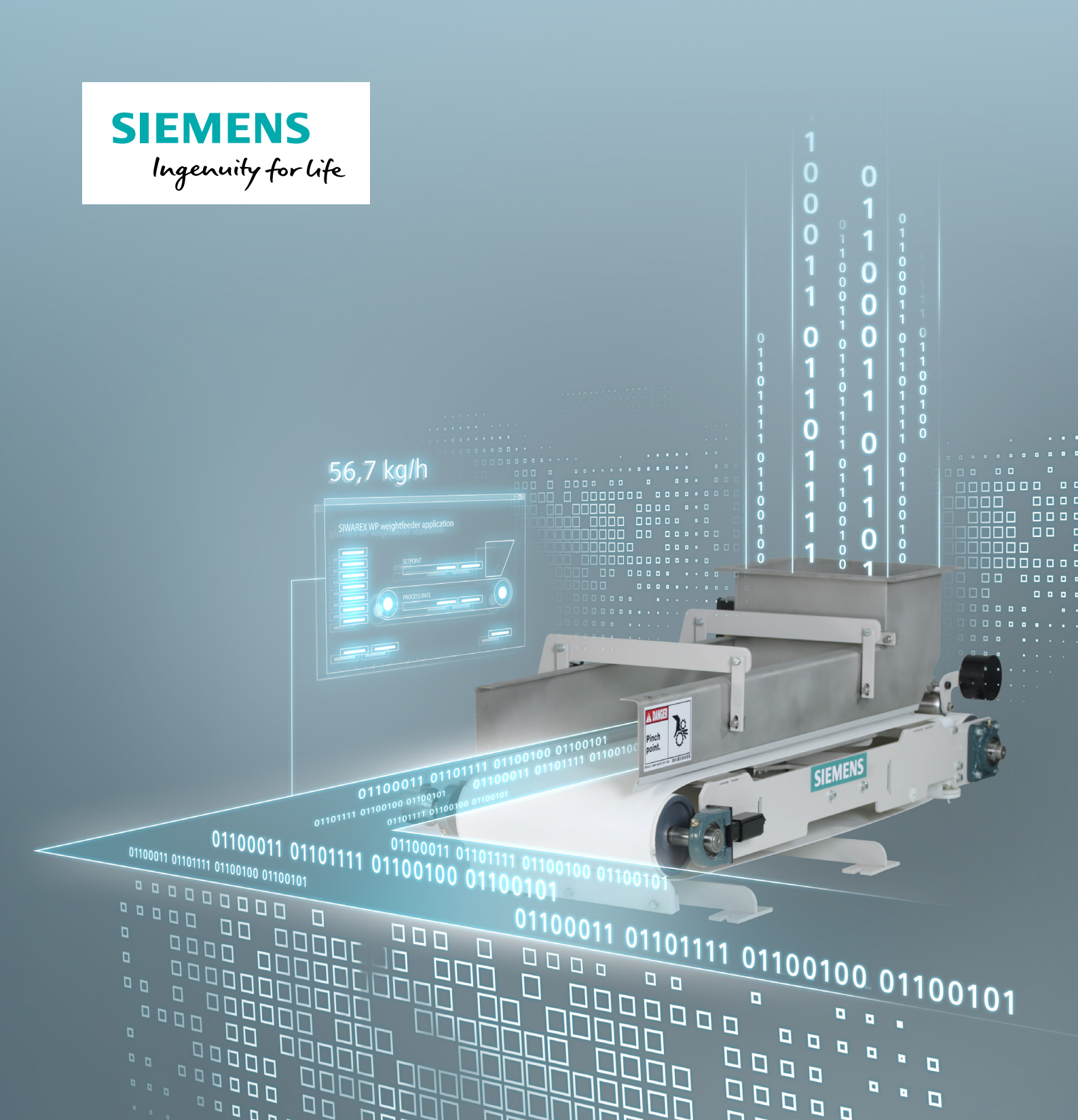
SIEMENS

Ingenuity for life



Continuous weighing and feeding

SITRANS WW100 and WW200 weighfeeders for accurate and reliable weighing and flow rate control of solids

siemens.com/weighfeeders

DASTEC S.R.L.

