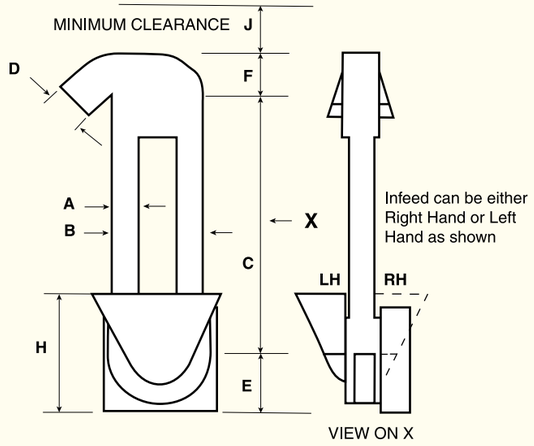
TYPICAL DIMENSIONS

	M75	M100	M160
A	76	102	168
B	365	485	650
C*	x150	x200	x250
D	175	200	250
E	250	330	460
F	200	260	350
H	800	900	900
J	180	220	360

** Multiples of*



POWDERFLIGHT CONVEYING SYSTEMS

CONVEYOR CAPACITIES

During conveying, powders are subjected to turbulence and aeration, which in effect reduce their bulk density. Since we recommend no more than 50% to 60% loading by volume, a realistic output can be estimated by multiplying the swept volume given in the table, by the bulk density and dividing by 4. This will be a conservative figure which may well be exceeded in practice.

SWEPT VOLUME: LITRES/MIN

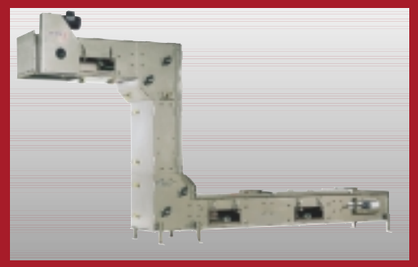
R.P.M.	M75	M100	M160
90	330	730	2500
150	540	1190	4200
190	680	1500	5300
240	870	1900	N/A

e.g. Talc at 0.8 kg/litre :
M100 at 190 rpm output :
$\frac{1500 \times 0.8}{4} = 300$ *kg/min*
(This figure has been exceeded by 30% on test.)

TEST FACILITY

All models of Powderflight Conveyors are available for tests with customers' materials at our test facility at Glossop.

OTHER PRODUCTS FROM THE UNITRAK POWDERFLIGHT RANGE



'TipTrak' bucket elevator

'Bagstander' FIBC Discharge System

'Screwfeeder' with agitated in-feed hopper

UNITRAK POWDERFLIGHT

Striving to exceed our customers' expectations...

Dinting Lane Industrial Estate, Glossop, Derbyshire SK13 7NU, UK
Tel: +44 (0)1457 865038 Fax: +44 (0)1457 869776 Email: info@unitrak.co.uk Web site: www.unitrak.co.uk

High Output with Versatility

- Dust-tight conveying.
- High output relative to power and cost.
- Minimum headroom required at discharge.
- No separation of blended products.
- Minimum attrition of fragile particles.
- No filtration necessary at discharge.
- Low noise level.
- Any angle of operation.

