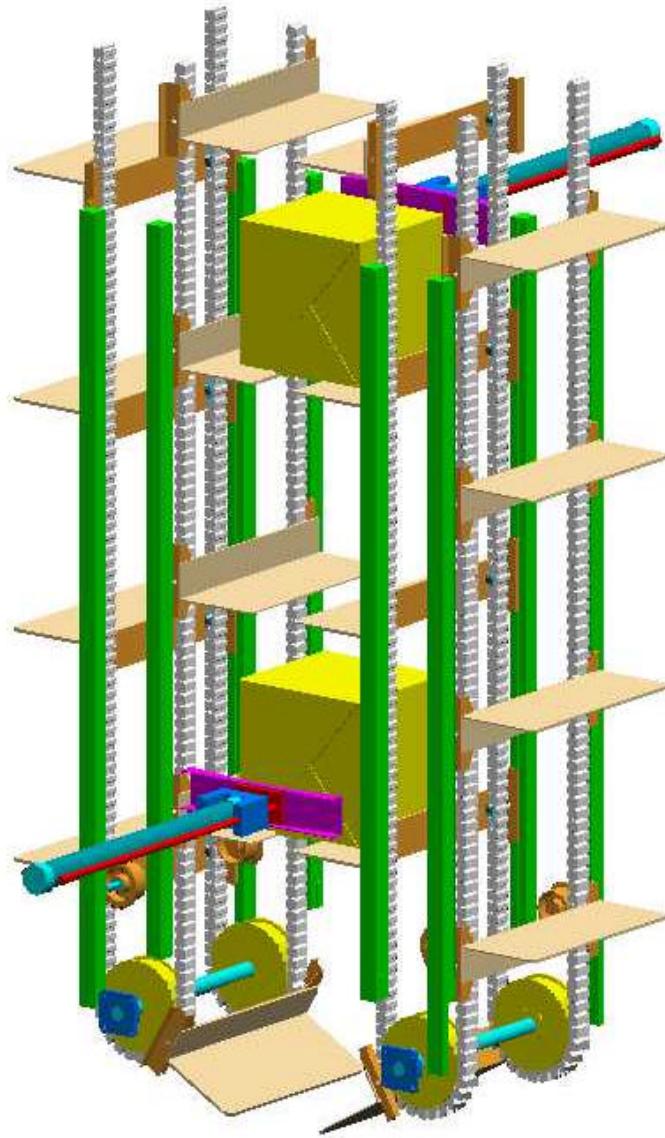


TAKTHEBER UND VERTIKALSPEICHER



PRINCIPLE

For many years NERAK S-shaped conveyors have been the classic choice when it comes to conveying a large quantity of packaged goods between two levels. They are characterized by reliable operation 24 hours a day, and are employed in postal sorting offices, airports, distribution warehouse and automotive factories for example.

There is now also a call for intermittent indexing conveyors with an integrated storage function. In response to this demand NERAK has developed the elevator series EH253/33/50-AL, specially designed to convey packages of identical size with individual loads of up to approx. 50 kg. With this type of conveyor, lifting heights of up to 20 m are possible with conveying capacities of 750 cycles/hour.

Angled ledges are attached to two pairs of rubber block chains circulating synchronously. The material is fed onto these ledges from a roller conveyor running between the ledges, or by a pneumatic pusher that pushes the segregated material from a roller conveyor or belt conveyor. The material is discharged by a pneumatic pusher in the upward direction, and by a discharge roller conveyor or belt conveyor in the downward direction. Feeding and discharging can be at any number of levels, as required.



Vertical lift unit for cheese

DRIVE SYSTEM

At the heart of every NERAK conveyor drive system is the heavy-duty rubber block chain.

The outstanding features of this chain are that it has no links, is silent-running, wear-resistant and maintenance free, all excellent qualities further enhanced by its corrosion-free design.

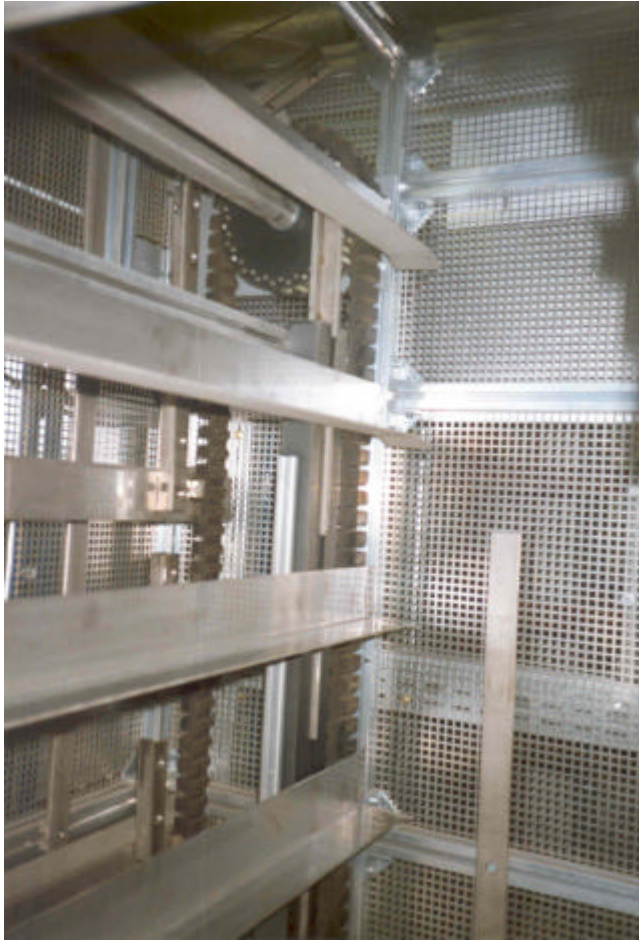


Thanks to the silent operation of the rubber block chain, there is no noise annoyance at the workstations in the immediate vicinity of the vertical lift unit.

