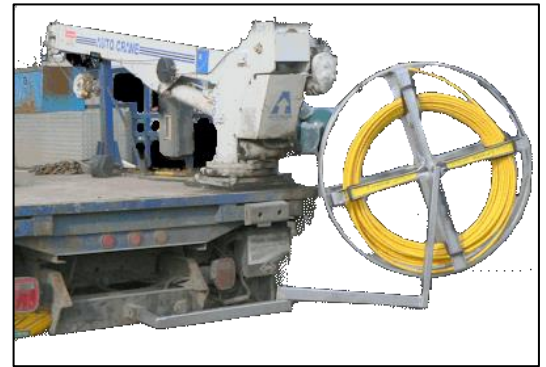





# 1/2", 3/4", 1" Mini PE Pipe Reeler Assembly and Instructions



## Part # and Material List

## 1/2", 3/4", 1" Mini PE Pipe Reeler Part #

		
1.	2.	3.
Description		Part #
1.	With Cart 1/2"-1" Mini PE Pipe Reeler	73-5001000
2.	No Cart 1/2"-1" Mini PE Pipe Reeler	73-5001001
3.	Hitch Mount 1/2"-1" Mini Pipe PE Reeler	73-5001002
Maximum Coil Size: 46" O.D. x 15" Wide		

Material List		
1. With Cart	2. No Cart	3. Hitch Mount
4 x Reel Sections 2 x Center Hubs 16 x 5/16" Carriage bolts 1 x Cart with Tires 2 x 3/8" x 2 1/4" bolts w nuts 1 x Stand 1 x 15" Reel PVC Spacer tube (inside metal tube) 4 x Ring Bands 1 x 1/4" Linchpin 1 x Handle 1 x 1" Washer 1 x 1" Shaft <i>Optional Tracer Wire Spool Holder Available</i>	4 x Reel Sections 2 x Center Hubs 16 x 5/16" Carriage bolts 1 x 5/8" Receiver Pin and Cotter Pin 1 x 15" Reel PVC Spacer Tube (inside metal tube) 4 x Ring Bands 1 x 1/4" Linchpin 1 x 1" Shaft 1 x 1" Washer <i>Optional Tracer Wire Spool Holder Available</i>	4 x Reel Sections 2 x Center Hubs 16 x 5/16" Carriage bolts 1 x Hitch-Receiver Assembly 1 x 5/8" Receiver Pin and Cotter Pin 1 x 15" Reel PVC Spacer Tube (inside metal tube) 1 x 1/2"x 6" Pin 4 x Ring Bands 1 x 1/4" Linchpin 1 x 1" Shaft 1 x 1" Washer 1 x 5/8" Bolt and Lock Nut <i>Optional Tracer Wire Spool Holder Available</i>

## Introduction:

## PLCS

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Updated: 03/30/2021

This work guide provides information on the 1/2"-1" Mini Reeler correct use for polyethylene coil pipe. This technology enables dispensing PE coil pipe in a safe and organized manner. It is highly recommended to have this procedure with you when carrying out work using this equipment.

### **Safety Statements:**

**READ THE OPERATING INSTRUCTION:** reading the setup and operating instructions prior to beginning the procedure will save valuable time and help prevent injury to operators or damage to equipment.

**ALWAYS FOLLOW YOUR COMPANY PROCEDURES:** **your company procedures override anything presented in this document.**

**INSPECT REEL AND ACCESSORIES:** prior to setup, physically inspect the tool and its accessories. look for worn parts, loose bolts or nuts, etc. a properly maintained reel will greatly decrease the chance of injury.

**SECURE LOOSE CLOTHING, LONG HAIR & JEWELRY:** these items could get caught in the rotating parts. removing or securing them will reduce the chance for injury.

**KEEP WORK AREA CLEAR:** be sure to keep the work area free of clutter and nonessential materials. only those personnel directly associated with the work being performed should have access to the area.

**ALWAYS WEAR COMPANY APPROVED PERSONAL PROTECTIVE EQUIPMENT (PPE):** impact resistant eye protection and any company approved personal protective equipment must be worn while operating or working near the Reel.

