

Options & Accessories

Total or partial stainless steel version



304 L stainless steel

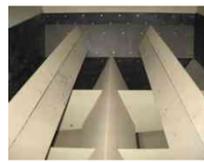
Upper and lower bin level checks



SCS system



Wear plates



Calibration kit



Standard weight lifting device



Explosive atmosphere



II 1/3 D
II 2/3 D

Votre spécialiste

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**PRECIA
MOLEN™**
WORLDWIDE WEIGHING

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ABS-XL Hopper scale

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Application

Discontinuous totaliser

Weighing of bulk products during loading, unloading, silo transfer, other transfers, etc.

The ABS-XL hopper scale is particularly appropriate for use on food plants, and with storage and port silos.

Presentation

The ABS-XL hopper scale is designed for process weighing of dry granulous products which flow well, such as cereals.

Together with the I 400 ABS instrumentation system, the hopper scale acts as a discontinuous totaliser with non-constant batch weighing.

Its simple and yet solid design makes for easy installation and maintenance.

The ABS-XL hopper scale comprises two main parts:

- A feed section which must be fitted under the product feed upper bin.
This section is equipped with one, two or three feed gates depending on the model.
- A weigh hopper supported by four load cells fitted on a rectangular frame.
This metal frame is supported by the floor or the support frame.
The weigh hopper is equipped with one, two or three discharge gates depending on the model.

Available models

Model	Flow (m ³ /h)	Flow* (t/h)	Max. capacity (kg)	SCS**	ATEX**
ABS-XL02	200	150	800	●	●
ABS-XL03	300	225	1200	●	●
ABS-XL04	400	300	1500	●	●
ABS-XL06	600	450	2500	●	●
ABS-XL08	800	600	3500	●	●
ABS-XL10	1000	750	4000	●	●
ABS-XL12	1200	900	5000	●	●
ABS-XL14	1400	1050	7500	●	●
ABS-XL16	1600	1200	10000	●	●
ABS-XL18	1800	1350	12000	●	●
ABS-XL20	2000	1500	15000	●	●

* Flow calculated for a specific product weight: 0.75 t/m³.

** Option

● Available

The weigh hopper can also be placed on eight load cells if the SCS system is used*.

In this case, the hopper scale is equipped with two sets of load cells (2 x 4 load cells).

The second measuring channel (slave channel) with four load cells is used to compare the results for the first measuring channel (master channel).

This system can identify if one or more load cells have drifted, and therefore reduced weighing accuracy.

The aim of the SCS system is to constantly guarantee the accuracy of the hopper scale.

The weighing cycle is managed by the I 400 ABS system, which controls the feed and discharge gates, via an electropneumatic control.

European conformity

- Directive 2006/42/EC on machinery
- Directive 2006/95/EC on Low voltage equipment
- Directive 2004/108/EC on Electromagnetic compatibility
- Directive 94/9/EC on ATEX atmospheres