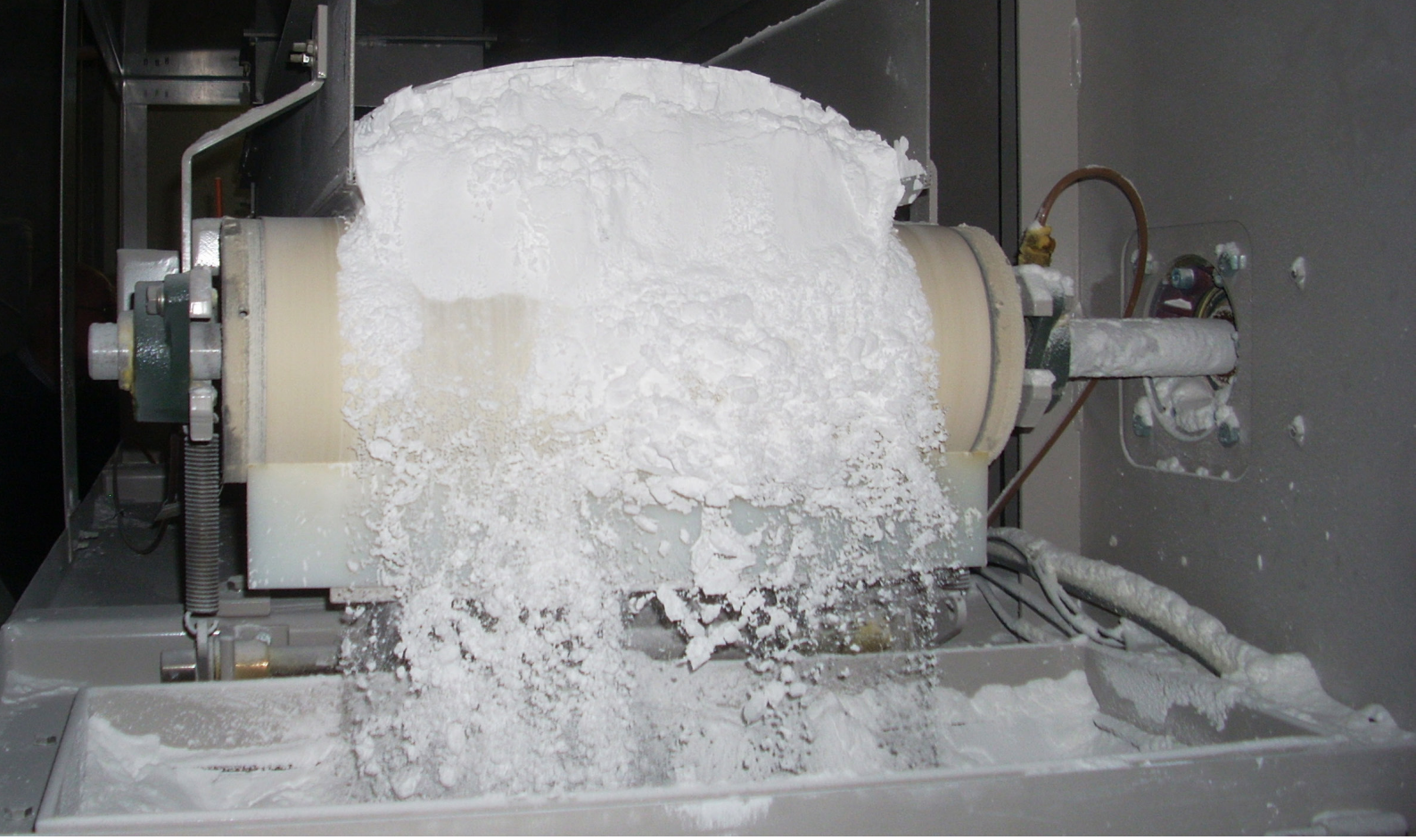
Representantes / Distribuidores Exclusivos

Argentina

Tel: (+54 11) 5352 2500

Email: info@dastecsrl.com.ar

Web: www.dastecsrl.com.ar



Siemens weighfeeders: Accurate weighing, made to order

Weighfeeders are short belt conveyors with an integrated weighing module to adjust the material flow rate to reach a predetermined setpoint. They offer rate of flow and totalized weight measurement as well as control of the flow rate without interrupting the flow of material in the process.

