

# BS Vertriebsbüro GmbH

*Silo-Anlagenbau - "Your specialist in silo components"*

Pillauer Str. 2 · D-74336 Brackenheim  
Fon ++49 (0)7135 12409 · Fax ++49 (0)7135 933599  
e-mail: [info@bs-vertrieb.de](mailto:info@bs-vertrieb.de)

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## Pipe Screw Conveyors

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■ **Flexible Spiral Conveyor**

## Flexible Spiral Conveyor

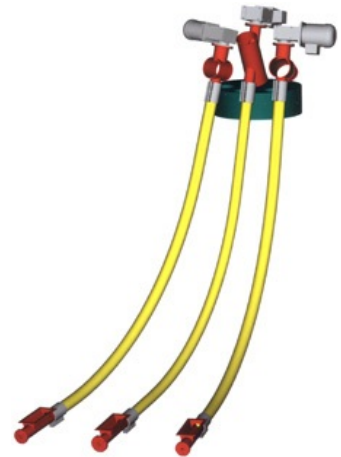
**Flexible spiral conveyors have been used for many years in various industries. The innovative technique as well as the outstanding quality of these conveyors has given them a leading position in the market.**

Die Förderschnecken als mechanisches Fördersystem arbeiten prinzipiell staubfrei, da keine Förderluft und damit auch keine Filterung benötigt wird. Die staubdichte Bauweise sorgt für sauberes und sicheres Fördern Ihrer Produkte bei geringen Investitions- und Betriebskosten.

Die flexible Verlegung der Förderschnecken ist nicht nur bei der Integration in bestehende Systeme von Vorteil, auch neue Anlagen kommen mit weniger Platz aus oder können für zusätzliche Komponenten ausgelegt werden.

### Advantages:

- dust free and gentle conveying of fragile products in closed system
- high conveying capacity with a small cross section and low motor power
- large range of applications
- transport of dry powders of all sorts
- conveying distances of up to 40 m with one conveyor
- conveying capacities between 0,2 and 20 m<sup>3</sup>/h
- simple assembly
- easily integrated with existing machines
- easy cleaning
- design for CIP-cleaning
- flame proof design according to European and international standards
- pressure- and vacuum-tight as well as explosion-proof



Areas of application	
<b>Chemical industry:</b> <ul style="list-style-type: none"><li>• feeding of reactors</li><li>• discharging of mixers and packing machines</li><li>• packing into Big Bags, casks and sacks</li><li>• complete systems with multiproduct dosing</li><li>• dosing of additives</li></ul>	<b>Products:</b> baryte, bentonite, borax, calcite, cellulose, ceramics, French chalk, metal oxides, mica, resin, silicic acid, soda ash, sulfamic acid, zinc stearate, ...
<b>Basic products/ General Industrial Application:</b> <ul style="list-style-type: none"><li>• feeding of mixers</li><li>• discharging of silos and containers</li><li>• feeding of additives</li><li>• back conveying of overtails</li><li>• feeding of packing machines</li><li>• discharging of returnable silos</li></ul>	<b>Products:</b> aluminium silicate, masonry rendering, gypsum, insulating fibers, lime, ceramic powder, chalk, metal powder, quartz powder, sand, steel balls, clay, cement, ...
<b>Application in plastics technology:</b> <ul style="list-style-type: none"><li>• conveying from bins, containers, FIBCs, sack-dischargers as well as from weighing containers to process</li><li>• machines for reworking, mixing and simultaneous conveying</li><li>• conveying of regrind from a granulator</li><li>• packing of granules and powder</li></ul>	<b>Products:</b> additives, colours, fibres, filling materials, flame retardant, foil flakes, granules, pellets, powder, PVC-dry-blend, rubber granules, shellac, stabilizers, ..
<b>Foodstuff industry:</b>	<b>Products:</b>

<ul style="list-style-type: none"> <li>conveying, dosing and blending, discharging of bins, containers and Big Bags</li> <li>complete system for blending</li> <li>conveying to packing machines</li> <li>recycling of breakages and oversize particles ...</li> </ul>	coffee, dry vegetables, filter aids, finished soups, flavours, gelatine, meal, milk powder, nuts, oatmeal, whey powder, salt, starch, sugar, tea, tobacco, yeast, ...
<b>Application in environmental technology:</b> <ul style="list-style-type: none"> <li>conveying and dosing of water conditioning chemicals</li> <li>charging and discharging of filter aids</li> <li>addition of reactants and precipitants</li> <li>discharging of ash incl. mixing and wetting devices</li> <li>discharging of bins</li> <li>filling of containers and Big Bags</li> <li>discharging of filter dust</li> </ul>	<b>Products:</b> activated carbon, adsorber, cellulose fibers, filter aid, filter dust, gypsum, lime, precipitants, sodium carbonate, wood dust, ...

#### Materials:

##### Spiral:

hardened spring steel and stainless spring steel

##### Conveying pipe plastic materials:

- polyamide, standard hose
- polyurethane for abrasion resistance
- polypropylene, electrically conductive
- polyethylene for corrosion best resistance
- semi rigid version, metal hose with plastic liner of various qualities for highest reliability of operation

##### Metal:

flexible metal hose in steel or stainless steel semi rigid version with steel- or stainless steel-tube with prefabricated bends

##### Without conveying pipe:

to install into existing containers or troughs

#### Conveying spirals in the range:

flat band spiral					round wire spiral			
EMFB	smallest bending radius (m)	max. grain (mm)	max. conveying volume (m <sup>3</sup> /h)		EMRD	smallest bending radius (m)	max. grain (mm)	max. conveying volume (m <sup>3</sup> /h)
50	1,5	3	2,0		30	1,0	2	0,2
70	1,9	4	5,0		40	1,3	3	0,5
80	2,2	6	10,0		50	1,5	4	1,5
90	2,2	10	12,0		65	1,9	8	4,0
100	2,5	10	20		75	2,2	9	8,0
<b>Use:</b> high capacity, poor flowing powders, long conveying distances					85	2,2	15	10,0
					<b>Use:</b> gentle conveying of fragile products, low cost version, fine and coarse granules			

Rectangular profile spiral			
EMQP	smallest bending radius (m)	max. grain in mm	max. conveying volume (m <sup>3</sup> /h)
65	1,9	1	2,5
<b>Use:</b> difficult powders, cohesive products, especially proved for lime, chalk and similar powdered materials			

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