

USER'S MANUAL

Roller Racking



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Before You Start

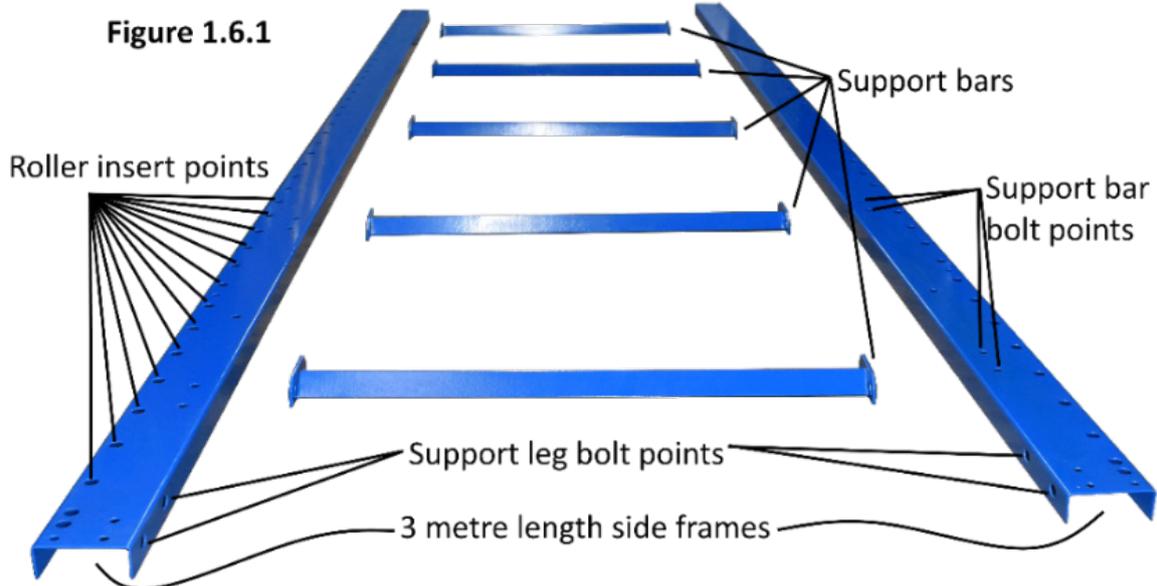
Assembling and setting up the DISCOVERER® Roller Conveyor products requires **at least two able-bodied persons**, and the following equipment:

- **Hammer**
- **Socket or spanner set**
- **Drill**
- **Lifting trolley or jack**
- **Gloves**

Create a **Conveyor Layout Plan** to follow, with details of where each conveyor piece is to be located.

Please ensure you are familiar with using the above equipment and have read through the instructions thoroughly before assembling the DISCOVERER® Roller Conveyor products. Note that some of the products are heavy and need to be handled safely, using appropriate devices to prevent manual handling strains and injuries. Be aware of pinch points and make sure gloves are worn.

Conveyor Frame & Support Leg Assembly



***The conveyor frame comes pre-assembled*

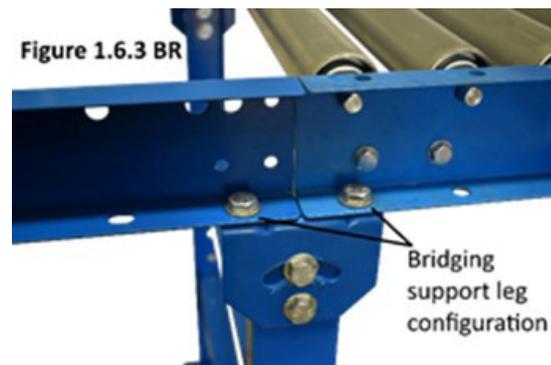
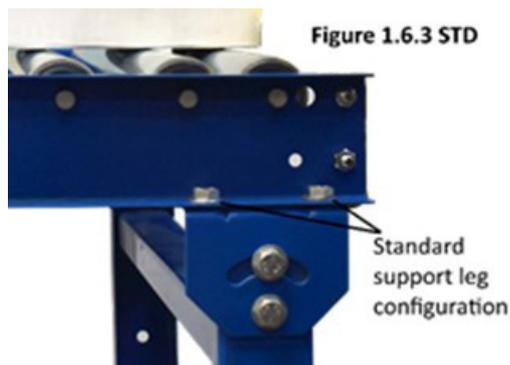
ASSEMBLY INSTRUCTIONS