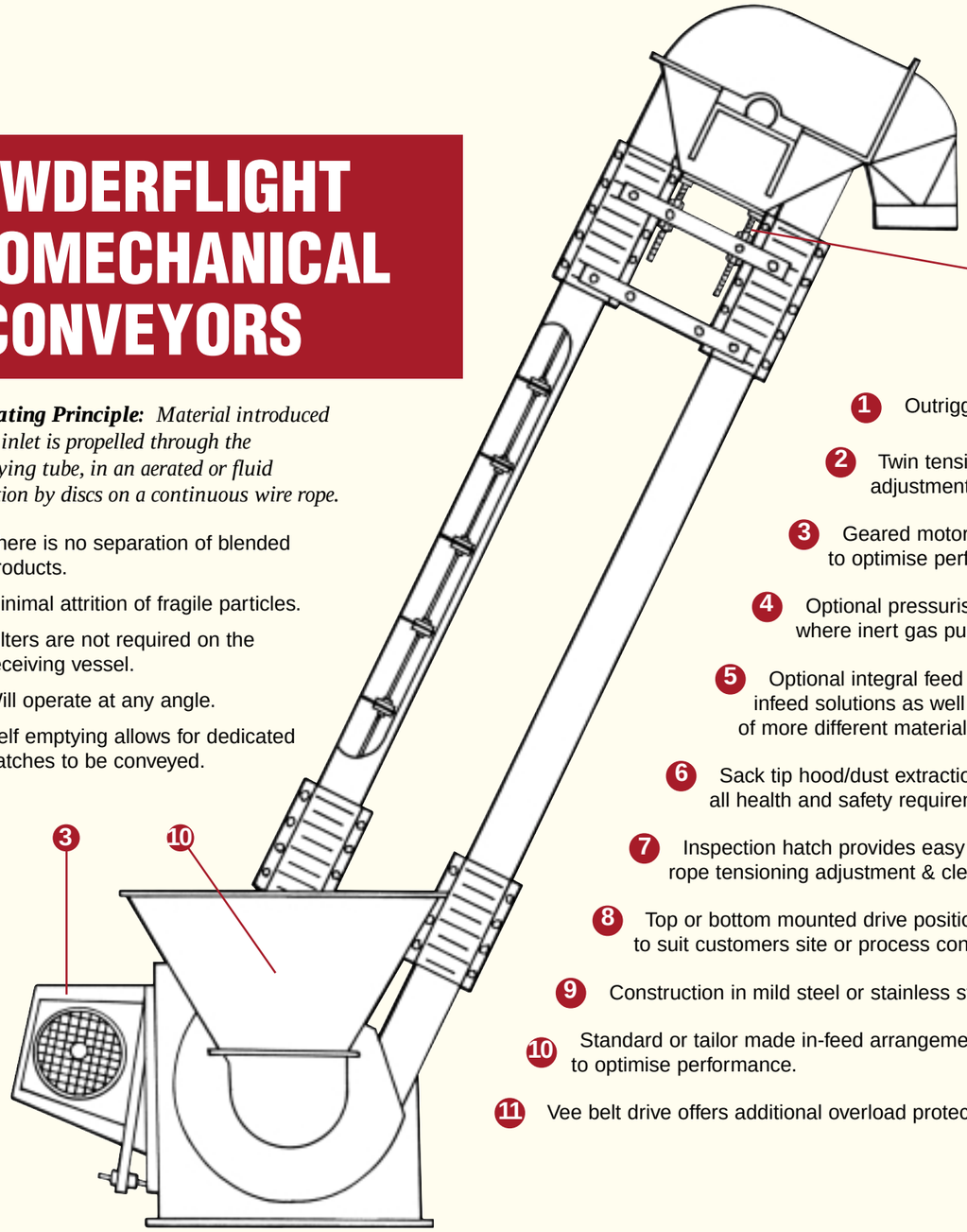
UNITRAK POWDERFLIGHT

Striving to exceed our customers' expectations...

