

Model	A (mm)	B (mm)	C (mm)	D (mm)	Weight (kg)	
					Standard	SCS
ABS-XL 02	2010	1620	1950	91	1070	1095
ABS-XL 03	2210	1620	2250	91	1231	1250
ABS-XL 04	2265	1880	2600	92	1675	1695
ABS-XL 06	2310	2780	2400	75	2615	2645
ABS-XL 08	2310	2780	2950	72	2845	2865
ABS-XL 10	3244	2758	2500	66	3720	3761
ABS-XL 12	3244	2758	2850	66	3960	3980
ABS-XL 14	3244	2758	3500	67	4427	4426

Model	A (mm)	B (mm)	C (mm)	D (mm)	Weight (kg)	
					Standard	SCS
ABS-XL 16	3244	2758	4000	66	4745	4775
ABS-XL 18	3244	2758	4750	29	5450	5510
ABS-XL 20	3244	2758	5650	29	6045	-
ABS-XL 22	3244	4008	3875	36	6870	-
ABS-XL 27	3244	4008	4950	36	7840	-
ABS-XL 33	3244	4008	6480	36	8820	-
ABS-XL 40	3244	6240	5600	25	11960	-

Options & Accessories

Total or partial stainless steel version



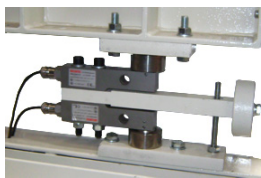
304 L stainless steel

Upper and lower bin level checks

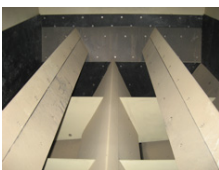


For upper and lower hoppers

SCS system



Wear plates



Calibration kit



Standard weight lifting device



Explosive atmosphere



Your specialist

Non contractual illustrations. Precia-Molen reserves the right to alter the characteristics of the equipment described in this brochure at any time.

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ABS-XL
Hopper scale



Note: the model presented is equipped with the option "Device for on-board weights".

Available models

Model	Flow (m³/h)	Flow* (t/h)	Max. capacity (kg)	SCS**	ATEX**
ABS-XL 02	200	150	800	●	●
ABS-XL 03	300	225	1200	●	●
ABS-XL 04	400	300	1500	●	●
ABS-XL 06	600	450	2500	●	●
ABS-XL 08	800	600	3500	●	●
ABS-XL 10	1000	750	4000	●	●
ABS-XL 12	1200	900	5000	●	●
ABS-XL 14	1400	1050	7500	●	●
ABS-XL 16	1600	1200	10000	●	●
ABS-XL 18	1800	1350	12000	●	●
ABS-XL 20	2000	1500	15000	●	●
ABS-XL 22	2200	1650	15000	●	●
ABS-XL 27	2700	2025	20000	●	●
ABS-XL 33	3300	2475	25000	×	●
ABS-XL 40	4000	3000	30000	×	●

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

Metrological certification

- Compliant with the MID European Directive relative to Automatic Weighing Instruments (AWI).
- Accuracy class: 0.2 / 0.5 / 1 or 2.

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 automatic hopper or process weighing of dry granular products which flow well, such as cereals.

Together with the I 410 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.

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.

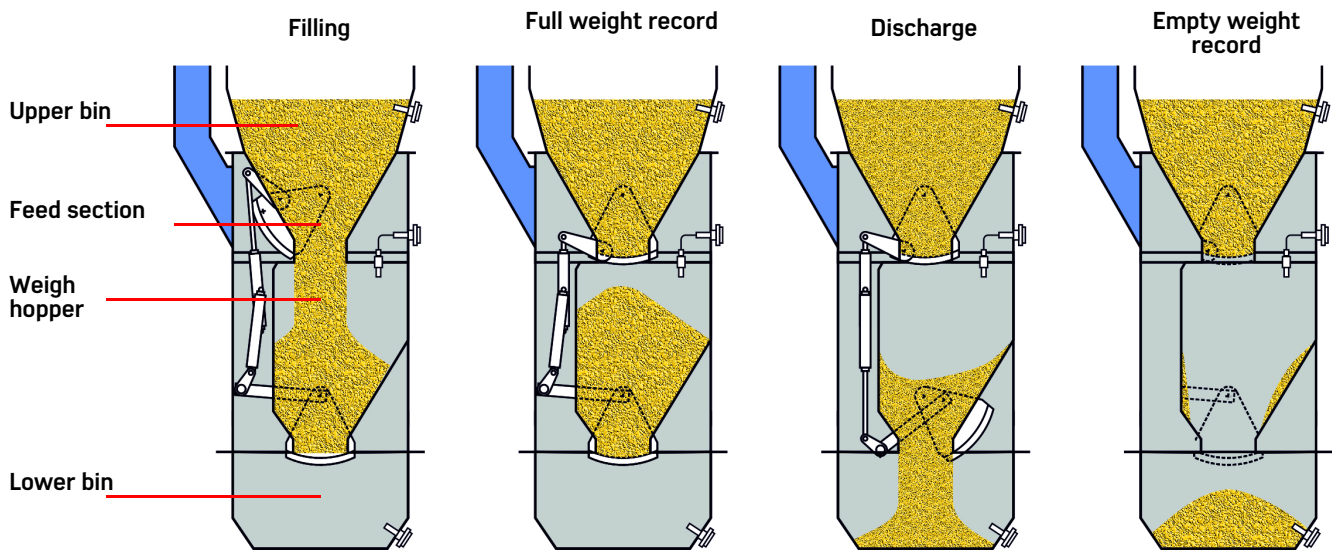
The weighing cycle is managed by the I 410 ABS system that controls the feed and discharge gates, via an electropneumatic command. For further information on this system, please see 04-41-60 FT datasheet.

