

BUCKET CONVEYOR

Continuous
Horizontal
Vertical
Movement



N | E | R | A | K

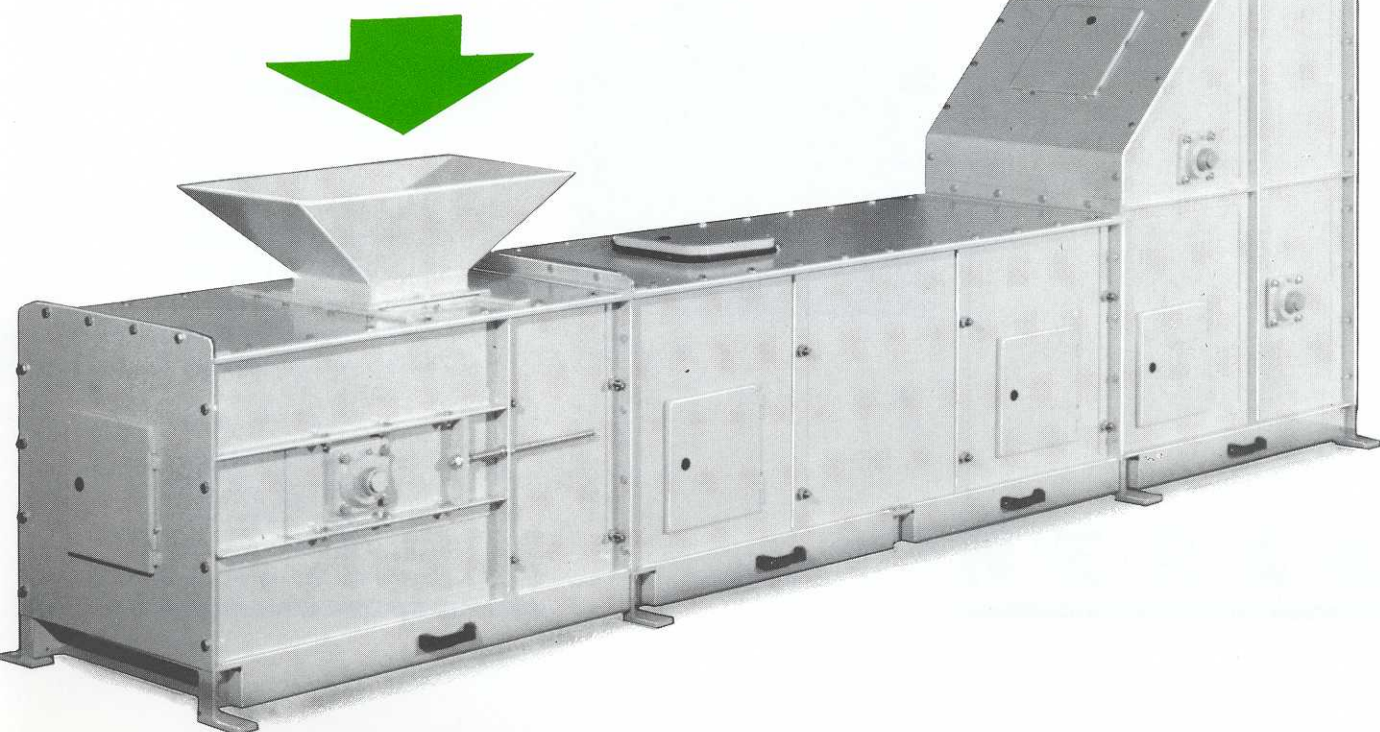
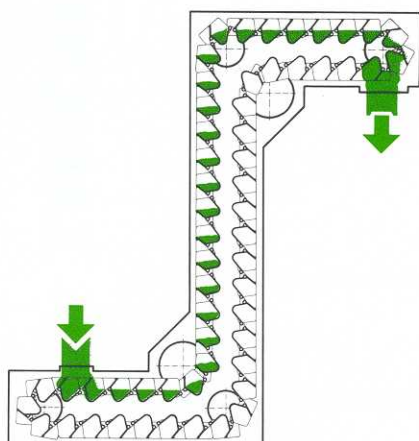
DESCRIPTION

The continuous bucket conveyor is designed to transport bulk material from one or more infeed positions to a single high level discharge point. Continuous conveying without transfers can be achieved with horizontal, vertical or inclined configurations.

All types of materials can be conveyed gently and quietly.

The product is fed into the moving bucket belt at a controlled rate, conveyed to high level and discharged under gravity.

This highly developed system with the toothed rubber chain as the driving medium is ideal for the gentle handling of delicate foodstuffs and equally for the conveying of abrasive, coarse and dense materials commonly used in the construction industry. The elevator structures are compact with simple adaption for installation in restricted areas. Large throughputs can be achieved with low power consumption.





