

# Cat® 627H

## Wheel Tractor-Scraper

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## Performance Features

### Machine Application

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The 627H is a highly productive hauling system, being both hauler and loader. It achieves its highest profit potential when used as a push pull pair. It can also self load or be push loaded by a D8 or D9-size track-type tractor.

The 627H is fast, aggressively climbs grades of 30% and can work in less than ideal underfoot conditions with all-wheel drive performance. The machine is inherently stable, carrying its load low to the ground, and it can work in a wide range of materials including combinations of clay, sand, rock, dirt and minerals.

It is highly efficient in its ability to self load then spread material in controlled lifts. It compacts and can even be used to doze material with the ejector left in the forward position.

### Performance

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The 627H has improved performance from work done to electronically integrate the Cat® C13 and C9.3 engines, torque converters and powershift transmissions. Operators will feel the results as they emerge from the loading area and go through the gears on the haul. The machine shifts quickly and smoothly by controlling clutch pressures. It moves through the gears without the loss of momentum by maintaining torque through the shift. Cycle times are quick as the 627H has 8 gears and a top loaded speed of 53.9 km/h/33.5 mph.

Complementing the speed and power of H Series are new wet disc brakes and engine compression braking. These new truck-like brakes will noticeably improve the performance of the machine.

### Operator Efficiency

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H Series introduces new levels of ergonomics. The cab has been redesigned for comfort with greater window area for visibility and a seat suspension that removes vibration and end-stroke events.

### Safety

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Caterpillar is committed to your business and the safety of your employees. The 627H offers features that demonstrate this commitment with a powered access system that delivers the operator to and from the cab with significantly less effort.

With a set of three cameras installed, the operator has new visibility to their environment with views to the rear, right side and cutting edge from a display within the cab.

Providing your crew with machines that are well maintained is a fundamental step towards reducing risk. Machine information telling you what's due for service, and how the machine is being used can keep you informed. Cat Product Link – standard on the machine – can provide you with information that will help manage your fleet and its operation.

### Integrated Technologies

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With H Series, you have the opportunity to remove about 25% of the mental demand required to operate the machine. Sequence Assist is technology that automates many of the tasks leading up to loading, hauling and dumping. With the push of a button, the machine puts itself in gear, locks or unlocks the cushion hitch, and sets bowl height, ejector position and apron height.

Load Assist is technology that puts the machine to work loading the bowl. During Load Assist operation, the operator maintains control over steering, throttle, and diff lock engagement.

Cat Grade Control is an amazing tool for driving efficiency, controlling your costs – both in handling material and fuel use – by allowing your operator to work to a plan that's right in the cab with them. On the 627H, this technology can also prevent the operator/machine from cutting too deep with cut protection.

# 627H Wheel Tractor-Scraper

## Basic Specifications

Engine	Cat C13 ACERT™	
Net Power	304 kW	407 hp
Fuel Capacity	819 L	216.3 gal
Engine	Cat C9.3 ACERT™	
Net Power	216 kW	290 hp
Fuel Capacity	1271 L	336 gal
Heaped Capacity	18.4 m <sup>3</sup>	24 yd <sup>3</sup>
Transmission	8-speed Automatic	
Top Speed	53.9 km/h	33.5 mph
Steering Angle Right	85 degrees	
Steering Angle Left	82 degrees	

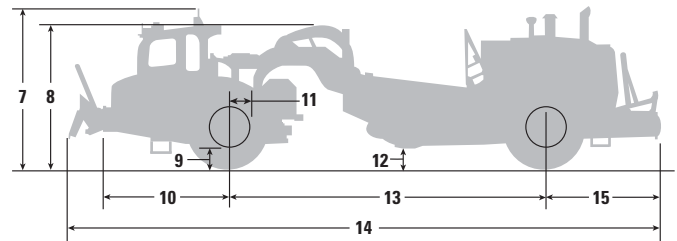
## Weights\*

Rated Load	26 126 kg	57,600 lb
Shipping Weight	41 154 kg	90,730 lb
Operating Weight – Empty	42 093 kg	92,800 lb
Loaded Weight	68 219 kg	150,397 lb
Loaded Weight Distribution	50%/50%	

\*Weights are for push pull configuration and approximate.

## Dimensions

All dimensions are approximate.



	mm	in
<b>1</b> Width – overall machine	3565	140.0
<b>2</b> Width – overall machine – Ladder down	3790	149.0
<b>3</b> Width – tractor	3381	133.1
<b>4</b> Width – rear tire centers	2290	90.2
<b>5</b> Width – inside of bowl	3048	124.6
<b>6</b> Width – outside rear tires	3165	124.6
<b>7</b> Height – overall shipping	4029	158.6
<b>8</b> Height – top of cab	3612	142.2

	mm	in
<b>9</b> Ground clearance, tractor	557	21.9
<b>10</b> Front of tractor to front axle	3119	122.7
<b>11</b> Rim radius	432	17.0
<b>12</b> Height – scraper blade maximum	540	21.3
<b>13</b> Wheelbase	7998	314.8
<b>14</b> Length – overall machine	15 673	617.0
<b>15</b> Rear axle to rear of machine	2898	114.0

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