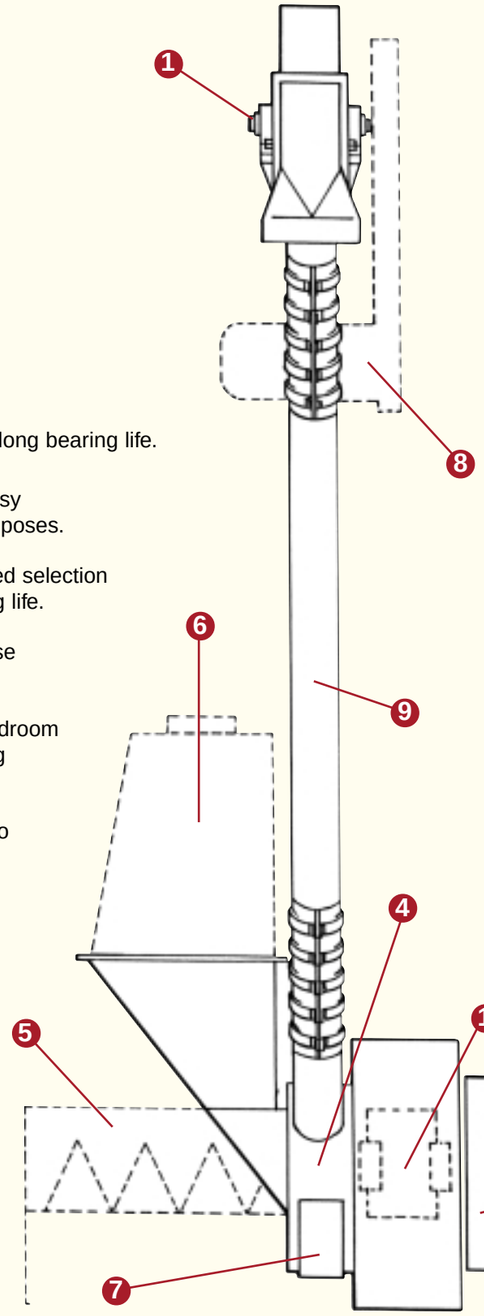
POWDERFLIGHT AEROMECHANICAL CONVEYORS

Operating Principle: *Material introduced at the inlet is propelled through the conveying tube, in an aerated or fluid condition by discs on a continuous wire rope.*

- There is no separation of blended products.
- Minimal attrition of fragile particles.
- Filters are not required on the receiving vessel.
- Will operate at any angle.
- Self emptying allows for dedicated batches to be conveyed.



1. Outriggered bearings to prolong bearing life.
2. Twin tension screws ensure easy adjustment for maintenance purposes.
3. Geared motor drive allows for speed selection to optimise performance and prolong life.
4. Optional pressurised double seal for use where inert gas purging is required.
5. Optional integral feed screw offers low headroom infeed solutions as well as consistent feeding of more different materials, such as TiO_2.
6. Sack tip hood/dust extraction systems conform to all health and safety requirements.
7. Inspection hatch provides easy access for rope tensioning adjustment & clean out.
8. Top or bottom mounted drive positions to suit customers site or process conditions.
9. Construction in mild steel or stainless steel.
10. Standard or tailor made in-feed arrangements to optimise performance.
11. Vee belt drive offers additional overload protection.

