
- Assembly of small systems and devices



Housings for high-temperature probes

- Manufacturing of various water-cooled housings for high-temperature probes made of high-alloy steel
- Manufacturing of drive-in devices for high-temperature probes



Paint Filling Plant

Automatic paint filling for buckets of various sizes (5-15 liters)

- Automatic size adjustment depending on bucket size
- Cycle frequency 6 buckets/minute (15 l)
- Buckets are automatically separated
- Buckets are automatically transported for filling
- Edge gap filter filters material before filling
- A lid is automatically picked up from a stack of lids and rolled on
- The buckets are then labeled
- Further transport to the bucket palletizing system



Bucket palletizing system – Single Buckets

Fully automatic palletizing of paint buckets of various sizes

- Pallet supply from pallet magazine
- Pallets are covered with paper
- Buckets are transported from filling systems to two palletizing robots
- Buckets are placed individually on the pallet and stacked in layers
- Automatic transport to forklift pickup
- Pickup by forklift for direct loading or packaging



Bucket palletizing system – Bucket Stack

Fully automatic palletizing of paint buckets of various sizes

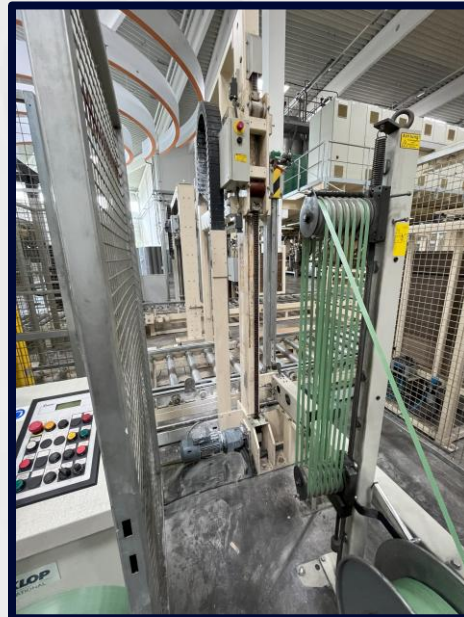
- Pallet provision from pallet magazine
- Pallets are covered with paper
- Buckets are transported from filling systems to 6 palletizing robots
- Buckets are automatically stacked and then placed on the pallet using a Cartesian robot
- Automatic transport to automatic strapping and pallet wrapping
- Pickup by forklift for direct loading



Pallet Handling

Fully automatic pallet handling with chain transport on conveyor rollers and conveyor chains

- Automatic pallet strapping
- Automatic deckboard feeder
- Automatic pallet wrapping
- Automatic pallet magazine



Banding of Laundry Stacks

Banding of laundry stacks in the production line

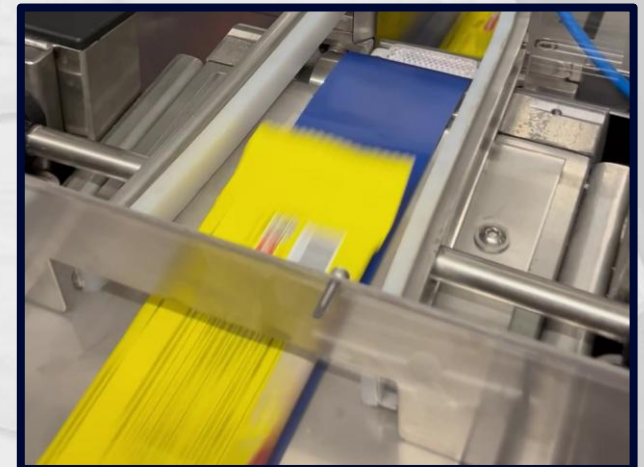
- Various laundry pile sizes
- Length measurement to apply a centered banding to products
- 12 banding operations per minute
- Paper banding as an environmentally friendly alternative to plastic shrink wrapping