**ALWAYS USE CAUTION:** Operators of this equipment are solely responsible for safe transport and operations.

### **ALWAYS SECURE EQUIPMENT AND CARGO**

**ALWAYS SECURE PIPE ENDS:** when not in use and during transport.

**ALWAYS SECURE REEL AND COIL:** to prevent rotation when not in use and during transport.

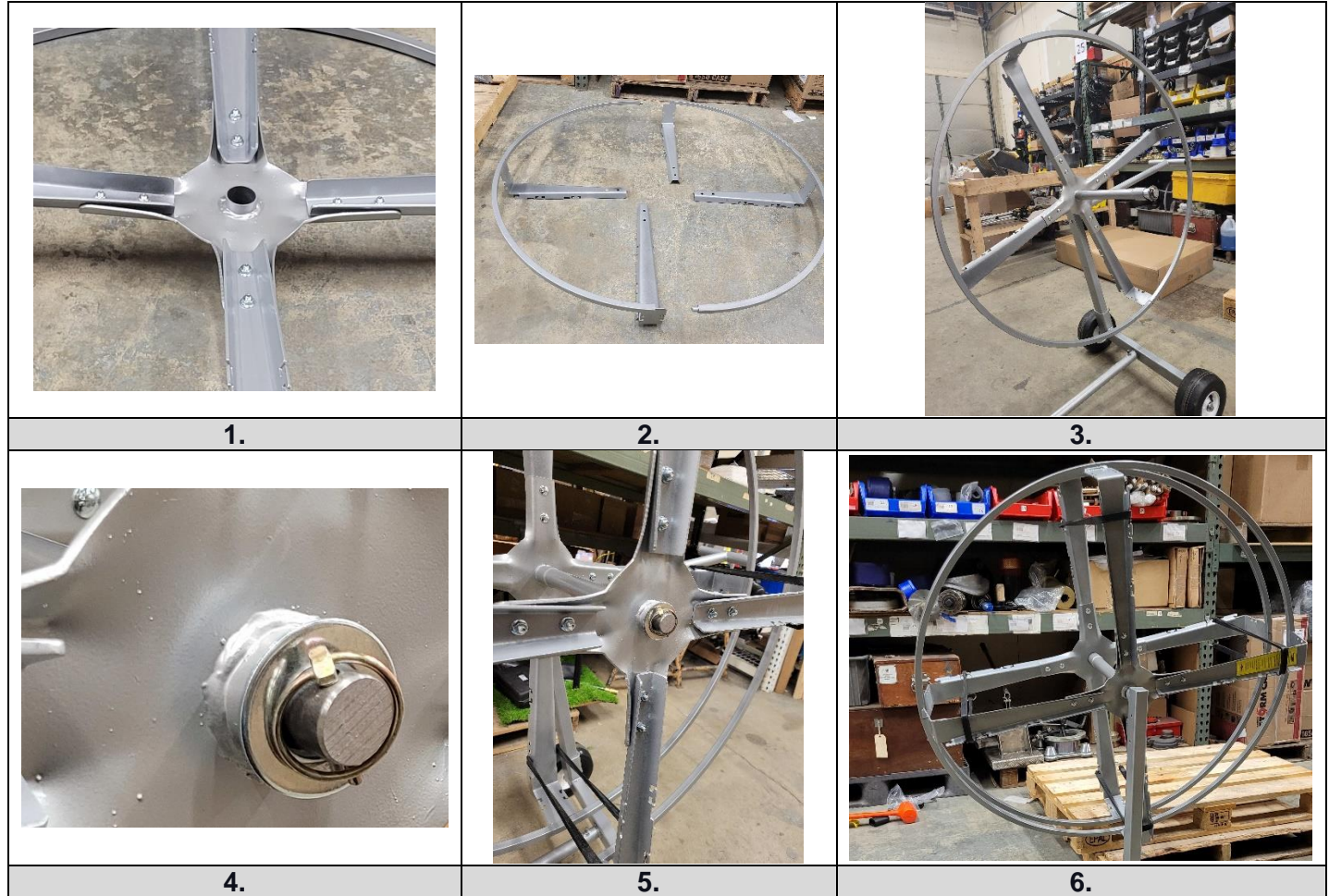
**PRIOR TO USE AND TRANSPORT:** Inspect Reel halves are installed correct and the center shaft is secure. Retighten hex screw when necessary.

**PRIOR TO USE AND TRANSPORT:** check shaft retaining linchpin is secure through the shaft hole and spring retainer is in the down position.



