

M318D

Wheel Excavator

The D Series incorporates innovations for improved performance and versatility.

Increased lifting capacity, improved cycle times and ease of operation lead to increased productivity and lower operating costs.

Engine

The EU Stage IIIA compliant C6.6 offers increased performance and reliability while reducing fuel consumption and sound levels.

Environmentally Responsible Design

Helping to protect our environment, the engine has low operator and spectator sound levels, longer filter change intervals and is more fuel-efficient.

Hydraulics

The state of the art load-sensing hydraulic system combined with a separate dedicated swing pump provides fast cycle times, increased lift capacity and high bucket and stick forces. This combination maximizes your productivity in any job.



Serviceability

For increased safety, all daily maintenance points are accessible from ground level. A centralized greasing system allows lubrication of critical points.

Operator Comfort

The totally redesigned operator station maximizes comfort while increasing safety. The available auto-weight adjusted air-suspension seat with heated and cooled ventilated cushions improves operator comfort. Safety is enhanced by the new color monitor and standard rear-mounted camera.

Undercarriage

Various undercarriage configuration with blade and outriggers are available to provide the best solution for you.



M318D Wheel Excavator Specifications

Engine

Engine Model	Cat® C6.6 with ACERT™ Technology
Ratings	1,800 rpm
Gross Power	130 kW (177 hp)
Net Power	
ISO 9249	124 kW (169 hp)
80/1269/EEC	124 kW (169 hp)
Bore	105 mm
Stroke	127 mm
Displacement	6.6 L
Cylinders	6
Maximum Torque at 1,400 rpm	805 N·m

- All engine horsepower (hp) are metric.
- EU Stage IIIA compliant.
- Full engine net power up to 3000 m altitude.

Hydraulic System

Tank Capacity	170 L
System	255 L
Maximum Pressure	
Implement Circuit	
Normal	350 bar
Heavy Lift	375 bar
Travel Circuit	350 bar
Auxiliary Circuit	
High Pressure	350 bar
Medium Pressure	185 bar
Swing Mechanism	310 bar
Maximum Flow	
Implement/Travel Circuit	290 L/min
Auxiliary Circuit	
High Pressure	250 L/min
Medium Pressure	50 L/min
Swing Mechanism	112 L/min

Weights

VA Boom*	
Rear Dozer Only	17 850 kg
Rear Dozer, Front Outriggers	18 900 kg
Front and Rear Outriggers	19 100 kg
One-Piece Boom*	
Rear Dozer Only	17 350 kg
Rear Dozer, Front Outriggers	18 350 kg
Front and Rear Outriggers	18 550 kg
Sticks	
Short (2200 mm)	550 kg
Medium (2500 mm)	580 kg
Long (2800 mm)	600 kg
Industrial (3300 mm)	520 kg
Dozer Blade	740 kg
Outriggers	1030 kg
Counterweight	4000 kg

- Machine weight with medium stick, 4000 kg counterweight, with operator and full fuel tank, without work tool. Weight varies depending on configuration.

Transmission

Forward/Reverse	
1st Gear	8 km/h
2nd Gear	37 km/h
Creeper Speed	
1st Gear	3 km/h
2nd Gear	13 km/h
Drawbar Pull	99 kN
Maximum Gradeability	60%

M318D Wheel Excavator Specifications

Swing Mechanism

Swing Speed	10.5 rpm
Swing Torque	48 kN·m

Tires

Standard

- 10.00-20 (dual pneumatic)

Optional

- 11.00-20 (dual pneumatic)
- 18 R 19.5 XF (single pneumatic)
- 10.00-20 (dual solid rubber)

Undercarriage

Ground Clearance	370 mm
Maximum Steering Angle	35°
Oscillation Axle Angle	± 9°

Minimum Turning Radius

Standard Axle

Outside of Tire	6400 mm
End of VA Boom	7000 mm
End of One-Piece Boom	8300 mm

Wide Axle

Outside of Tire	6500 mm
End of VA Boom	7100 mm
End of One-Piece Boom	8500 mm

Service Refill Capacities

Fuel Tank	385 L
Cooling	36 L
Engine Crankcase	15 L
Rear Axle Housing (differential)	14 L
Front Steering Axle (differential)	10.5 L
Final Drive	2.5 L
Powershift Transmission	2.5 L

Sound Levels

Exterior Sound

- The labeled spectator sound power level measured according to the test procedures and conditions specified in 2000/14/EC is 103 dB(A).

