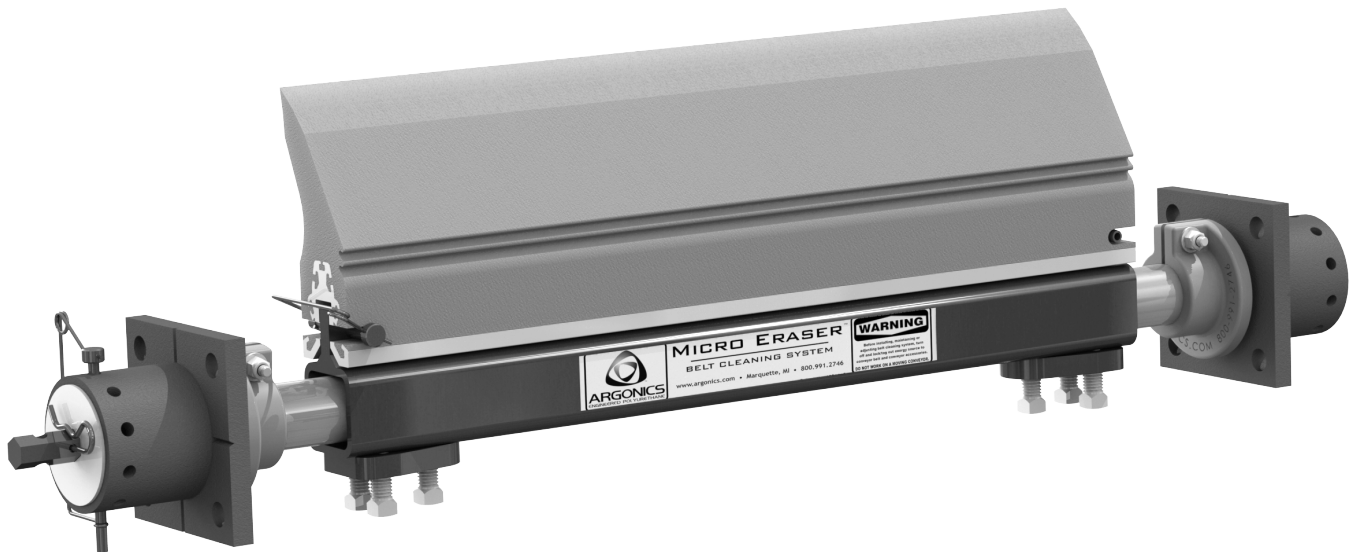




# MICRO ERASER™

## Conveyor Belt Cleaning System



# MICRO ERASER™ Conveyor Belt Cleaning System

## ⚠ WARNING

Always obey all applicable safety rules.

Be sure all power to the conveyor has been disconnected and controls are locked out.

