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Caterpillar 140M Motor Grader



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MANUFACTURER: [CATERPILLAR](#) →

MODEL: [140M](#) →

Introducing the Caterpillar 140M Motor Grader, a robust heavy equipment machine built to tackle the toughest grading tasks with ease and efficiency. Boasting a powerful Cat C7 ACERT engine, this motor grader offers a net power range of 183 horsepower and a maximum blade position angle of 90 degrees. With a wide range of operating specifications, including an eight-speed forward and six-speed reverse

transmission, hydraulic system pump flow of 55.7 gpm, and a fuel capacity of 110 gallons, the Caterpillar 140M is equipped to handle any job, big or small. Whether you're working on construction, road maintenance, or landscaping projects, this motor grader provides exceptional performance and reliability to get the job done right.

[See all Caterpillar 140Ms for sale](#)

General Specifications

Blades

Blade Tip Range - Backward	5 degrees
Blade Tip Range - Forward	40 degrees
Circle Centershift - Left	27 in (70 cm)
Circle Centershift - Right	29 in (73 cm)
Maximum Blade Position Angle	90 degrees
Maximum Depth of Cut	28 in (71 cm)
Maximum Lift Above Ground	19 in (48 cm)
Maximum Shoulder Reach Outside of Tires - Left	71 in (179 cm)
Maximum Shoulder Reach Outside of Tires - Right	78 in (198 cm)
Moldboard Sideshift - Left	20 in (51 cm)
Moldboard Sideshift - Right	26 in (66 cm)

Circle

Blade Tip Angle - Front	40 degrees
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Blade Tip Angle - Rear	5 degrees
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Diameter	60 in (153 cm)
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Max Reach Outside Tires - Left	71 in (179 cm)
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Max Reach Outside Tires - Right	78 in (198 cm)
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Shift Left	27 in (70 cm)
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Shift Right	29 in (73 cm)
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Dimensions

Blade Base	8 ft (3 m)
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Front Ground Clearance	2 ft (1 m)
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Ground Clearance - Rear Axle	13 in (34 cm)
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Height - Exhaust Stack	121 in (307 cm)
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Height - Front Axle Center	24 in (60 cm)
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Height - Top of Cab	130 ft (40 m)
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Height - Top of Cylinders	119 in (302 cm)
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Height to Top of Isomount Cab	11 ft (3 m)
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Length - Between Tandem Axles	60 in (152 cm)
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Length - Front Axle to Mid Tandem	241 in (612 cm)
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Length - Front Axle to Moldboard	100 in (254 cm)
Length - Front Tire to Rear of Machine	344 in (874 cm)
Overall Length	29 ft (9 m)
Rear Ground Clearance	1 ft (0 m)
Tandem Axle Wheelbase	5 ft (2 m)
Wheelbase	20 ft (6 m)
Width - Outside Front Tires	98 in (249 cm)
Width - Outside Rear Tires	98 in (249 cm)
Width - Tire Center Lines	84 in (213 cm)
Width Over Tires	8 ft (2 m)

Engine

Base Power (1st Gear) - Net	183 hp (136 kw)
Base Power (1st Gear) - Net - Metric	186 hp (139 kw)
Bore	4 in (11 cm)
Derating Altitude	10,000 ft (3,048 m)
Displacement	439 cu in (7,194 cu cm)
Emissions	Emissions equivalent to U.S. EPA Tier 3 and EU Stage IIIA.
Engine Model	Cat C7 ACERT
High - Ambient Capability	122 degrees

High Ambient - Fan Speed - Maximum	1650 rpm
High Ambient - Fan Speed - Minimum	600 rpm
Max Power	183 hp (136 kw)
Net Power Gears 7-8	183 hp (136 kw)
Number of Cylinders	6
Power Measured @	2000 rpm
Speed at Rated Power	2000 rpm
Standard - Ambient Capability	109 degrees
Standard - Fan Speed - Maximum	1450 rpm
Standard - Fan Speed - Minimum	600 rpm
Stroke	5 in (13 cm)
Torque Rise - V Plus	39%
V Plus Range - Net	136-174 kW (183-233)
V Plus Range - Net - Metric	136-174 kW (186-237)

