

Assembly Instructions

Trough-type screw
conveyor,



vanBeek
De norm in schroeftransport

November 2, 2010

Assembly Instructions

In case of questions, problems or faults please consult:

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In this case please give the following information:

Type:

Serial number: 600617.A

Construction year: 2010



This installation documentation is only valid for the system with serial number:600617.A

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Introduction

This installation manual belongs to a **van Beek B.V.** Trough-type screw conveyor, with serial number: .

Check the transport system on delivery for damage; this may have occurred during transport and/or storage. Look to see that no parts are missing. Consult **van Beek B.V.** immediately after delivery if any shortages are found.

Before installation and connection, for safety reasons, you should read the whole of this installation manual. Only when all the instructions have been followed will the system be fit for use and comply with the machinery directives indicated in the declaration supplied with it. Before the system is actually taken into use, for safety reasons, you should read the whole of the Installation and maintenance instructions.

This manual draws your attention to hazardous situations. These warnings are set out as follows. Please always take them into account.

Warning

Warning Warning Warning Warning Warning Warning Warning
Warning



Positioning

2.1 Weight

The empty weight of the system is determined by **van Beek B.V.** at 375. This weight is also indicated on the name plate. Check the weight on the system name plate, should this differ from the weight in this manual, then the weight on the system name plate is a guide.



Figure 2.1: Type plate

2.2 Lifting the Trough-type screw conveyor

2.2.1 Lifting straps

If the system has no lifting lugs present the system can be moved with lifting straps. The lifting straps should only be attached at the points indicated. The

points from which the system can best be lifted are marked with the sticker shown in Figure 2.2.



Figure 2.2: Lifting strap attachment sticker

Installing the system

3.1 Support

If the system is fitted with support points/brackets, the system should be supported on these.

Warning

While being secured the system may not be under tension.



The body and the screw of the system are aligned by Van Beek so the screw does not run out of true. To ensure that the system remains properly aligned the installation points should be levelled so that no strain is put on the body. You must properly tighten the bolt connections and check them regularly.

3.2 Connecting inlet and outlet

The system may have several inlets and outlets. Through these inlets and outlets there is access to the screw, which is very dangerous because it rotates when the machine is in operation. Because the system is intended for installation as part of an assembly **van Beek B.V.** cannot ensure that these inlets and outlets are adequately protected. Upon installation it should be ensured that all the inlets and outlets are secured to prevent a person coming into contact with a rotating screw.

If the system is installed, but one or more of the inlets or outlets is not connected to peripheral equipment this inlet or outlet should be guarded to prevent a person coming into contact with a rotating screw. A blind flange that is fixed to the inlet or outlet is recommended. If the inlet and/or outlet is protected with a removable guard, this must be fitted with an electronic safety device so that the screw is turned off immediately if the guard is removed.

Warning

The system may not be taken into use until all access to rotating parts is adequately guarded. Until then the complete installation will also not comply with the machinery directive.



Connecting the system

4.1 Manual testing

Before the system is connected to the electrical supply it is sensible first to run the system empty for a test run. For smaller machines this can be done by hand. For big machines it is sensible to do this at low speed. This is to check that the system has been properly installed and is not running out of true. If the system has been connected to the electrical supply and something is unfortunately not right, the system may be seriously damaged.

4.2 Connecting the motor

The motor should be connected in accordance with the manufacturer's instructions. Consult the manual for this.

4.3 Connecting air

The system is fitted with various elements that must be supplied with air. Connect the air lines to an air circuit. Ensure that the pressure corresponds to the pressure indicated on the system. The pressure is marked on a sticker like the sample sticker in Figure 4.1.

A dark blue rectangular sticker with the text "AIR 0.02 MPA" in white, sans-serif font.

Figure 4.1: Sample sticker for pressure indication

If control valves are fitted on the air supply to the system these should be included in the system controls.

Atex measure

In special cases, in particular when the air is intended as zone separation, the presence of sufficient air pressure should be monitored.



4.4 Connecting lubrication lines

The system is fitted with various elements that must be greased. If these points are at places which are difficult to access, we recommend that a lubrication line be fitted to these points. The points that have to be lubricated are marked with a sticker as in Figure 4.2).



Figure 4.2: Lubrication point sticker

Atex measure

In special cases, in particular if the grease is intended as zone separation, the presence of sufficient grease should be monitored.



4.5 Sensors

The system may be designed with one or more sensors or switches. These should be connected in accordance with the manufacturer's instructions.

600617.A - Declaration of incorporation

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Declaration of incorporation

(Directive 2006/42/EC, art. 13 sub 1c and Annex II B
for partially completed machinery)

Manufacturer,

Van Beek B.V.
Lipsstraat 42
5151 RP Drunen
The Netherlands

Declares that the machine specified by:

Doseerder type 250/100 RVS 304
Serial: 600617.A

Is a partly completed machine, in accordance with Article 1.g of Directive 2006/42/EC (her on after named: directive) and complies with the Essential Health and Safety Requirements in accordance with Annex I of the directive, provided that the machine is incorporated as specified in the appended assembly instructions (in accordance with annex VI of the directive).

It is prohibited to utilize the partly completed machine as long as the machine in which the partly completed machine has been incorporated has been declared to comply with the directive.

The requirements specified in the directive are fulfilled in accordance with the following standards:

EN 12100-1
EN 12100-2

A technical file of the specified machine has been compiled in accordance with annex VII part B of the directive. This file will be transmitted to the national authorities in response to a reasoned request referring to the serial number. The file will be supplied in digital form.

As stated on: : 02-11-2010, Drunen
Quality control : P.P. Rutten