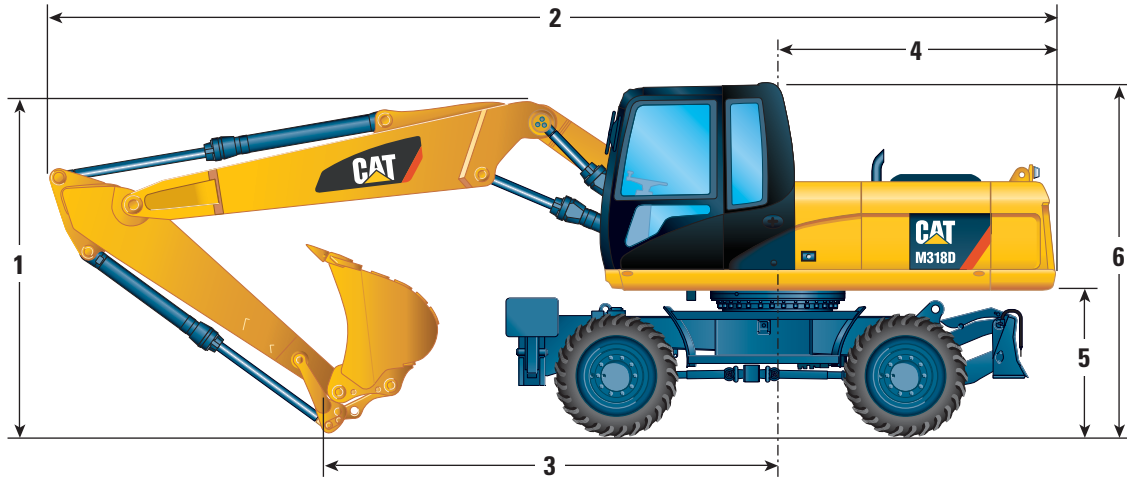
Cab/ROPS/FOGS

- Cat cab with integrated Roll Over Protective Structure (ROPS) meets ISO 12117-2:2008 criteria.
- Cab with Falling Object Guard Structure (FOGS) meets ISO 10262.

M318D Wheel Excavator Specifications

Dimensions

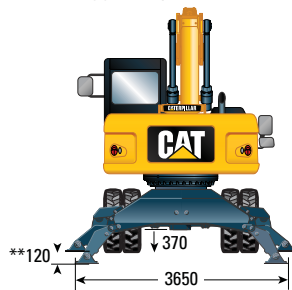
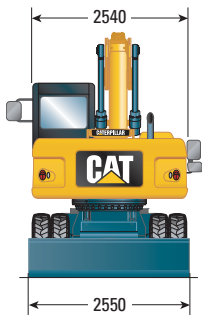
All dimensions are approximate.



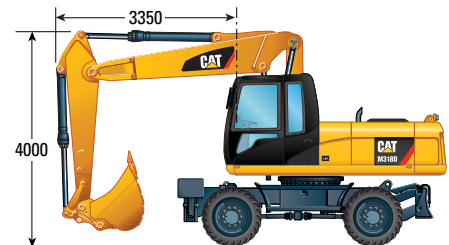
	mm	VA Boom				One-Piece Boom			
		2200	2500	2800	*3300	2200	2500	2800	*3300
Stick Length	mm	2200	2500	2800	*3300	2200	2500	2800	*3300
1 Shipping Height	mm	3170	3170	3300	3330	3190	3210	3330	3290
2 Shipping Length	mm	8870	8550	8820	8850	8870	8960	8950	9000
3 Support Point	mm	3920	3650	3510	3270	3810	3490	3310	3080
4 Tail Swing Radius	mm	2565				2565			
5 Counterweight Clearance	mm	1275				1275			
6 Cab Height	mm	3170				3170			
With 1200 mm Fixed Cab Riser	mm	4370				4370			
Overall Machine Width	mm	2550				2550			
Wide Gauge Axle	mm	2750				2750			

* Industrial stick

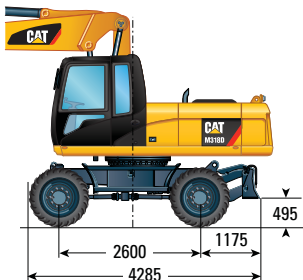
** Maximum tire clearance with outrigger fully down



