

ENGINE

570M XT

| | | | |
|----------------------------|---|--|--|
| Model | Case Family III 445T/M3 diesel, Tier III Certified | | |
| Type | 4-stroke, turbocharged | | |
| Cylinders | 4 | | |
| Bore/Stroke | 4.09 in x 5.19 in (104 mm X 132 mm) | | |
| Displacement | 274 in ³ (4.5 L) | | |
| Fuel injection | Direct | | |
| Fuel | #2 Diesel | | |
| Fuel filter | w/water trap | | |
| Air intake | Cross-flow | | |
| Cooling | Liquid | | |
| Engine speeds (rpm) | | | |
| Rated speed, full load | 2200 | | |
| Low idle | 850 - 1000 | | |
| High idle, no load | 2300 - 2450 | | |
| Horsepower | | | |
| Gross | 85 (63 kW) @ 2200 rpm | | |
| Net | 79 (59 kW) @ 2200 rpm | | |
| Maximum torque @ 1400 rpm | | | |
| Gross | 276 lb-ft (374 N·m) | | |
| Net | 270 lb-ft (366 N·m) | | |
| Torque rise at rated speed | 33% | | |

ENGINE COOLING

| | | | |
|------------------------------|--|--|--|
| Radiator | | | |
| Core type | Square wave | | |
| Core size area | 486 in ² (.31 m ²) | | |
| Rows of tubes | 3 | | |
| Fan | | | |
| Style | 7 blade suction | | |
| Diameter | 19.7 in (500 mm) | | |
| Ratio | 1.1:1 | | |
| Water pump | | | |
| Style | Integral | | |
| Engine oil | | | |
| Pump | Deep sump plate cooler with pressurized under-piston nozzles | | |
| Pump operating angle ratings | | | |
| Side-to-side | Rated 35° | | |
| Fore and aft | Rated 35° | | |
| Oil filtration | Replaceable, full-flow cartridge | | |

POWERTRAIN

| | | | |
|-----------------------|---|---------|--|
| Transmission | 4-speed synchromesh with hydraulically actuated clutches and electric F/R shuttle control, clutch disconnect buttons on the transmission shifter and loader control lever | | |
| Gear ratios | Forward | Reverse | |
| 1st | 5.491 | 5.491 | |
| 2nd | 3.043 | 3.043 | |
| 3rd | 1.584 | 1.584 | |
| 4th | 0.793 | 0.793 | |
| Torque converter | | | |
| Ratio | 3.2 | | |
| Differential-lock | On-the-go push-button activation | | |
| Front axle | | | |
| Differential ratio | 2.0 | | |
| Planetary hub ratio | 6.0 | | |
| Total reduction ratio | 12.0 | | |
| Rear axle | | | |
| Differential ratio | 2.333 | | |
| Planetary hub ratio | 6.923 | | |
| Total reduction ratio | 16.153 | | |
| Service brakes | Individually applied hydraulically actuated maintenance-free self-adjusting inboard mounted wet disc | | |
| Disc area | 53 in ² (.03 m ²) | | |

| | | | | |
|----------------------------|---|---------------|----------------|----------------|
| Parking brakes | Mechanically applied with electric activation sensors at each brake | | | |
| Travel speeds – mph (km/h) | | | | |
| | 1st | 2nd | 3rd | 4th |
| Forward | 3.8 (6.1) | 6.9 (11.1) | 13.0 (21.0) | 25.2 (40.5) |
| Reverse | 3.8 (6.1) | 6.7 (11.1) | 13.0 (21.0) | 25.2 (40.5) |

NOTE: Travel speeds at 2334 engine rpm with 19.5L x 24 rear tires. Speeds decrease with 17.5L x 24 rear tires.

