



A Division of Transportation Equipment Inc.



Pulltarps 7" Aluminum Arm System

(With Four Spring Aluminum Arm System for

Applications to 22 Feet in Length

(Part numbers 204-0215 & 501-0783)

10/30/09

OPERATING DESIGN: Tarpaulin shall deploy by means of an electrically driven roller spool using spring-loaded pivots connected to arms attached to the side of the dump body. Complete tarping function to be performed from ground level or truck cab. Tarp system shall come with all required mounting hardware, electric wire, switch, and breakers. Nuts, bolts, brackets, hardware, and arm pivots shall be zinc plated to prevent rust.

A. TARPULIN ROLLER SPOOL: Tarp spool shall consist of the following:

A.1 Tarp spool shall be driven by means of a direct gear drive motor

A.1.1 Superwinch motor to be 12 or 24 volt as required and produce 1.1 horsepower minimum.

A.1.2 Motor to be lubricated and sealed from the factory.

A.1.3 Motor controlled by sealed reversing solenoid with remote low voltage rocker switch. Switch panel, terminal ends and terminal covers are provided.

A.1.4 six-gauge duplex service wire and supply breaker to be provided.

A.2 Tarpaulin roller spool shall be a minimum 3" galvanized steel tube and shall be sealed from weather.

A.2.1 Roller tube shall have a groove for full width insertion and retention of the tarpaulin, by means of a nylon hem tube.

A.3 Tarpaulin roller spool shall pivot on heavy-duty nylon bushings.

A.3.1 Bushings shall pivot on a minimum 1/2 inch diameter, zinc plated steel roller stub shaft.

A.4 Tarpaulin roller spool shall be designed so that the tarp shall roll off the top or bottom of the spool.

A.5 The ends of the roller spool shall be supported by minimum 3/16" thick, aluminum end plates 7" tall and protected by a full width aluminum wind guard.

A.5.1 Aluminum end plates and full width aluminum wind guard shall be supplied with steel or aluminum weld on mounting brackets, which utilize bolts of sufficient strength to safely secure the enclosure to the vehicle bed.

A.5.2 Aluminum end plates shall have a time saved finish.

B. SPRING PIVOT ASSEMBLY: Spring arm assemblies shall consist of the following:

B.1 Spring arm pivot to be manufactured out of heavy cast aluminum and contain four springs per side.

B.1.1 Pivot shaft is designed for compact side mounting.

B.1.2 Springs are to be spiral wound.

B.1.3 Each spring provides no less than 59 foot-pounds of torque.

B.2 Arm sections are to be of heavy-duty common standard size aluminum tubing that is easily replaceable.

B.2.1 Upper arm sections to be made of common standard size aluminum tubing 1.66 inches in diameter and have a .120-inch minimum wall thickness.

B.2.2 Optional upper arm sections are available with a 35-degree bend, 24 inches from the end.

B.2.3 Upper arm sections attach to pull bar by means of solid cast aluminum connecting elbows.

C. TARPAULIN FABRIC: Tarpaulin fabric shall consist of one of the following:

C.1 Asphalt tarpaulin fabric shall be 14-ounce nylon vinyl fabric coated on both sides (A-2) with urethane. Tarpaulin fabric shall be impermeable to water or moisture, and shall be resistant to mildew and ultra violet light. Tarpaulin fabric shall withstand normal handling and placement at temperatures from -35 degrees Fahrenheit to 400 degrees Fahrenheit without endangering the structural integrity and serviceability of the fabric.

C.2 Heavy duty open weave black or red PVC coated polyester mesh.

C.3 18-ounce vinyl coated nylon fabric. Tarpaulin fabric shall be impermeable to water or moisture, and shall be resistant to mildew and ultra violet light. Tarpaulin fabric shall withstand normal handling and placement at temperatures from -35 degrees Fahrenheit to 375 degrees Fahrenheit without endangering the structural integrity and serviceability of the fabric.

- D. TARPULIN CONSTRUCTION: Double-lock stitching.
- D.5 Optional large #4 brass grommets attached to the sides of the tarps at specified Centers of 3” or 6”.

- E. SIDE FLAPS & TIE DOWNS: Ground operated integrated system.
 - E.1 Side flaps to be integral part of tarp and retract fully into the housing enclosure. Side flaps to be secured by flap rope passing through large #4 brass grommets attached to the edge of the flap. Side flaps to extend a minimum of 17” from edge of tarp.
 - E.2 Tie down system to be integral part of tarp and retract fully into the housing enclosure. Tie downs to be secured by tie down rope passing through tie down straps large #4 brass grommets attached to the ends of the straps. Tie downs to be constructed of fabric matching that of the tarp and extend a minimum of 3” from edge of tarp.

- F. WARRANTY:
 - F.1 The Automatic Arm System carries a one year guarantee on all moving parts, and a life time guarantee on the UHMW bushings.
 - F.2 Electric motor carries a three-year manufacturer’s prorated warranty.