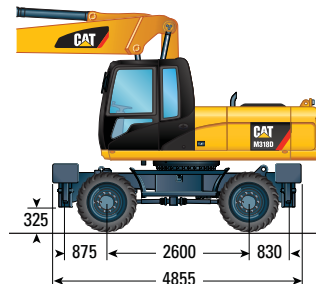
Roading position with 2400 mm stick



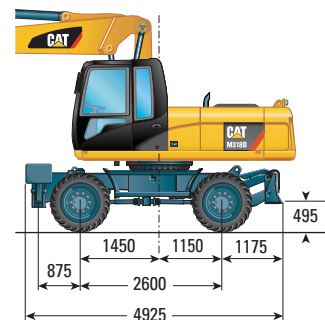
Undercarriage with dozer only



Undercarriage with 2 sets of outriggers

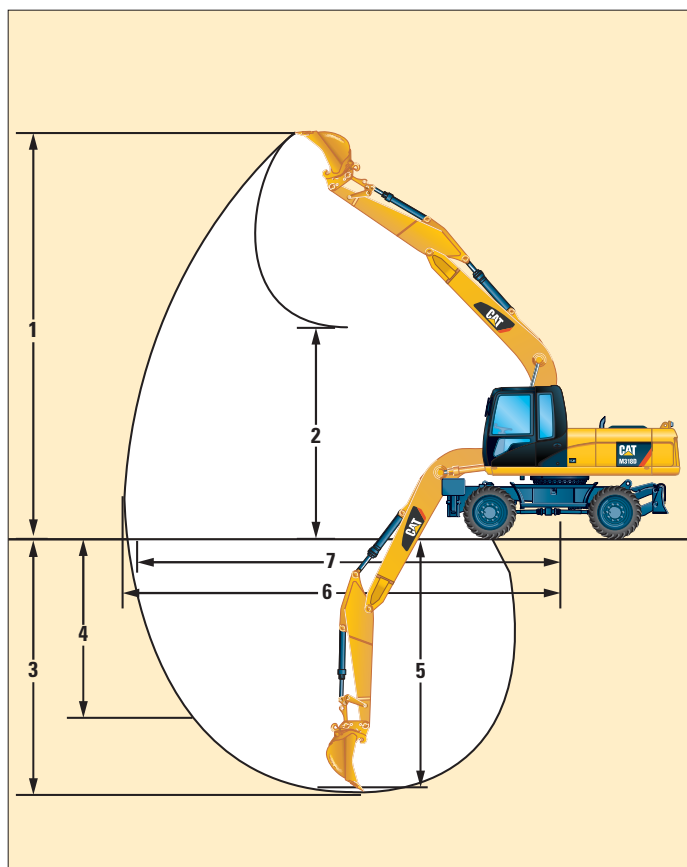
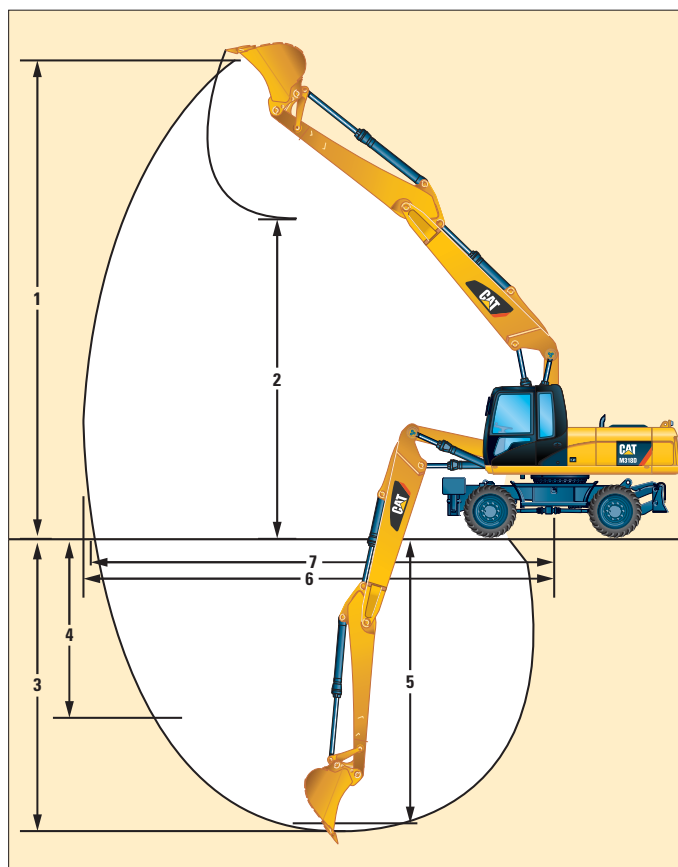