Conveyor frames are supplied with rollers fitted, unless otherwise requested

1. Set support leg heights and note angle adjustability at top of support leg (Fig. 1.4.3).



2. Following conveyor layout plan, determine support leg location along each frame, and configuration type:
 - i. Standard configuration – support leg bolted to single frame section (Fig. 1.6.3 STD).
 - ii. Bridging configuration – support leg bolted to two frame sections (Fig. 1.6.3 BR).



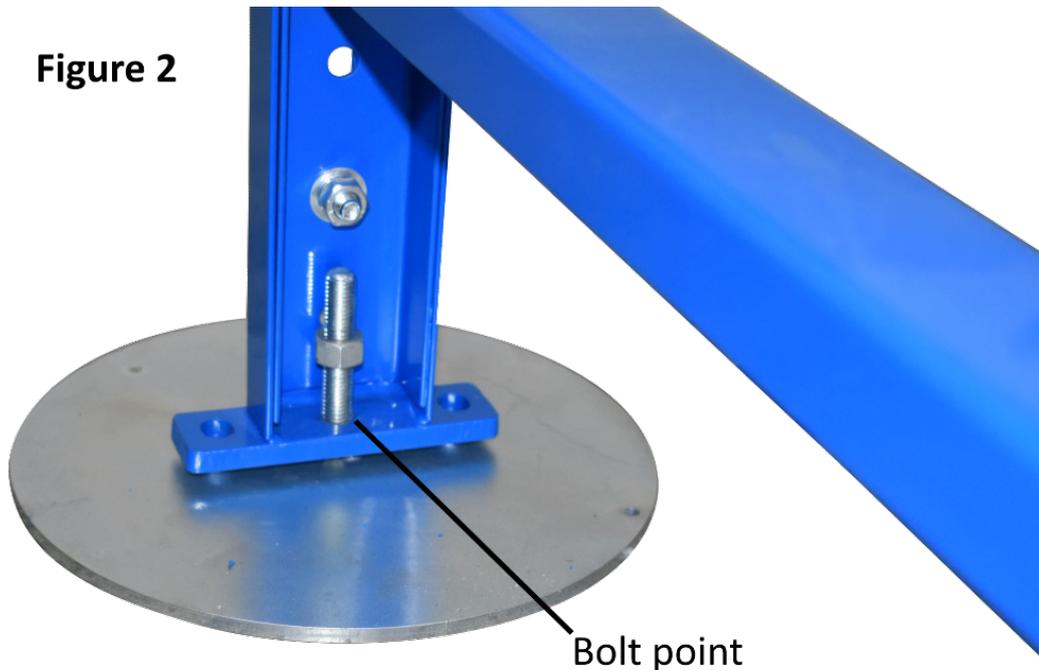
3. Place frames and support legs in position.
4. Bolt support legs onto frames:
 - i. Standard configuration – bolt top of support legs onto relative bolt points (see Fig. 1.6.1).
 - ii. Bridging configuration – bolt top of support legs' LH side onto the LH side frame, then bolt RH side onto the frame to be joined (see Fig. 1.6.3 BR).

Adjustable Plate Feet Assembly

Note: These plate feet assemblies are an optional extra when setting up conveyor on gravel/hardstand. You don't need these for concrete floors.