Mode of operation

In the infeed section of a weighfeeder is a hopper with an adjustable shear gate at the outlet. It profiles the material and fixes the correct material bed depth on the belt. This is determined by particle size, material density and the desired rate of flow. The material has to be fed into the hopper so as to ensure a sufficient fill level at all times. Hence, the flow of material can be controlled via the belt speed according to a given setpoint.

Typical industries

The Siemens SITRANS WW100 and WW200 weighfeeders are ideally suited for use in the food, animal and compound feed, pharmaceutical, water treatment and mineral processing industries.

Applications

- Weighing – delivers accurately weighing and totalizing of the flow rate, particularly for low capacities
- Dosing – controls the mass flow rate of material into or out of a process, e. g. to feed continuous blending processes
- Batching – load-out or filling functions using a preset batch, e. g. for big bag filling machines

SITRANS WW100

SITRANS WW100 is a high-accuracy, low-capacity weighfeeder used for minor ingredient additives. A gravity tensioner ensures constant belt tension and accurate weighing. With the weighfeeder's cantilevered design, the belt can be removed and replaced in only a few minutes.

SITRANS WW200

The SITRANS WW200 features a weigh deck with flat bars for belt support without any moving parts, considerably reducing maintenance and cleaning.

The WW200 can be adjusted for specific applications with different lengths, widths, enclosures, drives, and belt types.

Integrators and integration in SIMATIC

Siemens offers various integrators for the operation of the weighfeeders:

- SIWAREX WT241 – a comfortable stand-alone integrator for weighing and totalizing without rate control
- Milltronics BW500 – integrated PID control provides for autonomous rate control, also includes load-out control and various communication possibilities
- SIWAREX FTC and SIWAREX WP241 – seamless integration into SIMATIC S7 and PCS7, including rate control using special components in the process control system

	SITRANS WW100	SITRANS WW200
Flow rate*	45 kg/h ... 18 t/h (100 lbs/h ... 20 STPH)	0,45 ... 100 t/h (0,5 ... 110 STPH)
Capacity*	approx. 30 m³/h (1058 ft³/h) max	approx. 120 m³/h (4237 ft³/h) max.
Belt width	305 mm (12")	305 ... 1219 mm (12" ... 48")
Belt length optionally longer Centerline infeed ... centerline discharge	838 mm (33")	1321... 2946 mm, optionally longer (52" ... 116")
Measuring accuracy*	±0,25 ... 0,5%	±0,5% or better
Weigh bridge	• Long length platform weigh bridge • Single load cell	• Long length platform weigh bridge • Two outboard mounted load cells
Construction	• Stainless Steel 1.4301 (304) • Stainless Steel 1.4401 (316)	• Stainless Steel 1.4301 (304) • Stainless Steel 1.4401 (316) • Painted mild steel
Article number	7MH7180-...	7MH730.-...

*) depends on application

Follow us on:
twitter.com/siemenssensors
youtube.com/thinksiemens
facebook.com/siemenssensors

Editor
Siemens AG 2017

Process Industries and Drives
Östliche Rheinbrückenstr. 50
76187 Karlsruhe

Germany

Article No. PDPA-T10314-7600

Available as PDF only

Subject to changes and errors. The information given in this document only contains general descriptions and/or performance features which may not always specifically reflect those described, or which may undergo modification in the course of further development of the products. The requested performance features are binding only when they are expressly agreed upon in the concluded contract.

© Siemens AG 2017