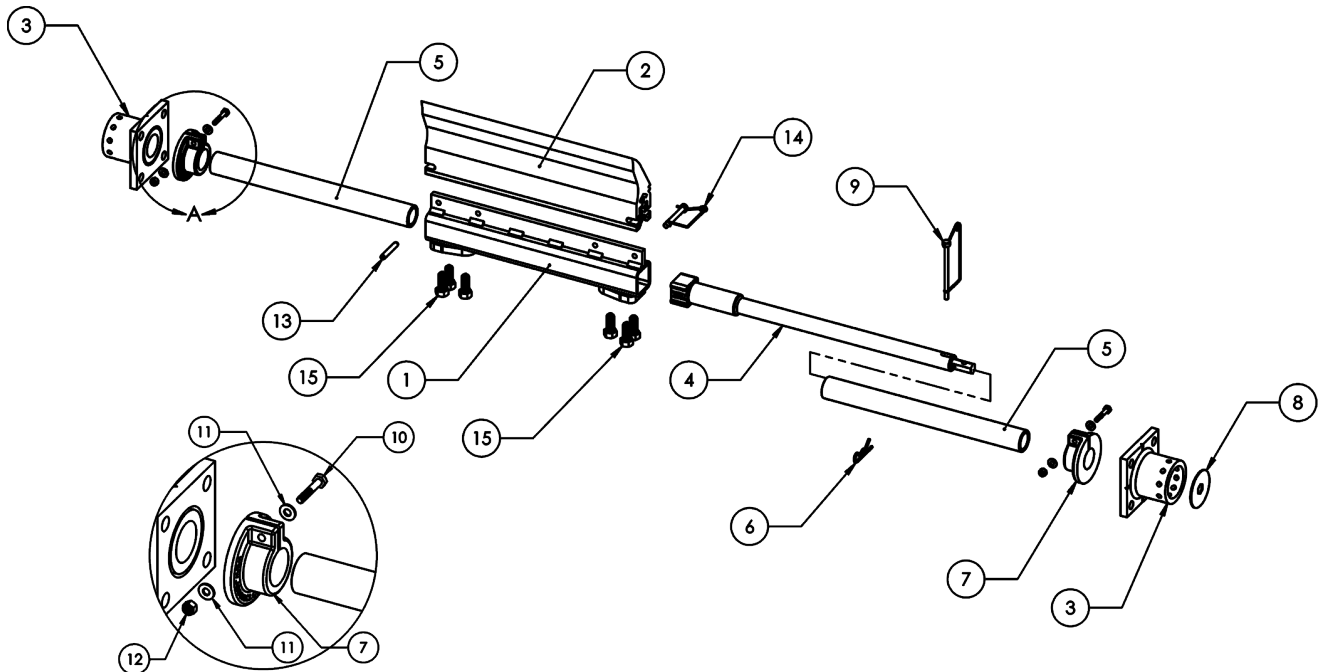
## Installation Tools Required

- Tape measure
- Cutting Torch or Hole Saw (2½")
- Level
- Scribe or Chalk

- Welder or Drill
- ½" End Wrench
- ⅝" End Wrench or Crescent Wrench

Bolts, lock washers and nuts for mounting are not supplied

## Assembly Breakdown



Number	Part Number	Quantity	Description
1	CP-MI-"XX"A	1	Mainframe
2	CP-MR-"XX"-G83	1	Raptor Blade
3	CP-MI-66D	2	Mounting Spool
	CP-MI-66DA-B93	NA	Mounting Spool Reline
4*	CP-MI-1550E-B93 or	1	Standard Perma-Torque Tensioner
	CP-MI-1350E-B93	1	Short Perma-Torque Tensioner
5	CP-MI-15B or	2	Standard Stub End
	CP-MI-10B	2	Short Stub End
6*	CP-MI-2125	1	Self-Locking Twist Pin
7	CP-MI-LC45-G83	2	Set Collar
8*	CP-MI-35-F	1	Retainer Washer
9*	CP-AR-4000	1	Tension Pin 1/4" x 4"
10	BOLT-0.25X1.50NC	2	Bolt 1/4"-20 x 1.5" long
11	WASH-0.25-F-Z	4	Washer 1-4" Flat Zinc
12	NUT-0.25-20UNC-NL-Z	2	Nut 1/4" Nylock Zinc
13	CP-AR-303	1	Spring Pin 5/16" x 2"
14	CP-AR-275	1	Safety Snap Pin 5/16" x 2-3/4"
15	CP-AR-5125 S	6	Stainless Hex Head Set Screw 1/2" x 1-1/4"

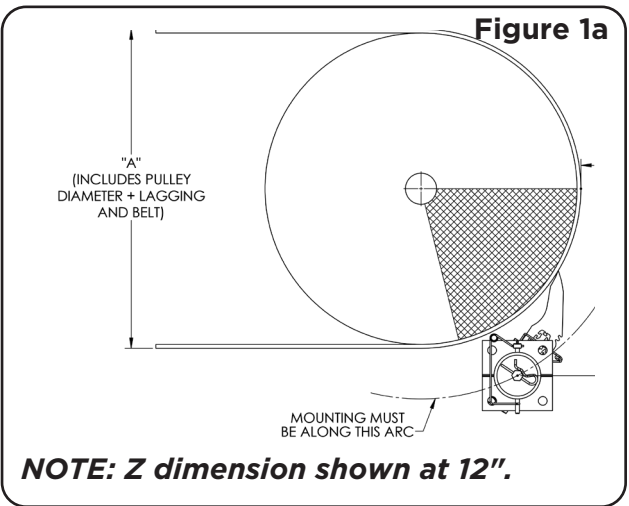
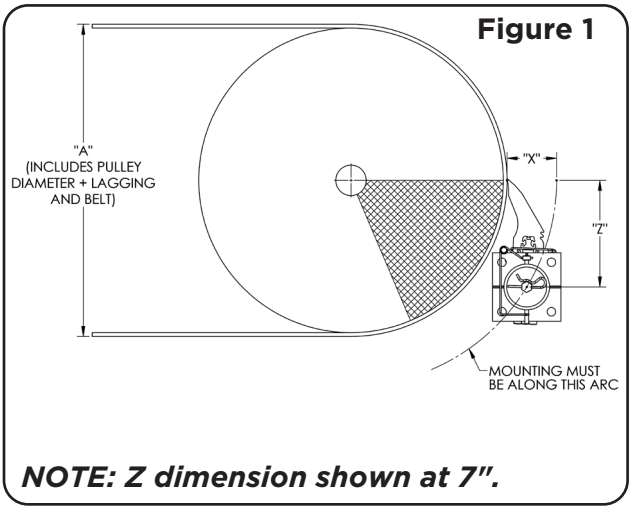
\* Systems 36" and above come standard with dual tensioners and require double of each of the noted parts.

