

## INSTALLATION INSTRUCTIONS

**1.** Bolt the mounting bracket (item 1) to the outside of the chute using M12 bolts (supplied by others)

**2.** Bolt the adjusting assembly (item 6) to the mounting bracket (finger tight) and position it in the lowest position

**3.** Bolt the support cradle (item 5) – if supplied - and the ‘tapped portion’ of the scraper support clamp (item 7) into place, but do not tighten yet. The cradle plate sits under the clamp and above the mounting bracket

**4.** Position the scraper bar (item 11) over the support cradle (item 5) and push it through until it rests in the half of the support clamp previously installed

**5.** Check the position of the blade relative to the pulley face. If the blade width is not central to the pulley face then it is possible to trim the amount necessary to make it central from the end of the scraper support that butts up against the scraper cradle (item 5) previously installed

**6.** Install the remaining tapped scraper support clamp (item 7) onto the remaining support bracket (item 1) and then install the opposite half of the clamp (item 7) in order to retain the scraper support (item 11) in position

**7.** Lift the scraper to the belt to ensure the blades make full contact with the belt. If the belt is not flat it may be necessary to install a flat return roller above the belt

**8.** While holding the scraper in position, nip up the bolts (item 2) connecting the clamp (item 7) to angle support (item 1) to ensure the scraper will not slip down, then nip the bolts (item 8) clamping the scraper (item 11) to the support clamps

**9.** Position the adjusting assembly on each side (item 6 previously installed) about 20mm below the mounting bracket and lock in position. Ensure the adjusting bolt is just touching the scraper support clamp

**10.** Loosen the bolts holding the clamp to the support angle so the weight of the scraper is taken on the adjusting screws

**11.** Use the adjusting screws to bring the scraper into contact with the belt. Once this is achieved then advance the adjusting screws two (2) full turns on each side. This will ensure positive contact is made and the correct pressure is achieved

**12.** Tighten bolts (item 2) connecting the cradle to the angle support and the bolts (item 8) connecting the two halves of the clamp (item 7)

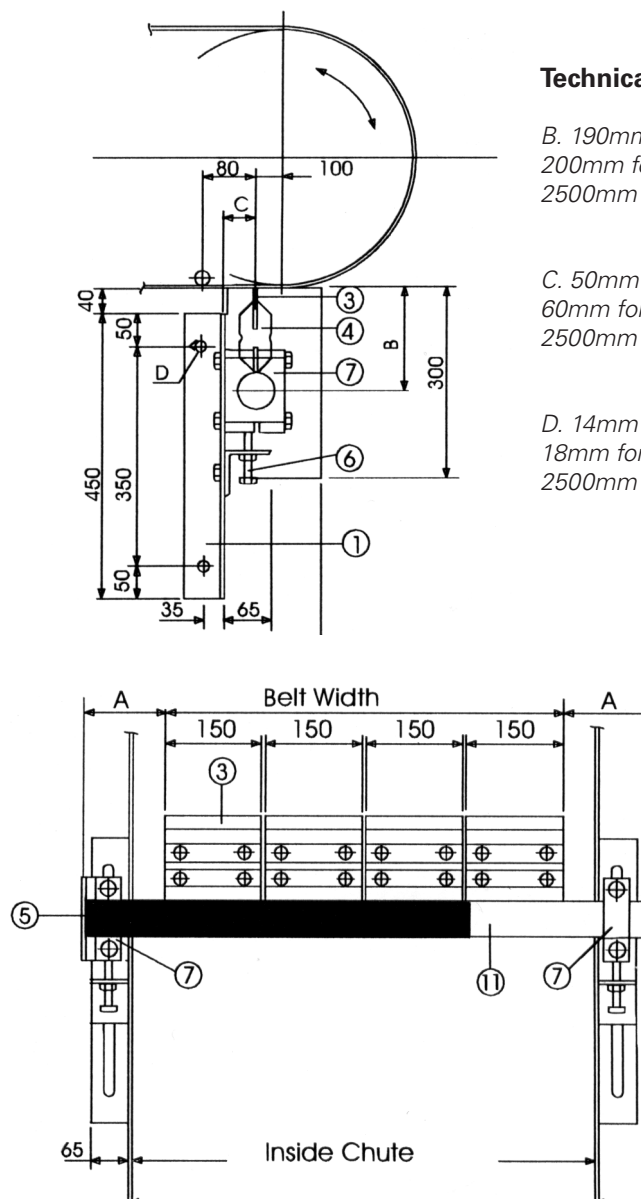
THE SCRAPER IS NOW READY FOR OPERATION

The angle of the blade should be about seven degrees (7°) from the vertical when in operation on a flat belt.

## INSTALLATION POSITION

For optimum efficiency, the cleaner should be positioned as indicated below. This may not suit your installation parameters therefore the next best choice is a location where the belt is not subject to flapping (moving vertically up and down). Also ensure there is no return roller running on the dirty side of the belt upstream of the scraper. If there was a roller upstream of the scraper and this roller was subjected to material building up on its face, then the belt’s profile may be changed (lifting the belt clear of the scraper blades), thereby making the scraper ineffective.

The rubber buffers have been designed to operate in either direction of belt travel (including a reversing belt). However, the blade is more efficient when the material strikes the vertical blade face as opposed to the chamfered side of the blade. If you have a situation with an elevated conveyor that is subject to slight run back, this type of secondary scraper will not be damaged or cause any belt damage.



### Technical drawing specifications

B. 190mm for belt width up to 1350mm  
200mm for belt width 1500mm to 2500mm

C. 50mm for belt width up to 1350mm  
60mm for belt width 1500mm to 2500mm

D. 14mm for belt width up to 1350mm  
18mm for belt width 1500mm to 2500mm

A. 300mm for belt width up to 1350mm  
500mm for belt width 1500mm to 2500mm

## CORRECT ADJUSTMENT

The scraper assembly is set up with blades at 90 degrees (90°) to the belt they are to scrape.

Ensure all blades have full face contact with the belt prior to tensioning and the adjusting screws are supporting the clamps which in turn clamp the scraper. Advance the adjusting screws located on either side of the scraper (item 6) two (2) full turns; this will produce a loading of 3.5mm. Now tighten the location bolts (item 2).

*Note: If there is blade chatter during operation adjust the scraper up a little using the adjusting bolts (item 6) until it stops.*

## RECOMMENDED MAINTENANCE PROGRAM

Plant personnel should clearly realize that conveyor belt scrapers are exposed to very dirty conditions and severe abrasion. Regular maintenance must therefore be undertaken.

Belt scrapers function satisfactorily at first, but soon become less efficient as a result of wear or possible clogging and therefore are the most worked on piece of equipment on any conveyor installation.

Good design should ensure that the maintenance task is completed in the shortest possible time with a minimum of physical effort and above all, utmost safety. Taurus scrapers, as an option, incorporate the support cradle mounting feature which allows for ease of service.

