

465 SKID STEER TIER II CERTIFIED

ENGINE

| | | |
|--------------------------|---|--|
| Model | Case Family III 445T/M2 diesel, Tier II certified | |
| Type | 4-stroke, turbocharged | |
| Cylinders | 4 | |
| Bore/Stroke | 4.1 x 5.2 in (104 x 132 mm) | |
| Displacement | 274 in ³ (4.5 L) | |
| Fuel injection | Direct | |
| Fuel | #2 Diesel | |
| Fuel filter | In-line strainer | |
| Air intake | Cross-flow | |
| Cooling | Liquid | |
| Engine speeds (rpm) | | |
| High idle - no load | 2480±50 | |
| Rated - full load | 2300 | |
| Low idle | 1050±50 | |
| Horsepower per SAE J1349 | | |
| Gross | 88 (65.7 kW) @ 2300 rpm | |
| Net | 82 (61.2 kW) @ 2300 rpm | |
| Peak torque | | |
| @ 1400 rpm | 263 lb-ft (356 N-m) | |

ENGINE COOLING

| | | |
|------------------------------|--|--|
| Radiator | | |
| Core type | Square wave serpentine | |
| Core size area | 449 in ² (0.29 m ²) | |
| Rows of tubes | 5 | |
| Cap pressure | 13 psi (89.6 kPa) | |
| Fan | | |
| Diameter | 18.9 in (480 mm) | |
| Ratio | 1.1:1 | |
| Water pump | | |
| Style | Integral | |
| Flow | 48 gpm (182 L/min) | |
| Engine lubrication | | |
| Pump | Deep sump with plate cooler and 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

| | | |
|---|---|--|
| Drive pump | Tandem, axial piston hydrostatic transmission with integral charge pump driven directly off engine flywheel | |
| Pump to engine ratio | 1.2:1 | |
| Displacement | 0 to 2.81 in ³ (46 cc) | |
| Pump flow @ rated rpm | 33.6 gpm (127 L/min) | |
| Flow | Bi-directional | |
| Charge pressure | 360 psi (24 bar) | |
| System relief | 5000 psi (345 bar) | |
| Controls | Servo | |
| Drive motors | Fixed displacement radial piston | |
| Maximum displacement | 45.8 in ³ (750 cc) | |
| Speed @ rated engine rpm | | |
| @ max displacement | 180 rpm | |
| Torque @ max displacement and relief pressure | 2,733 lb-ft (3,705 N-m) | |
| Travel | High/low trigger-button control | |
| Low speed | 0 - 6.7 mph (10.7 km/h) | |
| High speed (optional) | 0 - 12.3 mph (19.8 km/h) | |
| Final drive | Single-reduction chain drive | |
| Drive chain | | |
| Size | ASA #120HS | |
| Tensile strength | 41,000 lb (182,384 N) | |
| Axles | One-piece, forged induction-hardened high carbon steel | |
| Max torque @ rated rpm | 6681 lb-ft (9058 N-m) | |
| Diameter | 2.5 in (63.5 mm) | |
| Length | 14.76 in (375 mm) | |
| Parking brakes | Spring-applied, hydraulic release | |
| Capacity | 3,967 lb-ft (5378 N-m) (at the axle shaft) | |
| Engagement | Depress on/off brake button, raise seat bar, get off seat, or stop engine | |

HYDRAULIC SYSTEM

| | | |
|---------------------------------------|--|--|
| Standard equipment | | |
| pump | Gear pump | |
| Displacement | 1.94 in ³ /rev (32 cc) | |
| Pump flow @ rated engine rpm | | |
| Total | 22.1 gpm (83.9 L/min) | |
| Optional high flow @ rated engine rpm | | |
| Total | 37.2 gpm (140.6 L/min) | |
| Loader control valve | 3-spool open-center series with power beyond port | |
| Relief pressure | 3000 psi (207 bar) | |
| Port relief pressures – | | |
| #1B Raise | 3800 psi (262 bar) | |
| Hydraulic lines | | |
| Tubing | 37° JIC flare | |
| Loop hoses | SAE 100 R12 | |
| Hydraulic oil cooler | | |
| Core type | Two row in-line | |
| Hydraulic filter | 6-micron spin-on replaceable element on the return line with warning indicator | |