## Reel Assembly

1. Insert carriage bolts through square holes of the hub and reel spokes. (Photo 1)
2. Do not tighten nuts until each reel halves match. (Photo 1)
3. If ends do not go together, switch reel halves. (Photo 2)
4. Once aligned, tighten nuts against the spokes. (Photo 1)
5. The Spindle shaft fits through the center Reel hole and is held captive with a Linchpin. (Photo 4-5)
6. Completed Reel (Photo 6)



## Cart Assembly

1. Slide the Stand Extension into receiving tube on the Cart and secure it with a set screw. (Photo 7)
2. Slide Stand receiver into the other end of Stand Extension and secure it with the 3/8" bolt. (Photo 8)
3. Fasten the Handle and optional tracer wire spool shaft onto the upright support tube using 3/8" x 2" bolts fitted through the Handle Bracket and tighten with 3/8" nuts. (Photo 9)



*At times, fastening holes do not perfectly align. Use a round file to slightly open the hole until the bolt slides through the hole.*

## Operating Reel with the Cart

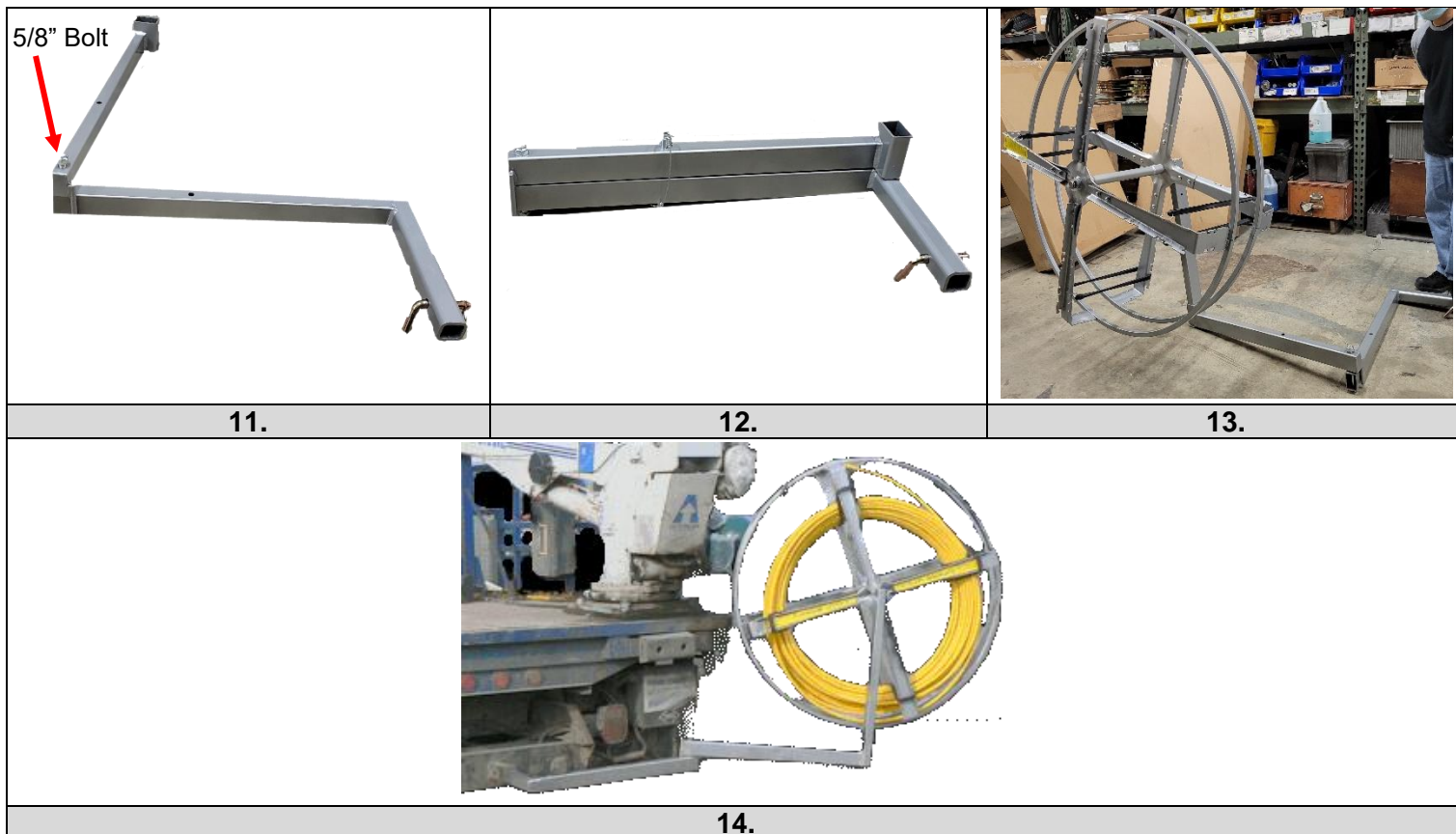
1. Place a block or weight on the Stand to prevent tipping.
2. The optional tracer wire spool installs by inserting the Tube Extenders into the receiver located on the Stand.
3. Insert the wire spool hole through the shaft. (Photo 10)

