



Groundwork

**DISCOVERY 200
SOLAR PANEL CLEANER**



Discovery 200 Solar Panel Cleaner

The Discovery 200 is a tractor mounted cleaning equipment designed to clean photovoltaic solar panels and to help maintain and optimize the performance of your PV panels. The Tractor features a powerful cleaning brush as well as a 1000L water tank. There are four different cleaning brush lengths available: 2.2 meters, 3.2 meters, 4.2 meters and 6 meters

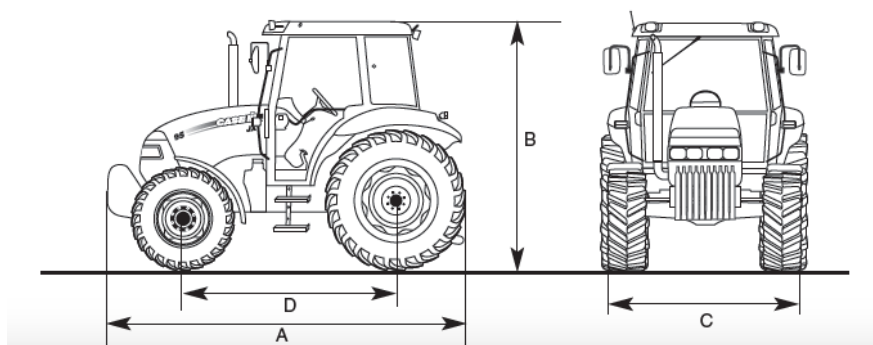


Custom size cleaning brush to suit your solar farm. Four brush lengths available:

- 2.2 meters
- 3.2 meters
- 4.2 meters
- 6 meters

CASE JX 80 4WD Tractor

1000 L Water Tank



SPECIFICATIONS - CASE JX 80

Engine

No. of cylinders/capacity (cm3)/type	4 / 3200 / Turbo charged & Intercooled
Rated Engine power ECE R 120 ¹⁾ @ 2,500rpm (kW/hp(CV))	60 / 82
Max torque ECE R120 @ engine rpm (kW/hp(CV))	328 @ 1250
Torque rise acc. OECD (%)	41
Fuel tank capacity -standard/optional (litres)	90 / 118

Transmission*

Standard	12 Fwd / 12 Rev with mechanical shuttle
Optional	-
Optional with Creeper	20 Fwd / 12 Rev with mechanical shuttle

Drive and Steering

Front axle standard/optional	2WD / 4WD with limited slip differential
4WD front axle system standard/optional	electro-hydraulic engagement/ mechanical engagement
Rear differential lock system 2WD	electro-hydraulic engagement
Rear differential lock system 4WD	(mechanical engagement optional)
4WD optional feature	brake discs integrated into front axle
Turning radius 2WD/4WD	3900 / 5100

Power Take Off

Type	mechanical engagement
Rear pto speeds standard	540 /540E /proportional ground speed
Rear pto speeds optional	540 /proportional ground speed or 540 /1000 /proportional ground speed

Hydraulic System

Max pump flow - steering/hitch and external services	26.5l/min 45l/min (optional 61l/min)
Remote valves	max 4 rear mounted Open Centre type
Rear linkage control type	MHC (Mechanical Hitch Control)
Rear lift capacity (kg)	3565

Weights* and Dimensions ²⁾

Minimum Weight ³⁾ /Permissible total weight ³⁾ (kg)	3620 / 5800
A - Max Length ³⁾	4157
B - Min - Max track width ³⁾ (mm)	1400 - 2000
C - Max height ³⁾ over cab (mm)	2627
Max height over ROPS (mm)	2760
D- Wheelbase - 2WD/4WD	2281 / 2225

Standard Tyres*

Front 2 WD/4WD	9.00-16/ 13.6 R24
Rear	16.9 R34

* to comply with legislation and specification in your country.

1) ECE R 120 correspond to ISO TR14396 2) with standard tyres 3) 4WD cab tractor



SPECIFICATIONS - CLEANING BRUSH

Cleaning Brush Length (mm)	2200 / 3200 / 4200 / 6000
Brush Diameter (mm)	300
Max. working pressure for the washing pump (bar)	40
Water flow for the washing pump (l/min)	80
Rotation Speed (rpm)	120
Brush Material	Fully Hydraulic
Weight (kg)	350
Recommended Driving Speed (km/h)	1.5 - 2.0
Water Tank	Attachable to a three-point rear hitch for a fast change of the water tanks
Water Pump	Water pump is connected via the tractors universal joint shaft
Tank Capacity (L)	1000
WATER CONSUMPTION:	
brush l/min	13
multi-sprinkler bar l/min	26
Average cleaning speed m/h	1500 meters
Cleaned surface per hour m ²	3000 - 5400 m ²
Cleaned surface with full tank m ²	5400 - 6500 m ²