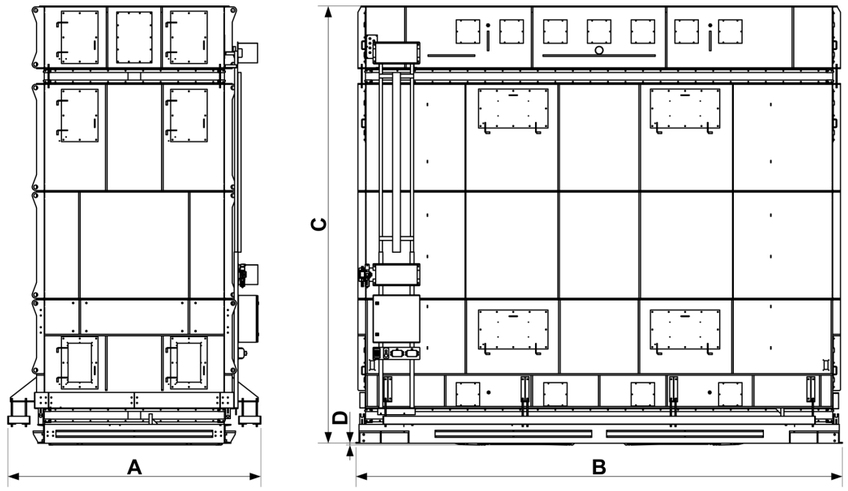
## ABS-XL 40




| Model | A (mm) | B (mm) | C (mm) | D (mm) | Weight (kg) Standard | Weight (kg) 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 | Weight (kg) 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**

II 1/3 D

**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 ($m^3/h$) | 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.

## CE Conformity

- Compliant with the European Directive relative to Electromagnetic 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*

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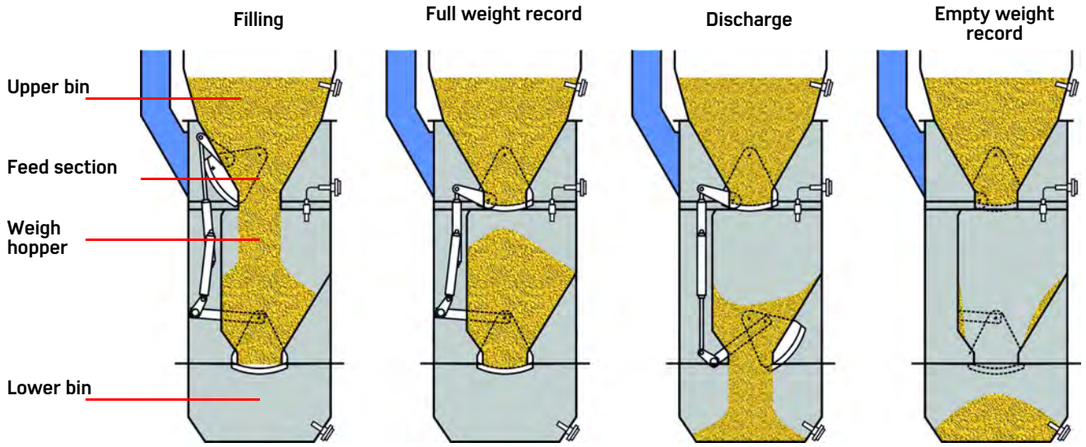
11-40-12-1 FT C - 01/2017

# 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/m$^3$.
- Weighing accuracy: ± 0.1%.
- Compact scale.
- Hopper adapted for internal use within a temperature interval of -10 to +40ºC.
- 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

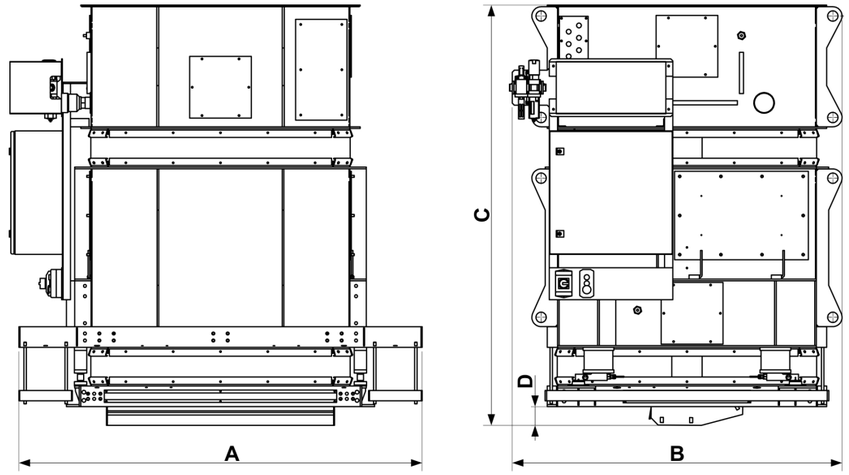
The quality of the construction of our hopper scales combined with the supply of electrical and mechanical components which comply with ISO standard guarantees that our units are:

- robust
- reliable
- accurate
- easy to maintain.

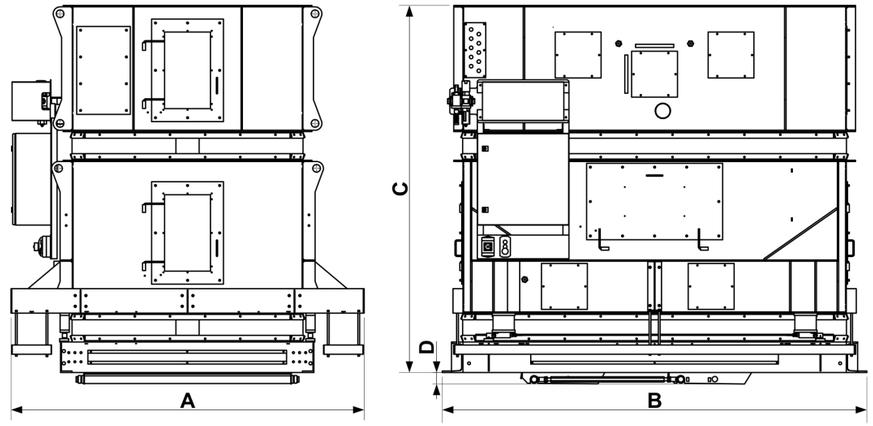
- Feed and discharge gates fitted on ball bearings.
- Stainless steel feed and discharge gate blades (AISI 304).
- Load cell cables protected from damage by rodents.
- Easy calibration and checking as the support racks for the test weights are attached on either side of the weigh hopper.

# Dimensions and weights

## ABS- XL 02/03/04




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




## ABS-XL 22/27/33