

Product Specifications For 992



Engine

Net Power	607 kW
Engine Model	Cat® C32B
Emissions	U.S. EPA Tier 4 Final, U.S. EPA Tier 2 Equivalent
Rated Speed	1750 rpm
Gross Power - SAE J1995 at 1,750 rpm - Tier 4/HRC (Highly Regulated Country) - Standard	671 kW
Gross Power - SAE J1995 at 1,750 rpm - Tier 4/HRC - High Ambient	699 kW
Gross Power - SAE J1995 at 1,750 rpm - Tier 2/LRC (Less Regulated Country) - Standard	676 kW
Gross Power - SAE J1995 at 1,750 rpm - Tier 2/LRC - High Ambient	704 kW
Gross Power - ISO 14396 at 1,750 rpm - Tier 4/HRC - Standard	659 kW
Gross Power - ISO 14396 at 1,750 rpm - Tier 4/HRC - High Ambient	687 kW
Gross Power - ISO 14396 at 1,750 rpm - Tier 2/LRC - Standard	666 kW
Gross Power - ISO 14396 at 1,750 rpm - Tier 2/LRC - High Ambient	694 kW
Net Power - SAE J1349 at 1,750 rpm - Tier 4/HRC - Standard	607 kW
Net Power - SAE J1349 at 1,750 rpm - Tier 4/HRC - High Ambient	607 kW

Net Power - SAE J1349 at 1,750 rpm - Tier 2/LRC - Standard	614 kW
Net Power - SAE J1349 at 1,750 rpm - Tier 2/LRC - High Ambient	614 kW
Bore	145 mm
Stroke	162 mm
Displacement	32.1 l
Peak Torque - SAE J1995 - Tier 4/HRC - Standard @ 1,200 rpm	4765 N·m
Peak Torque - SAE J1995 - Tier 4/HRC - High Ambient @ 1,300 rpm	4820 N·m
Peak Torque - SAE J1995 - Tier 2/LRC - Standard @ 1,200 rpm	4796 N·m
Peak Torque - SAE J1995 - Tier 2/LRC - High Ambient @ 1,350 rpm	4841 N·m

Operating Specifications

Operating Weight	105882 kg
Rated Payload - Standard	23.1 t
Rated Payload - Standard (Material Handler)	27.2 t
Rated Payload - High Lift	20.4 t
Rated Payload - High Lift (Material Handler)	24.5 t
Bucket Capacity Range	11.5-24.5 m³ (15-32 yd³)
Cat Truck Match - Standard	775/777

Cat Truck Match - High Lift	785
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Buckets

Bucket Capacities	11.5-24.5 m³ (15-32 yd³)
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Transmission

Transmission Type	Cat Planetary Powershift
Forward - 1	7 km/h
Forward - 2	11.9 km/h
Forward - 3	20.5 km/h
Direct Drive - Forward 1	Disabled
Direct Drive - Forward 2	12.9 km/h
Direct Drive - Forward 3	22.6 km/h
Reverse - 1	7.5 km/h
Reverse - 2	13 km/h
Reverse - 3	22.4 km/h
Direct Drive - Reverse 1	8 km/h
Direct Drive - Reverse 2	14.2 km/h
Direct Drive - Reverse 3	24.7 km/h

Hydraulic System - Lift/Tilt

Lift/Tilt System - Circuit	Positive Flow Control
Lift/Tilt System - Pump	Variable Displacement Piston

Maximum Flow at 2,165 rpm	950 L/min
Relief Valve Setting - Lift/Tilt	34500 kPa
Lift Cylinder - Bore	235 mm
Lift Cylinder - Stroke	1613 mm
Tilt Cylinder - Bore	292 mm
Tilt Cylinder - Stroke	1055 mm

Hydraulic Cycle Times

Rack Back	2.3 s
Rack Back - High Lift	2.3 s
Raise	9 s
Raise - High Lift	9 s
Dump	2.6 s
Dump - High Lift	2.6 s
Float Down	3.2 s
Float Down - High Lift	3.2 s
Total Hydraulic Cycle Time	17.1 s

Service Refill Capacities

Fuel Tank	1460 l
Cooling Systems	225 l
Crankcase	120 l

Transmission	195 l
Differential - Final Drives - Front	365 l
Differential - Final Drives - Rear	365 l
Hydraulic System Factory Fill (Implement)	394 l
Hydraulic Tank - Implement	228 l
Hydraulic Factory Fill (Steering)	123 l
Hydraulic Tank (Steering Tank Only)	99.5 l

Axles

Front	Fixed
Rear	Trunnion
Oscillation Angle	±9°

Brakes

Brakes	ISO 3450:2011
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Hydraulic System - Steering

Steering System - Circuit	Pilot, Load Sensing
Steering System - Pump	Piston, Variable Displacement
Maximum Flow at 1,400-1,850 rpm	265 L/min
Steering Cut Off Pressure	31000 kPa
Total Steering Angle	80°
Steering Cycle Times - Low Idle	4.9 s