ASSEMBLY INSTRUCTIONS

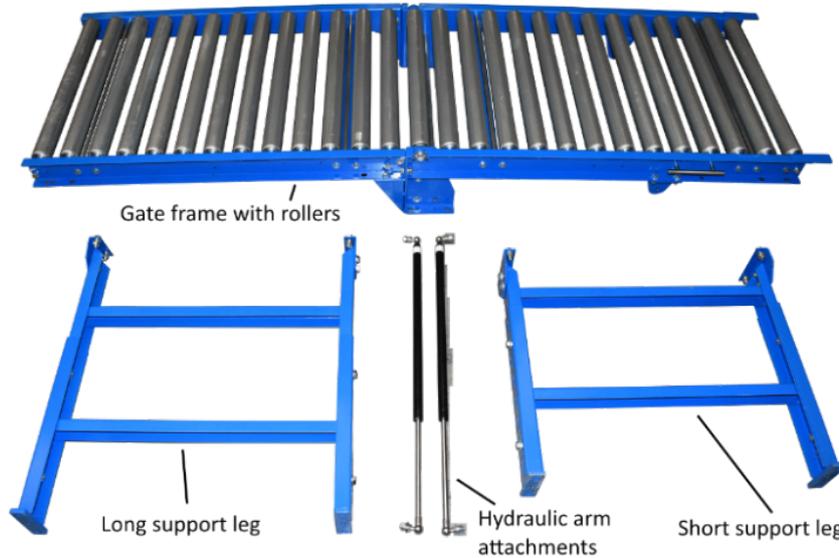
1. Remove nut from bolt section of base plate.
2. Insert bolt into centre hole of support leg foot and rotate plate to correct height.
3. Tighten bolt.



Conveyor Gate Assembly

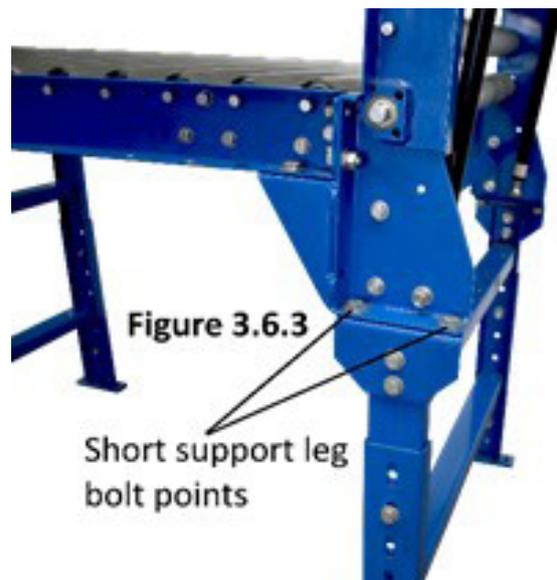
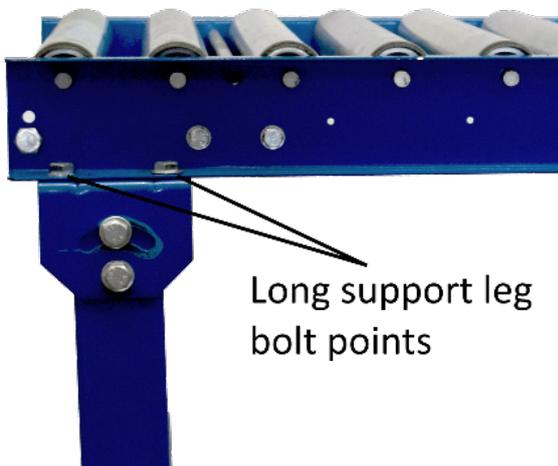
ASSEMBLY INSTRUCTIONS

