

ENGINE

| | | |
|--------------------------------|--|--|
| Model | Case Family IV 445TA/EG7a diesel Tier 3 certified EPA Family NHXL04.5DCB | |
| Cylinders | 4 | |
| Bore/Stroke | 4.1 in x 5.2 in (104 x 132 mm) | |
| Displacement | 274 in ³ (4.5 L) | |
| Fuel injection | Direct | |
| Fuel | #2 Diesel | |
| Fuel filter | Spin-on with in-line strainer | |
| Air intake | Cross-flow | |
| Cooling | Liquid | |
| Engine speeds (rpm) | | |
| High idle - no load | 2160±50 | |
| Rated - full load | 2000 | |
| Low idle | 850-950 | |
| Horsepower per SAE J1349 | | |
| Net | 74 (55 kW) @ 2000 rpm | |
| Gross | 80.5 (60 kW) @ 2000 rpm | |
| Peak torque @ 1400 rpm | | |
| Net | 289 lb-ft (355 N-m) | |
| Gross | 295 lb-ft (363 N-m) | |
| Engine lubrication - | | |
| Pump | Deep sump plate cooler with pressurized under-piston nozzles | |
| Pump operating angle ratings - | | |
| Side-to-side | 45° | |
| Fore and aft | 45° | |
| Oil filtration | Replaceable, spin-on full-flow cartridge | |

ENGINE COOLING

| | | |
|----------------|--|--|
| Radiator - | | |
| Core size area | 357.5 m ² (2306 cm ²) | |
| Rows of tubes | 1 | |
| Fan - | | |
| Diameter | 20 in (500 mm) | |
| Ratio | 1.1:1 | |

ELECTRICAL SYSTEM

| | |
|-------------------------|--|
| Alternator | 90 amp |
| Battery | |
| 12-volt low-maintenance | 700 cold-cranking amps @ 0° F (-18 C) |

POWERTRAIN

| | | |
|--|--|--|
| Dual path hydrostatic | | |
| Pump - variable axial piston | | |
| Motor - variable bent axis piston | | |
| Maximum drawbar pull* | 36,000 lb (160.5 kN) | |
| Transmission | Single lever control - electronic straight tracking | |
| Transmission oil filter | 4 micron, spin-on replaceable | |
| Travel speeds* - | | |
| Forward | 0-5.5 mph (0-9 km/h) | |
| Reverse | 0-5.5 mph (0-9 km/h) | |
| *Measured using standard track chain. Increase travel speeds by 4% and reduce drawbar pull by 4% with the optional CELT track chain. | | |
| Parking brakes | Heavy-duty, spring-applied, hydraulic pressure release | |
| Steering brakes | Hydrostatic | |
| Final drive | 2 helical gear reduction to planetary output | |
| Ratio | 61:1 | |

TRANSMISSION COOLING

| | |
|-----------|---|
| Type | Oil to air |
| Core size | 225.7 in ² (1456 cm ²) |

HYDRAULIC SYSTEM

| | | |
|--|---------------------------------|--|
| Standard equipment pump | | |
| Pump flow @ 2000 rpm @ 3000 psi (209 kPA) | 20.3 gpm (78.8 L/min) | |
| Max. system pressure | 3025±75 psi (20 855±515 kPA) | |

CYLINDERS

| | | |
|--------------------|-------------------|--|
| Lift cylinder (2) | | |
| Bore diameter | 3.50 in (89 mm) | |
| Rod diameter | 1.75 in (44.5 mm) | |
| Stroke | 15.5 in (394 mm) | |
| Angle cylinder (2) | | |
| Bore diameter | 3.50 in (89 mm) | |
| Rod diameter | 1.75 in (44.5 mm) | |
| Stroke | 13.5 in (342 mm) | |
| Tilt cylinder (1) | | |
| Bore diameter | 3.50 in (89 mm) | |
| Rod diameter | 1.75 in (44.5 mm) | |
| Stroke | 5.4 in (137 mm) | |

UNDERCARRIAGE

| | |
|---------------------------------|------------------|
| Track adjustment | Hydraulic |
| Frame | Rigid suspension |
| Length of track on ground (CLT) | 84 in (2141 mm) |
| Track link pitch | 6.29 in (160 mm) |
| Track shoe height | 2.06 in (52 mm) |
| Pin diameter | 1.13 in (29 mm) |
| Bushing diameter - | |
| CLT track | 2.125 in (54 mm) |
| CELT track | 2.75 in (70 mm) |
| Bolt diameter | 0.625 in (16 mm) |
| Track shoes per side | 39 |
| Track rollers per side | 6 |
| Carrier rollers per side | 1 |
| Track roller rail dia. | 6.1 in (155 mm) |

