

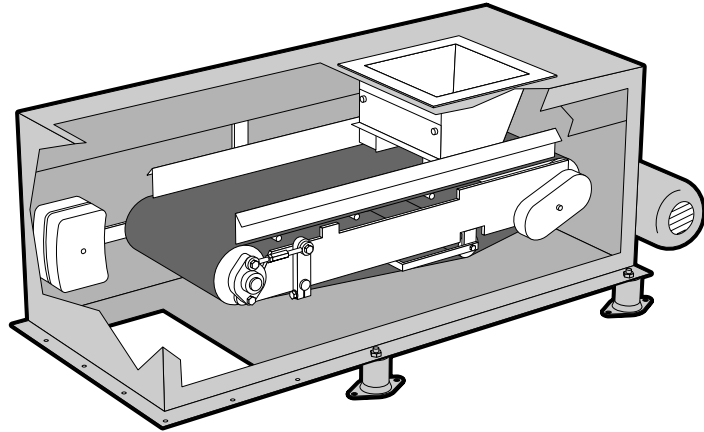
A Weigh-belt Feeder
 B Motor control
 C Microprocessor Controller
 → ext. communication

Each K-TRON SODER weigh belt feeder consists of the components A, B and C.

Component A is specified here.

Application

The weigh belt feeder together with an electronic control unit is an equipment for the continuous and gravimetric feeding of bulk materials. The same feeder can be used for batch feeding or the metering of a bulk material flow. The electronic control unit allows single or multicomponent controlling. There are interface modules available for installations with a computer system.



W300, standard, width of belt 300 mm

Design

The conveying belt and the weighing unit are mounted into a dustproof steel housing. The drive system consists of a DC-motor, the cyclo-gear and the chain drive, which allow any reduction. The endless woven Silicon belt is driven by a roller, weight-tensioned, automatically centered and cleaned by scrapers on the in- and outside. The drive roller is also scraped and the material is removed by a plastic screw. The belt can be exchanged easily. To determine the cross section of the bulk material flow the outlet slide gate can be adjusted. The weighing unit functions according to the "hard weighing principle" meaning practically deflection-free. This weigh-belt feeder is available in two sizes. The W300 has a belt width of 300 mm; the W600 a belt width of 600 mm. Larger models are also available upon request.

Feed Rate

The feed rate variation range is 1: 50 and within the maximum feed rate of the weigh-belt feeder.

Bulk density (kg/dm ³)		0.50	0.75	1.00
W300	kg/h	10 - 10'000	15 - 15'000	20 - 20'000
W600	kg/h	40 - 40'000	60 - 60'000	80 - 80'000

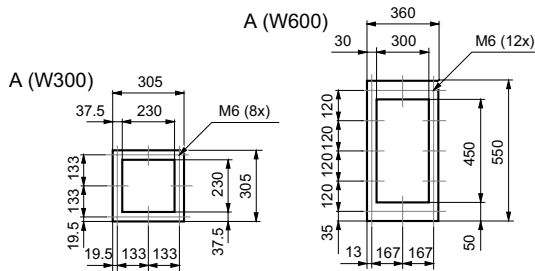
Technical Data

Motor: 0.45 kW, IP 55, direct current
 Gear: CYCLO
 Load cell: Operation temperature 0 - 50° C.
 If the temperature is higher or lower,
 there is the possibility to cool or to heat
 the weighing unit.
 Protection class of weighing unit: IP 65
 Material of housing: steel
 belt frame: alu-casting, anodized
 housing of load cell: alu-casting, anodized
 belt: Silicon or Nitril
 Housing, belt frame and housing of load cell are also available
 in stainless steel DIN 1.4404 / 1.4435, AISI 316L .
 Weight
 W300: 150 kg
 W600: 200 kg
 Paint: light grey RAL 7035

Options

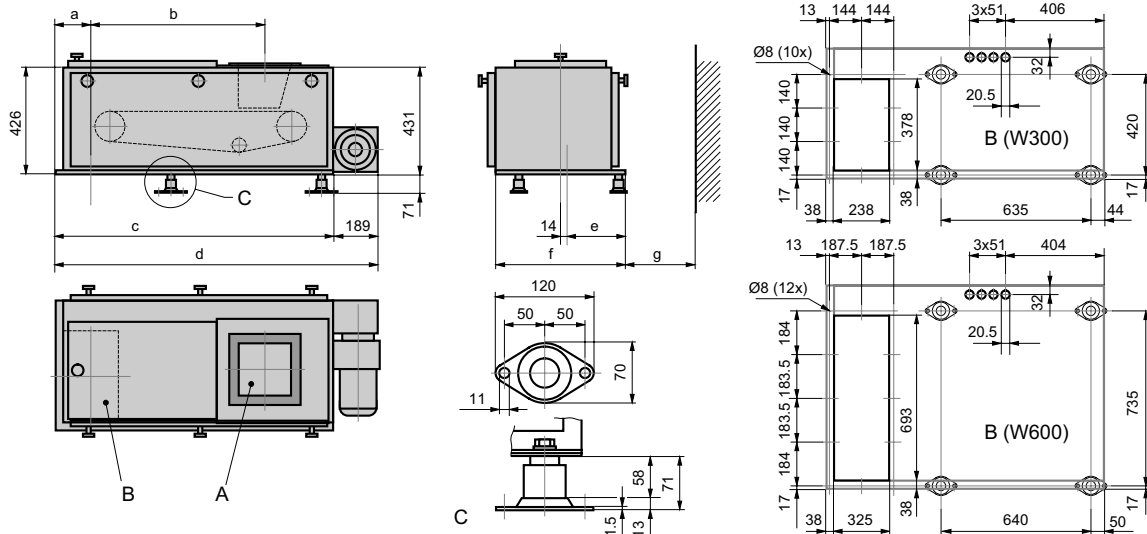
- 1 Drive motor explosion-proof IP 54, 0.55 kW, AC
- 2 Scale explosion-proof
- 3 Housing pressure-proof to 50 mbars
- 4 Shielded connection cable
- 5 Painting on request
- 6 Weighing unit with cooling device
- 7 Weighing unit with heating device
- 8 Inlet slide gate
- 9 Flexible inlet
- 10 Flexible outlet
- 11 Sampling valve with retaining spring
- 12 Sampling valve with pneumatic drive, incl. solenoid valve
- 13 Dust collecting chute
- 14 Dust collecting chute made of stainless steel
- 15 Flexible connection NW 76 to collecting hopper
- 16 Feeder stand
- 17 Feeder cart
- 18 Inlet hopper with vibration frame (for vibrated inlets)
- 19 Guide plate
- 20 Impact plate
- 21 Ventilation valve
- 22 Exhaust connection
- 23 70 l hopper
- 24 Spike roller for feeding of fibres
- 25 Window in service cover

Dimensions [mm]



Length and width [mm]

Type	a	b	c	d	e	f	g
W300	157	707	1164	1353	227	537	1000
W600	200	776	1255	1444	384	852	1300



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