ELECTRICAL

| | | | |
|--------------------|-------------------------------|--|--|
| Voltage | 12 Volts, negative ground | | |
| Alternator | 90 amp (2.5 kW) | | |
| Battery | 685 cold-cranking amps | | |
| Optional batteries | (2) 525 cold-cranking amps | | |

HYDRAULICS

| | | | |
|--|---|--|--|
| Pump | Gear-type, transmission mounted | | |
| Loader flow @ rated engine rpm | 28.5 gpm @ 3000 psi (108 L/min @ 207 bar) | | |
| Loader control valve | Sectional 2 or 3-spool with single lever control for lift, tilt and auxiliary hydraulics, positive hold float and return-to-dig | | |
| 3-pt. hitch flow @ rated engine rpm | 0 to 8 gpm @ 2000 psi (0 to 30 L/min @ 137 bar) | | |
| 3-pt. hitch control valve | Sectional 4-spool, open-center parallel circuits with variable control for lift, pitch, tilt and 1 auxiliary | | |
| Loader auxiliary hydraulics | 12 to 28.5 gpm (45.4 to 108 L/min) | | |
| Main relief pressure | 3050 + 50 - 50 psi @ 28.5 gpm (210 + 3 - 3 bar @ 108 L/min) | | |
| Filtration | 7-micron, full flow replaceable cartridge on return line, condition indicator light for filter | | |
| Oil cooler | Heavy-duty | | |

OPERATOR ENVIRONMENT

| |
|---|
| ROPS/FOPS canopy |
| Key start |
| Hydrostatic steering |
| Standard seat w/15° and 30° swivel to the right |
| Foot throttle |
| Loader control lever w/push-button activation of differential lock and transmission de-clutch |
| (2) Accessory power plugs (30 amp) |
| Anti-vandalism covers (canopy only) |
| Beverage holder |
| Coat hook w/tether strap |
| Interior rear-view mirror |
| 2 in (51 mm) retractable seat belt |
| Storage box |

INSTRUMENTATION

| |
|--|
| Gauges - back lit |
| Engine water temperature |
| Converter oil temperature |
| Fuel |
| Tachometer/hourmeter |
| Voltmeter |
| Warning lights |
| Air cleaner restriction |
| Alternator |
| Engine oil pressure |
| Hydraulic oil filter bypass |
| Parking brake engagement |
| Rear axle fluid temperature sensing system |
| Low fuel |
| Audible alarms |
| Coolant temperature |
| Engine oil pressure |
| Parking brake engagement |
| Shuttle engagement |
| Backup alarm |
| Turn signal indicators |
| Horn - dual switched front & rear |

TURNING DIAMETER

| | |
|------------------|---------------------|
| 2WD | |
| Brakes on | 24 ft 3 in (7.39 m) |
| Brakes off | 25 ft 8 in (7.82 m) |
| 4WD – engaged | |
| Brakes on | 23 ft 1 in (7.04 m) |
| Brakes off | 27 ft 5 in (8.36 m) |
| 4WD – disengaged | |
| Brakes on | 24 ft 5 in (7.44 m) |
| Brakes off | 25 ft 9 in (7.85 m) |

NOTE: Turning diameter dimensions curb to curb w/82 in (2.08 m) general purpose bucket.

OPERATING WEIGHTS

| | |
|---|----------------------|
| Lightest Configuration | |
| Unit equipped with 2WD, ROPS/FOPS canopy, non-suspension seat, 82 in (2.08 m) general purpose loader bucket, 3-point hitch, 527 lb (239 kg) counterweight, 17.5L x 24 rear tires, 11L x 16.1 front tires, single battery, no operator. | |
| 570M XT | 10,537* lb (4779 kg) |
| *Less 20 lb (8.7 kg) valve | |
| Heaviest Configuration | |
| Unit equipped with 4WD, cab, suspension seat, 82 in (2.08 m) 4 IN 1® loader bucket, 3-point hitch, 527 lb (239 kg) counterweight, box scraper, 19.5L x 24 rear tires, 12L x 16.5 front tires, dual batteries, 440 lb (200 kg) front counterweight, 485 lb (220 kg) plug in weight, no operator. | |
| 570M XT | 14,601* lb (6623 kg) |
| *Less 20 lb (8.7 kg) valve | |