Undercarriage with 1 set of outriggers and dozer



M318D Wheel Excavator Specifications

Working Ranges



		VA Boom				One-Piece Boom			
		2200	2500	2800	*3300	2200	2500	2800	*3300
Stick Length	mm	2200	2500	2800	*3300	2200	2500	2800	*3300
1 Digging Height	mm	9710	10 000	10 210	8620	8760	9010	9170	7560
2 Dump Height	mm	6700	6970	7190	3550	5900	6110	6270	3140
3 Digging Depth	mm	5750	6060	6360	5320	5700	6000	6300	5250
4 Vertical Wall Digging Depth	mm	3220	3680	3960	–	2880	3340	3620	–
5 Depth 2.5 m Straight Clean-Up	mm	5538	5865	6179	–	5488	5805	6119	–
6 Reach	mm	9160	9470	9760	8490	9180	9490	9770	8470
7 Reach at Ground Level	mm	8970	9300	9590	8290	9000	9320	9600	8270
Bucket Forces (ISO 6015)	kN	126	126	126	–	126	126	126	–
Stick Forces (ISO 6015)	kN	102	91	85	–	102	91	85	–

* Industrial stick has no bucket linkage. All dimensions refer to sticknose.

Values 1-7 are calculated with bucket and quick coupler with a tip radius of 1599 mm.

Breakout force values are calculated with heavy lift on (no quick coupler) and a tip radius of 1405 mm.

M318D Wheel Excavator Specifications

Lift Capacities – Variable Adjustable Boom (5260 mm)

All values are in kg, without bucket and without QC, with counterweight (4000 kg), heavy lift on.

Short Stick 2200 mm	Undercarriage configuration	Load at maximum reach (sticknose/bucket pin)			Load over front			Load over rear			Load over side			Load point height		
		3.0 m			4.5 m			6.0 m			7.5 m			m		
		Stick	Pin	Pin	Stick	Pin	Pin	Stick	Pin	Pin	Stick	Pin	Pin	Stick	Pin	Pin
6.0 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				*6700 5800 5750	5800 5750 5700	5050 5050 5050	5050 3600 3150	3600 3150 3150				*4350 3300 2900	3300 3300 3300	2900 3300 3200	6.25
4.5 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				*7650 5500 5500	5500 5500 5500	4800 5500 5500	4950 3500 3050	3500 3050 3050				3800 2650 2300	2650 2300 2300	2300 2650 2550	7.07
3.0 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				7400 5050 5050	5050 5050 5050	4350 5050 5050	4800 *6900 *6900	3350 3350 5000				3400 *4200 *4200	2050 2350 3550	2050 2350 4100	7.50
1.5 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				6950 4700 4400	4700 4650 4650	4000 4650 4400	4600 3150 2700	3150 3150 4800	3300 2300 2300	2300 2000 2000	3250 2250 1950	2250 1950 2250	1950 2250 2250	7.59	
0.0 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				6750 4500 4500	4500 4450 4450	3800 4450 4450	4450 3050 2600	3050 2600 3050				3350 2300 2000	2300 2300 4100	2000 2300 2200	7.38
-1.5 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up	*10 300 8500 8350	8500 8350 8350	6950 8350 8350	6750 4450 4450	4450 4450 4450	3800 4450 4450	4450 *6800 *6800	3000 3000 4650				3750 *5550 *5550	2550 2550 3950	2200 2550 4600	6.81
-3.0 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				6850 4600 4550	4600 4550 4550	3900 4550 4550						4750 *5000 *5000	3250 3250 3250	2800 3250 3100	5.80