BUCKET BELT

The polyamid buckets are fitted one behind the other by means of a flexible connecting strip. Rods with retaining clips pass through these connecting strips to suspend the buckets between two parallel rubber toothed chains. The assembly forms a strong, enclosed system of conveying.

The robust buckets can handle abrasive materials as well as hot products up to a temperature of 220 degrees C.

All bucket belt components are food quality and do not corrode.

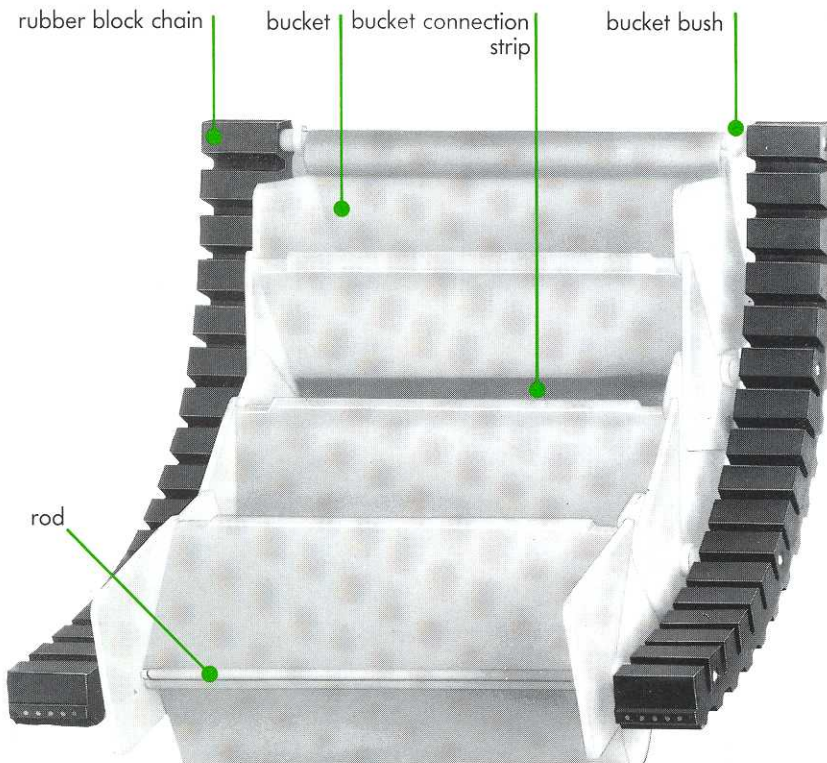
The design of the NERAK continuous buckets can in certain cases act as a self clean system thus eliminating dust build up in the horizontal sections.

STRUCTURES

NERAK continuous bucket elevators are available in various designs in mild steel painted or stainless steel -

- Totally enclosed heavy duty construction with standard and special profiles to suit large plants providing high efficiency
- Open construction with safety panels in solid or mesh materials. These allow internal visibility and access for easy cleaning with water, steam or special fluids
- Special designs for the food industry are available which are ideal for elevators involved in packaging and weighing projects

Clean-in-place systems and efficient bucket drying facilities can be incorporated into the NERAK designs. Integrated weighing units are also available.

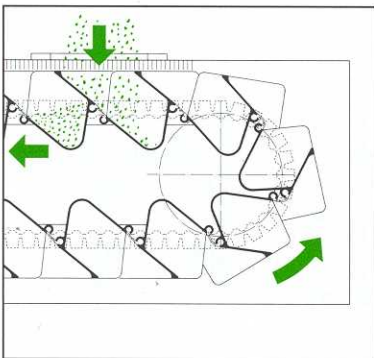
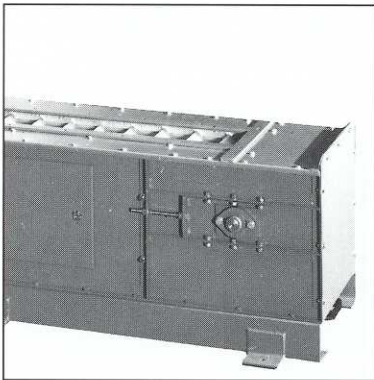


FEED SECTION

Any number of feed inlets can be incorporated. The width of the buckets determines the width of the fill point but lengths are variable to suit different applications.

A brush skirt for spillage prevention is fitted to the underside of the structure around the feed inlet to make contact with the moving buckets.

Suitable types of material feeding systems are available on request.



