

# Rack 'n Pinion Strong Arm™

**PIONEER**

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## RP4500SAR/SARG



This **Rack 'n Pinion tarp system** has been the system of choice in the roll-off industry for over ten years. Our patented hydraulic arms and gear assembly combined with our Strong Arm technology and Everlast Tarp Roller produce the only fully hydraulic system known for reliability and low maintenance. The Strong Arm concept uses a greatly strengthened base arm which attaches to the Rack 'n Pinion pivot. The extended "C" Channel provides better leverage, greater control and longer life.

## Features

- ▶ For roll-off trucks hauling different height containers
- ▶ Patented Rack 'n Pinion pivot assembly for consistently precise tarp movement
- ▶ Stronger arms provide longer life: 3/16 A500B steel with ¼" extended, reinforced "C" Channel
- ▶ Telescoping arms have 36" stroke and nitrited rod cylinders for minimized corrosion and longer life
- ▶ Quick tarp attachment
- ▶ Cylinders mounted externally for maximum accessibility and maintenance
- ▶ Spring loaded Everlast roller assembly
- ▶ Offset stabilizer bar virtually eliminates roller damage
- ▶ Ratchet and pawl system for safer tarp installation
- ▶ Heavy Duty mesh tarp
- ▶ Fixed gantry (SAR)
- ▶ Hydraulic gantry (SARG)
- ▶ Patent #: 5,829,818 & 4,874,196

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## RP4500SATR

*Adjustable gantry extends from 60" to 96".  
System shown here on a truck, not a trailer.*

3 year  
non-prorated  
warranty against  
system mechanical  
defects – Best in  
industry



**Rack 'n Pinion STRONG ARM™** systems utilize rack and pinion technology for controlled side arm movement. A hydraulic cylinder moves a rack gear forward and backwards. The rack gear is mated with a pinion gear attached to the base of the pivot arms. This arrangement creates a mechanical advantage which provides continuous control over speed and precise synchronization of the pivot arms as they cover and uncover the container.

## Features

- ▶ For trailers and containers in lengths up to 32'
- ▶ Patented Rack 'n Pinion pivot assembly for consistently precise tarp movement
- ▶ Adjustable gantry moves vertically from 60" to 96"
- ▶ Roller mounted on gantry, reducing stress on framework
- ▶ Spring loaded roller assembly
- ▶ Fixed length unbreakable pivot arms
- ▶ 9' x 35' Heavy Duty mesh tarp reinforced at front and rear with urethane coated nylon for wear resistance
- ▶ Patent #: 5,829,818 & 4,874,196