*Use care not to pinch your fingers when lifting the spool and shaft onto the Extenders.*



## Hitch Mount Assembly

1. Attach top extension to the bottom extension using the 5/8" pivot bolt and locknut (Photo 11)
2. Insert 1" Shaft detent end without the hole into the collar at the top of the riser.
3. Firmly tighten the hex screw into the detent.
4. Prior to each use check shaft and retighten hex bolt if necessary.
5. Lock hinge assembly by aligning both extension tubes and inserting a 6" pin through all four holes.
6. Insert Hitch Stinger into the Vehicle Hitch Receiver.
7. Secure with Hitch with the 5/8" Bent Pull Clevis Pin and insert Cotter Pin.
8. Assembly is complete, and the Reel will swing out of the way when access to the vehicle rear is needed.





## Secure PE Coil to Reel

1. Remove one Reel half. (Photo 15)
2. Reinsert center shaft. (Photo 15). **NOTE: Do not cut coil shipping bands at this time.**
3. Position the coil so the pipe can be pulled off from the top.
4. Install coil by suspending it with one Ring Band at the 12 o'clock position within the Reel half.
5. Push to fit opposite Reel half through the shaft to enclose the coil.
6. Fit Linchpin and washer onto the shaft end.
7. Align spider wheel, so each opposite spoke is parallel.
8. Wrap the second Ring Band at the 6 o'clock position by securing the ring into a T-Slot (Photo 17) and pull it to the opposite spoke over the U-Slot (Photo 18) and secure it to the adjacent T-Slot next to the other secured ring. (Photo 18)
9. Secure all Ring Bands in the same manner.

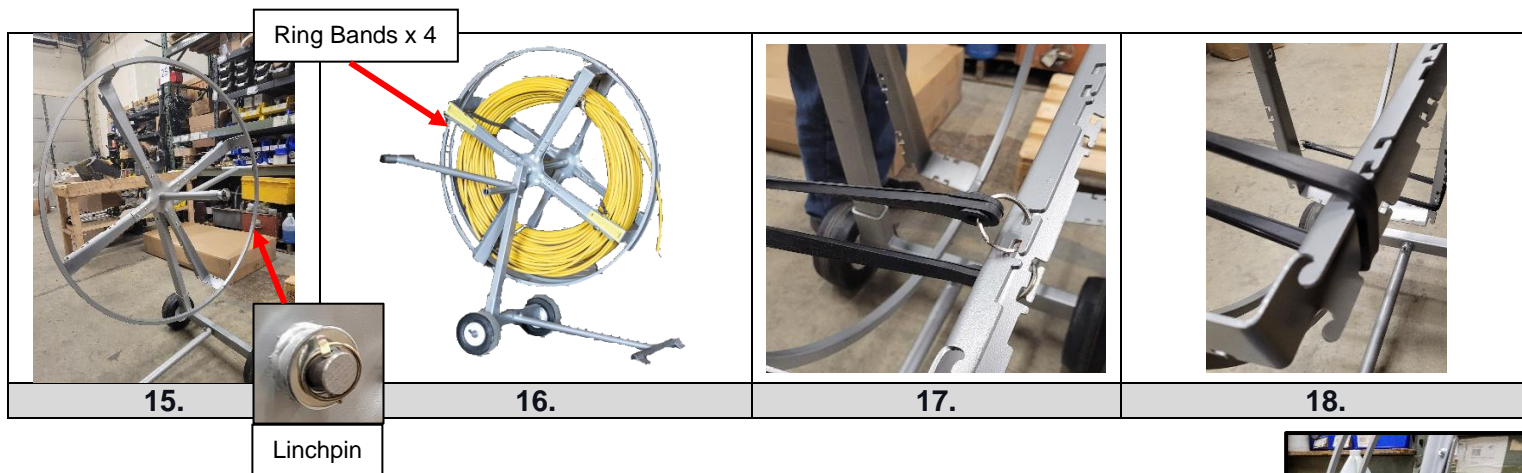
**NOTE: The Ring Bands create retaining pressure against the inside of the coil during pipe dispensing. Without them, pipe coil dispensing will be difficult.**