Frame

Circle - Blade Beam Thickness	2 in (4 cm)
Circle - Diameter	60 in (153 cm)
Drawbar - Height	6 in (15 cm)
Drawbar - Width	3 in (8 cm)

Front Axle - Height to Center	23 in (58 cm)
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Front Axle - Total Oscillation per Side	32 degrees
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Front Axle - Wheel Lean - Left/Right	18 degrees
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Front Frame Structure - Height	12 ft (4 m)
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Front Frame Structure - Width	12 ft (4 m)
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Front Axle

Ground Clearance	2 ft (1 m)
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Oscillation - Total	32 degrees
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Wheel Lean	18 degrees
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Hydraulic System

Circuit Type	Electro-hydraulic load sensing closed center
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Maximum System Pressure	3500 psi
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Pump Flow	56 gpm (211 lpm)
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Pump Output	56 gpm (211 lpm)
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Pump Type	Variable piston
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Relief Valve Pressure	3500 psi
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Standby Pressure	450 psi
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Moldboard

Arc Radius	16 in (41 cm)
Blade Pull - Base GVW	24,294 lbs (11,020 kg)
Blade Pull - Maximum GVW	31,758 lbs (14,405 kg)
Blade Pull at Max Weight	45,788 lbs (20,769 kg)
Blade Width	12 ft (4 m)
Cutting Edge Thickness	1 in (2 cm)
Cutting Edge Width	6 in (15 cm)
End Bit - Thickness	1 in (2 cm)
End Bit - Width	6 in (15 cm)
Max Depth of Cut	28 in (71 cm)
Moldboard - Height	24 in (61 cm)
Moldboard - Thickness	1 in (2 cm)
Moldboard - Width	12 ft (4 m)
Moldboard Height	24 in (61 cm)
Moldboard Length	12 ft (4 m)
Moldboard Thickness	1 in (2 cm)
Moldboard Width	12 ft (4 m)
Side Shift Left	20 in (51 cm)
Side Shift Right	26 in (66 cm)
Throat Clearance	7 in (17 cm)

Operating Specifications

Articulation Angle - Left/Right	20 degrees
Circle Gearbox Fluid Capacity	2 gal (7 l)
Cooling System Fluid Capacity	12 gal (47 l)
Forward - 1st	3 mph (4 kph)
Forward - 2nd	3 mph (5 kph)
Forward - 3rd	5 mph (8 kph)
Forward - 4th	7 mph (11 kph)
Forward - 5th	11 mph (17 kph)
Forward - 6th	15 mph (23 kph)
Forward - 7th	20 mph (32 kph)
Forward - 8th	29 mph (47 kph)
Fuel Capacity	110 gal (416 l)
Hydraulic System Fluid Capacity	16 gal (60 l)
Max Operation Weight - Front Axle	17,908 lbs (8,123 kg)
Max Operation Weight - Rear Axle	32,967 lbs (14,954 kg)
Max Operation Weight - Total	50,875 lbs (23,077 kg)
Operating Weight	33,356 lbs (15,130 kg)
Rear Diff/Final Drive Fluid Capacity	17 gal (65 l)
Reverse - 1st	2

Reverse - 2nd	4 mph (6 kph)
Reverse - 3rd	5 mph (9 kph)
Reverse - 4th	8 mph (14 kph)
Reverse - 5th	16 mph (25 kph)
Reverse - 6th	23 mph (37 kph)
Std Operation Weight - Front Axle	9,173 lbs (4,161 kg)
Std Operation Weight - Rear Axle	24,183 lbs (10,969 kg)
Std Operation Weight - Total	33,356 lbs (15,130 kg)
Steering Range - Left/Right	47.5 degrees
Tandem Case Fluid Capacity (each)	17 gal (64 l)
Top Speed - Forward	29 mph (47 kph)
Top Speed - Reverse	23 mph (37 kph)
Turning Radius - Outside Front Tires	25 ft (8 m)

Power Train

Brakes - Parking	Multiple oil disc
Brakes - Secondary	Dual circuit control system
Brakes - Service	Multiple oil disc
Brakes - Service - Surface Area	3,565 cu in (58,420 cu cm)
Forward/Reverse Gears	8 Forward/6 Reverse