INSTRUMENTATION

| |
|------------------------------|
| Battery Voltage |
| LCD hourmeter |
| Fuel level LCD bar graph |
| Warning lights |
| Engine preheat |
| Engine coolant temperature |
| Hydraulic oil temperature |
| Air cleaner restriction |
| Hydraulic filter restriction |
| Engine oil pressure |
| Hydraulic charge pressure |
| Parking brake |
| Seat belt reminder |
| Warning alarms |
| Engine coolant temperature |
| Hydraulic charge pressure |
| Engine oil pressure |
| Hydraulic oil temperature |
| Seat belt reminder |

ELECTRICAL SYSTEM

| | |
|---|--------|
| Alternator | 95 amp |
| Starter | 2.7 kW |
| Battery | |
| 12-volt low-maintenance 850 cold-cranking amps @ 0° F (-18 C) | |

OPERATOR ENVIRONMENT

| |
|--|
| No-tool tilt ROPS/FOPS canopy w/side screens |
| Vinyl seat |
| Seat presence switch |
| 2 in (51 mm) retractable seat belt |
| Restraint bar w/integral armrests |
| Two adjustable, hands-only control levers |
| Hand and foot throttles |
| Loader control lockout system |
| In-cab loader lock |
| Rear window w/escape provision |
| Front and rear halogen floodlights |
| Floor cleanout panel |

CYLINDERS

| | | |
|-----------------|--------------------|--|
| Lift cylinder | | |
| Bore diameter | 2.5 in (63.5 mm) | |
| Rod diameter | 1.75 in (44.4 mm) | |
| Stroke | 49 in (1.25 m) | |
| Closed length | 60.7 in (1.54 m) | |
| Bucket cylinder | | |
| Bore diameter | 2.75 in (70 mm) | |
| Rod diameter | 1.375 in (34.9 mm) | |
| Stroke | 20.67 in (525 mm) | |
| Closed length | 31.5 in (800 mm) | |

OPERATING WEIGHTS

| | |
|---|--------------------|
| Unit equipped with 12.0 x 16.5 Solideal Hauler SKS tires, 73 in (1.85 m) long lip bucket, mechanical attachment coupler, 165 lb (75 kg) operator and full fuel tank | 8,910 lb (4042 kg) |
| Add-on weights | |
| Side cab glass | +70 lb (32 kg) |
| Glass door w/wiper | +77 lb (35 kg) |
| Heater | +60 lb (27 kg) |
| Suspension seat | +10 lb (4.5 kg) |
| High flow auxiliary hydraulics | 269 lb (122 kg) |
| Hydraulic attachment coupler | +38 lb (17 kg) |
| Counterweight | +925 lb (420 kg) |

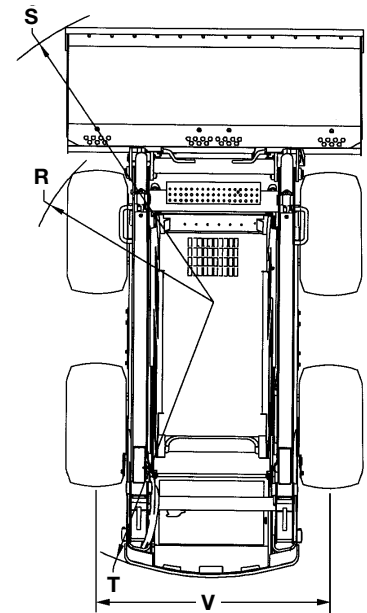
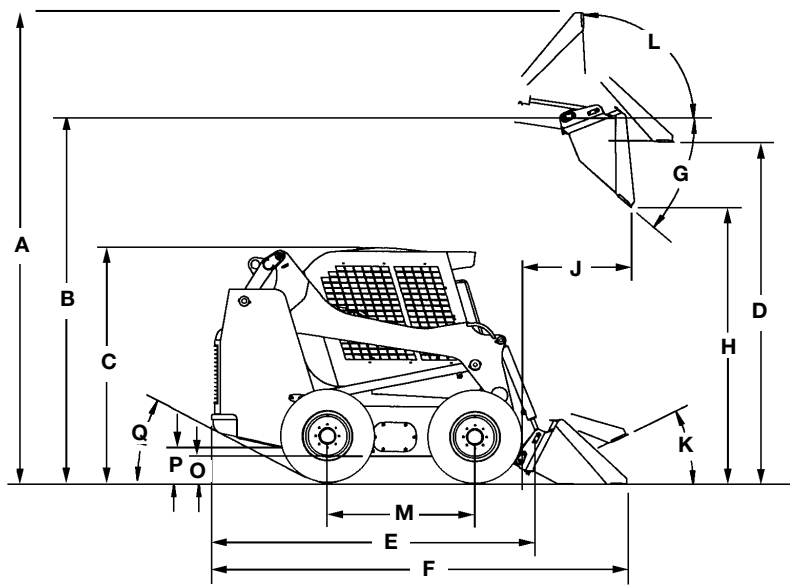
SERVICE CAPACITIES

