

General

This infrastructure with several weighing stations (2, 3 or more) is fitted on our integrating belt scales intended for trade use (Class 1). It is associated with the ROL400 TC electronic unit.

Model approval decision N° 0000 671 1.1 du 13/12/2000.

General presentation

The TAB infrastructure is composed of :

- A rigid chassis supported on the conveyor frame.
- A weighing table composed of two longitudinal members braced by two bucket roller stations, with a design adapted to weighing (stiffness).
- The lower part of the notches into which the rollers forming the bucket are positioned is equipped with an integrated screw system for adjustment of the roller height (alignment with upstream and downstream stations in the weighing area).
- Four strain gauge cells, from which the weighing table is suspended through four suspension rods : these rods are fitted with clevis + needle-bowl devices providing the connection between the chassis and the load cells.
- One set of counter beams immobilising the weighing table in the horizontal plane.
- One blocking device for transport.

Note : The weighing table is provided with lateral supports for placement of test weights for simulation of the load during calibration.

Our infrastructures do not have any articulation or lever, which enables high precision and facilitates maintenance.

Ease of calibration by the use of standard trade weights; the value of calibration weights applied on the infrastructure actually represents the value of the weight on the belt.

Made of steel + EPOXY paint - Partial or table stainless steel version - Aluminium version on request.

Installation

The TAB infrastructure can be adapted to all types of conveyors (chassis, sections, sheet metalwork, tubular, lattice) regardless of the belt length, the flow, speed. No cut out necessary on the conveyor frame.

Applications

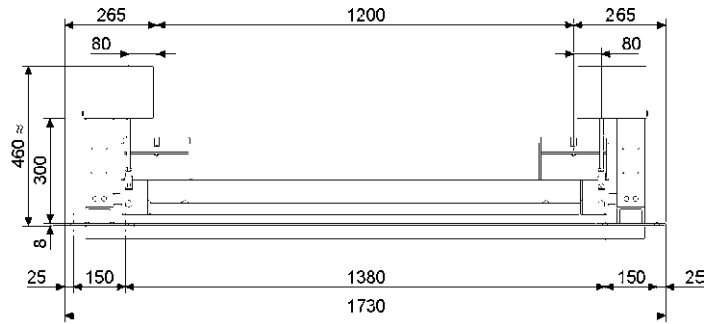
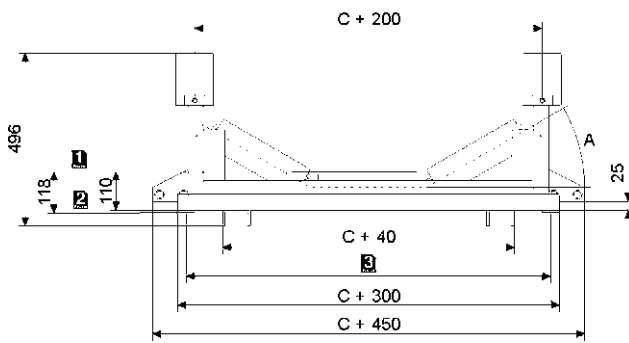
- Dynamic weighing - Integrating belt scale for use in class 1 trade transactions.
- For all conveyors with belt width 400 to 2000 mm (other widths available on request).
- Flow up to 4000 t/h.
- Maximum precision : + 0,5 % within the measurement range 20 to 100% of the maximum flow provided that standard NF H 95320 is respected; material tests are essential to guarantee precision.

Note : Possibility of achieving $\pm 0,2$ % under some conditions (see STANDARDS section on back).

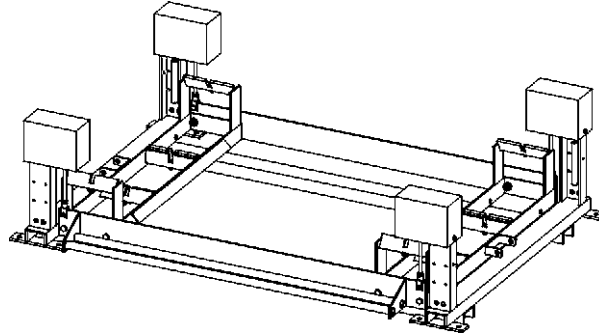
Range

Type	Belt width	Ø roller
TAB2 4 ou 3	400 mm	89 mm
TAB2 6	600 mm	89 mm
TAB2 8	800 mm	89 mm
TAB2 10	1 000 mm	89 mm
TAB2 8 ou 3	800 mm	133 mm
TAB2 10	1 000 mm	133 mm
TAB2 12	1 200 mm	133 mm
TAB2 14	1 400 mm	133 mm
TAB2 16	1 600 mm	133 mm
TAB2 8 ou 3	800 mm	133/159 mm
TAB2 10	1 000 mm	133/159 mm
TAB2 12	1 200 mm	133/159 mm
TAB2 14	1 400 mm	133/159 mm
TAB2 16	1 600 mm	133/159 mm

Assembly - Layout



- 1 Belt underside.
- 2 Placement plane.
- 3 Centre to centre $\varnothing 14$ attachment to be drilled on the chassis tr holes : C + 250.



Dimensions - Layout for TAB with 2 drives $\varnothing 89$ rollers

Standards

The following data must be respected to use dynamic weighing on a belt in Trade Use :

- A 20° bucket (30° with waiver)
- C/C distance between 12 and 60 m
- Automatic belt tension
- Inclination 0°, up to 6 or 7° by waiver, provided that the product does not slip on the belt.
- Wind protection cover, if applicable.
- An automatic taring system (daily taring).
- A bypass circuit for material test.
- An inspection crane overhauled within less than 12 months, with a totalisation graduation less than 1/5 of the quantity of the material to be checked.
- Minimum totalisation quantity equal to 200 times the increment.
- Divisions between 1/50000 and 1/2000 maximum flow

- A test at 80% and a test at 50% of the maximum requested flow.
- A periodic annual check by an approved organisation
- A straight end-to-end conveyor with no side edges/BI.
- Feed at a distance equal to 5 times the speed at the beginning of the weighing area.
- A straight bucket (not trapped) on each side of the weigh scale.
- A six-point alignment of the rollers for three buckets on the upstream and downstream sides of the integrating belt scale. The rollers must have drilled and tapped axles for this purpose.
- The spacing between stations must be 1,2 m or 1,5 m.
- The speed sensor will be made on the driven drum or the automatic tensioning inflexion drum.

Material tests in accordance with French standards NF H.95-320, are essential to guarantee the stated precision.

Options & Accessories

- Set of six drilled and tapped roller axles (for TAB infrastructure)
- 6 fixed stations (3 upstream - 3 downstream from the weigh scale).
- Set of 18 drilled and tapped roller axles (for 6 fixed stations).

Your weighing specialist

Illustrations are not contractual. Precia-Molen reserves the right to modify at any time, without prior notice, the information contained in this leaflet.

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