

## Undercarriage

Equipped with Berco D3 components, lubricated chain and dozer-type rollers, the oscillating undercarriage guarantees sufficient support and high performance on all types of terrain, as well as on slopes. Customers can choose between steel track pads (standard 500 mm wide pads or 700 mm LGP pads) and 500 mm rubber track pads, with the possibility to switch from one type to another easily as the track chain remains the same. With the 700 mm LGP track pads the ground pressure drops to an unequalled 0.26 kg/cm<sup>2</sup>.



## Cabin and display

The ROPS-FOPS-OPS cab is designed to operate in confined spaces and in direct contact with surrounding vegetation. Providing maximum operator comfort, the cab is optimally sound-proofed and equipped with an air-suspension driver's seat. The cab is easy to tilt using a manually operated pump.

The controls in the cabin are arranged logically and ergonomically with a 7" colour display which monitors the main parameters, selecting the functions and settings. Also, through the display diagnostics and troubleshooting procedures can be performed and the data gets automatically saved on a USB stick.



## Cooling package

The PT-175 is equipped with an oversized high-capacity radiator for hydraulic oil, air and water to ensure optimum cooling even in the hottest operating conditions. The coarse fins of the radiator enhance efficiency by preventing dust and dirt from getting trapped, while facilitating maintenance.

The radiator can be fitted with a proportional and reversible fan. Together with the ECU, the fan position sensor controls the temperature, automatically adjusting the airflow by changing the pitch of the blades. Thus, providing just the right amount of airflow needed for efficient cooling, which results in less power absorbed and reduced fuel consumption. As well, the reversing cycle of the fan can simply be programmed by the operator through the display, making sure the radiator gets cleaned out continuously.



## Applications

- Vegetation management
- Land clearing
- Land reclamation and recovery
- Forestry maintenance
- Fuel reduction
- Shredding wood debris
- Cutting fire breaks and forest corridors
- Cutting lines
- Cutting lines for pipelines and power lines
- Maintenance of road and rail embankments
- Maintenance of river banks

# The new PT-175!



Offering the best in light/medium deforestation, the new Prime-Tech PT-175 delivers amazing performance while ensuring stability and traction even in the most demanding conditions. Its robust oscillating undercarriage guarantees excellent flotation and manoeuvrability. PrimeTech's new tracked carrier is set apart by its state-of-the-art design and high productivity in a wide range of operating conditions. This is thanks to the new 140/U forestry mulcher attachment with the innovative FAE SONIC hydraulic transmission management system: a technological solution to enhance performance by 30%!

## Engine

The CAT 4.4 engine with 173 hp and 4 in-line cylinders delivers a perfect balance of durability, fuel efficiency and low emissions, in compliance with Tier 4 Final/Stage IV emissions regulations. The new CAT engine guarantees optimal performance on steep slopes and difficult terrain. The new PT-175 is capable of working vertical 45° continuously.



## Hydraulics and electronics

The fully electronically controlled integrated speed and temperature sensors and new layout of the hydraulic components in the power train with a new hydraulic system yield the following advantages:

- enhanced performance
- optimized power control
- more compact layout
- effective diagnostics and troubleshooting
- customizing functions and settings adapted to the specific needs of the operator.

## Electrical system

The changeover to 24-volt batteries enables cold start operation (CCA-Cold Cranking Ampere) with the improved performance of electrical components while minimising downtime.

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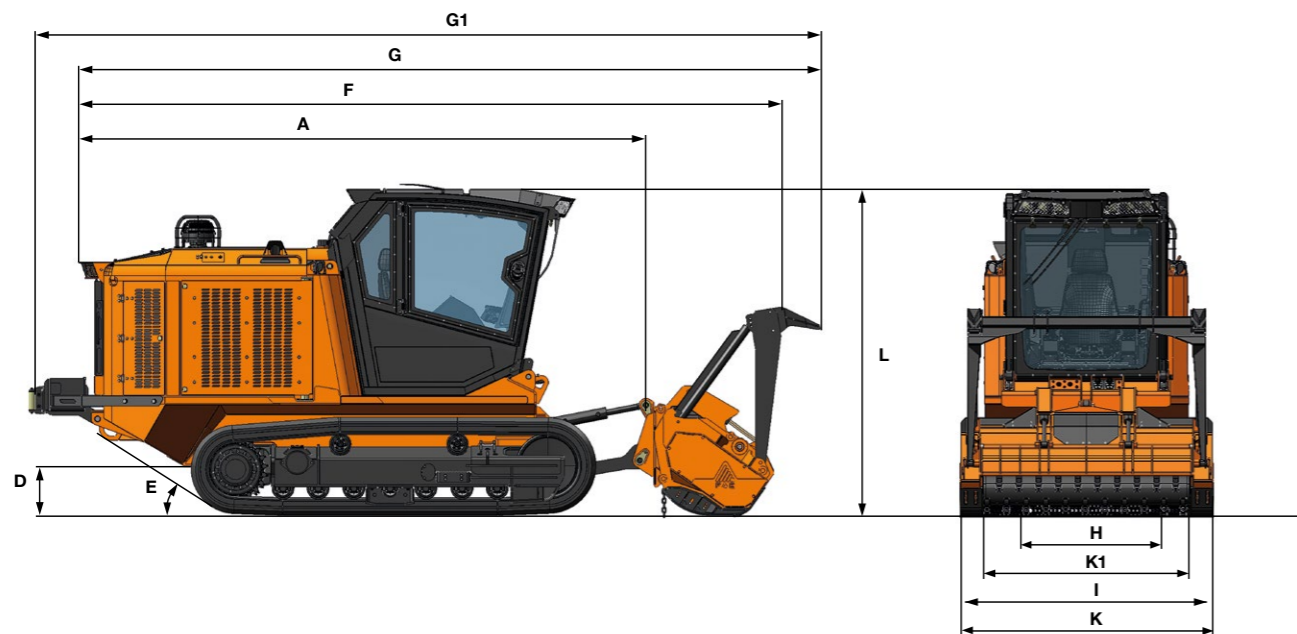
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> DIMENSIONS (side view)