10. At this time cut the coil shipping bands.

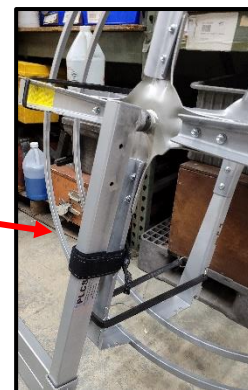
**NOTE: If the coils are strapped in layers, cut the first layer, then dispense the remaining pipe before cutting the next layer.**

11. Dispense pipe from the top of the coil.

**NOTE: On each Spider Wheel Spoke, multiple T-Slots and U-Slots positions for various coil sizes to achieve the optimal coil tension while pipe dispensing. For example, smaller coils are tensioned by securing the Ring Bands away from the center. Larger coils are tensioned by securing the Ring Bands closer to the center.**



**Always secure Spider Wheel with a Heavy-Duty Velcro Strap or company approved strap to prevent it from spinning during transport or not in use.**



### 1/2-1" Mini PE Pipe Reeler Speciations

All Reeler Styles are Steel Painted Construction

- With Cart 73-5001000
- No Cart 73-5001001

#### Hitch Mount 73-5001002



**A. Hitch Mount Fully Extended**

**B. Hitch Mount Folded**

Description	Dimension	Hitch Mount Description	Dimension
Spider Wheel Outside Diameter	47.25"	Spider Wheel Outside Diameter	47.25"
Spider Wheel Width (Spoke to Spoke)	15.50"	Spider Wheel Width (Spoke to Spoke)	15.50"
Spider Wheel Width with Vertical Support (Spoke to Rectangular Tubing 2-1/2" x 1-1/2")	22"	Spider Wheel Width with Vertical Support (Spoke to 2-1/2" x 1-1/2" Rectangular Tubing)	22"
Total Height with Cart	60"	Hitch Receiver Tubing	2" x 2"
Wheelbase Width (Axle to Axle)	29"	Hitch Receiver 1/2" Pin Hole Diameter Location from Edge	2.5"
Bottom Edge of Spider Wheel (6 o'clock) to Ground	5"	Hitch Receiver Length from 1/2" Pin Hole when Inserted into Receiver	10"
T-Handle to Edge of Stabilizing Foot	50"	Each Extender Arm (Stationary and Movable) 2-1/2" x 1-1/2" Rectangular Tubing	32"
T-Handle Length	34"	A. Hitch Mount Fully Extended (from Hitch Receiver Hole to Outside Edge of Reel)	65"
Total Empty Weight with Cart	90.lbs.	B. Hitch Mount Folded (from Hitch Receiver Hole to Outside Edge of Reel)	32.50"
Total Empty Weight w/o Cart	70 lbs.	Hitch Mount Total Empty Weight	93 lbs.
Maximum Coil Size: 46" O.D. x 15" Wide			
Freight: Unassembled, 1 Carton, 50" L x 30" W x 9" H			

#### PLCS

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Updated: 03/30/2021



Replacement Parts			
Item#	Part #	Section	Description
1	73-PM-1001	Base Unit	Reel Section (four per unit)
2	73-PM-1002		Center Hub (two per unit)
3	73-PM-24		5/16" carriage bolts
4	73-PM-25		5/16" serrated lock nuts
5	73-PM-1003		Tension Ring Bands (four per unit)
6	73-PM-12		Reel Mounting Shaft Assembly
7	73-PM-1004		Center Shaft
8	73-PM-1005		Inner Bushing PVC Tube
9	73-PM-1006		Outer tube (both ends flared)
10	73-PM-31		1/4" Linchpin
11	73-PM-32		1" Washer
12	73-PM-1007		Reel Mounting Post with shaft receiver
13	73-PM-14		Wire Spool Holder Assembly
14	73-PM-2001	Cart	Cart Base unit with Reel Mounting Receiver
15	73-PM-2005		(2) tire and wheel package w/ (2) 1/8" cotter pin
16	73-PM-2002		Base stand, (4) 3/8" x 1" bolts and serrated lock nuts
17	73-PM-2003		T-Handle, (2) 3/8"x2 1/4" bolts and serrated lock nuts
18	73-PM-3001	Hitch Mount	Stinger w/ lower cross member (welded assembly)
19	73-PM-40		5/8" Hitch Pin
20	73-PM-41		1/8" Cotter Pin
21	73-PM-3002		Upper Cross member
22	73-PM-3003		Lower Cross member
23	73-PM-44		1/2"x 6" lock Pin
24	73-PM-41		1/8" Cotter Pin
25	73-PM-45		5/8"x 6" bolt
26	73-PM-46		5/8" Flat Washer
27	73-PM-47		5/8" Lock Nut