

# MMP/MHP/MHCP

## AWT Retrofit Installation Instructions

1. **Find the X, Y & C specifications.** Measure the pulley diameter (including the belt and the lagging) (Fig. 1).

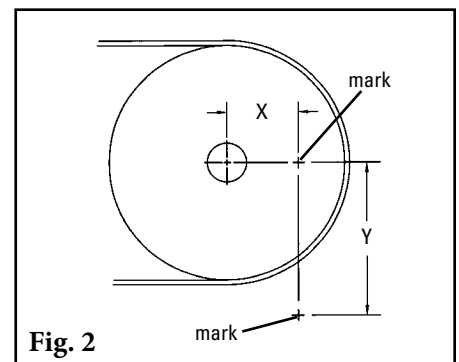
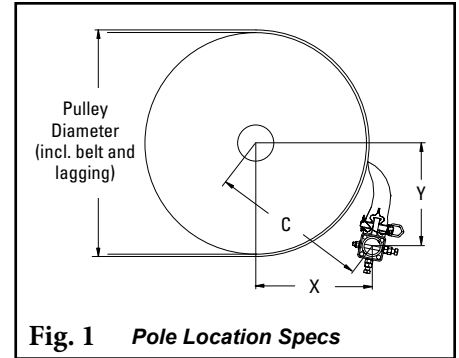
Pulley Diameter \_\_\_\_"; X = \_\_\_\_"; Y = \_\_\_\_"; C = \_\_\_\_".

(Adjustments can be made to the X & Y coordinates to move away from obstacles as long as the C dimension remains constant.)

Use these dimensions to validate the current location of the installed MMP, MHP, or MHCP cleaner. If incorrect, continue to Step 2.

If correct, continue to Step 3.

2. **Lay out the dimensions on the chute wall.** Measure out the X dimension horizontally from the center of the pulley shaft and mark. (NOTE: It may be easier to put a level on top of the pulley shaft, draw a horizontal line and then measure down half the diameter of the shaft and make a line from the front of the shaft. Now subtract half the pulley shaft diameter from the X coordinate and measure on the line and make a mark.) Then measure down vertically the Y dimension and mark. This is the correct position for the center of the cleaner pole (Fig. 2). Lay out and mark the same dimensions on the other side.