Transmission	Direct drive power shift countershaft
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Ripper

Machine Length Increase, Beam Raised	36 in (92 cm)
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Penetration Force	20,540 lbs (9,317 kg)
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Pry-Out Force	26,259 lbs (11,911 kg)
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Ripper Shank Holder Spacing	21 in (53 cm)
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Ripper Shank Holders	5
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Ripping Depth - Maximum	17 in (43 cm)
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Scarifier

Front, V-Type, 5 or 11 Tooth - Scarifier Shank Holder Spacing	5 in (12 cm)
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Front, V-Type, 5 or 11 Tooth - Scarifying Depth, Maximum	18 in (47 cm)
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Front, V-Type, 5 or 11 Tooth - Working Width	47 in (120 cm)
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Mid, V-Type - Scarifier Shank Holder Spacing	5 in (12 cm)
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Mid, V-Type - Scarifier Shank Holders	11
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Mid, V-Type - Scarifying Depth, Maximum	12 in (29 cm)
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Mid, V-Type - Working Width	47 in (118 cm)
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Rear - Scarifier Shank Holder Spacing	11 in (27 cm)
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Rear - Scarifier Shank Holders	9
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Rear - Scarifying Depth, Maximum	11 in (27 cm)
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Rear - Working Width	91 in (231 cm)
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Service Refill

Circle Drive Housing	2 gal (7 l)
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Cooling System	11 gal (40 l)
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Engine Oil	7 gal (25 l)
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Front Wheel Spindle Bearing Housing	0 gal (1 l)
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Fuel Capacity	110 gal (416 l)
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Hydraulic System - Tank	17 gal (64 l)
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Tandem Housing - Each	17 gal (64 l)
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Transmission - Differential - Final Drives	17 gal (64 l)
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Standards

Brakes	ISO 3450:1996
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ROPS/FOPS	ISO 3471:2008 ISO 3449:2005 Level II
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Sound	ISO 6394:2008 ISO 6395:2008
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Steering	ISO 5010:2007
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Steering System

Articulation Angle	20 degrees
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Turning Radius	26 ft (8 m)
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Tandems

Drive Chain Pitch	2 in (5 cm)
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Height	20 in (51 cm)
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Sidewall Thickness - Inner	1 in (2 cm)
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Sidewall Thickness - Outer	1 in (2 cm)
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Tandem Oscillation - Front Down	25 degrees
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Tandem Oscillation - Front Up	15 degrees
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Wheel Axle Spacing	60 in (152 cm)
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Width	8 in (20 cm)
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Transmission

Max Speed - Forward	29 mph (47 kph)
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Max Speed - Reverse	23 mph (37 kph)
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Number of Gears - Forward	8
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Number of Gears - Reverse	6
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Transmission Type	direct drive power shift countershaft
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Weights

Gross Vehicle Weight - Base - Front Axle	9,561 lbs (4,337 kg)
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Gross Vehicle Weight - Base - Rear Axle	26,993 lbs (12,244 kg)
Gross Vehicle Weight - Base - Total	36,554 lbs (16,581 kg)
Gross Vehicle Weight - Maximum - Front Axle	16,606 lbs (7,532 kg)
Gross Vehicle Weight - Maximum - Rear Axle	35,287 lbs (16,006 kg)
Gross Vehicle Weight - Maximum - Total	51,893 lbs (23,538 kg)
Gross Vehicle Weight - Typically Equipped	41,868 lbs (18,991 kg)
Gross Vehicle Weight - Typically Equipped - Front Axle	11,716 lbs (5,314 kg)
Gross Vehicle Weight - Typically Equipped - Total	41,868 lbs (18,991 kg)
Operating Weight - Typically Equipped	41,868 lbs (18,991 kg)

Caterpillar 140Ms currently for sale

A Caterpillar 140M From Empresas MATCO SA. de CV. for \$300,000.00 USD

A 2017 Caterpillar 140M From Brandt Tractor LTD for \$179,478.00 USD

A Caterpillar 140M From Butler Machinery for \$193,000.00 USD

A 2010 Caterpillar 140M From Korpan Tractor for \$112,739.00 USD

A Caterpillar 140M From Finning CAT for \$150,000.00 USD



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