Steering Cycle Times - High Idle

3.1 s

Cooling System

Ambient Capability Hydraulically Driven Demand Fan - Standard

43 °C

Ambient Capability, Hydraulically Driven Demand Fan - High

55 °C

Sound Performance - Standard

Note

Machine Sound Level (ISO 6396:2008) - 116 dB(A)

Sound Performance - Suppression

Note

Machine Sound Level (ISO 6396:2008) - 113 dB(A)

Dimensions - Standard Lift - Approximate

Ground to Top of Exhaust Stacks

5169 mm

Ground to Top of ROPS

5571 mm

Ground to Top of Hood

3983 mm

Ground to Center of Front Axle

1308 mm

Ground to Bumper Clearance

1145 mm

Ground to Lower Hitch Clearance

666 mm

Reach - Maximum Lift

2503 mm

Clearance at Maximum Lift

4630 mm

B-Pin Height - Maximum Lift

6948 mm

Maximum Overall Height - Bucket Raised

9390 mm

Rear Axle - Centerline to Bumper

4119 mm

Tread Width	3302 mm
Rack Back Angle - Maximum Lift	56.9 degrees
Dump Angle at Maximum Lift	-49.5 degrees
Rack Back Angle - Ground Level	40.2 degrees
Width - Over Tires - With Bulge	4493 mm
Wheel Base	5890 mm
Rack Back Angle - Carry	48.9 degrees
Maximum Overall Length	15489 mm
Front Axle Centerline to Bucket Tip	5480 mm

Dimensions - High Lift - Approximate

Tread Width	3302 mm
Rack Back Angle - Ground Level	42.5 degrees
Dump Angle at Maximum Lift	-48.1 degrees
Rack Back Angle - Maximum Lift	56.2 degrees
Width - Over Tires - With Bulge	4495 mm
Rack Back Angle - Carry	51.6 degrees
Ground to Top of Exhaust Stacks	5169 mm
Ground to Top of ROPS	5571 mm
Ground to Top of Hood	3983 mm

Ground to Center of Front Axle	1308 mm
Ground to Bumper Clearance	1145 mm
Ground to Lower Hitch Clearance	666 mm
Reach - Maximum Lift	2319 mm
Clearance at Maximum Lift	5256 mm
B-Pin Height - Maximum Lift	7465 mm
Maximum Overall Height - Bucket Raised	9759 mm
Rear Axle - Centerline to Bumper	4119 mm
Wheel Base	5890 mm
Maximum Overall Length	15733 mm
Front Axle Centerline to Bucket Tip	5724 mm

992 Standard Equipment

POWER TRAIN

Engine, C32B
 Fuel priming pump (electric)
 Ground-level engine shutdown
 Engine air intake (above hood) precleaner
 Aluminum Modular Radiator (AMR)
 Automatic, ether starting aid
 Electronic throttle lock
 Impeller Clutch Torque Converter (ICTC) with lock-up clutch
 Rimpull control system
 Planetary powershift, 3F/3R electronic control transmission
 Delayed engine shutdown
 Oil-cooled, multi-disc, service brakes
 Electro-hydraulic parking brake
 Auto retarding controls
 Brake temp estimator
 Autoshift

LINKAGE

Standard lift (23 tonnes/25.5 tons face, 27.2 tonnes/30 tons loose)

EFFICIENCY

Variable displacement implement pumps

Variable displacement load-sensing steering

Variable displacement cooling fan pump

Torque converter lock-up clutch

Bucket float

Automatic bucket controls:

- Lift kickout
- Return-to-dig kickout

Default on-demand throttle (economy mode) with HP+ mode button

Engine idle shutdown

ELECTRICAL AND LIGHTING

150-amp alternator

Four 1400 CCA batteries

10/15 amp, 24V to 12V converter

Battery - single pole (master disconnect) isolator

Emergency jump-start receptacle

Starter and transmission lockout in bumper

24V starting and charging system

Electric starters

Live line indicators in service center

LED warning lights (pattern selectable)

LED lighting system:

- Two front- and rear-mounted LED turn signals
- Four forward-facing running lights
- Three forward-facing flood lights
- Four platform-mounted flood lights
- Two forward-facing high beams
- Four rear-facing floods
- Four stairway lights
- Two engine bay service lights

OPERATOR ENVIRONMENT

Premium seat with heated and actively cooled leather, adjustable lumbar support, air adjustable bolsters on the seat and backrest, seat cushion tilt adjustment and two-way thigh support adjustment

Bonded glass, tinted

Trainer seat

Dual-lever lift and tilt function controls

Implement kickouts

Air conditioner

Cab pressure indicator

Graphical touchscreen information display conveys real-time operating information and payload measurement

Heater, defroster, auto temperature controls

Gauge instrumentation with configurable widgets:

- Status indicators
- Wheel rev counter
- Simplified payload
- TPMS (optional)
- Bucket angle
- Coolant temperature
- Hydraulic oil temperature
- Fuel level
- Power train oil temperature
- Engine speed (tachometer)
- Transmission gear
- Ground speed
- Engine hour meter

Powered cab precleaner

Operator presence status

Starting/charging system malfunction

Electronic OMM

Operator controls help

Two USB charging ports

CB mounting, 12V/24V power and antenna

14-pin service port

12V power

Selectable application profiles

Entertainment radio mute

Push-To-Start (PTS)

