

PRODUCT SPECIFICATIONS FOR 631K - TIER 2



Overall Shipping Height	3.89 m
Maximum Depth of Spread	535 mm
Tires - Tractor	37.25R35**E3
Fuel Tank Refill Capacity - Scraper	874 l
Scraper Capacity - Struck	18.3 m ³
Scraper Capacity - Heaped	26 m ³
Top Speed - Loaded	55.8 km/h
Overall Width	3.94 m
Maximum Depth of Cut	450 mm
Width - Cut	3.51 m
180° Curb-to-Curb Turning Width	12.23 m
Rated Load	37 200 kg (82,200 lb); 37.2 tonnes (41.1 tons)
Tires - Scraper	37.25R35**E3
Rated Engine RPM - Tractor	1900 r/min
Engine Model - Tractor	Cat C18
Emissions	Cat C18 engine meets U.S. EPA Tier 2/EU Stage II Equivalent emission standards.

Flywheel Power - Tractor 425 kW

Flywheel Power - Tractor/Scraper 425 kW

Scraper Capacity - Heaped 26 m³

Top Speed - Loaded 55.8 km/h

Crankcase - Tractor 52 l

Transmission System 110 l

Fuel Tank 874 l

Hydraulic System 142 l

Cooling System 75 l

Front of Tractor to Front Axle 3612 mm

Axle to Vertical Hitch Pin 509 mm

Wheel Base 8808 mm

Rear Axle - Rear of Machine 2744 mm

Ground Clearance - Tractor 664 mm

Width - Outside Rear Tires 3636 mm

Width - Inside of Bowl	3404 mm
Width - Rear Tire Centers	2462 mm
Height - Scraper Blade Maximum	510 mm
Height - Top of Cab	3733 mm
Length - Maximum (Push-Pull)	16640 mm
Height - Overall Shipping	3892 mm
Width - Overall Machine	3937 mm
Length - Overall Machine - Standard	15164 mm
Width - Tractor	3499 mm
Operating Weight - Empty	46600 kg
Overall Length	15.04 m
Overall Length - With Bail Down	16.64 m
Operating Weight - Empty	48275 kg
Exterior Sound Level	The exterior sound power level for the standard machine (ISO 6393) is 111.5 dB(A).
ROPS/FOPS	ROPS/FOPS meet "ISO Standards."
Reverse Alarm	ISO 9533:2010

Falling Object Protective Structure (FOPS)	ISO 3449:2005 Level II
Seat Belt	SAE J386:FEB2006
Rollover Protection Structure (ROPS)	ISO 3471:2008 for up to 21 282 kg (46,919 lb)
Brakes	Brakes ISO 3450:2011
Steering System	ISO 5010:2007
Transmission Gear - First	5.5 km/h
Transmission Gear - Fourth	16.9 km/h
Transmission Gear - Sixth	30.6 km/h
Transmission Gear - Third	12.4 km/h
Transmission Gear - Fifth	22.7 km/h
Transmission Gear - Seventh	41.4 km/h
Transmission Gear - Reverse	9.9 km/h
Transmission Gear - Eighth	55.8 km/h
Transmission Gear - Second	10 km/h
Bowl Raise	3.5 s
Bail Lower	2.1 s
Apron Raise	4 s
Factor Extend	8.5 s

Ejector Extend

3.5 s

Bowl Lower

3.5 s

Bail Raise

1.5 s

Ejector Retract

8.5 s

Apron Lower

3.8 s

631K - TIER 2 STANDARD EQUIPMENT

NOTE

Standard and optional equipment may vary. Consult your Cat dealer for details.

POWER TRAIN – TRACTOR

Cat C18

Compression engine brake

Electric start, 24V

Air cleaner, dry type with precleaner

Fan, hydraulic

Ground level engine shutdown

Radiator, aluminum unit core, 9 fins per inch

Guard, crankcase

Muffler

Starting aid, ether

Braking system:

Primary and secondary, wet disc, hydraulic

Parking, hydraulic-released, spring-applied

Throttle lock

Transmission:

8-speed planetary power shift

ECPC control

APECS software

Programmable top gear selection

Transmission hold

Differential lock

Guard, power train

Standard tire spin reduction

Ground speed control

Machine speed limit

Differential lock protection

POWER TRAIN – SCRAPER

Braking system:

Primary and secondary, wet disc, hydraulic

ELECTRICAL – TRACTOR

Alternator, 150 Amp

Batteries (4), 12V, 1,000 CCA, maintenance free, high output

Electrical system, 24V

Lighting system:

Headlights, LED

Turn signals with hazard function, LED floodlights, (2) cutting edge (1) bowl, halogen side vision (2)

Starting/charging receptacle

ELECTRICAL – SCRAPER

Alarm, backup

Lighting system:

Brake lights, LED

Turn signals with hazard function, LED

OPERATOR ENVIRONMENT – TRACTOR

HVAC system, heat, AC, defrost

Thermostat control of HVAC system

Coat hook

Lunchbox platform with holding strap

Diagnostic connection (2)

12V power ports (2)

Differential lock (1)

Dome courtesy light

Horn, electric

T-Handle implement control

Mirror, rearview

Radio ready

ROPS/FOPS cab, pressurized

Keypad switches:

Throttle lock

Wipers/washers

Hazard lights

Retarding level select

Work lights on, off

Information mode on Messenger Display

Safety tab rocker switches

Seat belt, static two-piece

Seat, Cat Advanced Ride Management (ARM), Cat Comfort Series 3, rotates 30 degrees

Steering wheel, tilt, telescoping, padded

Windows, right side emergency egress

Windows, sliding

Windows, laminated, zipped in

Windshield wipers, front and rear windows, includes washers

Door lock

Messenger Display

Gauges, warnings include:

Coolant temperature

Engine oil temperature

Hydraulic oil temperature

Fuel level

Park brake

Implement lockout

Brake system

Throttle lock

System voltage

Secondary steering

Bail down

Ejector auto

Differential lock

Apron float

Transmission hold

Cushion hitch

High beam lights

Action lamp

Engine speed, rpm

Gear selection

FLUIDS

Extended Life Coolant to -37°C (-34°F)

OTHER STANDARD EQUIPMENT – TRACTOR

Advanced cushion hitch

Accumulators (cushion hitch) with Canadian Registration Number (CRN)

Fast oil change

Fenders, non-metallic

Heater, engine coolant 120V

Rims (2)

Tow hooks, front

Vandalism locks

Heater, engine coolant 120V

Steering locks

OTHER STANDARD EQUIPMENT – SCRAPER

Bowl:

18.3 m³ (24 yd³), struck

26 m³ (34 yd³), heaped

Vandalism locks

Rims (2)

Hydraulic position sensing cylinders (bowl lift and apron)

631K - TIER 2 OPTIONAL EQUIPMENT

NOTE

Standard and optional equipment may vary. Consult your Cat dealer for details.

STEERING ARRANGEMENTS

Secondary Steering Arrangement

INTEGRATED TECHNOLOGIES

Sequence Assist Arrangement with Payload Estimator

Load Assist

Cat Grade Control with Load Assist

Advanced Tire Spin Reduction

OTHER ATTACHMENTS

Camera arrangement - Work Area Vision System (WAVS)

Cab beacon

Air horn

Air horn and beacon

Fender, scraper

Guard, overflow

Wiring group

Push Pull

Year of manufacture plate

SERVICE INSTRUCTIONS

Film arrangement - International (ISO)