Add-on weights

| | |
|--|---------------------|
| Cab (over canopy) | +454 lb (206 kg) |
| Loader only version 3,000 lb (1361 kg) counterweight ILO 600 lb (272 kg) counterweight | +2,400 lb (1089 kg) |
| Box Scraper | +1,422 lb (645 kg) |
| 4WD w/driveshaft guard | + 283 lb (128 kg) |
| Front counterweight | +440 lb (200 kg) |
| Wheel weight | +564 lb (256 kg) |

SERVICE CAPACITIES

| | |
|-------------------------|-------------------|
| Fuel tank | 31.4 gal (119 L) |
| Optional tank | 40.0 gal (151 L) |
| Hydraulic system | |
| Total | 20.25 gal (77 L) |
| Reservoir w/filter | 14.5 gal (54.9 L) |
| Reservoir w/o filter | 14.0 gal (53 L) |
| Transmission | |
| 2WD Total system | 19.0 qt (18 L) |
| 4WD Total system | 22.0 qt (20.8 L) |
| 4WD Front axle | |
| Differential | 5.8 qt (5.5 L) |
| Planetaries (each) | 0.7 qt (0.66 L) |
| Rear axle | |
| Differential | 15.0 qt (14.2 L) |
| Planetaries (each) | 1.6 qt (1.5 L) |
| Engine oil w/filter | 14.4 qt (13.6 L) |
| Cooling system | |
| w/heater | 17.8 qt (16.8 L) |
| w/o heater | 17 qt (16.1 L) |
| Window washer reservoir | 2.5 qt (2.36 L) |

LOADER

| |
|---|
| Single-lever control for lift and tilt |
| Positive hold float |
| Return-to-dig |
| Automatic self-leveling |
| In-line, reverse linkage |
| Dual parallel dump cylinders |
| Clutch disconnect button on loader control and shift levers |
| Bucket position indicator |

Loader Bucket Sizes

| Width | Weight | Struck | Heaped |
|------------------------|------------------|---|---|
| General Purpose Bucket | | | |
| 82 in (2.08 m) | 686 lb* (311 kg) | 0.87 yd ³ (0.67 m ³) | 1.03 yd ³ (0.79 m ³) |
| 4 IN 1® Bucket | | | |
| 82 in (2.08 m) | 1462 lb (663 kg) | 0.85 yd ³ (0.65 m ³) | 1.04 yd ³ (0.80 m ³) |

NOTE: *Add 103 lb (47 kg) to 82 in (2.08 m) general purpose bucket for bolt-on cutting edge.

LOADER CYCLE TIME

| | |
|----------------------|----------|
| Raise to full height | 5.3 sec |
| Bucket dump | 1.1 sec |
| Power down | 2.4 sec |
| Return-to-dig | 3.2 sec |
| 4 IN 1® clam open | 2.28 sec |
| 4 IN 1® clam close | 3.13 sec |

3 PT. HITCH

| |
|---|
| Category I & II 3-point hitch |
| Hydraulic lift, pitch, tilt and (2) auxiliary remotes |
| Variable flow from 0 to 8 gpm (0 to 30 L/min) |
| 527 lb (239 kg) counterweight included w/hitch |