TRACK ON GROUND

| | |
|----------------|---|
| Shoe | Area - in ² (cm ²) |
| 16 in (406 mm) | 2630 (16 968) |
| 20 in (508 mm) | 3372 (21 755) |
| 27 in (686 mm) | 4552 (29 368) |

TRACK

| | |
|--|--|
| Long Track | |
| 16 in (406 mm) closed grousers and CLT | |
| 16 in (406 mm) open grousers and CELT | |
| Wide Track | |
| 16 in (406 mm) closed grousers and CLT | |
| 16 in (406 mm) open grousers and CELT | |
| 20 in (508 mm) closed grousers and CLT | |
| 20 in (508 mm) open grousers and CELT | |
| LGP | |
| 27 in (686 mm) closed grousers and CLT | |
| 27 in (686 mm) open grousers and CELT | |

OPERATOR ENVIRONMENT

| |
|--|
| ROPS canopy |
| Single lever control for speed, steering and direction |
| Forward/reverse speed ratio selector |
| Adjustable armrests |
| Foot rests |
| Retractable seat belt, 2 in (51 mm) |
| Vinyl suspension seat w/back adjustment |
| Rear view mirror |

INSTRUMENTATION

| |
|------------------------------|
| Warning lights: |
| Air filter |
| Alternator |
| Engine oil pressure |
| Hi range |
| Hydraulic filter |
| Transmission filter |
| Transmission pressure |
| Gauges: |
| Battery voltage |
| Fuel level |
| Hourmeter |
| Tachometer |
| Transmission oil temperature |
| Water temperature |
| Audible warnings: |
| Engine oil pressure |
| Transmission pressure |

BLADE

| | |
|-------------------------|----------------------------|
| Variable blade pitch | 52°-60° |
| Lift speed (per second) | 19.7 in (500 mm) |
| Cutting edge | Reversible and replaceable |
| Width | 8.0 in (203 mm) |
| Thickness | 0.625 in (16 mm) |

RIPPER

| | |
|------------------------------------|-------------------|
| Max. penetration | 8.7 in (221 mm) |
| Width | 72.4 in (1839 mm) |
| Cut width | 70.1 in (1780 mm) |
| Max. ground clearance | 15.5 in (393 mm) |
| Points | Replaceable |
| Max. number of shanks | 3 |
| Tooth spacing – with 3 teeth | 31 in (785 mm) |
| Hydraulic cylinder (double-acting) | |
| Diameter | 3.2 in (82 mm) |
| Stroke | 8.4 in (213 mm) |
| Rod | 1.75 in (44.5 mm) |

SERVICE CAPACITIES

| | |
|------------------------|-------------------|
| Fuel tank | 41 gal (155 L) |
| Engine oil w/filter | 13 qt (12.3 L) |
| Engine oil w/o filter | 12.2 qt (11.5 L) |
| Engine cooling system | 22.6 qt (21.4 L) |
| Hydraulic reservoir | 16.5 gal (72.7 L) |
| Final drive (per side) | 15 qt (14.2 L) |
| Track rollers (ea.) | 0.19 qt (0.18 L) |
| Front idlers (ea.) | 0.42 qt (0.40 L) |
| Carrier rollers (ea.) | 0.25 qt (0.24 L) |