Medium Stick 2500 mm	Undercarriage configuration	Load at maximum reach (sticknose/bucket pin)			Load over front			Load over rear			Load over side			Load point height		
		3.0 m			4.5 m			6.0 m			7.5 m			m		
		Stick	Pin	Pin	Stick	Pin	Pin	Stick	Pin	Pin	Stick	Pin	Pin	Stick	Pin	Pin
6.0 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				*6250 5850 5850	5850 5850 5850	5100 5100 5100	5100 3650 3200	3650 3200 3200				*3300 3050 2650	3050 3300 3300	2650 3050 2900	6.63
4.5 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				*7250 5600 5600	5600 5550 5550	4850 5550 5550	5000 *6150 *6150	3550 3550 5250				*3150 2450 2100	2450 2500 3150	2150 2500 3150	7.41
3.0 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				7500 5150 5150	5150 5100 5100	4450 5100 5100	4800 *6750 *6750	3350 3350 5050	3400 2350 2050	2350 2050 2050	3200 *3200 *3200	2200 2200 2100	1900 2200 3200	7.82	
1.5 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				7000 4750 4750	4750 4700 4700	4050 4700 4700	4600 3200 2750	2750 3150 4850	3350 2300 2200	2300 2000 2000	3050 2150 1850	2100 2100 2100	1800 2100 2000	7.91	
0.0 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				6800 4500 4500	4500 4500 4500	3850 4500 4500	4450 3050 2600	2600 3050 4700	3250 2250 2250	1900 1900 3450	3150 2150 1850	2150 2150 2050	1850 2150 3000	7.70	
-1.5 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up	*9500 8400 8450	8400 8300 8300	6900 8300 8300	6700 4450 4450	4450 4450 4450	3800 4450 4450	4400 *7000 *7000	3000 3000 4650				3450 *4400 *4400	2400 2400 4250	2050 2400 2250	7.16
-3.0 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				6800 4550 4550	4550 4500 4500	3850 4500 4500	4500 *5350 *5350	3050 3050 2900				4300 *4900 *4900	2950 2950 2950	2550 2950 2800	6.21

*Limited by hydraulic rather than tipping load.

Lift capacity ratings are based on ISO 10567:2007, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. The load point is the center line of the bucket pivot mounting pin on the stick. The oscillating axle must be locked. Lifting capacities are based on the machine standing on a firm uniform supporting surface and the Variable Boom Cylinder adjusted to the maximum length. For lifting capacity including bucket and/or quick coupler, the respective weight has to be subtracted from above values. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

M318D Wheel Excavator Specifications

Lift Capacities – Variable Adjustable Boom (5260 mm)

All values are in kg, without bucket and without QC, with counterweight (4000 kg), heavy lift on.

Long Stick 2800 mm	Undercarriage configuration	Load at maximum reach (sticknose/bucket pin)			Load over front			Load over rear			Load over side			Load point height		
		3.0 m			4.5 m			6.0 m			7.5 m			m		
		Stick	QC	QC	Stick	QC	QC	Stick	QC	QC	Stick	QC	QC	Stick	QC	QC
6.0 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up							5200	3700	3250				*2900	2800	2450
								*5200	*5200	*5200				*2900	*2900	*2900
								*5200	*5200	*5200				*2900	*2900	*2900
								3700	3550					2850	2700	
4.5 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				*6650	5700	4950	5050	3600	3150	3500	2450	2150	*2800	2350	2050
						*6650	*6650		*5900	*5900	*3950	*3950	*3950	*2800	*2800	*2800
									5700	5400	3600	3450	2450	2350	*2800	*2800
									4950	4500	3450	2950	2100	2350	*2800	*2800
3.0 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				7600	5250	4500	4850	3400	2950	3450	2400	2100	*2800	2100	1800
						*8450	*8450		*6550	*6550	*5550	*5550	*5550	*2800	*2800	*2800
						*8450	*8450		*6550	*6550	*5550	*5550	*5550	*2800	*2800	*2800
									5200	4700	3400	3250	2400	2300	*2800	*2800
1.5 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				7100	4800	4100	4650	3200	2750	3350	2300	2000	2900	2000	1750
						*9800	*9800		*7200	*7200	*5800	*5800	*5800	*2950	*2950	*2950
						*9800	*9800		*7200	*7200	*5800	*5800	*5800	*2950	*2950	*2950
									4800	4550	3200	3050	2200	2200	2000	1900
0.0 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				6800	4550	3850	4500	3050	2600	3250	2250	1950	3000	2050	1750
						*10 250	*10 250		7000	3050	2750	2250	2150	*3250	*3250	*3250
									7100	4700	3400	3250	2400	*3250	*3250	*3250
									4500	4300	3050	2900	2150	2050	1950	
-1.5 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up	*9050	8350	6800	6700	4450	3750	4400	3000	2550				3250	2250	1900
			*9050	*9050		*9700	*9700		6950	3000				*3800	*3800	*3800
			*9050	*9050		*9700	*9700	*7150	7050	4650				*3800	*3800	*3800
				8350	7700	4450	4200	3000	3000	2850					2250	2150
-3.0 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up	*11 150	8500	6950	6750	4500	3800	4450	3000	2600				3950	2700	2300
			*11 150	*11 150		*8200	*8200		*5850	*5850				*4850	*4850	*4850
			*11 150	*11 150		*8200	*8200	*5850	*5850	*5500				*4850	*4850	*4850
				8400	7900	4500	4250	3050	3050	2900					2700	2550