Metrological certification

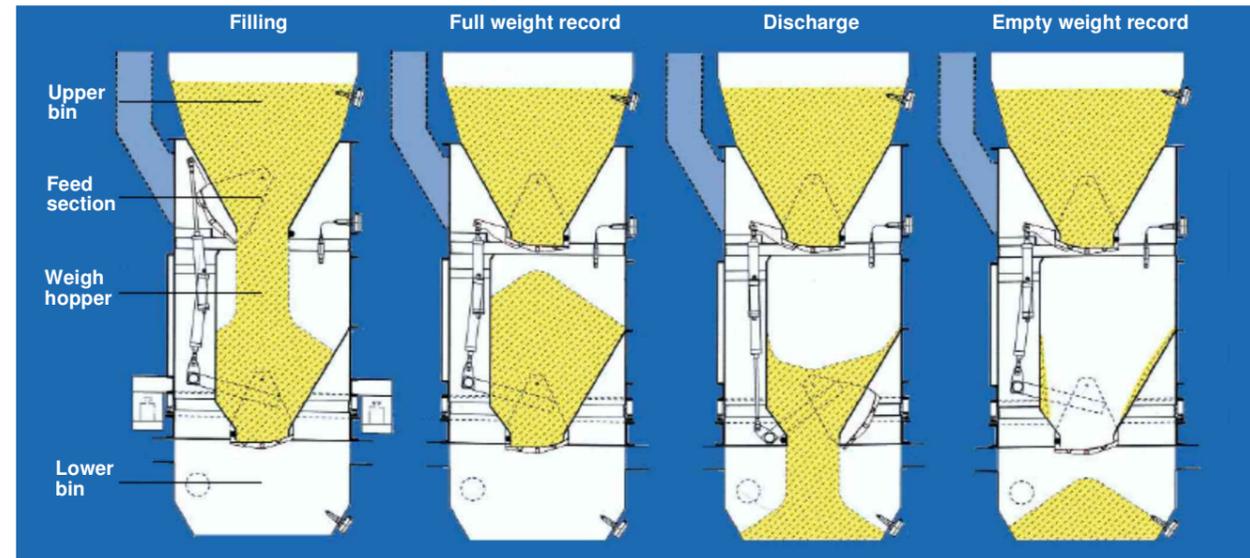
- MID directive 2004 / 22 / EC
- Accuracy class: 0.2 / 0.5 / 1 or 2.

* Self Checking Scale

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Operation



- ▼ **Filling**
The product flows from the upper bin to the weigh hopper with the opening of the feed gates of the feed section.
- ▼ **Full weight record**
The feed gates will close when the set weight is reached. The scale determines and saves the product weight in the weigh hopper.
- ▼ **Discharge**
The discharge gates of the weigh hopper open to evacuate the product to the lower bin.

- ▼ **Empty weight record**
When the weight of the weigh hopper indicates that the hopper is empty, the discharge gates close. The scale determines and saves the residual weight.
- The next cycle will start after the weight of the unloaded mass has been added to the total weight for previous batches. The cyclic operation will stop when all of the product to be weighed has been processed (in reception mode) or when the set weight is reached (in shipment mode).

