

INSTALLATION INSTRUCTIONS

1. Mark out a line using the ruler to get the 10° angle

2. Locate position of the blade tip relative to the pulley face and use the dimensions as shown to locate the scraper centre line and the bolting position of the support angle

3. Cut the hole in the side of the chute to accommodate the scraper so that it can be installed and removed

If support cradle purchased/supplied:

3A Bolt the support cradle (item 11) and the 'tapped portion' of the scraper support clamp (item 5) into place, but do not tighten yet. The cradle sits on top of the support angle (item 2) and the clamp is placed on the inside of the cradle base

3B Slide the scraper support pipe (item 7) over the cradle (item 11) and 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 pipe (item 7) that butts up against the scraper cradle (item 11) previously installed

4. Locate the scraper and check that all blades are in contact with the belt

5. Tighten the bottom half of each clamp to the support angle and position the adjustors so the clamp is located

6. Once the scraper has been installed remove the blades so the 'tongue' is exposed

7. Rotate the scraper until each tongue is about 3mm from contacting the belt (gap between the tongue and belt) and hold in position. Slide the torque arm over the tube and ensure the step in the circular section is in contact with the stop that you have bolted from the underside of the support angle. The flat plate on the torque arm should not be horizontal but inclined to the horizontal at about 5 degrees (5°)

8. With a punch, mark the position of the torque arm and the scraper support pipe

9. Replace the blades over each tongue Place the top portion of each clamp in position and install the bolts but leave just enough clearance for the tube to rotate

10. Position the torque arm onto the scraper support pipe and align the punch marks, then tighten the securing screws on the torque arm

11. Rotate the scraper with the screw (M12 x 75 provided) that is located under the torque arm. Turn the screw four (4) times or until the gap between the stop (item 8) and the torque arm step is reduced by half its initial distance

12. Tighten the bolts on the clamps

THE SCRAPER IS NOW READY FOR OPERATION

RULER AID TO INSTALLATION

The ruler is used to mark the location of the blade tip relative to the pulley face, simply mark out the dimension from the centre of the pulley shaft.

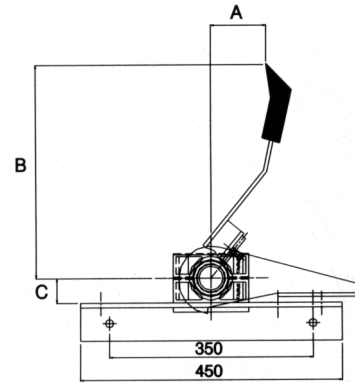
Aid to achieving the correct angle from the pulley centre line:

10 degrees (10°) from the horizontal

SECTIONAL VIEW

Sectional View

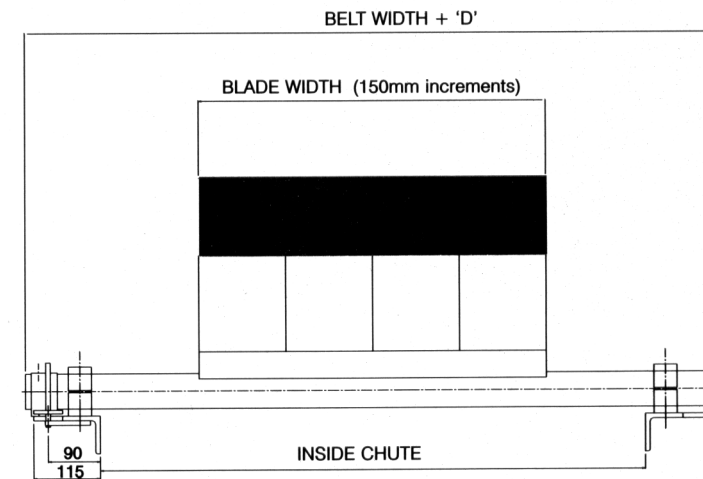
Contact point on pulley 10 degrees (10°) below horizontal



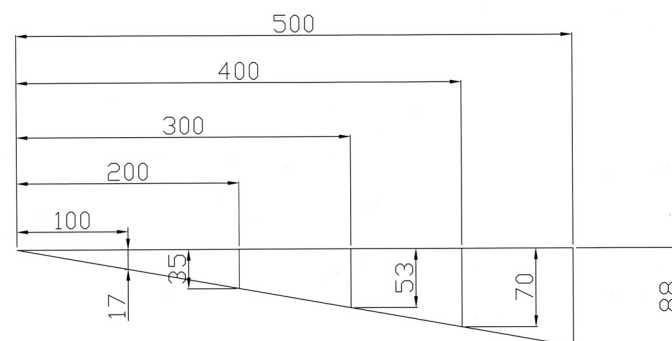
A. 95mm belt width up to and including 1350mm
100mm belt width 1500mm and above

B. 366mm belt width up to and including 1350mm
374mm belt width 1500mm and above

C. 42mm (as above)
52mm (as above)



D. 600mm belt width up to and including 1350mm
1000mm belt width 1500mm and above



CORRECT ADJUSTMENT

It is very important that the centre of the rubber buffer appears closer to the centreline of the pulley when looking down from the blade tangent to the pulley. If this is not set correctly, chatter marks may appear on the belt and result in damage. If the scraper does chatter on initial set-up, move the scraper closer to the pulley centreline.

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.