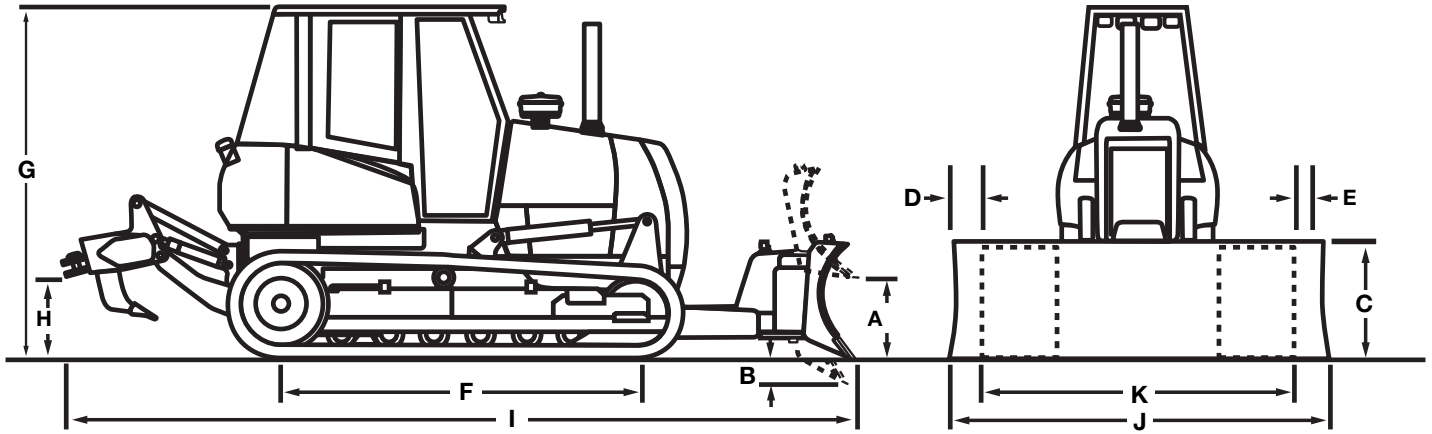
OPERATING WEIGHTS

Unit equipped with ROPS, full fuel tank, 170 lb (77 kg) operator, track guides, backup alarm, horn and lights.

| | |
|---------------------------------------|---------------------|
| Long track (96 in blade, 16 in shoe) | 16,250 lb (7370 kg) |
| Wide track (112 in blade, 20 in shoe) | 16,800 lb (7619 kg) |
| LGP (120 in blade, 27 in shoe) | 17,550 lb (7959 kg) |

Add-on weights –

| | |
|-------------------------|-------------------|
| Drawbar | 146 lb (66 kg) |
| Ripper (3 shank) | 1,349 lb (612 kg) |
| Winch | 1,000 lb (454 kg) |
| Front counterweight | 752 lb (341 kg) |
| Cab | 1,588 lb (720 kg) |
| ROPS heater | 70 lb (32 kg) |
| CELT chain | 115 lb (52 kg) |
| Center rockguard | 154 lb (70 kg) |
| Sweeps | 110 lb (50 kg) |
| Dual batteries | 64 lb (29 kg) |
| 90 in blade | 917 lb (416 kg) |
| 96 in blade | 968 lb (439 kg) |
| 112 in blade | 1105 lb (501 kg) |
| 120 in blade | 1191 lb (540 kg) |
| CLT w/16 in closed shoe | 2880 lb (1306 kg) |
| CELT w/16 in open shoe | 2825 lb (1281 kg) |
| CLT w/20 in closed shoe | 3259 lb (1478 kg) |
| CELT w/20 in open shoe | 3204 lb (1453 kg) |
| CLT w/27 in closed shoe | 3916 lb (1776 kg) |
| CELT w/27 in open shoe | 3861 lb (1751 kg) |



DIMENSIONS

| | Long Track (LT) | Long Track (LT, WT) | Wide Track (WT) | Low Ground Pressure (LGP) |
|--|---|---|---|---|
| BLADES | | | | |
| Blade width | 90 in (2286 mm) | 96 in (2438 mm) | 112 in (2845 mm) | 120 in (3048 mm) |
| SAE blade capacity | 1.58 yd ³ (1.21 m ³) | 1.69 yd ³ (1.29 m ³) | 2 yd ³ (1.53 m ³) | 2.15 yd ³ (1.64 m ³) |
| A. Blade lift above ground | 33.6 in (853 mm) | 33.6 in (853 mm) | 33.6 in (853 mm) | 33.6 in (853 mm) |
| B. Blade depth below ground | 20.9 in (531 mm) | 20.9 in (531 mm) | 20.9 in (531 mm) | 20.9 in (531 mm) |
| Blade angle both directions | 25° | 25° | 25° | 25° |
| Blade tilt, each end (up to 9°) | 14.2 in (361 mm) | 15.2 in (386 mm) | 17.8 in (452 mm) | 19.0 in (482 mm) |
| C. Blade height | 33.1 in (841 mm) | 33.1 in (841 mm) | 33.1 in (841 mm) | 33.1 in (841 mm) |
| D. Cast reach | 11.2 in (284 mm) | 13.9 in (353 mm) | 13.2 in (335 mm) | 13.3 in (338 mm) |
| E. Cut reach | -1.6 in (-41 mm) | 1.1 in (28 mm) | 0.3 in (7 mm) | 0.5 in (13 mm) |
| TRACKS | | | | |
| Track gauge | 56 in (1.42 m) | 56 in (1.42 m) | 68 in (1.73 m) | 68 in (1.73 m) |
| Shoe width | 16 in (406 mm) | 16 in (406 mm) | 20 in (508 mm) | 27 in (686 mm) |
| F. Track on ground (CELT) | 84 in (2.12 m) | 84 in (2.12 m) | 84 in (2.12 m) | 84 in (2.12 m) |
| Area of track on ground | 2630 in ² (1.70 m ²) | 2630 in ² (1.70 m ²) | 3372 in ² (2.18 m ²) | 4552 in ² (2.94 m ²) |
| Ground pressure | 6.2 psi (42.6 kPa) | 6.2 psi (42.6 kPa) | 5.0 psi (34.4 kPa) | 3.9 psi (26.6 kPa) |
| DIMENSIONS | | | | |
| G. Height to top of ROPS | 104.7 in (2639 mm) | 104.7 in (2639 mm) | 104.7 in (2639 mm) | 104.7 in (2639 mm) |
| Height to top of cab with air conditioning | 104.7 in (2639 mm) | 104.7 in (2639 mm) | 104.7 in (2639 mm) | 104.7 in (2639 mm) |
| H. Ground clearance at drawbar | 14.4 in (366 mm) | 14.4 in (366 mm) | 14.4 in (366 mm) | 14.4 in (366 mm) |
| I. Length – | | | | |
| Blade straight with drawbar | 163.3 in (4149 mm) | 163.3 in (4149 mm) | 163.3 in (4149 mm) | 163.3 in (4149 mm) |
| Blade straight with ripper | 195.8 in (4973 mm) | 195.8 in (4973 mm) | 195.8 in (4973 mm) | 195.8 in (4973 mm) |
| J. Width – | | | | |
| Blade straight | 90 in (2286 mm) | 96 in (2438 mm) | 112 in (2845 mm) | 120 in (3048 mm) |
| Blade angled | 83.7 in (2126 mm) | 89.2 in (2265 mm) | 103.7 in (2634 mm) | 110.9 in (2819 mm) |
| K. Over track | 72 in (1828 mm) | 72 in (1828 mm) | 88 in (2235 mm) | 95 in (2413 mm) |

