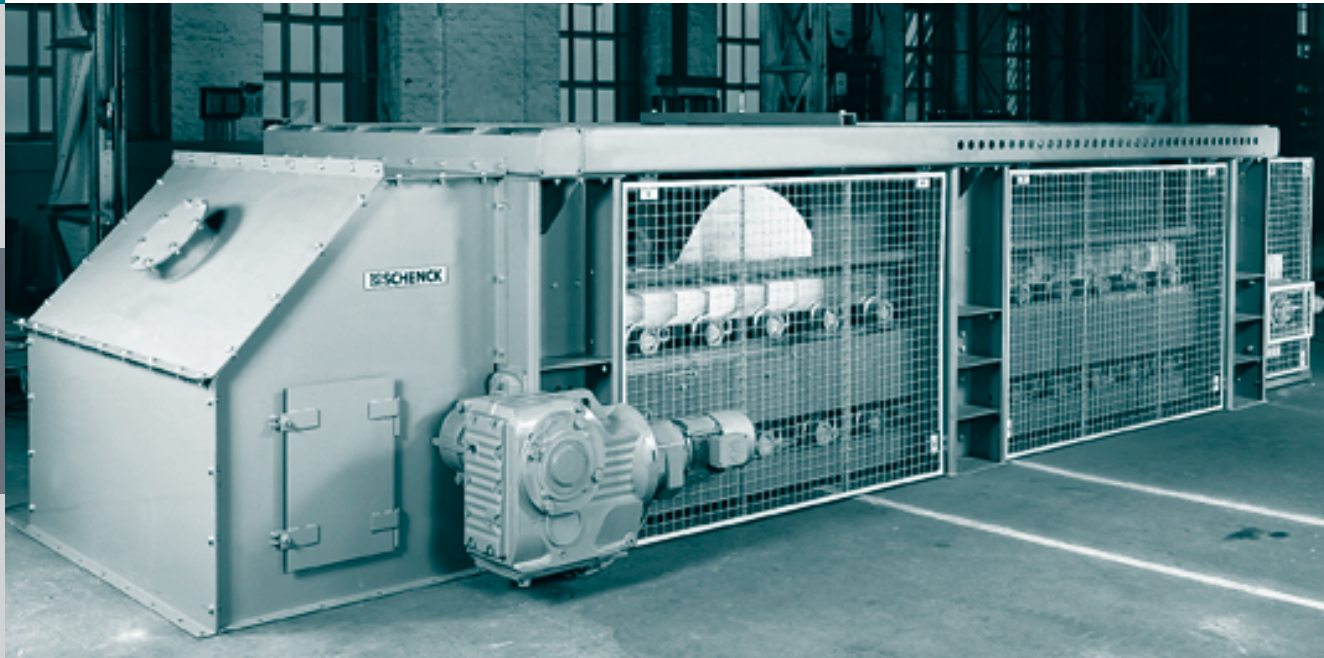


MULTIDOS® VDP

An apron weighfeeder for poor-flowing materials – because there's no such word as "impossible"

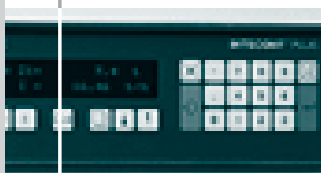


Schenck Process apron weighfeeders are used for continuous gravimetric feeding of poorly flowing bulk materials from silos. The MULTIDOS® system makes the impossible possible: it reliably feeds even "sticky" materials such as clay, marl, trass or sludge with the high accuracy a weighfeeder can provide. Extraction apron feeders used as prefeeders for conventional weighfeeders or volumetric prefeeders are no longer needed. Weighing technology integrated in the track allows VDP apron weighfeeders to perform both silo discharge and gravimetric feeding functions. This results in significantly better feeding accuracy compared with volumetric extraction apron feeders, which ultimately means a stable, repeatable improvement in quality in the mixing plants and an excellent return on investment.

Possible Applications

- ☒ Charging of raw and cement mills in cement plants
- ☒ Feeding of bauxite in aluminum plants
- ☒ Feeding of poor-flowing materials in mines and quarries
- ☒ Feeding of returns/sludges in metallurgical plants

More about INTECONT® PLUS electronics on pages 124–125



Advantages

- ☒ Combination of silo discharge and gravimetrically controlled feeding in one aggregate
- ☒ Low investment costs compared to separate aggregates
- ☒ Integrated heavy-load weighing technology ensures high feeding accuracy ($\pm 1\%$) related to the actual feed rate



Our Solution Package:

- ☒ Robust extraction apron feeder
- ☒ AC drive group with speed sensor for speed control
- ☒ Weighing technology integrated into the track mechanics
- ☒ Feed hopper
- ☒ Electronic measuring and control device
- ☒ Self-cleaning extraction plates minimize material loss beneath the apron weighfeeder
- ☒ Integrated pin gate in the frame
- ☒ Discharge aid roller to improve material discharge
- ☒ Scraper conveyor beneath the apron weighfeeder

(1) at $\gamma = 1.4 \text{ t/m}^3$

MULTIDOS® VDP				
Belt width in mm (inch)	1,000 (39.4")	1,200 (47.2")	1,400 (55.1")	1,600 (63")
Max. feed rate [t/h] ⁽¹⁾	300 (max. 220 m³/h)	430 (max. 310 m³/h)	575 (max. 420 m³/h)	665 (max. 475 m³/h)
Accuracy with respect to actual feed rate			$\pm 1\%$	
Adjustment range			1:10	
Removal cross-section, length-width [mm]	2,250 – 900	2,500 – 1,100	2,500 – 1,300	2,500 – 1,500
Available pulley centers for each belt width [mm]		5,120; 5,600; 6,080; 6,560; 7,040; 7,520; 8,000		
Options				
Pins for pin gates			☒	
Discharge-aid roller			☒	
Scraper conveyor			☒	