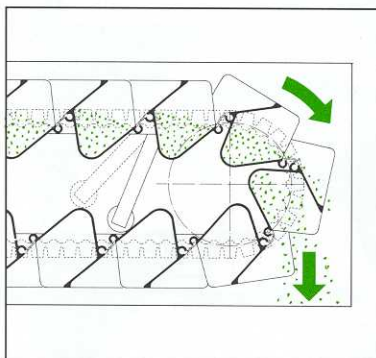
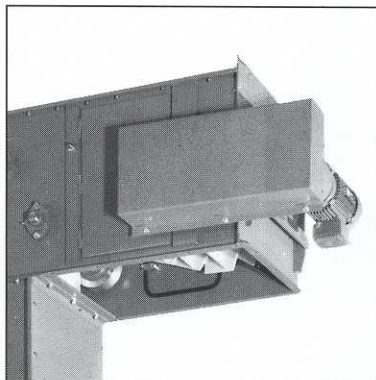
DISCHARGE SECTION

The NERAK continuous bucket conveyor has only one discharge point. The length of the discharge opening is designed to suit the behaviour of the product when discharging under gravity taking into account the bucket belt speed.

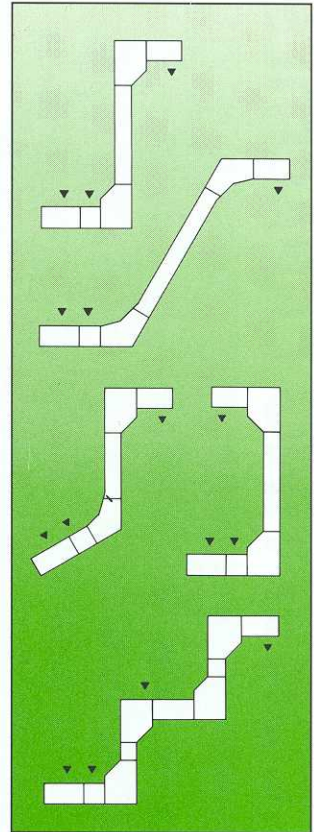
With sticky and wet materials a bucket knocker can be incorporated just after the normal discharge position.

When discharging into silos or hoppers, tailor made chutes can be provided. For discharging into multihead weighers and packaging equipment, vibratory feeders can be supplied supported within the elevator structure.

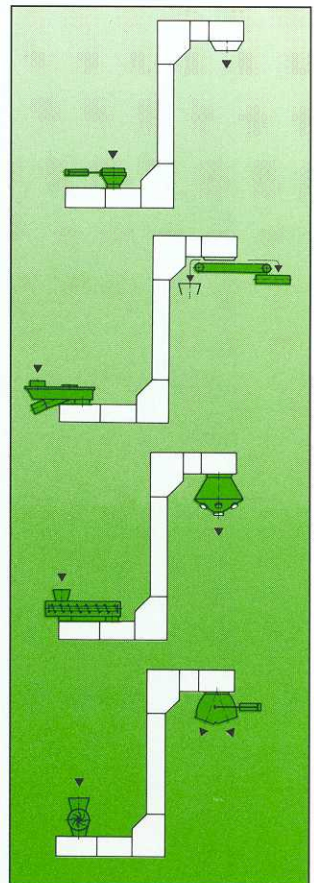
The geared motor is adjacent to the drive shaft either top or end mounted. An anti-run back device is also fitted to the drive shaft or within the to prevent run back when idle.