<b>A</b> Overall length without mulcher	178 in	4518 mm	<b>F</b> Overall length with mulcher on ground	218 in	5538 mm
<b>D</b> Ground clearance	16 in	415 mm	<b>G</b> Transport length with mulcher on ground	233 in	5913 mm
<b>E</b> Hitch angle	33°		<b>G1</b> Transport length with mulcher on ground and winch	253 in	6422 mm
			<b>L</b> Cab height	104 in	2654 mm

> DIMENSIONS (front view)

VERSION	Seismic		STD - steel or rubber pads		LGP - steel pads	
Track width	20 in	500 mm	20 in	500 mm	28 in	700 mm
<b>H</b> Track gauge	49 in	1250 mm	61 in	1250 mm	61 in	1550 mm
<b>I</b> Overall track width	69 in	1750 mm	81 in	2050 mm	89 in	2250 mm
FAE ATTACHMENT		140/U-140	140/U-175		140/U-200	
<b>K</b> Overall width	69 in	1750 mm	85 in	2170 mm	95 in	2410 mm
<b>K1</b> Working width	55 in	1410 mm	72 in	1830 mm	81 in	2070 mm

> WEIGHT AND GROUND PRESSURE

VERSION	Seismic		STD - steel pads		STD - rubber pads		LGP - steel pads	
• Track width	20 in	500 mm	20 in	500 mm	20 in	500 mm	28 in	700 mm
• Operating weight	20944 in	9500 mm	21495 lbs	9750 kg	22046 lbs	10000 kg	22708 lbs	10300 kg
• Ground pressure	4.8 psi	0,34 kg/cm <sup>2</sup>	4.9 psi	0,35 kg/cm <sup>2</sup>	5.0 psi	0,36 kg/cm <sup>2</sup>	3.7 psi	0,26 kg/cm <sup>2</sup>

> DIESEL ENGINE

• Model	CAT 4.4	• N° of cylinders	4
• Gross power	173 HP (129 KW) @ 2200 rpm	• Torque max	553 lbf-ft 750 Nm @1400 pm
• Max power	173 HP (129 KW) @ 1900 rpm	• Fuel rate from	5 gal/h 19 l/h
• Displacement	268 in <sup>3</sup> 4,4 l	• Emission	Tier 4 Final / Stage IV

> MAIN KEYS

• Max forward speed	4 mph	7 km/h	• Gradeability	100%
• Max reverse speed	4 mph	7 km/h	• Tracks control	Danfoss Electronic Joystick
• Drawbar pull	26970 lbf	12000 daN	• Service hydr. circuit control	Danfoss Electronic Joystick
			• Parking brake	Automatic

> HYDROSTATIC TRACKS TRANSMISSION

• Pumps (2)	Danfoss	60 cc
• Motors (2)	Bosch Rexroth	60 cc
• Max pressure	6000 psi	420 bar
• Oil flow (2)	66 gal/min	250 l/min
• Hydraulic emergency stop		

> HYDROSTATIC MULCHER TRANSMISSION

• Pump	Danfoss	100 cc
• Motor	Danfoss	160 cc
• Work pressure	5250 psi	360 bar
• Oil flow	61 gal/min	230 l/min

> REFILLING

• Hydraulic oil tank	61 gal	230 l
• Fuel tank	66 gal	250 l

> UNDERCARRIAGE AND TRACKS

• Undercarriage	D3 - oscillating
• Track shoes single grouser type:	20 in 500 mm
single grouser type:	28 in 700 mm
• Rubber pads chain-on type:	20 in 500 mm

> FORESTRY MULCHER FAE140/U

MODEL	140/U-140		140/U-175		140/U-200	
• Rotor diameter	18 in	450 mm	18 in	450 mm	18 in	450 mm
• Overall width	69 in	1750 mm	85 in	2170 mm	95 in	2410 mm
• Working width	55 in	1410 mm	72 in	1830 mm	81 in	2070 mm
• Weight	3417 lbs	1550 kg	3748 lbs	1700 kg	3968 lbs	1800 kg
• Max. working depth	2 in	50 mm	2 in	50 mm	2 in	50 mm
• Grinding diameter (max)	10 in	250 mm	10 in	250 mm	10 in	250 mm
• Quantity of cutting teeth tungsten carbide type "C/3" + "C/3/SS"	28 + 4		38 + 4		42 + 2	
• Rotor rpm	2350		2350		2350	
• Hydraulic motor type	Danfoss	160 cc	Danfoss	160 cc	Danfoss	160 cc

Forestry mulcher

The PT-175 is equipped with a front-mounted hydraulically operated FAE cutting head, available in three widths:

- 140/U-140 (working width of 1410 mm)
- 140/U-175 (working width of 1830 mm)
- 140/U-200 (working width of 2070 mm)

The forestry mulcher offers a number of interesting new features, including a new push-frame design with raker teeth, adjustable skids to set the required operating depth and quick replacement screw-on counterblades to reduce maintenance costs. The innovative FAE SONIC system is an innovative feature resulting in an increase of productivity of 30%! It automatically and continuously guarantees running the rotor at the optimal torque, thus minimizing stall cycles, reducing recovery time and increasing efficiency in all kinds of operating conditions.