Conformity

- Compliant with the European Directive relative to Electro-magnetic Compatibility.
- Compliant with the European Directive relative to Low Voltage equipment.
Compliant with the European Directive relative to Machines.
- Compliant with the ATEX European Directive relative to protection devices and systems designed for use in explosible atmospheres and with IECEx standards.

* Self Checking Scale

Operation principle



- ▼ 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

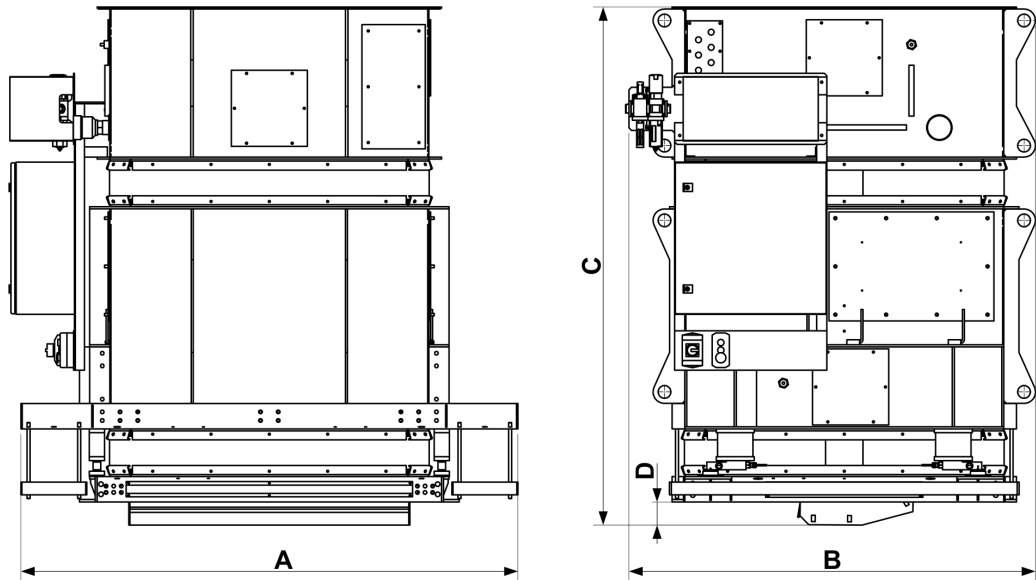
- ▼ Control and management by the I 410 ABS instrumentation system, with the transmitter fixed on the hopper. For more information on this system, consult technical data sheet 04-41-60 FT.
- ▼ Specific weight of the products weighed: 0.30 – 0.90 t/m³.
- ▼ Weighing accuracy: $\pm 0.1\%$.
- ▼ Compact scale.
- ▼ 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 5012.

Technical characteristics

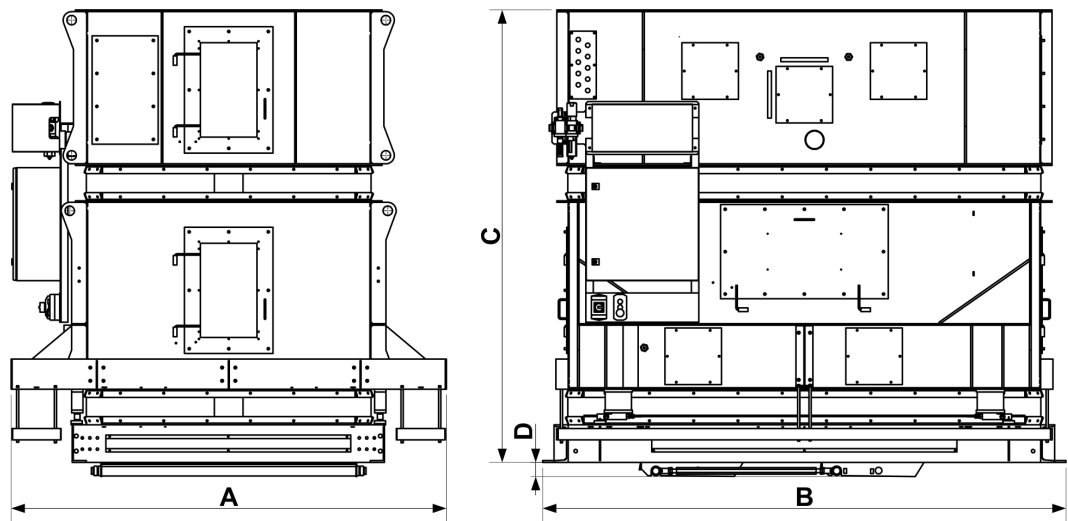
- The quality of the construction of our hopper scales combined with the supply of electrical and mechanical components which comply with ISO standard guarantees that our units are:
- robust
 - reliable
 - accurate
 - easy to maintain.
- ▼ Feed and discharge gates fitted on ball bearings.
 - ▼ Stainless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

Dimensions and weights

ABS- XL 02/03/04



ABS-XL 06/08/10/12/14/16/18/20



ABS-XL 22/27/33