Figure 3.6

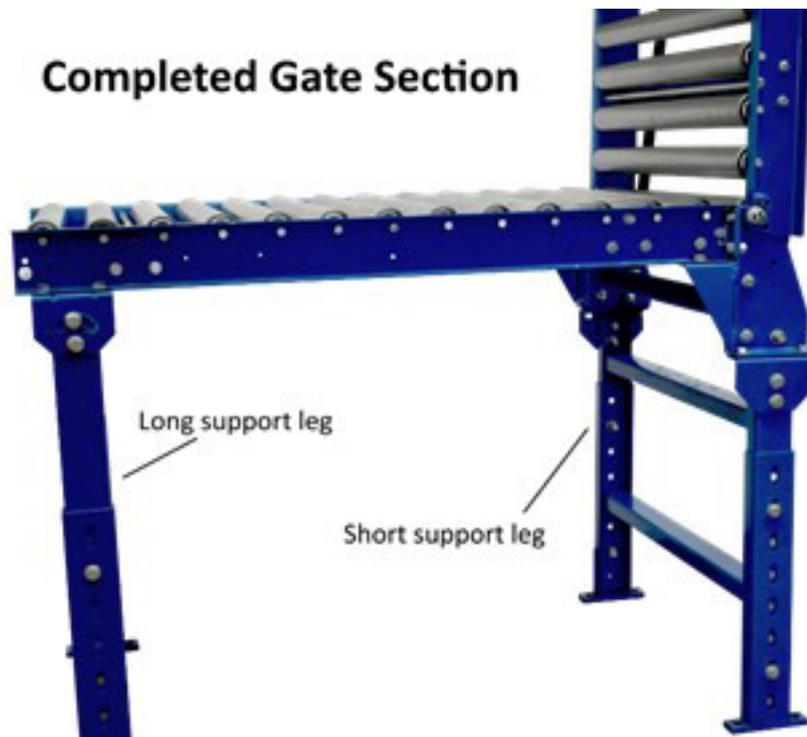
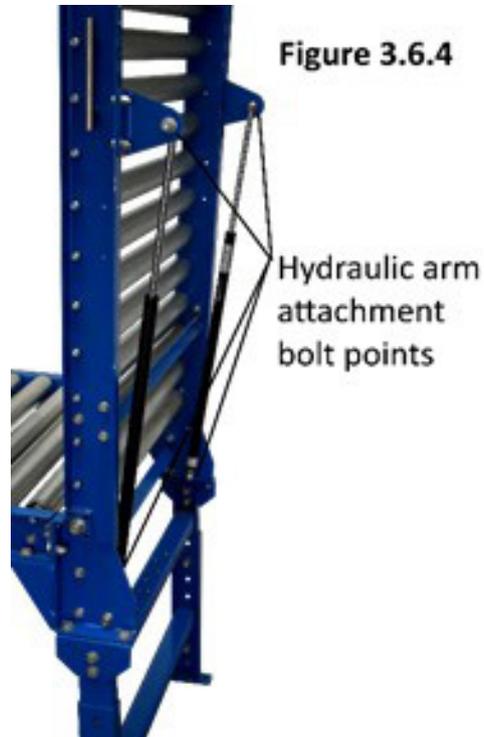


1. Bolt support legs to frame (see Fig. 3.6.2, Fig. 3.6.3):
 - i. Long support leg to start of straight section.
 - ii. Short support leg to start of gate.

Figure 3.6.2



2. Raise gate section.
3. Bolt hydraulic attachments to inside of plates (see Fig. 3.6.4)



Conveyor Curve Section Assembly

ASSEMBLY INSTRUCTIONS

Conveyor frames are supplied with rollers fitted, unless otherwise requested

1. Attach support legs by bolting at bolt points along frame.



Conveyor Ball Transfer Assembly

ASSEMBLY INSTRUCTIONS

1. The ball transfer table can be inserted at any point along a conveyor frame – following conveyor layout plan, determine where ball transfer table needs to be inserted.
2. Remove rollers from frame where ball transfer table is to be located:
 - i. For 75mm pitch, 8 or 9 rollers need to be removed, for 150mm pitch, 4 or 5 rollers need to be removed.
 - ii. To remove rollers, push rod insert on end of roller until released.
3. Remove support bars from frame where ball transfer table is to be located (only necessary if support bars are positioned in this frame section, see Fig. 5):
 - i. Remove bolts from support bar; set support bars aside.



4. Place ball transfer table in frame; insert bolts into matching holes along frame (see Fig. 5.6.1).



Conveyor End Stop Assembly

Note: These end stops are an optional extra, not all clients will want or require these. They can be retro fitted, so if you decide you'd like these to stop core trays accidentally falling off the end of the racking, please get in touch and we can help.

ASSEMBLY INSTRUCTIONS

1. Remove end roller of conveyor frame to allow end stop to fit.
2. Insert fixing bolt through bolt hole on end stop frame, into the lower hole on the end of the conveyor frame. See Fig. 6.6.1 and 6.6.1 (2). Fix with nut on outer side, ensuring the end stop frame has hinging movement ability. Do this for both sides of end stop frame.
3. Insert hook bolt into the upper hole on the end of the conveyor frame. See Fig. 6.6.1 and 6.6.1 (2). Fix with nut on outer side, ensuring there is room for the end stop frame to be hooked on. Repeat for other side of end of conveyor frame.
4. To 'engage' end stop, raise end stop frame and latch onto the hook bolt. To 'disengage' end stop, raise end stop frame to unhook, then carefully lower.

