

**POWDRIT**



- ✓ Accuracy ± 0,25 %
- ✓ Feed rates from 0,4 m³/h up to 200 m³/h
- ✓ Used in all heavy industries
- ✓ Modular length and belt width
- ✓ Customised service
- ✓ High performances

**Applications :**

The POWDRIT weigh belt feeder is used for the continuous, gravimetric feeding of powdery bulk materials. Depending on the material to be handled, the infeed to the POWDRIT is controlled by a suitable prefeeder, i.e. rotary star feeder, feeding gate, etc.

The electronic controller works as an independent unit or integrated in a multi component system. It also controls the prefeeder, depending on the application, by an independent PID control loop as a function of the settling chamber filling level or in a classical double regulation loop, based on the beltload. The electronic controller can be linked to a supervisory process control system via an optional interface module.

**Design :**

- Modular feeder design for length and width.
- Inlet settling chamber with triple skirt preventing material leakage between chamber and belt.
- Engineered for high rigidity.
- Patented belt tensioning and auto centring system.
- High quality conveyor belt with integrated index, cleaned inside and outside by scraper elements.
- Lateral belt replacement.
- Standard discharge hood for total dust free operation.
- Material enclosure between inlet settling chamber and discharge hood as option.



SFT, an intelligent technique

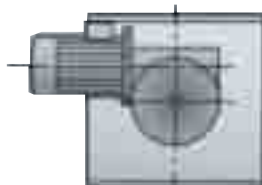
**Option:**

- Virtually deflection free weight measurement by the digital SFT load cell with very high resolution (1:1'000'000).
- Factory calibrated, no calibration weight needed.
- 100 % digital connection

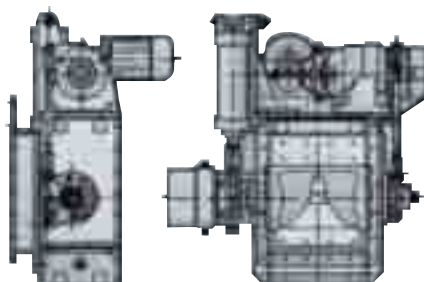
**Weigh belt feeder with options**



• Cut-off gate



• Rotary star feeder

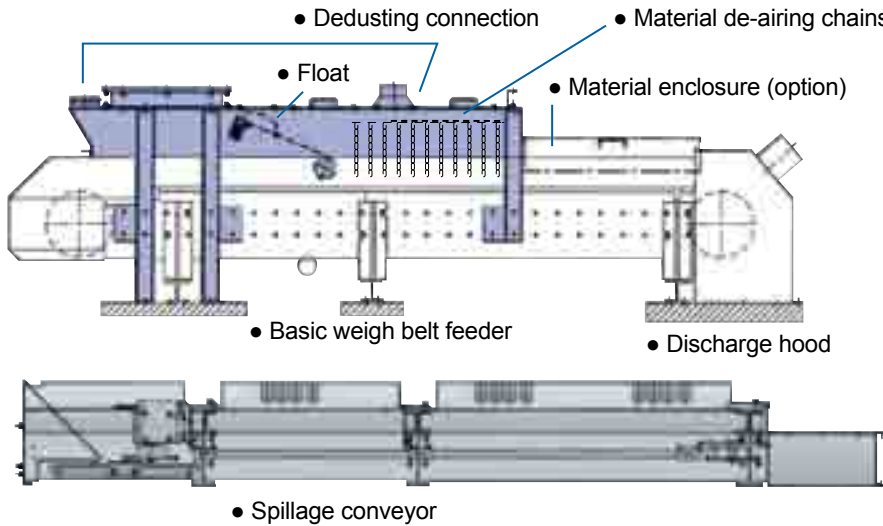


• Feeding gate



• Electronic controllers SCM and SDU

**Settling chamber**



- For the de-airing and stabilisation of fluidised bulk materials before being conveyed over the weighbridge.
- Equipped with a set of chain curtains and retention plates; the position of these elements is optimised during start-up as a function of the material flow behaviour.
- To be connected to the plant dedusting installation for the elimination of the air from the fluidised bulk material.
- Can be fitted with a «float» level measuring system to control the prefeeder via a dedicated 3-point control loop so as to maintain a preset settling chamber filling level. With this control concept the material is extracted from the settling chamber with a material bed height given by the shear gate setting

**Flowrate**

Material density [kg/dm³]		0,4 Pulverised Coal	0,6 Pulverised Coal Fly ash	0,8 Raw meal	1 Cement	1,2 Gypsum	/ SIZE	
Typical materials	Typical flow							
<b>POWDRIT 650</b>	Min. min. [t/h]	0.25	0.3	0.3	0.3	0.3	Standard 650 x 2700	Maximum 650 x 4700
	Max. max. [t/h]	5	7	10	12	14		
<b>POWDRIT 800</b>	Min. min. [t/h]	0.9	0.9	0.9	0.9	0.9	800 x 2700	800 x 4700
	Max. max. [t/h]	20	25	50	60	70		
<b>POWDRIT 1000</b>	Min. min. [t/h]	1	2	2	2	2	1000 x 3100	1000 x 4700
	Max. max. [t/h]	35	50	90	110	135		
<b>POWDRIT 1200</b>	Min. min. [t/h]	2	3	3	3	3	1200 x 3100	1200 x 4700
	Max. max. [t/h]	50	75	130	160	175		
<b>POWDRIT 1400</b>	Min. min. [t/h]	3	5	5	5	5	1400 x 3500	1400 x 4700
	Max. max. [t/h]	65	10	170	210	250		

Standard regulation ratio: 1:10

Belt width X Distance «material inlet - outlet»

**Technical specifications**

Feeding accuracy: +/- 0,25 %

**Motor**

- Motor: AC
- Protection class: IP 55
- Rating: 0,55 - 4 kW
- Geared unit: Hollow Shaft Helical Bevel Gear
- Transmission: direct, on head drum
- Working temperature range: -10°C to +60°C
- Speed sensor: Inductive, integrated in geared motor

**Standard materials used**

- Girders and hoods: Mild steel
- Conveyer belt: Rubber: endless vulcanized standard: resistant up to 70°C high temperature: resistant up to 120°C
- Standard colour: RAL 5000, blue 80 µm thickness

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