Industrial Stick 3300 mm

Industrial Stick 3300 mm	Undercarriage configuration	Load at maximum reach (sticknose/bucket pin)			Load over front			Load over rear			Load over side			Load point height		
		3.0 m			4.5 m			6.0 m			7.5 m			m		
		Stick	QC	QC	Stick	QC	QC	Stick	QC	QC	Stick	QC	QC	Stick	QC	QC
6.0 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up							*4950	4050	3600				*3150	2900	2600
									*4950	*4950				*3150	*3150	*3150
									*4950	*4950				*3150	*3150	*3150
									4050	3850					2950	2800
4.5 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				*5900	*5900	5300	5400	3950	3500	3850	2800	2450	*3100	2500	2200
						*5900	*5900		*5800	*5800	*4500	*4500	*4500	*3100	*3100	*3100
						*5900	*5900		*5800	*5800	*4500	*4500	*4500	*3100	*3100	*3100
									3950	3750	2800	2700	2100	*3100	2500	2400
3.0 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				8000	5650	4950	5200	3750	3300	3750	2700	2400	3150	2250	2000
						*8150	*8150		*6550	*6550	*5650	*5650	*5650	*3200	*3200	*3200
						*8150	*8150		*6550	*6550	*5650	*5650	*5650	*3200	*3200	*3200
									5700	5400	3750	3600	2700	*3200	*3200	*3200
1.5 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				7550	5200	4500	4950	3550	3100	3650	2600	2300	3050	2200	1900
						*9800	*9800		*7300	*7300	*6000	*6000	*6000	*3400	*3400	*3400
						*9800	*9800		*7300	*7300	*6000	*6000	*6000	*3400	*3400	*3400
									5200	5000	3600	3400	2500	*3400	*3400	*3400
0.0 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up	*7000	*7000	*7000	7200	4900	4200	4800	3350	2950	3550	2500	2200	3100	2200	1950
						*10 600	*10 600		7350	3350				*3800	*3800	*3800
						*7000	*7000		7450	5050				*3800	*3800	*3800
						*7000	*7000	*7750	7600	5850	*6150	5450	4250	*3800	*3800	*3800
									3400	3200					2200	2100
-1.5 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up	*9800	8750	7200	7050	4800	4100	4700	3300	2850	3500	2450	2150	3350	2350	2050
			*9800	*9800		*10 400	*10 400		7250	3250				*4500	*4500	*4500
			*9800	*9800		*10 400	*10 400		7350	4950				*4500	*4500	*4500
				8600	8100	4800	4550	4700	7500	5750	*5850	5400	4200	*4500	*4500	*4500
				8750	8100	4800	4550	4700	3300	3150					2350	2250
-3.0 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up	*12 950	8850	7250	7050	4800	4100	4700	3250	2850				3900	2750	2400
			*12 950	*12 950		*9200	*9200		*6800	*6800				*5450	*5450	*5450
			*12 950	*12 950		*9200	*9200		*6800	*6800				*5450	*5450	*5450
				8200	8200	4800	4550	4700	3250	3100					2750	2600

*Limited by hydraulic rather than tipping load.

Lift capacity ratings are based on ISO 10567:2007, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. The load point is the center line of the bucket pivot mounting pin on the stick. The oscillating axle must be locked. Lifting capacities are based on the machine standing on a firm uniform supporting surface and the Variable Boom Cylinder adjusted to the maximum length. For lifting capacity including bucket and/or quick coupler, the respective weight has to be subtracted from above values. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

M318D Wheel Excavator Specifications

Lift Capacities – One-Piece Boom (5350 mm)

All values are in kg, without bucket and without QC, with counterweight (4000 kg), heavy lift on.

