

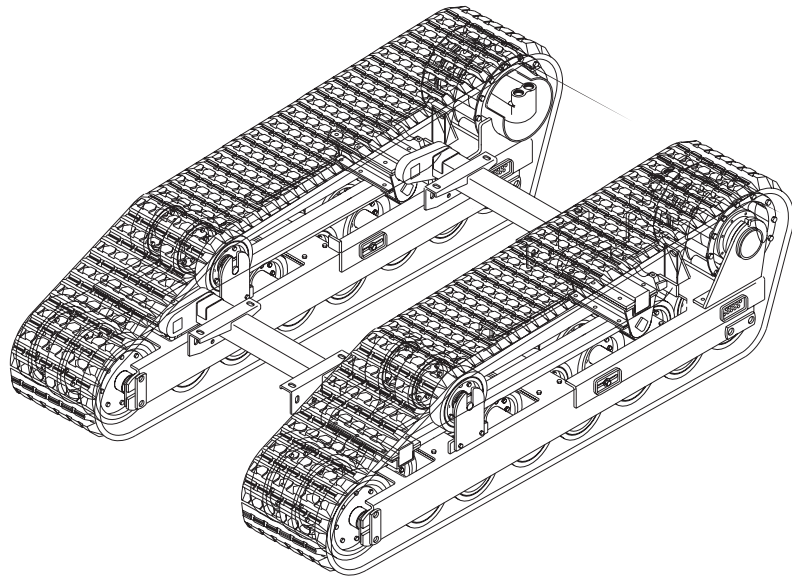


# RT•100 Undercarriage

## Specifications

### Rubber Track Undercarriage with Suspension

10,000 lb/4536 kg GVWR  
with Planetary Drive



#### Description:

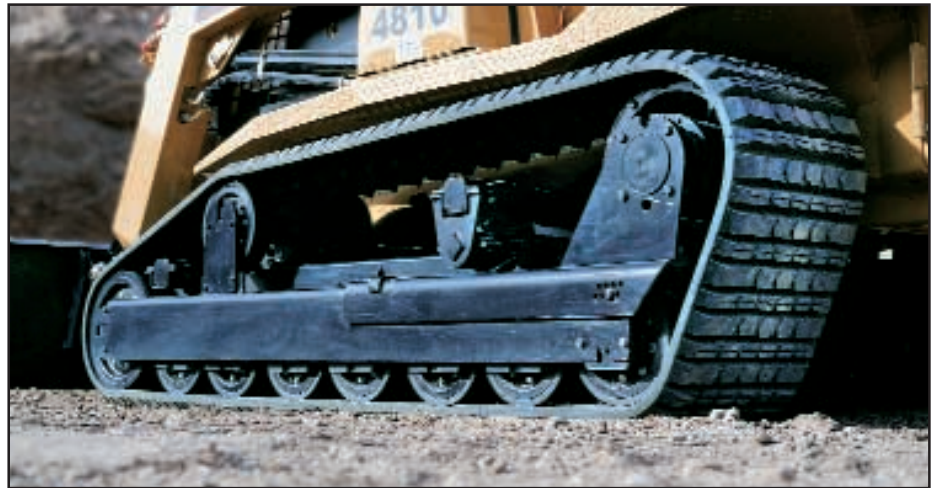
The ASV RT•100 is a patented undercarriage with 18 in./475 mm wide rubber tracks, multiple levels of suspension and planetary gear final drive. This undercarriage was originally designated ASV's Maximum Traction & Support System™ and used on 4500 Series, 2800 Series and the 4810 All Purpose Crawlers (below). The RT•100 undercarriage is now available to original equipment manufacturers for application on equipment with up to 10,000 lb/4536 kg gross vehicle weight.

The RT•100 features a durable and field-proven rubber track. The track is constructed using a proprietary process which molds a durable rubber compound around high-tensile strength cords that prevent track stretch. Low-profile grousers are molded into the track.

The undercarriage spreads the machine weight over a wide ground surface area to provide high flotation, optimum traction and smooth operation. It is ideal for applications where relatively fast machine speeds, excellent rimpull and low ground pressure are desired.



RT•100 Undercarriage on  
ASV 4810 All Purpose  
Crawler

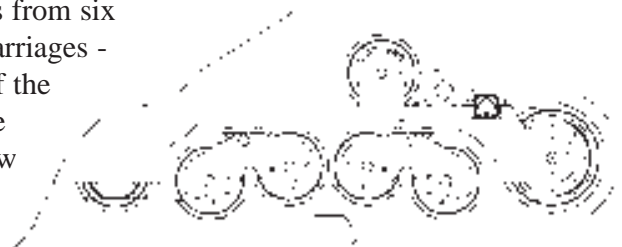


The undercarriage features an internal positive drive system. A direct-drive, low-speed/high-torque hydrostatic motor on each side drives an elevated drive sprocket. Roller sleeves on the drive sprocket mesh with two rows of sturdy rubber lugs on the inside of the track for smooth, low-noise operation. The undercarriage drive system will handle up to 110 hp/82 kW input and maximum continuous hydraulic pressure of 3500 psi/24 115 kPa.

