

# PRODUCT SPECIFICATIONS FOR 657



<b>Tractor Engine</b>	Cat C18
<b>Scraper Engine</b>	Cat C15
<b>Flywheel Power - Tractor/Scraper</b>	469kW (629 hp) / 353 kW (473 hp)
<b>Net Power</b>	469 kW/637 hp
<b>Gross Power (SAE J1995)</b>	475 kW
<b>Net Power (ISO 14396)</b>	469 kW
<b>Net Power (SAE J1349/ISO 9249)</b>	436 kW
<b>Net Power (SAE J1349/ISO 9249)</b>	436 kW
<b>Bore</b>	145 mm
<b>Stroke</b>	183 mm
<b>Displacement</b>	18.1 l
<b>Net Power</b>	353 kW/447 hp
<b>Gross Power (SAE J1995)</b>	359 kW
<b>Net Power (ISO 14396)</b>	353 kW
<b>Net Power (SAE J1349/ISO 9249)</b>	333 kW
<b>Bore</b>	137.2 mm

<b>Stroke</b>	171.5 mm
<b>Displacement</b>	15.2 l
<b>Scraper Capacity - Heaped</b>	33.6 m <sup>3</sup>
<b>Rated Load</b>	47200 kg
<b>Capacity - Struck</b>	24.5 m <sup>3</sup>
<b>Depth of Cut - Maximum</b>	417 mm
<b>Width - Cut - To Router Bits</b>	3.8 m
<b>Ground Clearance - Maximum</b>	0.7 m
<b>Hyd. Penetration Force - 657G</b>	542 kN
<b>Depth of Spread - Maximum</b>	660 mm
<b>Apron Opening</b>	2337 mm
<b>Apron Closure Force</b>	176 kN
<b>Top Speed - Loaded</b>	56.1 km/h
<b>1 Forward</b>	5.7 km/h
<b>2 Forward</b>	10.5 km/h
<b>3 Forward</b>	12.5 km/h
<b>4 Forward</b>	17 km/h
<b>5 Forward</b>	22.8 km/h

<b>5 Forward</b>	22.0 km/h
<b>6 Forward</b>	30.9 km/h
<b>7 Forward</b>	41.4 km/h
<b>8 Forward</b>	56.1 km/h
<b>Reverse</b>	10.8 km/h
<b>Bowl Cylinder Bore</b>	180 mm
<b>Bowl Cylinder Stroke</b>	950 mm
<b>Apron Cylinder Bore</b>	180 mm
<b>Apron Cylinder Stroke</b>	759.5 mm
<b>Ejector Cylinder Stroke (Stage 1/ Stage 2)</b>	973.5 mm
<b>Steering Circuit (@ High Idle)</b>	288 l/min
<b>Implement Circuit (@ High Idle)</b>	517 l/min
<b>Cushion Hitch Circuit</b>	74 l/min
<b>Secondary Steering Circuit</b>	55 l/hr
<b>Relief Valve - Steering Circuit</b>	13500 kPa
<b>Relief Valve - Implement Circuit</b>	13780 kPa
<b>Compensator Settings - Cushion Hitch Circuit</b>	20700 kPa
<b>Width - 180° Turn - Right</b>	13.85 m

<b>Width - 180° Turn - Left</b>	14.5 m
<b>Steering Angle - Right</b>	90
<b>Steering Angle - Left</b>	85
<b>Crankcase</b>	38 l
<b>Transmission</b>	136 l
<b>Differential</b>	136 l
<b>Final Drive - Each</b>	29.5 l
<b>Cooling System</b>	88.6 l
<b>Hydraulic Reservoir</b>	150 l
<b>Windshield Washer</b>	5 l
<b>Fuel Tank</b>	1628 l
<b>Crankcase</b>	34 l
<b>Transmission</b>	121 l
<b>Differential</b>	168 l
<b>Final Drive - Each</b>	30 l
<b>Cooling System</b>	63.2 l
<b>Width - Overall Machine</b>	4.36 m

<b>Width - Tractor</b>	3.75 m
<b>Width - Rear Tire Center Lines</b>	2.81 m
<b>Width - Inside of Bowl</b>	3.68 m
<b>Width - Outside Bowl - Shipping Width</b>	3.93 m
<b>Height - Overall Shipping</b>	4.66 m
<b>Height - Top of Cab</b>	3.92 m
<b>Ground Clearance - Tractor</b>	0.7 m
<b>Front of Tractor to Front Axle</b>	4.55 m
<b>Axle to Vertical Hitch Pin</b>	0.55 m
<b>Height - Scraper Blade Maximum</b>	0.66 m
<b>Wheel Base</b>	9.96 m
<b>Length - Overall Machine</b>	17.97 m
<b>Rear Axle - Rear of Machine</b>	2.46 m
<b>Total Shipping</b>	72804 kg
<b>Tractor Shipping</b>	42472 kg
<b>Scraper Shipping</b>	29061 kg
<b>Total Operating - Empty</b>	74500 kg
<b>Front Axle</b>	42566 kg

**Rear Axle**

30238 kg

**Total Operating - Loaded**

121700 kg

**Front Axle - Loaded**

60856 kg

**Rear Axle - Loaded**

59121 kg

**657 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

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