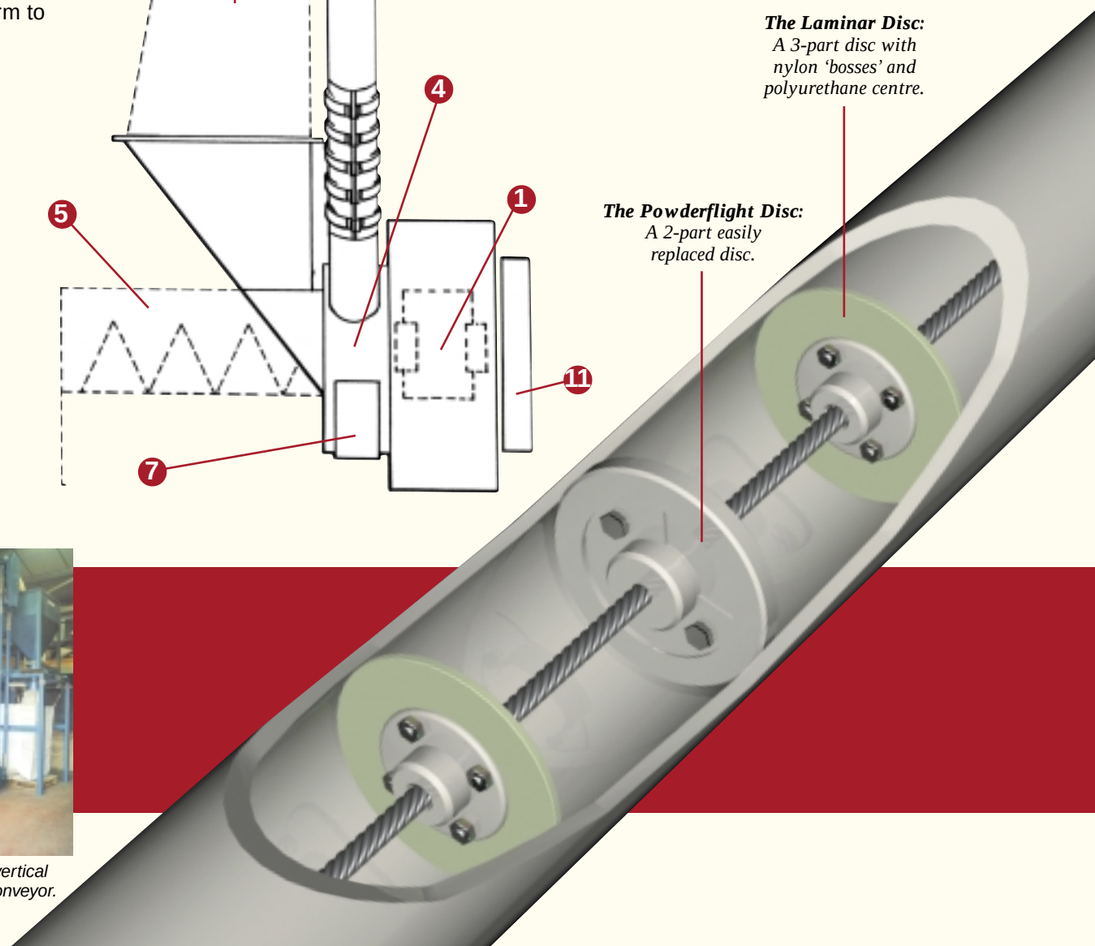


Materials Handled

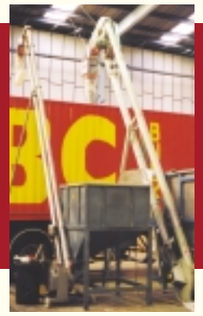
Adipic acid
Aluminium chloride
Aluminium oxide
Asbestos fines
Barytes
Bentonite
Bran
Brown sugar
Calcium carbonate
Carbon black
Cement
Coffee beans
Coffee grounds
Crop seeds
Curry powder
Custard powder
Dehydrated foods
Detergent powders
Dog biscuits
Flocculents
Gelatine
Gram flour
Granulated sugar
Gypsum
Icing sugar
Iron oxide
Lead oxide
Lead shot
Limestone powder
Magnesium oxide
Melamine powder
Milk powder
Moulding powder
Perlite
Phthalic anhydride
Pigments
Plastic chips
Plastic granules
Potato flour
Refractory powder
Resins
Salt
Sand
Silica
Snuff (Tobacco fines)
Soap granules
Sodium sulphate
Soya flour
Starch
Sterilising powder
Sugar beet pulp dust
Talcum powder
Tile dust
Titanium dioxide
Urea prills
Water treatment powders
Wheat flour
Yeast extract
Zinc oxide
Zirconium sand

The Laminar Disc: *A 3-part disc with nylon 'bosses' and polyurethane centre.*

The Powderflight Disc: *A 2-part easily replaced disc.*



Mobile conveyors feeding cone blender.



M100 & M160 feeding ISO containers with plastic granules.

Vertical conveyor feed from sack tip station with screw feeder outlet and integral dust extraction system.

Manual sack tipping into mixer using vertical conveyor and integral feed screw.

Horizontal/vertical multi-path conveyor.