

# PRODUCT SPECIFICATIONS FOR 623



## GENERAL

<b>Width - Cut</b>	3.14 m
<b>Fuel Tank Refill Capacity - Scraper</b>	763 l
<b>180° Curb-to-Curb Turning Width</b>	11.8 m
<b>Overall Length</b>	13.77 m
<b>Scraper Capacity - Struck</b>	14.4 m <sup>3</sup>
<b>Scraper Capacity - Heaped</b>	17.6 m <sup>3</sup>
<b>Maximum Depth of Cut</b>	262 mm
<b>Tires - Tractor Drive</b>	33.25R29**E3
<b>Overall Shipping Height</b>	3.77 m
<b>Maximum Depth of Spread</b>	465 mm
<b>Overall Width</b>	3.57 m
<b>Top Speed - Loaded</b>	53.9 km/h
<b>Elevator Flight Spacing</b>	520 mm
<b>Number of Flights</b>	15
<b>Rated Load</b>	25 038 kg (55,200 lb); 25.1 tonnes (27.6 tons)
<b>Maximum Floor Opening</b>	1.34 m
<b>Operating Weight - Empty</b>	39937 kg

Tires - Scraper

33.25R29\*\*E3

## ENGINE

Flywheel Power -  
Tractor/Scraper

304 kW (407 hp)

Flywheel Power - Tractor

304 kW

Rated Engine RPM

2000 r/min

Engine Model

Cat C13

Note

C13 engine emits equivalent to U.S. EPA Tier 2/EU Stage II or U.S. EPA Tier 3/EU Stage III.

## TRANSMISSION

Top Speed - Loaded

53.9 km/h

## SCRAPER BOWL

Scraper Capacity - Heaped

17.6 m<sup>3</sup>

## SERVICE REFILL CAPACITIES

Fuel Tank

818 l

Crankcase

30.58 l

Cooling System

45 l

Hydraulic System

83 l

Transmission System

93 l

## DIMENSIONS

Height - Overall Shipping

4037 mm

Length - Overall Machine

13767 mm

<b>Width - Overall Machine</b>	3585 mm
<b>Height - Top of Cab</b>	3621 mm
<b>Height - Scraper Blade Maximum</b>	520 mm
<b>Width - Tractor</b>	3381 mm
<b>Width - Inside of Bowl</b>	3048 mm
<b>Width - Outside Rear Tires</b>	3275 mm
<b>Front of Tractor to Front Axle</b>	3119 mm
<b>Wheel Base</b>	8370 mm
<b>Rear Axle - Rear of Machine</b>	2278 mm
<b>Ground Clearance - Tractor</b>	557 mm
<b>Width - Overall Machine - Ladder Down</b>	3790 mm
<b>Height - Top of Elevator</b>	3768 mm
<b>Axle to Vertical Hitch Pin</b>	432 mm
<b>Width - Rear Tire Centers</b>	2290 mm

## CAB

<b>ROPS/FOPS</b>	Meets ISO standards
<b>Exterior Sound Level</b>	The exterior sound power level for the standard machine (ISO 6393) is 111.5 dB(A).

## SAFETY CRITERIA COMPLIANCE STANDARDS

<b>Falling Object Protective Structure (FOPS)</b>	ISO 3449:2005 Level II
---------------------------------------------------	------------------------

<b>Brakes</b>	ISO 3450:2011
<b>Steering System</b>	ISO 5010:2007
<b>Seat Belt</b>	SAE J386:JUN1985
<b>Rollover Protection Structure (ROPS)</b>	ISO 3471:2008 for up to 17 084 kg (37,664 lb)
<b>Reverse Alarm</b>	ISO 9533:2010

