

PRODUCT SPECIFICATIONS FOR 637K

GENERAL

Rated Load	37 200 kg (82,200 lb); 37.2 tonnes (41.1 tons)
Fuel Tank Refill Capacity - Scraper	1400 l
180° Curb-to-Curb Turning Width	12.23 m
Overall Shipping Height	4.15 m
Overall Width	3.94 m
Top Speed - Loaded	55.8 km/h
Scraper Capacity - Heaped	26 m ³
Width - Cut	3.51 m
Maximum Depth of Cut	450 mm
Tires - Scraper	37.25R35**E3
Maximum Depth of Spread	535 mm
Scraper Capacity - Struck	18.3 m ³
Tires - Tractor	37.25R35**E3

ENGINE

Rated Engine RPM - Tractor	1900 r/min
Rated Engine RPM - Scraper	2150 r/min
Flywheel Power - Scraper	216 kW
Engine Model - Scraper	Cat C9.3
Emissions	Cat C9.3 and C18 engines meet U.S. EPA Tier 4 Final/EU Stage IV emission standards.
Flywheel Power - Tractor	425 kW
Engine Model - Tractor	Cat C18

TRACTOR ENGINE

Flywheel Power - Tractor/Scraper	425 kW
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SCRAPER BOWL

Scraper Capacity - Heaped	26 m ³
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TRANSMISSION

Top Speed - Loaded	55.8 km/h
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SERVICE REFILL CAPACITIES

Crankcase - Tractor	52 l
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Crankcase - Scraper	24.5 l
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Transmission System - Tractor	110 l
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Hydraulic System	142 l
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Diesel Exhaust Fluid - Scraper	22 l
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Diesel Exhaust Fluid - Tractor	30.5 l
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Fuel Tank	1400 l
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Transmission System - Scraper	49 l
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Cooling System - Scraper	61 l
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Cooling System - Tractor	75 l
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DIMENSIONS

Front of Tractor to Front Axle	3612 mm
Axle to Vertical Hitch Pin	509 mm
Wheel Base	8808 mm
Rear Axle - Rear of Machine	2292 mm
Width - Inside of Bowl	3404 mm
Height - Scraper Blade Maximum	510 mm
Length - Overall Machine - Standard	15164 mm
Height - Overall Shipping	4145 mm
Width - Outside Rear Tires	3636 mm
Length - Maximum (Push-Pull)	16640 mm
Extended Push Block (Push-Pull)	2744 mm
Width - Rear Tire Centers	2462 mm
Width - Overall Machine	3937 mm
Width - Tractor	3499 mm
Height - Top of Cab	3733 mm
Ground Clearance - Tractor	664 mm

NON PUSH-PULL

Overall Length	15.04 m
Operating Weight - Empty	52140 kg

PUSH-PULL

Overall Length - With Bail Down	16.64 m
Operating Weight - Empty	54005 kg

CAB

ROPS/FOPS

ROPS/FOPS meet "ISO Standards."

Exterior Sound Level

The exterior sound power level for the standard machine (ISO 6393) is 116 dB(A).

SAFETY CRITERIA COMPLIANCE STANDARDS

Seat Belt

SAE J386:FEB2006

Reverse Alarm

ISO 9533:2010

Rollover Protection Structure (ROPS)

ISO 3471:2008 for up to 21 282 kg (46,919 lb)

Brakes

ISO 3450:2011

Falling Object Protective Structure (FOPS)

ISO 3449:2005 Level II

Steering System

ISO 5010:2007

TRAVEL SPEEDS - RUNOUT

Transmission Gear - Third

12.4 km/h

Transmission Gear - Reverse

9.9 km/h

Transmission Gear - First

5.5 km/h

Transmission Gear - Seventh

41.95 km/h

Transmission Gear - Fifth

22.7 km/h

Transmission Gear - Eighth

55.8 km/h

Transmission Gear - Fourth

16.9 km/h

Transmission Gear - Second

10 km/h

Transmission Gear - Sixth

30.6 km/h

IMPLEMENT CYCLE TIMES

Bail Lower	2.1 s
Ejector Extend	8.5 s
Apron Lower	3.8 s
Bowl Raise	3.5 s
Bowl Lower	3.5 s
Apron Raise	4 s
Bail Raise	1.5 s
Ejector Retract	8.5 s

637K STANDARD EQUIPMENT

POWER TRAIN – TRACTOR

Cat C18 engine with MEUI™

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 actuated

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

Cat C9.3 engine:
High pressure common rail fuel
Constant lift engine brake

Electric start, 24V

Air cleaner, dry type with precleaner

Fan, mechanical driven

Ground level engine shutdown

Radiator, aluminum unit core, 9 fins per inch

Starting aid, either

Braking system:
Primary and secondary, dry caliper, hydraulic actuated

Transmission:
4-speed (torque converter drive)
Planetary power shift

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

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

Alternator, 65 Amp

Electrical system, 24V

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°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

Scraper fenders

Overflow guard

Fast oil change

Rims (2)

Hydraulic position sensing cylinders (bowl lift and apron)

637K OPTIONAL EQUIPMENT

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

Wiring group

Push Pull

SERVICE INSTRUCTIONS

Film arrangement – U.S. (ANSI)

Film arrangement – International (ISO)