**INSTALLATION INSTRUCTIONS FOR BENETECH BXP1 BELT CLEANER**

*Always be sure to lock out the conveyor system before commencing work.*

**Step 1:** Check the correct cleaner has been selected and supplied. Ensure the belt width and blade width is suitable for the application. Blade edge should never over hang the edge of the conveyor belt.

**Step 2:** Scribe a descending vertical line from the centre line of the pulley shaft.

**Step 3:** The X and Y co-ordinates are provided to locate the center of the cleaner pole, as shown on the installation diagram. Use Table 1 below for correct mounting dimensions. The Z dimension is a cross check, or allows you to rotate the cleaner to avoid any obstructions.

**Step 4:** Establishing the correct center point for the pole will position the cleaner in its optimum position, 15° below the center line of the pulley which will ensure a 90° tip to belt contact angle. Select the cut-out dimensions from Table 2 below and cut an opening, as shown on the installation diagram.

**Step 5:** Mark and cut the reverse side opening, and remove all sharp edges from the cut-outs.

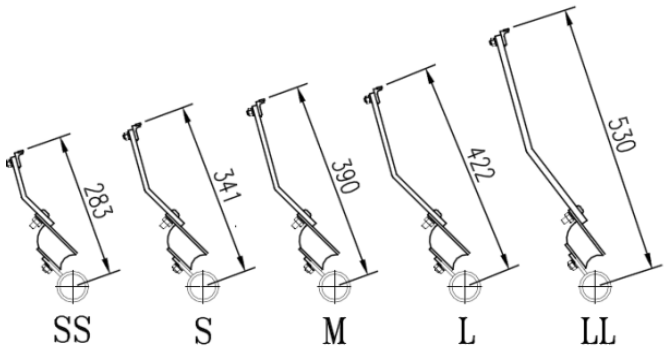
**Step 6:** Re-establish the X and Y intersection. The mounting bracket will be installed At a distance below the intersection mark and on a horizontal plane. For 60mm diameter poles, the distance is 62mm, and for 73mm poles, the distance is 72mm. Weld the mounting brackets in place on both sides.

**Step 7:** Pass the cleaner through the cut-out. Assemble the cleaner by first locating the mounting bracket on the pole and screwing them to the mounting brackets. Slide the adjuster arms onto both sides, and position up against the bearing assembly ensuring the adjuster arm is positioned over the adjusting bolt.

**Step 8:** Bring the tips into contact with the belt and lock the adjuster arm in the horizontal position, making sure tips are horizontal and square to the belt surface.

**Step 9:** Pre-tension the cleaner to a loading of 8 kgs per 200mm tip width, by turning the adjuster bolt the prescribed times. (M12 2 turns; M16 2.5 turns)

**Step 10:** Test run and check loading with a spring scale. If vibration occurs, apply a *small* increase in tension, and check the blade to belt contact angle. Minor adjustments can be made by moving the cleaner in and out in the slots on the mounting brackets.




| Pulley Dia | Arm Size |
|---|---|
| Up to 500mm | SS |
| 500–800mm | S |
| 800–1000mm | M |
| 1000–1200mm | L |
| 1200mm and greater | LL |

