

PRODUCT SPECIFICATIONS FOR M323F



Engine Model	Cat C4.4
Engine Power - Maximum Net - ISO 9249/SAE J1349 - Metric	112 kW (150 hp/152 PS)
Stroke	127 mm
Maximum Torque - 1,400 rpm	710 N·m
Engine Power - Maximum Gross - ISO 14396	117 kW (157 hp/159 PS)
Number of Cylinders - In Line	4
Bore	105 mm
Ratings	2000 r/min
Displacement	4.4 l
Note	Meets stage IV emission standards
Maximum Travel Speed - Road Mode	20 km/h
Drawbar Pull - Road Mode	104 kN
Maximum Travel Speed - Rail Mode	20 km/h
Drawbar Pull - Rail Mode	45 kN
Maximum Swing Torque	42 kg/m ²
Maximum Swing Speed	9 r/min

Road Ground Clearance	360 mm
Rail Ground Clearance	195 mm
Diesel Exhaust Fluid (DEF)	19 l
Fuel Tank - Total Capacity	240 l
Operating Weight*	22 900 kg - 23 900 kg (50,486 - 52,590 lb)
Counterweights - Standard	6400 kg
Counterweights - Optional	7400 kg
Note	Operating weight includes medium stick, full fuel tank, operator and dual pneumatic tires. Weight varies depending on configuration.
Maximum Pressure - Implement Circuit - Normal	35000 kPa
Maximum Flow - Swing Mechanism	80 l/min
Maximum Flow - Auxiliary Circuit - High Pressure	240 l/min
Maximum Pressure - Implement Circuit - Travel Circuit	35000 kPa
Maximum Flow - Auxiliary Circuit - Medium Pressure	49 l/min
Maximum Pressure - Auxiliary Circuit - High Pressure	35000 kPa
Tank Capacity	122 l

Swing Mechanism		37000 kPa
System		240 l
Maximum Flow - Implement/Travel Circuit		240 l/min
Maximum Pressure - Implement Circuit - Heavy Lift		37500 kPa
Maximum Pressure - Auxiliary Circuit - Medium Pressure		18500 kPa
Stick Length	2100 mm	
Stick Digging Force - ISO 6015	84 kN	
Digging Depth	5610 mm	
Digging Height	10070 mm	
Boom Type	VA Boom	
Reach at Ground Level	9090 mm	
Dump Height	6920 mm	
Bucket Digging Force - ISO 6015	114 kN	
Note	Range values are calculated with GD Bucket 1100 mm, 0.80 m ³ with tips K080 and CW-20-H.4.N quick coupler with a tip radius of 1574 mm. Breakout force values are calculated with heavy lift on (no quick coupler) and a cutting edge tip radius of 1237 mm.	
Recyclability	93%	

M323F STANDARD EQUIPMENT

NOTE

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

BOOM AND STICK

5.2 m (17'1") VA boom, 2.1 m (6'11") stick

UNDERCARRIAGE AND STRUCTURES

Rail wheels - insulated according to local regulations

Road and rail all-wheel drive

6.4t (14,110 lb) counterweight

Two speed hydrostatic transmission on road or rail

Independent rail hydrostatic transmission

Automatic rail axle lock

Automatic lock mode for oscillating front road axle & service brake

Heavy-duty axles with advanced disc brake system and travel motor with adjustable braking force

Towing Bar

HYDRAULIC SYSTEM

- Adjustable hydraulic sensitivity
- One medium pressure circuit
- Dedicated swing pump
- Load sensing hydraulic system
- Programmable flow and pressure for up to 10 attachments

SERVICE AND MAINTENANCE

- Ground-level fuel and engine oil filters and fluid taps

SAFETY AND SECURITY

- Emergency stop button
- Backup electro-hydraulic pump for rail emergencies
- Safety decals for rail certification
- Rear and right-side cameras
- ROPS operator and secondary cab
- Stick lowering control valve (SLCV) and boom lowering control valve (BLCV) including overload warning device
- Pin code engine start prevention

CAB

- Bolt-on falling object guard system (FOGS) capability
- FM radio with speakers
- LCD Screens for hydrostatic deceleration power and rail trailer brake pressure
- Secondary Cab

ENGINE

- Cat C4.4 Stage IV Engine
- Altitude 3000 m (9,842 ft) capability without derate
- Electric fuel priming pump
- Automatic starting aid

ELECTRICAL SYSTEM

- 100 A alternator
- 12 V - 10 A power supply in primary and secondary cab
- Two front and two rear roading lights
- Refueling pump
- Electric & pneumatic signal/warning horn

M323F OPTIONAL EQUIPMENT

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UNDERCARRIAGE AND STRUCTURES

7.4t (16,314 lb) counterweight

Travel restraint bracket for clamshell/grapple

HYDRAULIC SYSTEM

Two medium pressure circuits

Auxiliary circuit pedal

Biodegradable hydraulic oil

Bio oil micro-filtration unit

SERVICE AND MAINTENANCE

Centralized lubrication for undercarriage

Auto-lubricating system

SAFETY AND SECURITY

Pneumatic system for rail trailer brakes

ELECTRICAL SYSTEM

Right side, VA boom, and stick flood lights

Adjustable travel alarm

International Union of Railways (UIC) certified rail lights

24V - 10 A power supply at stick end