Short Stick 2200 mm	Load at maximum reach (sticknose/bucket pin)	Load over front	Load over rear	Load over side	Load point height	Lift Capacities																
						3.0 m			4.5 m			6.0 m			7.5 m			Stick				
						Stick	Stick	Stick	Stick	Stick	Stick	Stick	Stick	Stick	Stick	Stick	Stick	Stick	Stick	Stick	Stick	Stick
6.0 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up								5000	3600	3150								*4450	3300	2900	6.29
4.5 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up								4950	3500	3050								*4450	3300	2900	7.10
3.0 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up								4750	3350	2900	3400	2350	2050	3350	2350	2050		*4500	3350	2900	7.52
1.5 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up								4550	3150	2750	3300	2300	2000	3250	2250	1950		*4850	3400	3050	7.62
0.0 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up								4450	3050	2650				3350	2300	2000		*5500	3500	3100	7.40
-1.5 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up	*10 150	8550	7000	6750	4500	3850	4400	3000	2600					3700	2550	2200		*5800	3900	3500	6.84
-3.0 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up	*10 050	8700	7150	6850	4600	3900								4700	3250	2800		*5550	4950	4550	5.83

Medium Stick 2500 mm	Load at maximum reach (sticknose/bucket pin)	Load over front	Load over rear	Load over side	Load point height	Lift Capacities																
						3.0 m			4.5 m			6.0 m			7.5 m			Stick				
						Stick	Stick	Stick	Stick	Stick	Stick	Stick	Stick	Stick	Stick	Stick	Stick	Stick	Stick	Stick	Stick	Stick
6.0 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up								5050	3650	3200								*3450	3000	2650	6.66
4.5 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up								4950	3550	3100								*3350	2500	2150	7.43
3.0 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up								4800	3350	2950	3400	2400	2100	3150	2200	1950		*3450	3350	3000	7.84
1.5 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up								4600	3200	2750	3300	2300	2000	3050	2100	1850		*3650	3200	2850	7.93
0.0 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up								4450	3050	2650	3250	2250	1950	3150	2150	1850		*4100	3800	3450	7.72
-1.5 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up	*9400	8450	6950	6700	4500	3800	4400	3000	2600					3450	2400	2050		*5000	3600	3250	7.19
-3.0 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up	*11 000	8650	7100	6800	4550	3900	4450	3050	2650					4250	2900	2550		*5350	4450	4050	6.24

*Limited by hydraulic rather than tipping load.


Lift capacity ratings are based on ISO 10567:2007, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. The load point is the center line of the bucket pivot mounting pin on the stick. The oscillating axle must be locked. Lifting capacities are based on the machine standing on a firm uniform supporting surface. For lifting capacity including bucket and/or quick coupler, the respective weight has to be subtracted from above values. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

M318D Wheel Excavator Specifications

Lift Capacities – One-Piece Boom (5350 mm)

All values are in kg, without bucket and without QC, with counterweight (4000 kg), heavy lift on.

 Load at maximum reach (sticknose/bucket pin)  Load over front  Load over rear  Load over side  Load point height

**Long
Stick
2800 mm**

Stick height	Undercarriage configuration	3.0 m			4.5 m			6.0 m			7.5 m			Stick height			m
		Front	Side	Rear	Front	Side	Rear	Front	Side	Rear	Front	Side	Rear	Front	Side	Rear	
6.0 m	Rear dozer up							5150	3700	3250				*3050	2800	2500	7.00
	Rear dozer down								*5200	3700					*3050	2800	
4.5 m	Dozer and stabilizer down								*5200	*5200							7.73
	2 sets of stabilizers down								*5200	*5200							
3.0 m	Wide axle rear dozer up								3700	3550					2800	2700	8.12
	Rear dozer up				7500	5200	4500	4800	3400	2950	3450	2400	2100	3000	2100	1850	
1.5 m	Rear dozer down								*8350	5150					*3000	2100	8.21
	Dozer and stabilizer down								*8350	7900					*3000	3000	
0.0 m	2 sets of stabilizers down								5200	4950					*3000	3000	8.01
	Wide axle rear dozer up				7050	4800	4100	4600	3200	2800	3350	2300	2000	2900	2000	1750	
-1.5 m	Rear dozer down								*9800	4750					*3200	2050	7.50
	Dozer and stabilizer down								*9800	7450					*3200	3050	
-3.0 m	2 sets of stabilizers down								*9800	8800					*3200	3200	6.60
	Wide axle rear dozer up				6800	4550	3900	4450	3050	2650	3250	2250	1950	3000	2050	1800	
-4.5 m	Rear dozer down								*10 350	7150					*3600	2050	5.09
	Dozer and stabilizer down								*10 350	8500					*3600	3100	
-1.5 m	2 sets of stabilizers down								4550	4300					2050	1950	7.50
	Wide axle rear dozer up	*9000	8400	6900	6700	4500	3800	4400	3000	2600				3250	2250	1950	
-3.0 m	Rear dozer down								*9950	4450					*4250	2250	6.60
	Dozer and stabilizer down								*9950	7100					*4250	3400	
-4.5 m	2 sets of stabilizers down								*9950	8400					*4250	3950	5.09
	Wide axle rear dozer up	*11 850	8550	7050	6750	4500	3850	4450	3050	2600				3900	2700	2350	

