

# PRODUCT SPECIFICATIONS FOR 631K



<b>Tires - Scraper</b>	37.25R35**E3
<b>Rated Load</b>	37 200 kg (82,200 lb); 37.2 tonnes (41.1 tons)
<b>Scraper Capacity - Struck</b>	18.3 m <sup>3</sup>
<b>Tires - Tractor</b>	37.25R35**E3
<b>Maximum Depth of Cut</b>	450 mm
<b>Width - Cut</b>	3.51 m
<b>Scraper Capacity - Heaped</b>	26 m <sup>3</sup>
<b>Overall Width</b>	3.94 m
<b>Top Speed - Loaded</b>	55.8 km/h
<b>Fuel Tank Refill Capacity - Scraper</b>	874 l
<b>Overall Shipping Height</b>	3.89 m
<b>180° Curb-to-Curb Turning Width</b>	12.23 m
<b>Maximum Depth of Spread</b>	535 mm
<b>Flywheel Power - Tractor</b>	425 kW
<b>Rated Engine RPM - Tractor</b>	1900 r/min
<b>Engine Model - Tractor</b>	Cat C18

**Emissions**

Cat C18 engine meets U.S. EPA Tier 4 Final/EU Stage IV emission standards.

**Flywheel Power - Tractor/Scraper**

425 kW

**Scraper Capacity - Heaped**26 m<sup>3</sup>**Top Speed - Loaded**

55.8 km/h

**Fuel Tank**

874 l

**Hydraulic System**

142 l

**Diesel Exhaust Fluid (DEF)**

30.5 l

**Cooling System**

75 l

**Crankcase - Tractor**

52 l

**Transmission System**

110 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

**Height - Scraper Blade Maximum**

510 mm

**Ground Clearance - Tractor** 664 mm

**Length - Overall Machine - Standard** 15164 mm

**Length - Maximum (Push-Pull)** 16640 mm

**Width - Tractor** 3499 mm

**Height - Top of Cab** 3733 mm

**Width - Rear Tire Centers** 2462 mm

**Width - Overall Machine** 3937 mm

**Width - Outside Rear Tires** 3636 mm

**Width - Inside of Bowl** 3404 mm

**Height - Overall Shipping** 3892 mm

**Overall Length** 15.04 m

**Operating Weight - Empty** 46600 kg

**Overall Length - With Bail Down** 16.64 m

**Operating Weight - Empty** 48275 kg

**ROPS/FOPS** ROPS/FOPS meet "ISO Standards."

**Exterior Sound Level** The exterior sound power level for the standard machine (ISO 6393) is 111.5 dB(A).

<b>Steering System</b>	ISO 5010:2007
<b>Reverse Alarm</b>	ISO 9533:2010
<b>Seat Belt</b>	SAE J386:FEB2006
<b>Falling Object Protective Structure (FOPS)</b>	ISO 3449:2005 Level II
<b>Brakes</b>	ISO 3450:2011
<b>Rollover Protection Structure (ROPS)</b>	ISO 3471:2008 for up to 21 282 kg (46,919 lb)
<b>Transmission Gear - Sixth</b>	30.6 km/h
<b>Transmission Gear - Seventh</b>	41.4 km/h
<b>Transmission Gear - Reverse</b>	9.9 km/h
<b>Transmission Gear - Fourth</b>	16.9 km/h
<b>Transmission Gear - Eighth</b>	55.8 km/h
<b>Transmission Gear - First</b>	5.5 km/h
<b>Transmission Gear - Fifth</b>	22.7 km/h
<b>Transmission Gear - Third</b>	12.4 km/h
<b>Transmission Gear - Second</b>	10 km/h
<b>Bowl Lower</b>	3.5 s
<b>Bowl Raise</b>	3.5 s
<b>Rail Raise</b>	1.5 s

**Bail Raise** 1.5 s

**Ejector Retract** 8.5 s

**Bail Lower** 2.1 s

**Apron Lower** 3.8 s

**Ejector Extend** 8.5 s

**Apron Raise** 4 s

## **631K 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

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, dry caliper, hydraulic actuated

### **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)

Turn signals with hazard function, LED headlights, (2) parking aids (1), ROPS, nitrogen oxide filter (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

Diesel Particulate Filter (DPF) temperature

Fuel level

Park brake

Implement lockout

Brake system

Regeneration required

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

DEF fill levels

## **FLUIDS**

Extended Life Coolant to  $-37^{\circ}\text{C}$  ( $-34^{\circ}\text{F}$ )

## **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 m<sup>3</sup> (24 yd<sup>3</sup>), struck

26 m<sup>3</sup> (34 yd<sup>3</sup>), heaped

Vandalism locks

Rims (2)

Hydraulic position sensing cylinders (bowl lift and apron)





## **631K 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

### **SERVICE INSTRUCTIONS**

Film arrangement - U.S. (ANSI)

Film arrangement - International (ISO)