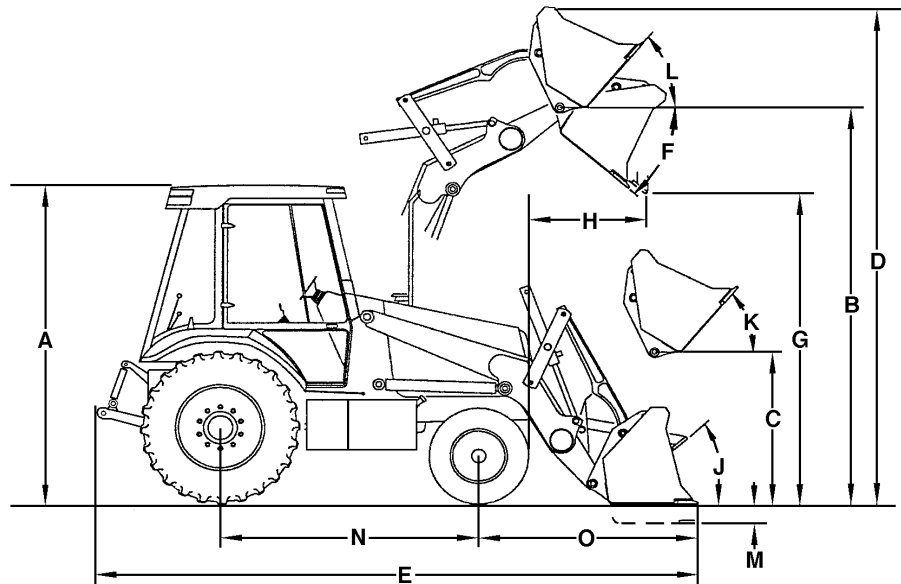
3-point Hitch Lift Capacity

| | |
|-----------------|----------|
| Hitch Position* | |
| Lowest Point | 11,121 N |
| 1/5 | 14,444 N |
| 2/5 | 15,125 N |
| 3/5 | 15,125 N |
| 4/5 | 14,666 N |
| Highest Point | 13,274 N |

NOTE: *Hitch position is vertical distance of lowest hitch point above ground.

TIRES

| | |
|-----------------------------------|--|
| Front | |
| 2WD – 11L x 16.1, 10-ply rating | |
| 4WD – 12 x 16.5, 8-ply rating | |
| Rear | |
| 2/4WD – 17.5L x 24, 10-ply rating | |
| 2/4WD – 19.5L x 24, 10-ply rating | |



LOADER DIMENSIONS

| | General Purpose Bucket | 4 IN 1@ Bucket |
|---|------------------------|-----------------------|
| Height to – | | |
| A. Top of canopy | | 107.08 in (2.72 m) |
| Top of canopy – Low Profile ROPS | | |
| 19.5L x 24 | 104.09 in (2.644 m) | 104.17 in (2.646 m) |
| 17.5L x 24 | 101.69 in (2.583 m) | 101.77 in (2.585 m) |
| A. Top of cab | | 107.87 in (2.74 m) |
| B. Bucket hinge pin fully raised | 11 ft 2 in (3.4 m) | 11 ft 2 in (3.4 m) |
| C. Bucket hinge pin @ SAE carry | 12.8 in (325 mm) | 14.6 in (372 mm) |
| D. Overall operating height – fully raised | 13 ft 8 in (4.17 m) | 14 ft 3 in (4.35 m) |
| E. Overall length | 16 ft 11 in (5.15 m) | 16 ft 8 in (5.09m) |
| Width over tires – | | |
| 11L x 16 | | 79.3 in (2.02 m) |
| 12 x 16.5 | | 81.1 in (2.06 m) |
| 19.5L x 24 | | 81.4 in (2.07 m) |
| 17.5L x 24 | | 81.7 in (2.08 m) |
| F. Dump angle @ full height | 46° | 45° |
| G. Dump clearance @ full height, 45° dump – | | |
| Bucket | 8 ft 8 in (2.64 m) | 8 ft 11 in (2.72 m) |
| Clam open | NA | 9 ft 8 in (2.95 m) |
| H. Dump reach @ full height, 45° dump – | | |
| Bucket | 25.9 in (657 mm) | 25.4 in (644 mm) |
| Clam open | NA | 11.8 in (300 mm) |
| Bucket rollback – | | |
| J. @ groundline | 40° | 40° |
| K. @ SAE carry | 45° | 45° |
| L. @ full height | Adjustable | Adjustable |
| M. Digging depth below grade – | | |
| Bucket flat | 7.8 in (199 mm) | 7.1 in (180 mm) |
| Clam open (dozing) | NA | 4.4 in (111 mm) |
| Ground clearance at front axle | 10.9 in (276 mm) | |
| N. Wheelbase – | | |
| 2WD | | 84 in (2.13 m) |
| 4WD | | 84.5 in (2.15 m) |
| O. Reach from front axle centerline – bucket on ground | 75.2 in (1.91 m) | 72.7 in (1.85 m) |
| Maximum clam opening | NA | 38.3 in (972 mm) |
| Moldboard height | NA | 36.8 in (934 mm) |
| Lift capacity to full height | 6,503 lb (2956 kg) | 6,537 lb (2971 kg) |
| Breakout force – | | |
| Lift cylinders | 9,271 lbf (41 239 N) | 8,766 lbf (38 993 N) |
| Dump cylinders | 9,607 lbf (42 734 N) | 10,325 lbf (45 928 N) |