| | |
|---------------------------|-------------------|
| Fuel tank | 20.2 gal (76.4 L) |
| Engine oil w/filter | 3.2 gal (12 L) |
| Engine cooling system | 18 qt (17 L) |
| Flywheel/splitter gearbox | 2.1 qt (2 L) |
| Hydraulic system | |
| Reservoir | 7.0 gal (26.5 L) |
| Total | 17.5 gal (66.2 L) |
| Chain tanks (per side) | 8 qt (7.6 L) |

TIRE SELECTION

| | Size | Ply Rating | Tread Depth | Tire Width | Width Over Tires | Tire Weight* |
|---------------------|-----------------|------------|--------------------|----------------------|-------------------|----------------------|
| Solideal Hauler SKS | 12.00 x 16.5 | 10 | 0.75 in (19 mm) | 13.1 in (333 mm) | 72 in (1.83 m) | 74 lb (33.6 kg) |
| Galaxy Beefy Baby | 12.00 x 16.5 | 10 | 0.75 in (19 mm) | 12.3 in (312 mm) | 72 in (1.83 m) | 81 lb (36.7 kg) |
| Galaxy Hulk | 12.00 x 16.5 | 12 | 0.81 in (21 mm) | 12.3 in (312 mm) | 72 in (1.83 m) | 100 lb (45.3 kg) |
| Galaxy King Kong | 12.00 x 16.5 | 10 | 1.25 in (32 mm) | 10.2 in (259 mm) | 72 in (1.83 m) | 96 lb (43.5 kg) |
| Galaxy Bulky Hulk | 33/15.50 x 16.5 | 14 | 0.81 in (21 mm) | 16.7 in (424 mm) | 80 in (2.03 m) | 124 lb (56.2 kg) |
| Case Steel Tracks | 12.00 x 16.5 | NA | 1.4 in† (36 mm) | 14.7 in∅ (373 mm) | 78 in (1.98 m) | 959 lb (435.0 kg) |

NOTE: *Tire weight does not include wheel weight. †Equals grouser depth. ∅Equals track width.



DIMENSIONS

| | | |
|-----------|--|-------------------|
| A. | Overall operating height | |
| | Dirt bucket | 163.0 in (4.14 m) |
| | Light material bucket | 170.4 in (4.33 m) |
| | Height to | |
| B. | Bucket hinge pin | 125.5 in (3.19 m) |
| C. | Top of rollover protective structure | 80 in (2.03 m) |
| D. | Bottom of level bucket, loader arm fully raised | 117.5 in (2.98 m) |
| | Overall length | |
| E. | w/o attachment w/coupler | 110.6 in (2.81 m) |
| F. | w/dirt bucket on ground | 142.9 in (3.63 m) |
| F. | w/light material bucket on ground | 150.7 in (3.83 m) |
| G. | Dump angle at maximum height | |
| | Dirt bucket | 40° |
| | Light material bucket | 35° |
| H. | Dump height – loader arm fully raised | |
| | Dirt bucket | 95.0 in (2.41 m) |
| | Light material bucket | 93.1 in (2.36 m) |
| J. | Reach – loader arm fully raised | |
| | Dirt bucket | 36.8 in (935 mm) |
| | Light material bucket | 45.2 in (1.15 m) |
| | Maximum attachment rollback | |
| K. | Bucket on ground | 27° |
| L. | Bucket at full height | 94° |
| M. | Wheelbase | 50.59 in (1.28 m) |
| | Ground clearance | |
| O. | Bottom of chain case | 9.1 in (231 mm) |
| P. | Bottom of belly pan | 11 in (279 mm) |
| P. | Bottom of optional counterweight | 9.1 in (231 mm) |
| Q. | Angle of departure | 28° |
| | Clearance circle front | |
| R. | less bucket | 54.9 in (1.39 m) |
| S. | w/73 in (1.85 m) dirt bucket on ground | 86.3 in (2.19 m) |
| S. | w/84 in (2.08 m) dirt bucket on ground | 88.4 in (2.24 m) |
| S. | w/82 in (2.08 m) light material bucket on ground | 93.7 in (2.38 m) |
| T. | Clearance circle rear | 65.1 in (1.65 m) |
| V. | Tread width, centerline to centerline | 64.5 in (1.64 m) |

