

BESTREACH

TELESCOPIC CONVEYORS

BEST[®] **CONVEYORS**

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Installation Guide

Company Name :

Ship/Install Date :

Model Number :

Job Number :

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Appendices:

- Rail Installation Drawing and Instruction
- General Assembly and Site Installation Drawing
- Electrical Drawings
- Third Party Manufacturers Instructions

Site Requirements

Clear Access: A Telescopic Boom Conveyor (TBC) will normally be shipped using a flat bed truck. The installer should ensure that there is clear and safe access to the loading dock before the delivery is due to arrive.

Installation Area: The installation area should be cleared of debris and obstructions. All unauthorised personnel should be kept clear of the area during the installation process.

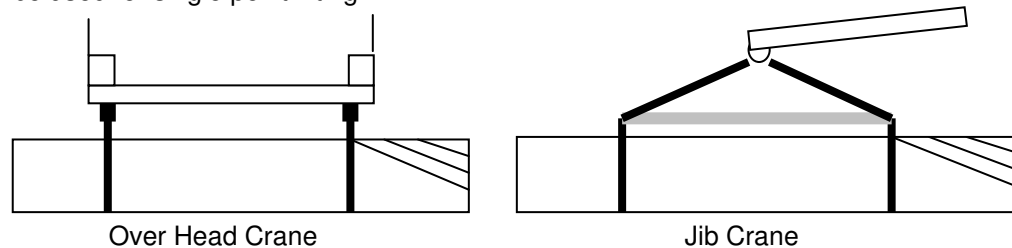
Floor: Ensure that the floor in the dock area is suitable to accept the high applied load of a TBC and can accept the floor fixings required.

Electrical Supply: Ensure that the required electrical supply is available for connection before the delivery is due to arrive. Check with Best Conveyors for details of electrical requirements for each installation.

Lifting and Moving

A TBC is a large and heavy machine. Lifting and moving of these items should only be attempted by persons who are experienced in heavy goods handling.

Crane: A TBC machine may be lifted using a sufficiently load rated crane. Ensure that soft slings are used or that sufficient protection is applied to the TBC to prevent damage during lifting. Ensure that the slings are positioned well to provide a stable lift. Spreader bars should be used for single point lifting.



Fork Lift Truck: If a fork lift truck (FLT) of sufficient capacity is available it may be used to lift and manoeuvre the TBC. Ensure that care is taken not to damage the TBC during lifting.

Skates: A TBC may be manoeuvred over flat ground using heavy duty skates. The TBC may be lifted onto the skates using appropriate lifting equipment (FLT, Crane, Jacks, etc).

Floor Fixing

A dock mounted TBC or tilt frame is generally fixed to the floor using M16x120 expanding floor bolts. Each screw should be tightened to **120Nm** torque.

Rails

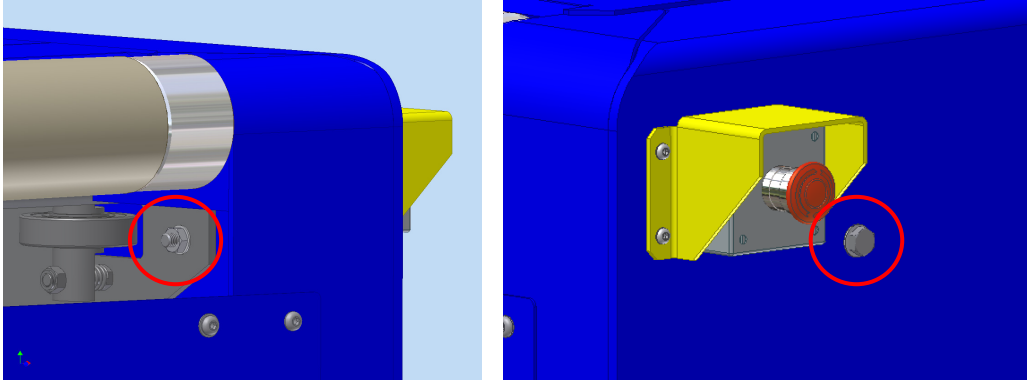
Floor rails may be required for traversing TBC machines.

Surface mounted rails should be installed prior to TBC installation.

Embedded floor rails will require civil engineering works (normally carried out by a third party) to prepare the floor for installation and to level the floor with grout or resin after installation. (See drawing RI 001 for details and dimensions).

Transport Bolt

Each TBC is fitted with a transport bolt to prevent extension during shipping. Ensure that the transport bolt is removed before powered extension is attempted. The rear access cover will need to be removed to carry out this removal. The transport bolt provides a fixing through stages 1 and 2.



Power Connection

Electrical power is connected to the TBC via the main isolator which is situated inside the main electrical cabinet. (Refer to electrical drawing 1) Ensure that power connection is carried out by an appropriately qualified engineer and that all safety precautions are taken. Check motor directions after connection.

Cable Reel Drum: When the power supply is connected through a cable reel drum the cable must be secured to ensure that cable tension does not apply load to the connection terminals. Ensure that the cable payout is sufficient to allow for the specified traversing distance.

Bus Bar and Catenary: The bus bar/ Catenary support structure must be installed straight and level in accordance with the general layout drawing provided. Follow the bus bar/Catenary manufacturer's installation instructions.



Cable Reel Drum



Bus Bar

Auxiliary Connections

Any auxiliary electrical connections should be made. To check requirements refer to the project specification and associated electrical drawings.



Commissioning

Each machine should be thoroughly checked following installation and before use. Pre-operational and operational check procedures may be found in the Operational Guide provided.