NOTE: Loader dimensions taken with 4WD, 19.5L x 24 rear tires and 82 in (2.08 m) general purpose bucket except as noted.

STANDARD EQUIPMENT

OPERATOR'S COMPARTMENT

See page 2

ENGINE

Case Family III 445T/M3 turbocharged
Automatic fan belt tensioner
Integral engine oil cooling
Fuel filter w/water trap
Air intake pre-cleaner
Dual element air cleaner
90 amp alternator
685 CCA 12-volt battery
Heavy-duty radiator

LOADER

See page 2

POWERTRAIN

2WD
4F/4R Power shuttle synchromesh transmission
Torque converter
Transmission de-clutch
Electro-hydraulic differential lock
Hydrostatic steering
Disc brakes

HYDRAULICS

2-spool loader control valve
4-spool 3-point hitch control valve
Heavy-duty oil cooler

OTHER

Forward tilt engine hood
Replaceable, molded front bumpers
Lights
(2) Halogen headlights
(2) Rear flood
(2) Rear tail and stop
(2) Front flashers/turn
(2) Rear flashers/turn

OPTIONAL EQUIPMENT

OPERATOR'S COMPARTMENT

Low profile ROPS/canopy
Ride Control
Cab with –
Defroster
Dome light
Wipers, front and rear
Tinted glass
Floor mat
Cab Convenience Package with –
Vinyl-covered cloth interior
Radio-ready kit w/antenna and speakers
Reduced sound level to 75 dB(A)
Window washers w/adjustable spray nozzles front and rear
Sunvisor
Sunvisor for canopy models
Vinyl or cloth covered mechanical suspension seat w/armrests
3 in (75 mm) retractable seat belt
Cab heater
Cab air-conditioning w/heater
Hand throttle

ENGINE

Cold weather grid heater/dual battery
Dual, 12-volt, 525 CCA batteries
Fuel tank, 40 gal (151 L)

POWERTRAIN

4WD w/outboard planetary drive, on-the-go push-button activation and 12 x 16.5 front tires

HYDRAULICS

Auxiliary hydraulics for hand-held equipment
Anti drift and inreturn-to-position in valve

LOADER

Loader only version (without 3-point hitch)
Hydraulic attachment coupler
Attachment auxiliary hydraulics
Buckets (see page 2)

OTHER

17.5L x 24 rear tires
19.5L x 24 rear tires
Tool box
Drawbar
Special paint
Lights
(2) Front flood
(2) Rear flood
440 lb (200 kg) Front counterweight
Galaxy tires - Front
4WD 12L x 16.5 Soft Flex-Poly Fill
Galaxy tires - Rear
2/4WD 19.5L x 24 w/Tyrllyner™

NOTE: All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.

NOTE: All engines meet current EPA emissions requirements.

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