### MMP Pole Location Specs

| Pulley Diameter |      | X      |     | Y  |     | C      |     |
|-----------------|------|--------|-----|----|-----|--------|-----|
| in              | mm   | in     | mm  | in | mm  | in     | mm  |
| 16              | 400  | 8 1/8  | 206 | 12 | 305 | 14 1/2 | 368 |
| 17              | 425  | 8 3/4  | 222 | 12 | 305 | 14 7/8 | 378 |
| 18              | 450  | 9 1/4  | 235 | 12 | 305 | 15 1/8 | 384 |
| 19              | 475  | 9 3/4  | 248 | 12 | 305 | 15 1/2 | 394 |
| 20              | 500  | 10 3/8 | 264 | 12 | 305 | 15 7/8 | 403 |
| 21              | 525  | 11     | 279 | 12 | 305 | 16 1/4 | 413 |
| 22              | 550  | 11 1/2 | 292 | 12 | 305 | 16 5/8 | 422 |
| 23              | 575  | 12     | 305 | 12 | 305 | 17     | 432 |
| 24              | 600  | 12 5/8 | 321 | 12 | 305 | 17 3/8 | 441 |
| 25              | 625  | 13 1/8 | 333 | 12 | 305 | 17 3/4 | 451 |
| 26              | 650  | 13 5/8 | 346 | 12 | 305 | 18 1/8 | 460 |
| 27              | 675  | 14 1/8 | 359 | 12 | 305 | 18 1/2 | 470 |
| 28              | 700  | 14 5/8 | 371 | 12 | 305 | 18 7/8 | 479 |
| 29              | 725  | 15 1/4 | 387 | 12 | 305 | 19 3/8 | 492 |
| 30              | 750  | 15 5/8 | 397 | 12 | 305 | 19 3/4 | 502 |
| 31              | 775  | 16 1/8 | 410 | 12 | 305 | 20 1/8 | 511 |
| 32              | 800  | 16 3/4 | 425 | 12 | 305 | 20 5/8 | 524 |
| 33              | 825  | 17 1/4 | 438 | 12 | 305 | 21     | 533 |
| 34              | 850  | 17 3/4 | 451 | 12 | 305 | 21 3/8 | 543 |
| 35              | 875  | 18 1/4 | 464 | 12 | 305 | 21 7/8 | 556 |
| 36              | 900  | 18 3/4 | 476 | 12 | 305 | 22 1/4 | 565 |
| 37              | 925  | 19 3/8 | 492 | 12 | 305 | 22 3/4 | 578 |
| 38              | 950  | 19 3/4 | 502 | 12 | 305 | 23 1/8 | 587 |
| 39              | 975  | 20 3/8 | 518 | 12 | 305 | 23 5/8 | 600 |
| 40              | 1000 | 20 3/4 | 527 | 12 | 305 | 24     | 610 |
| 41              | 1025 | 21 3/8 | 543 | 12 | 305 | 24 1/2 | 622 |
| 42              | 1050 | 21 3/4 | 552 | 12 | 305 | 24 7/8 | 632 |
| 43              | 1075 | 22 3/8 | 568 | 12 | 305 | 25 3/8 | 645 |
| 44              | 1100 | 22 3/4 | 578 | 12 | 305 | 25 3/4 | 654 |
| 45              | 1125 | 23 3/8 | 594 | 12 | 305 | 26 1/4 | 667 |
| 46              | 1150 | 23 7/8 | 606 | 12 | 305 | 26 3/4 | 679 |
| 47              | 1175 | 24 3/8 | 619 | 12 | 305 | 27 1/8 | 689 |
| 48              | 1200 | 24 7/8 | 632 | 12 | 305 | 27 5/8 | 702 |