## TRAVEL SPEEDS - RUNOUT

<b>Transmission Gear - Reverse</b>	9.2 km/h
<b>Transmission Gear - Fifth</b>	21.9 km/h
<b>Transmission Gear - First</b>	5 km/h
<b>Transmission Gear - Eighth</b>	53.9 km/h
<b>Transmission Gear - Sixth</b>	29.6 km/h
<b>Transmission Gear - Third</b>	12.1 km/h
<b>Transmission Gear - Seventh</b>	39.9 km/h
<b>Transmission Gear - Second</b>	8.9 km/h
<b>Transmission Gear - Fourth</b>	16.3 km/h

## IMPLEMENT CYCLE TIMES

<b>Ejector Retract</b>	9.7 s
<b>Ejector Extend</b>	6.45 s
<b>Bowl Raise</b>	3 s
<b>Bowl Lower</b>	3.5 s

# 623 STANDARD EQUIPMENT

## NOTE

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

## POWER TRAIN - TRACTOR

Cat C13

Cat engine brake

Electric start, 24 Volt

Air cleaner, dry type with precleaner

Fan, hydraulic

Ground level engine shutdown

Radiator, aluminum unit core, 9 fins per inch

Guard, crankcase

Muffler (only for less or non-regulated regions engine arrangement only)

Starting aid, ether

## BRAKING SYSTEM

Throttle lock

Primary and secondary, wet disc, hydraulic

Parking , hydraulic released, spring applied

Primary and secondary, wet disc, hydraulic

## TRANSMISSION

ECPC control

Standard tire spin reduction

8-speed planetary power shift

Programmable top gear selection

Differential lock

Transmission hold

Differential lock protection

Machine speed limit

Guard, power train

Ground speed control

APECS software

## ELECTRICAL - TRACTOR

Alternator, 150 Amp

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

Electrical system, 24V

Starting/charging receptacle

## LIGHTING SYSTEM - TRACTOR

Turn Signals with hazard Function

Headlights, halogen  
LED Floodlights  
Bowl (1)  
Cutting Edge (2)  
Halogen side vision (2)

## **ELECTRICAL - SCRAPER**

Alarm, backup

## **LIGHTING SYSTEM - SCRAPER**

Turn signals with hazard function, LED  
Brake lights, LED

## **KEYPAD SWITCHES**

Throttle lock  
Work lights on/off  
Wipers/washers  
Information mode on Messenger Display  
Retarding level select  
Hazard lights

## **SAFETY TAB ROCKER SWITCHES**

Parking Brake  
Regeneration control

## **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  
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:**

Cushion hitch  
Coolant temperature  
System voltage  
Secondary steering  
High beam lights  
Brake system  
Bail down  
Park brake  
Implement lockout  
Engine oil temperature  
Apron float  
Differential lock (1)  
Hydraulic oil temperature  
Engine speed, rpm  
Throttle lock  
Action lamp  
Ejector auto  
Transmission hold  
Regeneration required  
Gear selection  
Fuel level

## **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 pin, front  
Vandalism locks  
Heater, engine coolant 120V

## **BOWL**

17.6 m<sup>3</sup> (23 yd<sup>3</sup>), heaped  
13.5 m❖ (17.6 yd❖), struck

## **OTHER STANDARD EQUIPMENT - SCRAPER**

Vandalism locks

Elevator with 15 flights

Hydraulic position sensing cylinders (bowl lift and apron)

## **623 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

Product Link

Cat Grade Control with Load Assist

### **OTHER ATTACHMENTS**

Camera arrangement - WAVS

Steering lock - external

Cab beacon

Air horn

Air horn and beacon

Fender, scraper

Wiring group

Year of manufacture plate

### **WORK LIGHT ATTACHMENTS**

HID work lights

### **AMBIENT CAPABILITY ARRANGEMENTS**

Cooling, high ambient HRC

Extended Life Coolant, -50  C (-58  F)

Cooling, high ambient LRC

Cooling, low ambient LRC

### **SERVICE INSTRUCTIONS**

Film arrangement - U.S. (ANSI)

Film arrangement - International (ISO)