STANDARD EQUIPMENT

OPERATOR'S COMPARTMENT

Isolation mounted ROPS/FOPS canopy with headliner and floor mat
Vinyl suspension seat w/back adjustment & adjustable armrests
Retractable seat belt, 2 in (51 mm)
Foot rests

ENGINE

Case Family IV 445TA/EG7a diesel, Tier 3 certified EPA Family NHXL04.5DCB
Automatic fan belt tensioner
Integral engine oil cooling
Fuel filter
Dual element radial seal air cleaner
90 amp alternator
700 CCA 12-volt battery
Anti-sandblast radiator
Engine side panel
Anti-freeze to -34°F
Pusher fan

POWERTRAIN

Dual path infinitely variable, single-lever controlled hydrostatic drive with electronic straight tracking & counter-rotation, 4-position forward/reverse ratio control
Final drive – Triple reduction – helical gear/planetary
Decelerator with hydrostatic drive retardation
Automatic spring applied parking brake
10 incremental speed settings - Operator preference settings for max speed, shuttle sensitivity and steering sensitivity

BLADE

52° - 60° variable pitch
Single lever control for blade lift, angle and tilt
90 in (2.29 m) blade 650 L
96 in (2.44 m) blade 650 LT

UNDERCARRIAGE

Case lubricated track chain
Easy clean track covers
Hydraulic track adjusters
Permanently lubricated track and carrier rollers
Track adjuster guard
Track guides (front and rear)

OTHER

Anti-vandalism package
Backup alarm
Decelerator
Final drive seal guard
Hand throttle
Horn
Lights – halogen, 2 front, 1 rear for cab or ROPS
Master disconnect switch
Mirror
Operator's manual enclosure
O-ring face seal hydraulic fittings
Pre-cleaner
Vertical spin-on hydraulic/filters
Hydraulics - 3 spool valve

OPTIONAL EQUIPMENT

OPERATOR'S COMPARTMENT

Cab (w/heater, 22,700 BTU (6.65 kW)/hr air conditioner, defroster, front windshield washer and 2F-1R lights)
3 in (76 mm) seat belt
Deluxe air suspension seat

HYDRAULICS

4 spool hydraulic valve for field-installed ripper

REAR MOUNTED EQUIPMENT

Ripper, parallelogram 5 slots with 3 shanks

BLADES

112 in (2.85 m)
120 in (3.05 m)

GUARDS

Brush guards (Sweeps)
Center rockguard

SCREENS

Rear ROPS and cab
Side ROPS
Radiator brush screen

OTHER

Case extended life track
Cold start aid (Grid Heater) with dual 12-volt battery
Counterweight, front
Drawbar
Fan, reversible
Front pull hook

OTHER (continued)

Lights – halogen, 2 front, 1 rear for cab or ROPS
Retrieval hitch
Special paint
Sprocket, relieved (LT w/CLT only)
Turbo precleaner
Winch drive PTO
Rear Wiper for cab
Lights w/o brush guard
Lights with brush guard
Diagnostics check fittings
Environmental drains
Lift/Tow decals (Export)



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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