

DRYCAKE

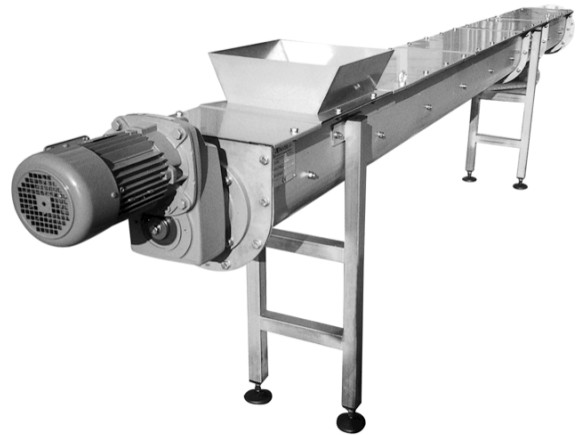
Vanderbeken Enterprises Ltd.

1877-DRYCAKE

MND

Screw Conveyors

- ▣ *Solids Conveying, Recovery & Processing*
- ▣ *Industrial & Commercial Solids Handling*
- ▣ *Water and Waste Water Treatment Works*



Manufacturer

With over 4.000 installations around the world, our manufacturer has developed a good reputation with the philosophy of offering high quality at small costs. This has served to provide equipment to smaller industries or applications where previously it was considered unviable and offers a lower purchasing cost for larger applications.

MND Screw Conveyors

MND Screw Conveyors provide a cost-effective solution for bulk solids handling. They can be applied to numerous industrial or commercial applications including paper mills, abattoirs, food production, refineries, etc, for either recovery or removal purposes, or to waste flows to convey separated screened solids. Single units can be supplied over 40 metres long and can be supplemented with additional screw conveyors allowing extended transfer capabilities. This could be over undulated areas and include vertical elevation if necessary. Solids are conveyed by a heavy-duty shaft-less screw spiral that rotates between wear resistant liners without any intermediate bearings. This method imparts high throughput without entanglement or clogging and significantly reduces and simplifies maintenance requirements. The spirals are highly resistant to wear and provide great durability for long periods of operation. Conveyors are available with single or dual screw spirals. Where requirements dictate, screw shafts are also available and can be supplied as an alternative option to shaft-less screw spirals. Liners are supplied in various materials including high molecular plastics or stainless steel to suit the characteristics of the solids to be conveyed. Research carried out by our manufacturer in cooperation with Nord Getreibe ensures exceptionally high levels of motor and gearbox reliability with conveyor systems as well as all our screening products supplied requiring drive systems. In addition, MND Screw Conveyors are manufactured with the same philosophy of bolted sections to grant far superior inspection and maintenance access, which in turn will increase longevity and overall asset life besides imparting easy access for cleaning and hygiene demands, in particular for food processing applications.

MND units can be supplied as:

Vertical Screw Conveyors - Horizontal Screw Conveyors - Pivoting Screw Conveyors



Screenings or Granular Solids Chart

Diameter (mm)	Incline Range	Spiral Type	Length (m)	Capacity (m ³ /h)	Motor (kW)	Rotation (RPM)
150	0°-15°	standard	0-20	0.5	0.37	15
150	15°-30°	reinforced	0-20	0.3	0.55	15
200	0°-15°	standard	0-20	1.0	0.55	15
200	15°-30°	reinforced	0-20	0.6	0.55	15
250	0°-15°	standard	0-20	2.4	0.75	15
250	15°-30°	reinforced	0-20	1.1	1.10	15
300	0°-15°	standard	0-25	3.8	1.50	15
300	15°-30°	reinforced	0-25	1.8	1.50	15
400	0°-15°	standard	0-30	8.0	2.20	15
400	15°-30°	reinforced	0-30	3.8	2.20	15
500	0°-15°	standard	0-36	17.0	3.00	15
500	15°-30°	reinforced	0-36	8.0	3.00	15

Sludge or Slurry Chart

Diameter (mm)	Incline Range	Spiral Type	Length (m)	Capacity (m ³ /h)	Motor (kW)	Rotation (RPM)
150	0°-15°	standard	0-20	1.5	0.55	29
150	15°-30°	reinforced	0-20	0.8	0.75	29
200	0°-15°	standard	0-20	3.0	0.75	29
200	15°-30°	reinforced	0-20	1.7	0.75	29
250	0°-15°	standard	0-20	7.0	1.50	29
250	15°-30°	reinforced	0-20	3.9	1.50	29
300	0°-15°	standard	0-25	11.0	2.20	29
300	15°-30°	reinforced	0-25	6.0	2.20	29
400	0°-15°	standard	0-30	23.0	3.00	29
400	15°-30°	reinforced	0-30	13.0	3.00	29
500	0°-15°	standard	0-36	45.0	5.50	29
500	15°-30°	reinforced	0-36	26.0	5.50	29

Typical Applications

A synopsis of typical applications for MND screw conveyors include:	
Food processing	sugar beet, granules and pulp grain mixtures malt and barley residues of dry, semi-solid and viscous produce pastes, creams, preserves meat and sausage waste
Agriculture	flesh fruit, potatoes, kernels, peelings and cores fruit and vegetable waste peat and other gardening solids
Abattoirs	entrails, hair or fur waste, bones, hooves, claws
Pharmaceutical & Chemical industry	granular materials, pills and powders fertilizers, plastic materials
Paper Industry	paper pulp, paper strips
Utilities	screenings, de-watered, thickened sludge chemical refill systems - granules or powder reception, incineration plants, ashes

Contact DRYCAKE for further information regarding our other products or variants.

We reserve the right to amend any detail without notice.
Please ensure you have the latest information.
Issue MND 09.10 (en)

Screw Conveyor Range Charts

Please note: the charts here aside are generalized and only intended to provide an estimate of requirements. Advice should be sought to ensure the conveyor will be appropriate for the application.

Capacities of MND/V Vertical Screw Conveyors are analogous to the 15°- 30° incline range.

Benefits:

- Efficient handling of difficult solids
- Requires less space than other conveying systems
- Hygienic operation
- Easy access for cleaning
- Effectively high throughput efficiencies
- Very low maintenance requirements
- Modular system for various applications

Specifications

Flow Capacities	Up to 50 m ³ /h depending upon the solid conveyed
Fabrication	Stainless steel: 304 (BS EN 10088 1.4301) Stainless steel: 316 (BS EN 10088 1.4401) Spiral: Mild steel or Stainless steel, 304 or 316
Nominal diameter	150, 200, 250, 300, 400, 500, 600 mm diameter
Variants	Horizontal, inclined, vertical and pivotal
Single unit maximum length	Up to 40 m

DRYCAKE

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UNI EN ISO 9001:2000
Quality Certification
No: 50 100 7256