APPLICATION EXAMPLES

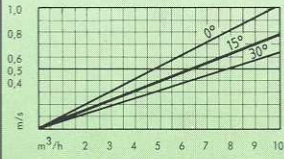


ADDITIONAL EQUIPMENT

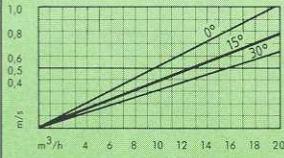


CONVEYING CAPACITIES

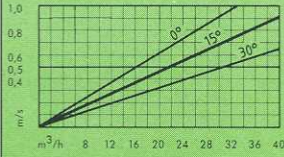
Typ WB 130



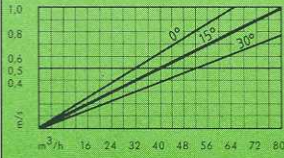
Typ WB 250



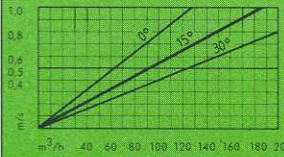
Typ WB 300



Typ WB 370



Typ WB 640



Filling level 80 %

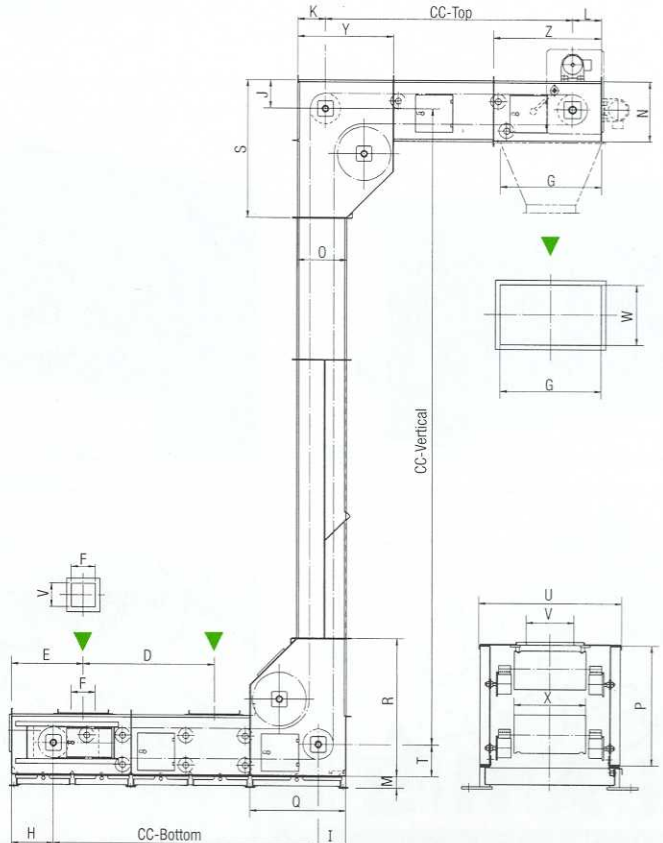


Angle of repose
 0° = free flowing product
 15° = powdered product
 30° = granular product

DIMENSIONS

	WB 130	WB 250	WB 300	WB 370	WB 640
CC-Bottom min.	600	600	1220	1410	2000
CC-Top min.	770	770	1230	1400	1600
CC-Vertical min.	700	700	1800	1800	2150
D min.	450	450	670	720	1100
E min.	400	400	600	675	1050
F min.	200	200	200	250	500
G min.	653	653	843	943	1133
H min.	245	245	350	400	500
I min.	155	155	230	290	400
J min.	165	165	235	290	350
K min.	155	155	230	290	400
L min.	175	175	240	310	400
M min.	100	100	100	100	200
N min.	350	350	500	600	750
O min.	260	260	410	550	750
P min.	350	350	500	600	750
Q min.	400	400	800	1000	1200
R min.	525	525	1150	1200	1450
S min.	525	525	1150	1200	1450
T min.	185	185	265	310	400
U min.	344	478	598	668	1038
V min.	80	150	200	250	500
W min.	271	406	506	576	926
X min.	130	250	300	370	640
Y min.	400	400	800	1000	1200
Z min.	700	700	900	1000	1200

The right to alterations in dimensions is reserved



TYPICAL APPLICATIONS

Food Industry

Vegetables (raw and frozen), pulses, confectionery (wrapped and unwrapped), cereals, cocoa beans, potato crisps, snack foods, coffee, tea, milk powder, grated cheese, sugar, peanuts, hazelnuts, most types of pet food and animal feeds.

Building Industry

Limestone, sand, cement, plaster, gypsum, perlite, slag, dry mortar, dry chalk, etc.

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Ceramics

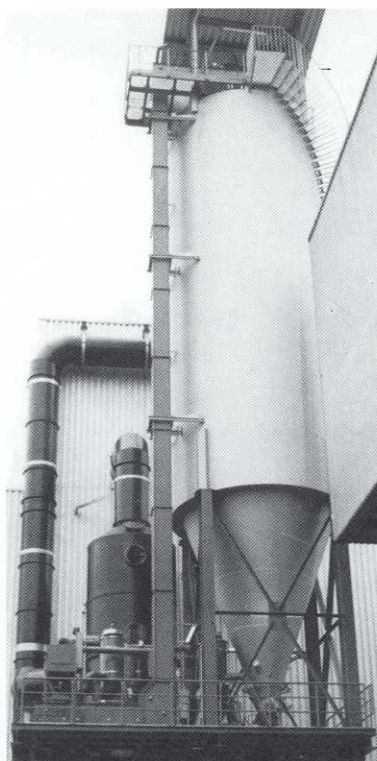
Glass balls, marble sand, clay pellets, porcelain powder, structural clay.

Chemical Industry

Caustic soda chips, ammonium nitrate, glass fibres, sodium carbonate, phosphates, sulphur pastilles, tablets, soap powder and ingredients.

Other Industries

Alumina, filter dust, foundry sand, fertiliser, broken glass, mineral shavings, graphite, rubber pellets, carbon black, crushed waste and refuse, coke, small coal, seeds, carbon black, etc.



OTHER NERAK EQUIPMENT

- Multi-discharge bucket conveyors
- Rubber block chains
- Grid belt conveyors
- Rubber cooling lines
- Boxlifters or unit load elevators
- Special designs to suit individual applications
- Circulating vertical conveyors

NERAK