Figure 1 : Blade Arm Length

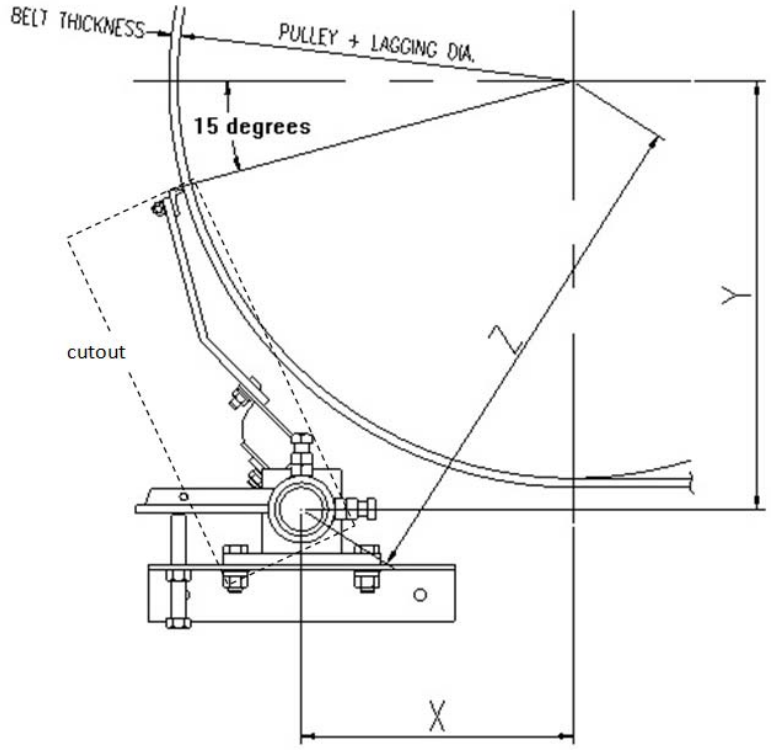



Figure 2 : Mounting Location

| | PIPE DIA | PIPE DIA. 60.5MM (2.381") | | | PIPE DIA. 73MM (2.874") | | |
|---|---|---|---|---|---|---|---|
| | | X | Y | Z | X | Y | Z |
| SS | 250 (9.8”) | 35 (1.4”) | 301 (11.9”) | 303 (12.0”) | 30 (1.2”) | 306 (12.0”) | 307 (12.1”) |
| | 300 (11.8”) | 59 (2.3”) | 308 (12.1”) | 313 (12.3”) | 55 (2.2”) | 312 (12.3”) | 317 (12.5”) |
| | 400 (15.7”) | 107 (4.2”) | 321 (12.6”) | 338 (13.3”) | 103 (4.1”) | 325 (12.8”) | 341 (13.4”) |
| | 500 (19.7”) | 156 (6.1”) | 333 (13.1”) | 368 (14.5”) | 151 (5.9”) | 338 (13.3”) | 370 (14.6”) |
| S | 500 (19.7”) | 131 (5.2”) | 386 (15.2”) | 408 (16.1”) | 127 (5.0”) | 391 (15.4”) | 411 (16.2”) |
| | 600 (23.6”) | 179 (7.0”) | 399 (15.7”) | 438 (17.2”) | 175 (6.9”) | 404 (16.0”) | 440 (17.3”) |
| | 700 (27.6”) | 228 (9.0”) | 412 (16.2”) | 471 (18.5”) | 223 (8.8”) | 417 (16.4”) | 473 (18.6”) |
| | 800 (31.5”) | 276 (10.8”) | 425 (16.7”) | 507 (20.0”) | 272 (10.7”) | 429 (16.9”) | 508 (20.0”) |
| M | 700 (27.6”) | 212 (8.3”) | 459 (18.1”) | 506 (29.9”) | 208 (8.2”) | 464 (18.3”) | 508 (20.0”) |
| | 800 (31.5”) | 261 (10.3”) | 472 (18.6”) | 539 (21.2”) | 256 (10.1”) | 476 (18.7”) | 541 (21.3”) |
| | 900 (35.4”) | 309 (12.3”) | 485 (19.1”) | 575 (22.6”) | 305 (12.0”) | 489 (19.3”) | 576 (22.7”) |
| | 1000 (39.4”) | 357 (14.0”) | 498 (19.6”) | 613 (24.1”) | 353 (13.9”) | 502 (19.8”) | 614 (24.2”) |
| L | 1000 (39.4”) | 333 (13.1”) | 523 (20.6”) | 620 (24.4”) | 328 (12.9”) | 527 (20.7”) | 621 (24.4”) |
| | 1100 (43.3”) | 381 (15.0”) | 536 (21.1”) | 657 (25.9”) | 376 (14.8”) | 540 (21.3”) | 658 (25.9”) |
| | 1200 (47.2”) | 429 (16.9”) | 549 (21.6”) | 697 (27.4”) | 425 (16.7”) | 553 (21.8”) | 697 (27.4”) |
| LL | 1200 (47.2”) | 429 (16.9”) | 661 (26.0”) | 785 (31.0”) | 419 (16.5”) | 666 (26.2”) | 787 (31.0”) |
| | 1400 (55.1”) | 519 (20.4”) | 687 (27.0”) | 861 (33.9”) | 515 (20.3”) | 692 (27.2”) | 863 (34.0”) |
| | 1600 (63.0”) | 616 (24.3”) | 713 (28.0”) | 942 (37.1”) | 612 (24.1”) | 718 (28.3”) | 943 (37.1”) |
| | 1700 (66.9”) | 664 (26.1”) | 726 (28.6”) | 984 (38.7”) | 660 (26.0”) | 731 (28.8”) | 985 (38.8”) |

Table 1: Mounting Location Dimensions

| HOLE SIZE (MM) | SUSPENSION ARM | | | | |
|---|---|---|---|---|---|
| | SS | S | M | L | LL |
| VERTICAL | 350 (13.8”) | 400 (15.7”) | 450 (17.7”) | 500 (19.7”) | 600 (23.6”) |
| HORIZONTAL | 120 (4.7”) | 120 (4.7”) | 120 (4.7”) | 120 (4.7”) | 140 (5.5”) |

Table 2: Cut-Out Dimensions

**WARNING** The BXP1 cleaner is a tungsten carbide tip primary belt cleaner, ensure that the tips are perpendicular to the conveyor belt, or slightly angled with the direction of belt travel, once the installation is complete. Failure to do so may result in damage to the conveyor belt.