## Step One: Layout

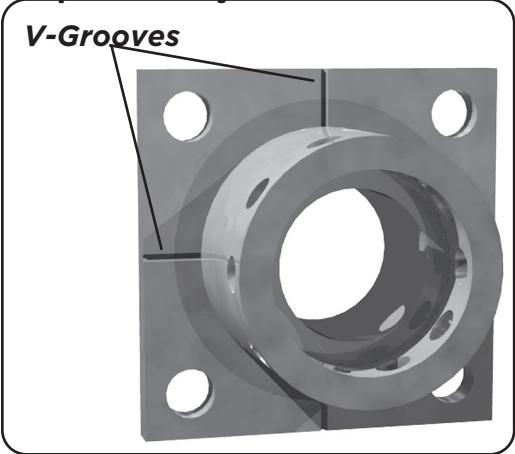
**NOTE:** Shaded areas in Figures 1 and 1a represent acceptable mounting location

Dimension Table		
Outside Diameter*	X	Z
8" - 10"	4"	7"
11" - 13"	3 <sup>3</sup> / <sub>4</sub> "	7"
14" - 16"	3 <sup>1</sup> / <sub>2</sub> "	7"
17" & Larger	3 <sup>1</sup> / <sub>4</sub> "	7"

\* Includes lagging and belt thickness



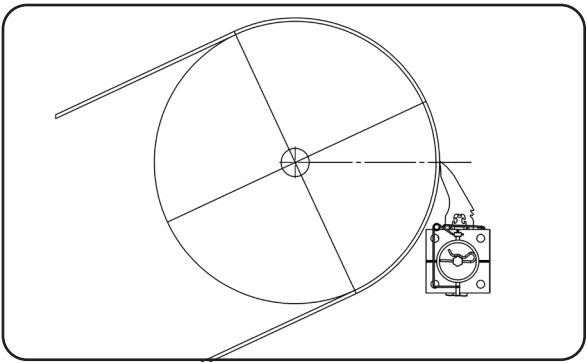
## Step Two: Layout



The Micro Eraser System comes fully assembled. Remove the mounting spools from the system. The mounting spools are designed to be welded or bolted into position. Using a mounting spool as a template, line up

the centering V-grooves machined into the flange of the mounting spool with the bisected horizontal and vertical lines on the mounting structure wall.

### Inclined belt mounting position



**ATTENTION:** Tip of blade is below horizontal axis.

Trace the inside diameter of the spool and the entire perimeter of the square flange to the mounting structure wall. Also, transfer the bolt hole pattern if you intend to bolt the system into place rather than weld. Repeat this Step Two process for the other side of the mounting structure.

# Installation

## Step Three: Mounting

Cut the center hole with approximately a  $\frac{1}{2}$ " larger radius than the trace which was scribed on each side of the mounting structures (your hole should be approx.  $2\frac{1}{2}$ " in diameter). **NOTE: For Bolt In Only** - Using the traces that you scribed for the mounting holes, drill four  $\frac{9}{16}$ " diameter holes to accept  $\frac{1}{2}$ " diameter grade 8 bolts. Place the mounting spool onto the side of the mounting structure wall. Use the scribed perimeter lines to line up the spool and then weld or bolt it into place. If welding, four stitch welds is sufficient on the flats of the mounting spool. Using a  $\frac{1}{2}$ " end wrench, loosen the (3) square head set screws at each end of the mainframe. Remove the stub end pipes (and tensioner assembly) from the mainframe. Loosen the locking collar set screw and collapse unit as fully as possible. Lift the mainframe into position. Telescope the stub ends and slide tensioner assembly through the holes in the mounting structure. Temporarily install tension pin through mounting spool. Center the blade with the belt and snug the mainframe set screws to secure the stub ends. Snug locking collars to inside wall and cinch the set screw. Check for free rotation, minimal lateral movement of the assembly shaft, and consistent contact of the blade to the belt. Adjust if necessary, realign, and tighten all mainframe set screws.



## WARNING



**When tensioning be sure to keep body clear of the tensioner path.**

## Step Four: Tensioning

The Micro Eraser System is provided with our exclusive totally internal Perma-Torque Tensioner. The Perma-Torque is an adjustable elastomeric tensioner. To tension, first remove the tensioning pin, then use a  $\frac{5}{8}$ " end wrench on the exposed hex bar. Turn the tensioner towards the pulley. When you have reached the desired rating, replace the tensioning pin. The  $\frac{1}{4}$ " diameter hole in the hex bar will be in line with the holes in the mounting spool and the hole in the tensioner. This helps to align the tensioning pin. You may optionally choose to use a crescent wrench, pipe wrench, large screwdriver or pry bar in place of the  $\frac{5}{8}$ " end wrench.

### Guideline for tensioning belt cleaning systems

Blade width (mm)	Blade width (in)	No. of holes	Lbs of force	
250-675	10-26	4	20	Single Tensioner
700-975	28-38	5	25	
1000-1375	40-54	4	20	Dual Tensioner
1400-1825	56-72	5	25	

### Do Not Overtension

Overtensioning will result in increased blade wear

**Installation is now complete.**

Maintenance or retensioning should not be required throughout the life of the blade.

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