Warning/indicator instrumentation

Keypad control with indicator lights

Dome light in cab

Lunchbox and beverage holders

Electro-hydraulic force feedback steering

Vital Information Management System (VIMS™) with information display: external data port, cycle timer

Coat hook

SAFETY

Ground-access ladders

Rear-vision camera

Front walkway around cab

Tie-offs on ROPS

Steering frame lock

Stairways on both sides of the machine

Platform toe kicks

Retractable seatbelt, operator and trainer seat

Back-up alarm

Electric disc horns

Implement lock switch
Seatbelt warning
Entertainment radio mute

MACHINE CONTROL AND GUIDANCE

MineStar Health ready
MineStar GUIDE ready
MineStar Edge ready

COOLING

Standard ambient package (recommended for site conditions that do not exceed 43° C [110° F])

SERVICE

Ground-level service center including:

- Implement and cooling fan oil level indicator
- Steering and brake oil level indicator
- Window washer fluid level indicator
- Transmission oil level indicator
- Fuel level indicator
- Engine oil level indicator
- Engine coolant level indicator
- Automatic lubrication system grease tank level indicator
- Starter lockout and LED
- Heavy-duty battery disconnect switch
- Stairway light switch
- Service lighting switch (if equipped)
- Fuel shutoff engine shutdown switch
- Engine oil fast-fill port
- Transmission oil fast-fill port
- Steering and brake hydraulic oil fast-fill port
- Steering and brake hydraulic oil drain port
- Engine coolant fast-fill port
- Implement and cooling fan hydraulic oil fast-fill port
- Implement and cooling fan hydraulic oil drain port
- Automatic lubrication system grease tank fill port
- 24V jump-start receptacle
- 12V power port
- 120V jacket water plug (if equipped)
- 240V jacket water plug (if equipped)
- VIMS key switch
- 14-pin service port
- Transmission lockout and LED

In-tank mounted cartridge-type case drain filters with in-line magnetic plugs on implement, cooling fan, brake and steering pumps

High-pressure screens on the output side of implement, cooling fan, brake and steering pumps

Implement pump efficiency monitoring

Rock guards on linkage grease lines

Cat O-ring face seal couplings
Lockable service access doors
Ecology drains for engine, radiator, hydraulic tank, steering and brake tank, brake cooling tank and axles
Electronic pressure control of the automatic lubrication system eliminates pressure adjustment and monitors grease thickness for temperature compatibility
Ground-level fast-fill fuel system
Drawbar hitch with pin
Cat XT™ hoses
Left-side service center
Oil sampling valves
Premixed 50% concentration of extended-life coolant with freeze protection to -34° C (-29° F)
Rear access to cab and service platform
Load-sensing steering
Vandalism protection caplocks
Cooling cleanout service access
Telematics and Cat Electronic Technician service port in bumper
Automatic Autolube filling shutoff valve

992 Optional Equipment

POWER TRAIN

Advanced auto retarding controls with engine brake

LINKAGE

High lift (20.5 tonnes/22.5 tons face, 24.5 tonnes/27 tons loose)

ELECTRICAL AND LIGHTING

Dual pole battery isolator
Six service lights
Two hitch-mounted lights

OPERATOR ENVIRONMENT

Rubber-mounted, high-impact resistant solar control glass
Trainer seat with suspension
Joystick lift and tilt function controls
Bluetooth®-enabled machine security
Sun screen, pull down (front and rear)
AM/FM/AUX radio
AM/FM/AUX/USB/BT/CD/SAT radio

SAFETY

Powered ground-access stairs
Side-vision cameras (270 degree)
Cat Detect (rear object detection)
Wheel chocks

Secondary steering

Electric trumpet field horn plus electric shop horn

Fire suppression ready (tank mounting provision and provision for integration with machine electronics for monitoring faults or activation)

Emergency stop system

COLD WEATHER

Cold-weather cooling fan bypass (recommended for temperatures below -29°C [-20°F])

120V or 240V coolant heating elements (recommended in conditions from -18°C to -30°C [0°F to -22°F])

Fuel heater (heated by recirculation using engine heat and a heat exchanger) (recommended in condition from -18°C to -30°C [0°F to -22°F])

Heated mirrors

MACHINE CONTROL AND GUIDANCE

Cat Payload with Overload Prevention

New Autodig Components:

- Tire slip prevention
- Lift stall prevention
- Tire set

Operator coaching

COOLING

High ambient package (recommended for site conditions that do not exceed 55°C [131°F])

RIMS AND TIRES

Rims – 914.4 mm (36") (36 × 45)

113.3 mm (4.5") flange

For use with 45/65R45 and 45/65-45 tires

Tires – 45/65R45

Tires – 45/65-45

SPARE RIMS

914.4 mm (36") (36 × 45) (4.5") flange

SERVICE

Transmission and engine guards

Diagnostic lines for easy troubleshooting access

Product Link™ cellular

Product Link (dual mode – satellite/cellular)

SOUND

Sound-suppression package

LOAD AND CARRY OR EXTENSIVE TRAMMING

Ride control