

PRODUCT SPECIFICATIONS FOR 651



Tractor Engine	Cat C18
Flywheel Power - Tractor/Scraper	469kW (629 hp)
Net Power	469 kW/637 hp
Gross Power (SAE J1995)	475 kW
Net Power (ISO 14396)	436 kW
Net Power (SAE J1349/ISO 9249)	436 kW
Bore	145 mm
Stroke	183 mm
Displacement	18.1 l
Scraper Capacity - Heaped	33.6 m ³
Rated Load	47200 kg
Capacity - Struck	24.5 m ³
Depth of Cut - Maximum	417 mm
Width - Cut - To Router Bits	3.8 m
Ground Clearance - Maximum	0.7 m
Hyd. Penetration Force - 657G	542 kN

Depth of Spread - Maximum	530 mm
Apron Opening	2337 mm
Apron Closure Force	176 kN
Top Speed - Loaded	56.1 km/h
1 Forward	5.7 km/h
2 Forward	10.5 km/h
3 Forward	12.5 km/h
4 Forward	17 km/h
5 Forward	22.8 km/h
6 Forward	30.9 km/h
7 Forward	41.4 km/h
8 Forward	56.1 km/h
Reverse	10.8 km/h
Bowl Cylinder Bore	180 mm
Bowl Cylinder Stroke	950 mm
Apron Cylinder Bore	180 mm
Apron Cylinder Stroke	759.5 mm
Steering Circuit (@ High Idle)	200 l/min

Steering Circuit (@ High Idle)	200 l/min
Cushion Hitch Circuit	74 l/min
Secondary Steering Circuit	55 l/hr
Relief Valve - Steering Circuit	13500 kPa
Relief Valve - Implement Circuit	13780 kPa
Compensator Settings - Cushion Hitch Circuit	20700 kPa
Width - 180° Turn - Right	13.6 m
Width - 180° Turn - Left	14.5 m
Steering Angle - Right	90
Steering Angle - Left	85
Crankcase	38 l
Transmission	136 l
Differential	136 l
Final Drive - Each	29.5 l
Cooling System	88.6 l
Hydraulic Reservoir	150 l
Windshield Washer	5 l

Width - Overall Machine	4.36 m
Width - Tractor	3.75 m
Width - Rear Tire Center Lines	2.81 m
Width - Inside of Bowl	3.68 m
Width - Outside Bowl - Shipping Width	3.93 m
Height - Overall Shipping	4.66 m
Height - Top of Cab	3.92 m
Ground Clearance - Tractor	0.7 m
Front of Tractor to Front Axle	4.55 m
Axle to Vertical Hitch Pin	0.55 m
Height - Scraper Blade Maximum	0.66 m
Wheel Base	9.96 m
Length - Overall Machine	17.97 m
Rear Axle - Rear of Machine	2.46 m
Total Shipping	72804 kg
Tractor Shipping	42472 kg
Scraper Shipping	29061 kg
Total Operating - Empty	74500 kg

Front Axle	42566 kg
------------	----------

Rear Axle	30238 kg
-----------	----------

Total Operating - Loaded	121700 kg
--------------------------	-----------

Front Axle - Loaded	60856 kg
---------------------	----------

Rear Axle - Loaded	59121 kg
--------------------	----------

Fuel Tank	1628 l
-----------	--------

Differential	168 l
--------------	-------

Final Drive - Each	30 l
--------------------	------

Transmission	121 l
--------------	-------

Crankcase	34 l
-----------	------

Cooling System	63.2 l
----------------	--------

651 STANDARD EQUIPMENT

NOTE

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

ELECTRICAL

Alarm, backup

Alternator, 115 amp - tractor engine

Alternator, 65 amp - scraper engine

Batteries Tractor (4), 12V Maintenance Free, High Output

Batteries Scraper (4), 12V Maintenance Free, High Output

Electrical System, 24V

Lighting System - Tractor

Lighting System - Scraper

Starting Receptacle - tractor and scraper engines

OPERATOR ENVIRONMENT

Air Conditioner (includes heater and defroster)

Automotive style fuse panel with fuse puller

Lunch box platform with holding strap

Coat Hook

Cup holder

Diagnostic Connection Port (12V)

Dome Courtesy Light

Engine speed lock

Fan defroster

Gauge Group

Horn

Implement Control Joystick

Rearview Mirrors

Radio Ready

2 radio openings, speakers, and 5-amp converter

ROPS Cab with Sound Suppression and Pressurization

Static Seatbelt, 2 piece

Scraper Engine Controls

Scraper Engine Controls

Seat, Air Suspension, Cat Advanced Ride Management

Steering Wheel - tilt and telescoping

Storage Compartment

Transmission Hold

Windows - sliding side

Windshield - laminated glass

Windshield Wiper/Washer - front and rear

Wrist Rest/Grab Handle

POWER TRAIN

Tractor

Scraper

OTHER STANDARD EQUIPMENT

Tractor

Scraper

