

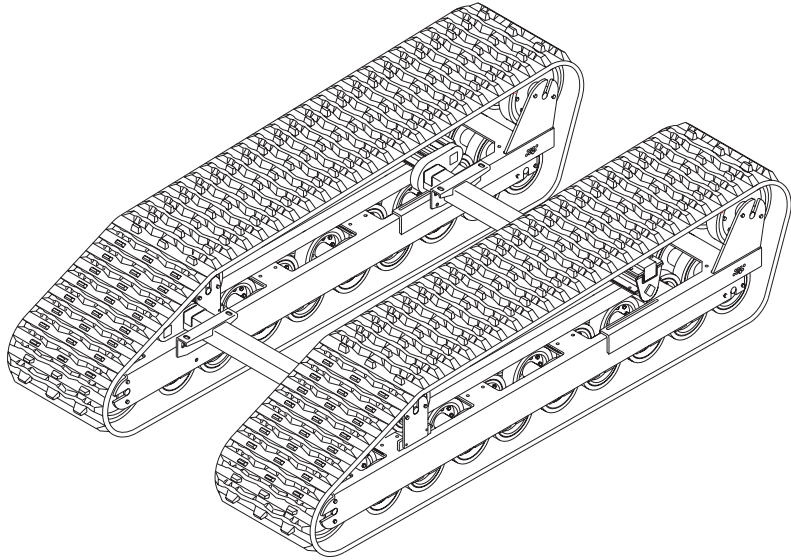


# RT•120 Undercarriage

## Specifications

### Rubber Track Undercarriage with Suspension

12,000 lb/5443 kg GVWR  
with Planetary Drive



#### Description:

The ASV RT•120 is a patent-pending undercarriage with 24 in./609 mm wide rubber tracks, multiple levels of suspension and planetary gear final drive. This undercarriage was originally designed for ASV's DX 4530 (below). The RT•120 undercarriage is now available to original equipment manufacturers for application on equipment with up to 12,000 lb/5443 kg gross vehicle weight.

The RT•120 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. Grousers are molded into the track for added traction in snow and other soft underfoot conditions.

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.



## ASV Product Information

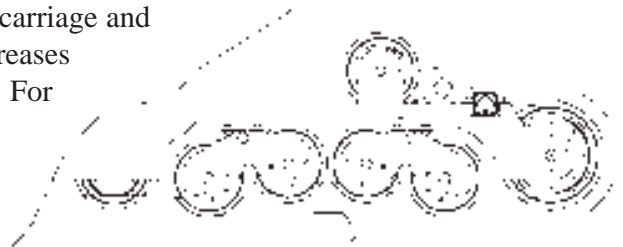
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The RT•120 undercarriage features an internal positive drive system. A planetary gear drive with hydraulic piston motor on each side drives an elevated drive sprocket. Roller sleeves on the drive sprocket mesh with two rows of sturdy rubber lugs on the inside of the track for smooth, low-noise operation. The undercarriage drive system will handle up to 125 hp/93 kW input and maximum continuous hydraulic pressure of 3000 psi/20 670 kPa.

The RT•120 uses only rubber-on-rubber contact points between the track and undercarriage components. This minimizes component wear and makes for smooth, quiet operation.

Sixty 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 12,000 lb/5443 kg GVW, the ground pressure would be only 2.5 psi/17 kPa.

The RT•120 undercarriage features multiple levels of suspension. As a result, the undercarriage provides exceptional traction, stability and smooth operation on soft, slippery and uneven terrain. 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 eight articulating wheel carriages - four on each side of the undercarriage. These wheel carriages allow the machine to maintain maximum 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•120 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.

# RT•120 Rubber Track Undercarriage

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## Specifications:

<b>Undercarriage width:</b>	84 in./2134 mm
<b>Undercarriage height:</b>	30 in./ 762 mm
<b>Undercarriage length:</b>	120 in./ 3050 mm
<b>Undercarriage weight:</b>	4,500 lb./ 2040 kg
<b>Track width:</b>	24 in./609 mm
<b>Track length (on ground):</b>	100.5 in./2553 mm
<b>Track weight (each):</b>	307 lb./ 139 kg
<b>GVWR:</b>	12,000 lb/5443 kg
<b>Carrying Capacity:</b>	approx. 7,500 lb./3402 kg
<b>Ground Pressure at GVWR:</b>	2.5 psi/17 kPa
<b>Ground Contact Area:</b>	1,183 in. <sup>2</sup> /.76 m <sup>2</sup>
<b>Maximum HP Input:</b>	125 hp/93 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>	Sixty all-rubber wheels. Wheel bearings are sealed with oil-bath lubrication.
<b>Track Adjustment:</b>	Adjustable track rail



### Comparative Specifications - ASV Undercarriages

	RT•30	RT•50	RT•70	RT•100	RT•100D	RT•120
<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

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