Characteristics

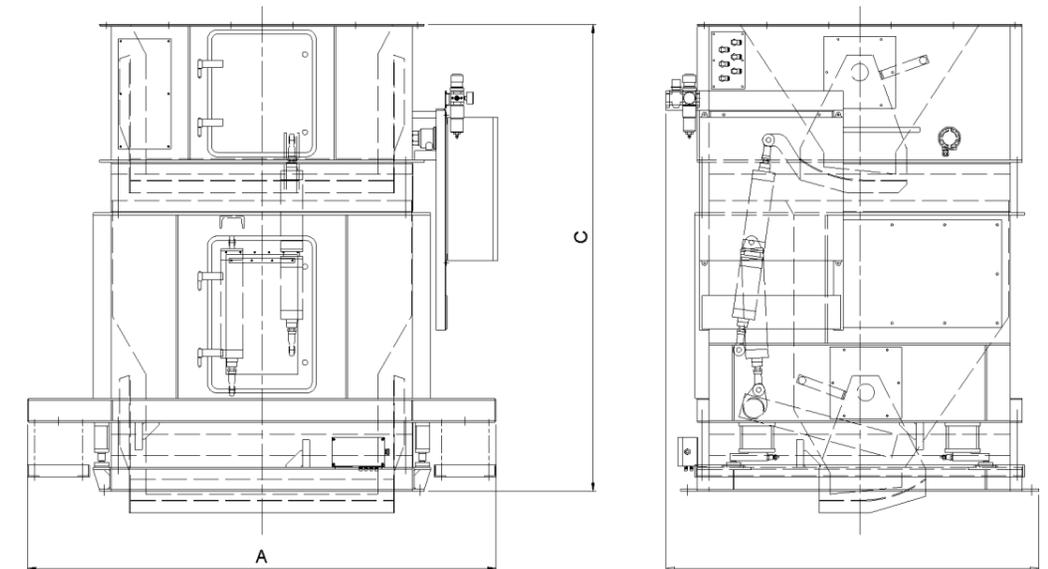
General characteristics

- ▼ Control and management by the I 400 ABS instrumentation system, with the transmitter fixed on the hopper. For more information on this system, consult technical data sheet 04-32-60 FT.
- ▼ Specific weight of the products weighed: 0.30 – 0.90 t/m³.
- ▼ Instrument accuracy: 0.1%.
- ▼ Hopper adapted for internal use within a temperature interval of -10 to +40°C.
- ▼ Hopper scale certified for use in a dusty ATEX atmosphere, for internal zones 21 or 20 and external zone 22.
- ▼ Manufactured in painted steel, colour RAL 1013.

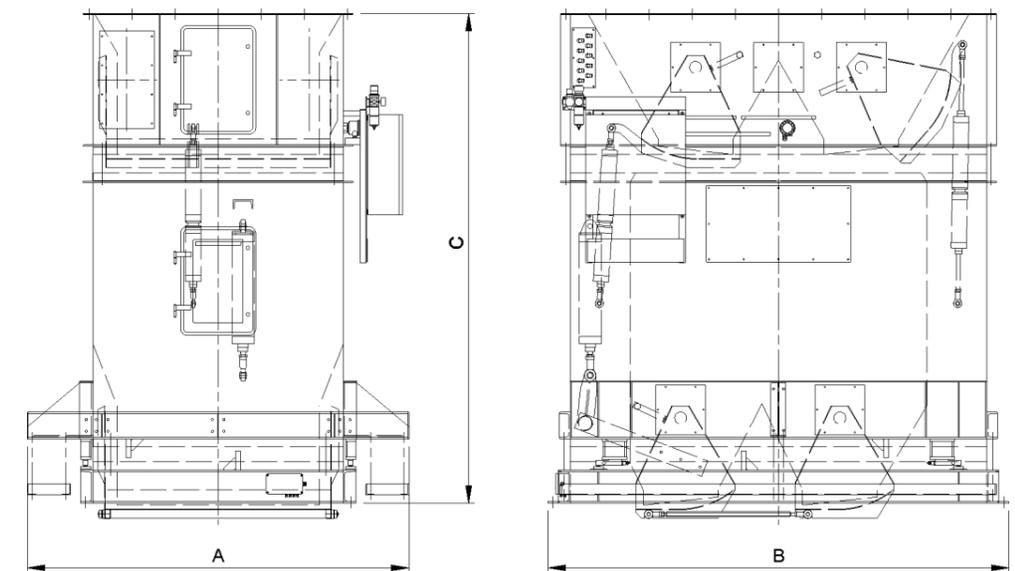
Technical characteristics

- The quality of the construction of our hopper scales combined with the supply of electrical and mechanical components which comply with ISO standards guarantees that our units are:
- robust
 - reliable
 - accurate
 - easy to maintain.
- ▼ Feed and discharge gates fitted on ball bearings.
 - ▼ Stainless steel feed and discharge gate blades (AISI 304).
 - ▼ Load cell cables protected from damage by rodents with a set of metal plates.
 - ▼ Easy calibration and checking as the support racks for the test weights are attached on either side of the weigh hopper.

Dimensions and weights



Model	A (mm)	B (mm)	C (mm)	Weight (kg)
ABS-XL02	1960	1558	1950	1160
ABS-XL03	2160	1558	2250	1340
ABS-XL04	2210	1829	2600	1810



Model	A (mm)	B (mm)	C (mm)	Weight (kg)
ABS-XL06	2300	2760	2400	2990
ABS-XL08	2300	2760	2950	3210
ABS-XL10	3244	2760	2500	4230
ABS-XL12	3244	2760	2850	4495
ABS-XL14	3244	2760	3500	4985
ABS-XL16	3244	2760	4000	5305
ABS-XL18	3244	2760	4750	5985
ABS-XL20	3244	2760	5650	6585