### MHP/MHCP Pole Location Specs

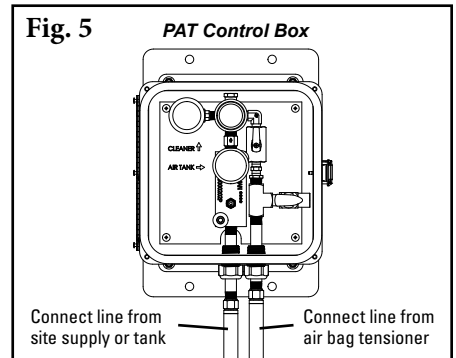
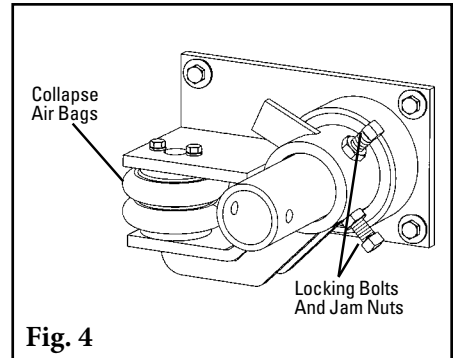
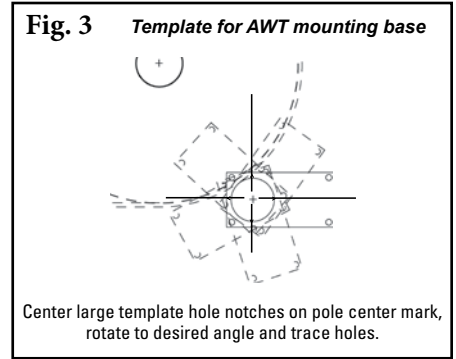
| Pulley Diameter |      | X      |     | Y      |     | C      |     |
|-----------------|------|--------|-----|--------|-----|--------|-----|
| in              | mm   | in     | mm  | in     | mm  | in     | mm  |
| 20              | 500  | 10     | 254 | 14 3/8 | 365 | 17 1/2 | 445 |
| 21              | 525  | 10 1/2 | 267 | 14 3/8 | 365 | 17 3/4 | 451 |
| 22              | 550  | 11     | 279 | 14 3/8 | 365 | 18 1/8 | 460 |
| 23              | 575  | 11 1/2 | 292 | 14 3/8 | 365 | 18 3/8 | 467 |
| 24              | 600  | 12     | 305 | 14 3/8 | 365 | 18 3/4 | 476 |
| 25              | 625  | 12 1/2 | 318 | 14 3/8 | 365 | 19     | 483 |
| 26              | 650  | 13     | 330 | 14 3/8 | 365 | 19 3/8 | 492 |
| 27              | 675  | 13 1/2 | 343 | 14 3/8 | 365 | 19 3/4 | 502 |
| 28              | 700  | 14     | 356 | 14 3/8 | 365 | 20 1/8 | 511 |
| 29              | 725  | 14 1/2 | 368 | 14 3/8 | 365 | 20 3/8 | 518 |
| 30              | 750  | 15     | 381 | 14 3/8 | 365 | 20 3/4 | 527 |
| 31              | 775  | 15 1/2 | 394 | 14 3/8 | 365 | 21 1/8 | 537 |
| 32              | 800  | 16     | 406 | 14 3/8 | 365 | 21 1/2 | 546 |
| 33              | 825  | 16 1/2 | 419 | 14 3/8 | 365 | 21 7/8 | 556 |
| 34              | 850  | 17     | 432 | 14 3/8 | 365 | 22 1/4 | 565 |
| 35              | 875  | 17 1/2 | 445 | 14 3/8 | 365 | 22 5/8 | 575 |
| 36              | 900  | 18     | 457 | 14 3/8 | 365 | 23     | 584 |
| 37              | 925  | 18 1/2 | 470 | 14 3/8 | 365 | 23 3/8 | 594 |
| 38              | 950  | 19     | 483 | 14 3/8 | 365 | 23 7/8 | 606 |
| 39              | 975  | 19 1/2 | 495 | 14 3/8 | 365 | 24 1/4 | 616 |
| 40              | 1000 | 20     | 508 | 14 3/8 | 365 | 24 5/8 | 625 |
| 41              | 1025 | 20 1/2 | 521 | 14 3/8 | 365 | 25     | 635 |
| 42              | 1050 | 21     | 533 | 14 3/8 | 365 | 25 1/2 | 648 |
| 43              | 1075 | 21 1/2 | 546 | 14 3/8 | 365 | 25 7/8 | 657 |
| 44              | 1100 | 22     | 559 | 14 3/8 | 365 | 26 1/4 | 667 |
| 45              | 1125 | 22 1/2 | 572 | 14 3/8 | 365 | 26 3/4 | 679 |
| 46              | 1150 | 23     | 584 | 14 3/8 | 365 | 27 1/8 | 689 |
| 47              | 1175 | 23 1/2 | 597 | 14 3/8 | 365 | 27 1/2 | 699 |
| 48              | 1200 | 24     | 610 | 14 3/8 | 365 | 28     | 711 |

- 3. Mark and cut the mounting base holes.** Using the mounting base template provided in the instruction packet, position the large pole hole of the template on the chute with the hole notches aligned with the layout lines. Trace the pole hole and mounting holes (Fig. 3). Each base can be mounted in any position 360° around the pole as long as the pole's center point does not change. Cut the holes on both sides of the chute.
- 4. Assemble the extender poles to the center pole.** Insert the extender poles through the chute holes and into the center pole. Leave the locking bolts loose.
- 5. Install the mounting bases.** Bolt the mounting plates to the chute with the bolts provided.
- 6. Center the cleaner on the belt and lock in place.** Reinstall the blade or cartridge. Slide the pole until the blade is centered or covers the material path. Adjust the extender poles until the pole ends extend out past the mounting plates at least 6" (150 mm) on each side for the tensioner installation. Slide the extender poles in the center pole to align with the center pole mounting holes and insert both bolts. Lock the four center pole locking bolts and tighten the locking bolt jam nuts.
- 7. Tension the blades to the belt.** Collapse both air bags (with C-clamps) and rotate the blades until they are 1" (25 mm) short of contact with the belt. Tighten the torque arm locking bolts and jam nuts (Fig. 4).
- 8. Connect the supply lines and set tension pressure.** With the parts supplied, attach a line to each air bag and run the lines to the outlet side of the PAT control box (Fig. 5).