PERFORMANCE SPECS

| | |
|-----------------|-------------------------|
| Operating load | 3,000 lb (1364 kg) |
| w/counterweight | 3,500 lb (1591 kg) |
| Tipping load | 6,000 lb (2727 kg) |
| w/counterweight | 7,000 lb (3182 kg) |
| Breakout force | |
| Lift | 5,800 lbf (25 800 N) |
| Bucket | 6,175 lbf (27 468 N) |
| Dig depth | |
| w/bucket flat | 0.24 in (6 mm) |
| Cycle time | |
| Raise | 4.1 seconds |
| Lower | 3.5 seconds |
| Dump | 2.3 seconds |
| Rollback | 1.7 seconds |

NOTE: SAE rated lift capacities. Cycle time measured with rated load in bucket.

OPTIONAL BUCKETS

| Type | Width inch (m) | Weight lb (kg) | Heaped Capacity ft ³ (m ³) |
|-------------------|-------------------|-------------------|---|
| Dirt | 73 (1.9) | 553 (251) | 16.8 (.48) |
| | 84 (2.1) | 593 (269) | 19 (.54) |
| HD Dirt | 73 (1.9) | 621 (282) | 16.8 (.48) |
| | 84 (2.1) | 676 (307) | 19 (.54) |
| Utility | 73 (1.9) | 628 (285) | 22.4 (.63) |
| | 84 (2.1) | 674 (306) | 25.3 (.72) |
| HD Utility | 73 (1.9) | 696 (316) | 22.4 (.63) |
| | 84 (2.1) | 758 (344) | 25.3 (.72) |
| Light Material | 82 (2.1) | 584 (265) | 32.5 (.92) |

STANDARD EQUIPMENT

OPERATOR'S COMPARTMENT

ROPS/FOPS canopy w/side screens
No-tools tilt ROPS/FOPS
Instrument panels
Vinyl seat
2 in (51 mm) retractable seat belt
Hand & foot throttles
Ergonomic hand controls
Seat bar w/integral armrests
Loader control lockout system
Electric brake control
Rear window w/escape provision
Floor cleanout panel

LOADER

Heavy lift-and-reach linkage
Mechanical attachment coupler

ENGINE

Case Family III 445T/M2 diesel
Tier II Certified
Integral engine oil cooling
Fuel filter w/water trap
Dual element air cleaner
95 amp alternator
850 CCA 12-volt battery
Heavy-duty radiator

POWERTRAIN

Hydrostatic four wheel drive
Servo controls
ASA #120HS drive chain
SAHR disc parking brakes

HYDRAULICS

Auxiliary hydraulics 3000 psi
(207 bar) - 22.1 gpm (83.9 L/min)
Auxiliary interlock system
Loader arm mounted ISO flat face hydraulic quick connectors
Auxiliary function lockout override
Loader lift lockout override
3-spool loader control valve
Heavy-duty oil cooler
Loader arm float position

OTHER

Integral bumper counterweight
Lockable service access hood
Single-point daily servicing
Halogen lights, 2-front, 1-rear
Rear tail lights
Options harness

OPTIONAL EQUIPMENT

OPERATOR'S COMPARTMENT

Vinyl suspension seat w/ 2 in (51 mm) retractable seat belt
Vinyl suspension seat w/ 3 in (76 mm) retractable seat belt
Electric auxiliary hydraulic control
Glass front door w/wiper & washer
Sliding side windows
Air conditioning
Heater (deluxe)
Accessory power outlet
Floormat w/footrests
Headliner

LOADER

Auxiliary front electric control
Ride Control
Hydraulic attachment coupler
Hydraulic one-way self-leveling

ENGINE

Coolant block heater
Grid heater

HYDRAULICS

Auxiliary high-flow 3000 psi
(207 bar) - 37.2 gpm (140.6 L/min)
Attachment case drain plumbing

OTHER

2-speed ground drive
Backup alarm and horn package
Rotating beacon
925 lb (420 kg) counterweight
Lift hooks
Drawbar
Heavy-duty rear door
Language decals
Special paint
Buckets - see page 3
42 in (1.07 m)/48 in (1.22 m) pallet forks
Bolt-on bucket edges
Steel tracks
Factory installed tires - see page 2
Jump start terminals/battery disconnect switch
Bolt-on spill guard

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

NOTE: All engines meet current EPA emissions requirements.

IMPORTANT: CNH America LLC reserves the right to change these specifications without notice and without incurring any obligation relating to such change. CNH America LLC does not warrant the safety or reliability of attachments from other manufacturers.

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