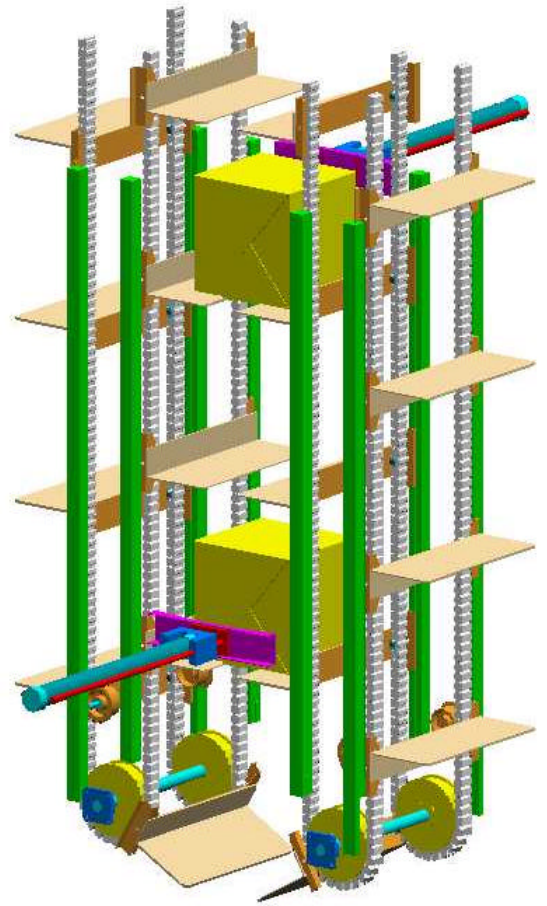
Moreover, operation with the rubber block chain is extremely cost-effective as there is no need for lubrication, regular adjustment and re-tensioning. Maintenance costs are thus reduced to a minimum.

The rubber block chain is available in a number of rubber compounds to suit every application. Preference is given to the abrasive-resistant SBR compounds or in oily environments Neoprene. The rubber block chain gets its high tensile strength from embedded vulcanized steel cables.

DESIGN



Angled ledges



The supporting frame of the vertical lift unit (VLU) is a robust construction made from aluminium profile sections that are bolted together. In compliance with local requirements, it is provided with cladding of perforated aluminium sheets. As an option, the frame and cladding are also available in standard steel or stainless steel. Generously sized doors allow easy access for maintenance and cleaning. VLU's up to a height of 3 m only have to be dowelled to the floor. For greater heights, the VLU's must be secured to the building or structural steelwork. As can be seen above the angled ledges are mounted on the rubber block chain. The loaded columns of these ledges are guided along profiles of synthetic material. A spur-gearred motor drives both shafts of the loaded columns via a transmission chain.

The switchgear can be wired up to terminal boxes. Optional equipment available are the PLC control as well as the feeding and discharging conveyors.

TECHNICAL DETAILS



Sheets of insulating material
Accumulation and transport



Exact dimensions depend on material, capacity and lifting height, and are obtainable on request

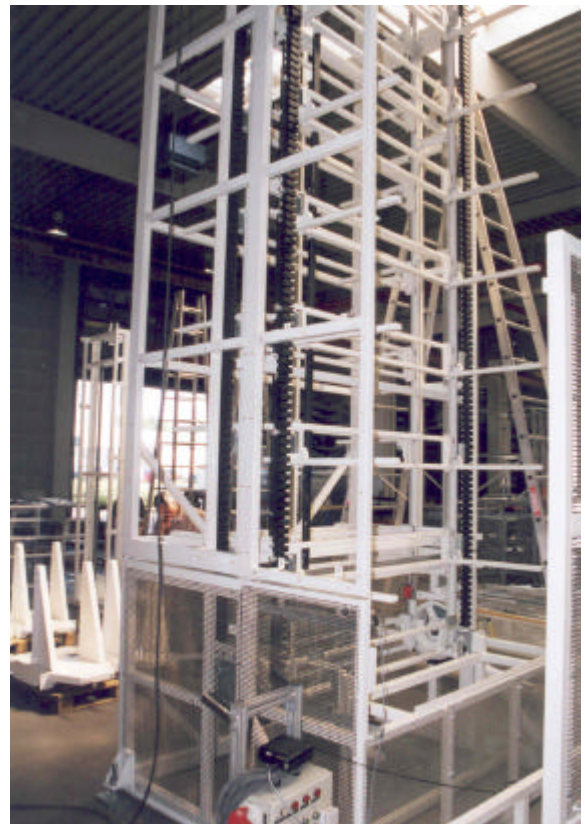
Other brochures available for NERAK products:

- S-shaped conveyors
- Heavy-duty S-shaped conveyors
- Circulating conveyors
- Circulating fork conveyors
- Reciprocating conveyors
- Heavy-duty reciprocating conveyors

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