**NOTE:** Be sure lines are safely away from the belt. Connect a line from the inlet side of the box to the site's supply or PAT tank, if applicable. Test the connections for leaks and set the pressure per the chart on the control box (also shown below).

Take the pressure chart label from the instruction packet and affix it in an easily accessible location near the regulator for future reference.

- 9. Test run the cleaner.** Run the conveyor for at least 15 minutes and inspect cleaning performance. Make adjustments as necessary.



**MMP Pressure Chart**

| Blade Width |      | Pressure |     |
|-------------|------|----------|-----|
| in.         | mm   | psi      | kPa |
| 18          | 450  | 5        | 34  |
| 24          | 600  | 6        | 41  |
| 32          | 800  | 8        | 55  |
| 36          | 900  | 9        | 62  |
| 42          | 1050 | 11       | 76  |
| 48          | 1200 | 13       | 90  |
| 54          | 1350 | 14       | 97  |
| 60          | 1500 | 16       | 110 |
| 66          | 1650 | 17       | 117 |
| 72          | 1800 | 19       | 131 |
| 78          | 1950 | 21       | 145 |
| 84          | 2100 | 22       | 152 |
| 90          | 2250 | 24       | 165 |
| 96          | 2400 | 25       | 172 |
| 102         | 2550 | 27       | 186 |
| 108         | 2700 | 28       | 193 |
| 114         | 2850 | 30       | 207 |

\*PSI setting is based on belt width.

**MHP Pressure Chart**

| Blade Width |      | Pressure |     |
|-------------|------|----------|-----|
| in.         | mm   | psi      | kPa |
| 18          | 450  | 8        | 55  |
| 24          | 600  | 10       | 69  |
| 32          | 800  | 13       | 90  |
| 36          | 900  | 15       | 103 |
| 42          | 1050 | 18       | 124 |
| 48          | 1200 | 20       | 138 |
| 54          | 1350 | 23       | 159 |
| 60          | 1500 | 25       | 172 |
| 66          | 1650 | 28       | 193 |
| 72          | 1800 | 31       | 214 |
| 78          | 1950 | 33       | 228 |
| 84          | 2100 | 36       | 248 |
| 90          | 2250 | 38       | 262 |
| 96          | 2400 | 41       | 283 |
| 102         | 2550 | 43       | 296 |
| 108         | 2700 | 46       | 317 |
| 114         | 2850 | 48       | 331 |

\*PSI setting is based on belt width.

**MHCP Pressure Chart**

| Blade Width |      | No. Blades | Pressure |     |
|-------------|------|------------|----------|-----|
| in.         | mm   |            | psi      | kPa |
| 18          | 450  | 3          | 8        | 55  |
| 24          | 600  | 4          | 10       | 69  |
| 30          | 750  | 5          | 13       | 90  |
| 36          | 900  | 6          | 15       | 103 |
| 42          | 1050 | 7          | 18       | 124 |
| 48          | 1200 | 8          | 20       | 138 |
| 54          | 1350 | 9          | 23       | 159 |
| 60          | 1500 | 10         | 25       | 172 |
| 66          | 1650 | 11         | 28       | 193 |
| 72          | 1800 | 12         | 31       | 214 |
| 78          | 1950 | 13         | 33       | 228 |
| 84          | 2100 | 14         | 36       | 248 |
| 90          | 2250 | 15         | 38       | 262 |
| 96          | 2400 | 16         | 41       | 283 |
| 102         | 2550 | 17         | 43       | 296 |
| 108         | 2700 | 18         | 46       | 317 |
| 114         | 2850 | 19         | 48       | 331 |

\*PSI setting is based on number of blades, not belt width.