Banding of Tubular Bags

Stacking and banding of tubular bags

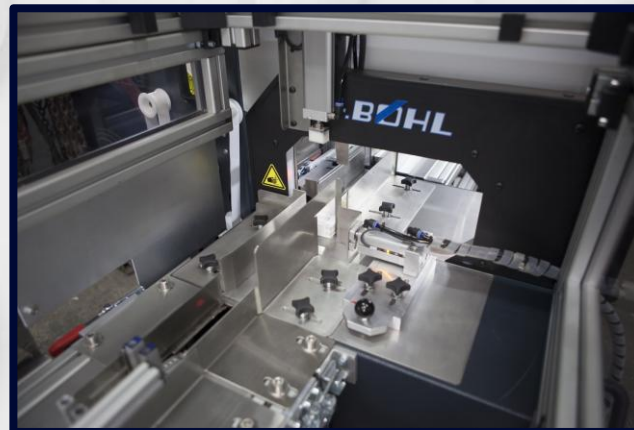
- Integrated into existing production line in clean room
- Various stack heights: stacks of 3, 5, or 10
- Processing of up to 80 products per minute
- System has bypass to process products during banding change
- Detection and removal of defective products



Banding of Package Inserts

Stacking and Banding of Package Inserts

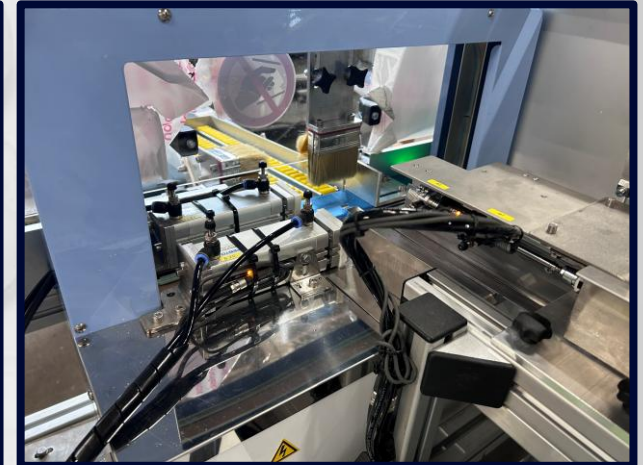
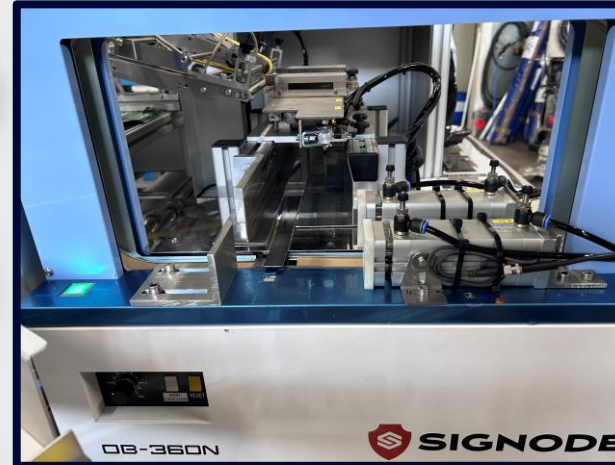
- Package inserts of various heights can be processed
- Paper banding as an environmentally friendly alternative to plastic shrink wrapping
- 20 banding operations per minute



Banding of Cards

Banding of flyers, gift cards, or postcards

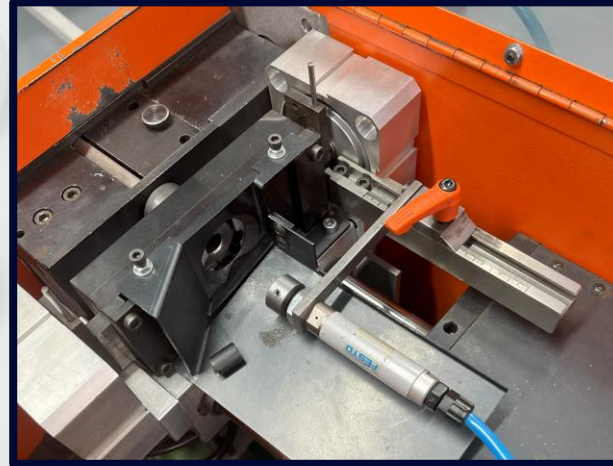
- Various stack heights from 5 to 100 products
- The feeder counts and conveys products into a chute from which the products are pushed into the banding machine
- 20 banding operations per minute (limited by feeder speed)



Conversion of Cable Stripper

Conversion of a cable stripper from pneumatic to electro-pneumatic control with PLC

- Reduced susceptibility to faults
- Simpler structure
- Use of proven mechanics and modern control technology



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