The RT•100 uses only rubber-on-rubber contact points between the track and undercarriage components. This minimizes component wear and makes for smooth, quiet operation.

Twenty-four rubber wheels within the undercarriage spread machine weight over a large ground contact area and span the rubber track from edge to edge. In an application with a 10,000 lb/4536 kg GVW, the ground pressure would be only 3.5 psi/24 kPa.

The RT•100 undercarriage features multiple levels of suspension. As a result, the undercarriage provides exceptional traction, stability and smooth operation over rough, uneven surfaces. Two rubber torsion axles suspend the undercarriage system from the host machine frame. Each side of the suspension is able to flex independently of each other and of the machine frame. A second level of suspension comes from six articulating wheel carriages - three on each side of the undercarriage. These wheel carriages allow the machine to maintain maximum



# RT•100 Rubber Track Undercarriage

---

traction, even when passing over objects. These two levels of suspension provide maximum protection against impacts, not only to the undercarriage as it travels over rough and uneven surfaces but also reduces vibration and impact to the machine. The result is smooth and comfortable operation which extends undercarriage and machine life and increases operator satisfaction. For material handling applications, the suspension helps increase material retention.

The RT•100 is a very low maintenance undercarriage. Track tension adjustments are rarely required and are a simple process. Roller wheels feature oil bath lubrication and sealed bearings.

## Specifications:

<b>Undercarriage width:</b>	69 in./1753 mm
<b>Undercarriage height:</b>	30 in./762 mm
<b>Undercarriage length:</b>	100 in./2540 mm
<b>Undercarriage weight:</b>	4,000 lb./ 1815 kg
<b>Track width:</b>	18 in./457 mm
<b>Track length (on ground):</b>	78.5 in./1994 mm
<b>Track weight (each):</b>	265 lb./120 kg
<b>GVWR:</b>	10,000 lb/4536 kg
<b>Carrying Capacity:</b>	approx. 6,000 lb./2722 kg
<b>Ground Pressure at GVWR:</b>	3.5 psi/24 kPa
<b>Ground Contact Area:</b>	1,183 in. <sup>2</sup> /.76 m <sup>2</sup>
<b>Maximum HP Input:</b>	110 hp/82 kW
<b>Maximum Continuous Hydraulic Pressure:</b>	3,500 psi/24 115 kPa
<b>Drive System:</b>	Planetary gear drive, hydraulic piston motor
<b>Drive Type:</b>	Internal positive
<b>Track construction:</b>	Proprietary-molded around a high-tensile strength chord
<b>Suspension:</b>	Dual axle, rubber torsion
<b>Rollers:</b>	Forty-eight all-rubber wheels. Wheel bearings are sealed with oil-bath lubrication.
<b>Track Adjustment:</b>	Adjustable track rail



### Comparative Specifications - ASV Undercarriages

	<b>RT•30</b>	<b>RT•50</b>	<b>RT•70</b>	<b>RT•100</b>	<b>RT•100D</b>	<b>RT•120</b>
<b>U/C width (in/mm):</b>	46 / 676	60 / 1524	66 / 1676	69 / 1753	69 / 1753	84 / 2134
<b>U/C length (in/mm):</b>	68.5 / 1740	75 / 1905	102 / 2591	100 / 2540	100 / 2540	120 / 3050
<b>Track width (in/mm):</b>	10.75 / 1397	15 / 381	18 / 475	18 / 475	18 / 475	24 / 609
<b>Carrying capacity (lb/kg):</b>	2000 / 907	4600 / 2090	4500 / 2040	6000 / 2722	6000 / 2722	7500 / 3402
<b>Max. input power (hp/kW):</b>	30 / 22.4	50 / 37.3	70 / 52	110 / 82	110 / 82	125 / 93
<b>Drive system:</b>	Hyd. direct	Hyd. direct	Hyd. 2:1 chain drive	Planetary	Hyd. direct	Planetary

**ASVRT100**  
**August, 2002**

ASV Inc.  
 A Caterpillar Affiliate  
 840 Lily Lane  
 P.O. Box 5160  
 Grand Rapids, MN 55744  
 Phone: (800) 346-5954  
 Fax: (218) 327-2376  
[www.asvi.com](http://www.asvi.com)