**Industrial
Stick
3300 mm**

Stick height	Undercarriage configuration	3.0 m			4.5 m			6.0 m			7.5 m			Stick height			m
		Front	Side	Rear	Front	Side	Rear	Front	Side	Rear	Front	Side	Rear	Front	Side	Rear	
6.0 m	Rear dozer up													*3250	2950	2600	7.30
	Rear dozer down														*3250	2950	
4.5 m	Dozer and stabilizer down																8.01
	2 sets of stabilizers down							5350	3900	3450	3800	2800	2500	*3250	2500	2250	
3.0 m	Wide axle rear dozer up								*5650	3900					*3250	2500	8.38
	Rear dozer up				7900	5600	4900	5150	3750	3300	3750	2700	2400	3150	2300	2050	
1.5 m	Rear dozer down								*8000	5600					*3350	2300	8.47
	Dozer and stabilizer down								*8000	8000					*3350	3300	
0.0 m	2 sets of stabilizers down								*8000	5600					*3350	3350	8.27
	Wide axle rear dozer up				7500	5200	4500	4950	3550	3100	3650	2600	2300	3050	2200	1950	
-1.5 m	Rear dozer down								*9750	5200					*3600	2200	7.78
	Dozer and stabilizer down								*9750	7850					*3600	3200	
-3.0 m	2 sets of stabilizers down								*9750	9250					*3600	3600	6.92
	Wide axle rear dozer up				7500	5200	4500	4950	3550	3100	3650	2600	2300	3050	2200	2100	
-4.5 m	Rear dozer up								*6950	*6950					*4100	2250	5.50
	Rear dozer down								*6950	6950					*4100	2250	
-1.5 m	Dozer and stabilizer down								*6950	6950					*4100	3250	5.50
	2 sets of stabilizers down								*6950	6950					*4100	3700	
-3.0 m	Wide axle rear dozer up								*6950	6950					*4100	2150	5.50
	Rear dozer up				7050	4800	4150	4700	3300	2900	3500	2500	2200	3350	2400	2100	
-4.5 m	Rear dozer down								*9700	8800					*4950	2400	5.50
	Dozer and stabilizer down								*9700	8650					*4950	3500	
-1.5 m	2 sets of stabilizers down								*9700	9700					*4950	4000	5.50
	Wide axle rear dozer up								*9700	8800					*4950	2300	
-3.0 m	Rear dozer up								*13 600	8850					3900	2750	6.92
	Rear dozer down								*13 600	8750					5800	2750	
-4.5 m	Dozer and stabilizer down								*13 600	*13 600					*5800	4050	5.50
	2 sets of stabilizers down								*13 600	*13 600					*5800	4750	
-1.5 m	Wide axle rear dozer up								*13 600	8900					2750	2650	5.50
	Rear dozer up				7150	4900	4250	4900	3300	2850				5350	3750	3300	
-3.0 m	Rear dozer down								*10 050	9100					*5650	3750	5.50
	Dozer and stabilizer down								*10 050	8950					*5650	3750	
-4.5 m	2 sets of stabilizers down								*10 050	*10 050					*5650	5650	5.50
	Wide axle rear dozer up								*10 050	8450					*5650	3600	

* Limited by hydraulic rather than tipping load.

Lift capacity ratings are based on ISO 10567:2007, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. The load point is the center line of the bucket pivot mounting pin on the stick. The oscillating axle must be locked. Lifting capacities are based on the machine standing on a firm uniform supporting surface. For lifting capacity including bucket and/or quick coupler, the respective weight has to be subtracted from above values. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

M318D Wheel Excavator Standard Equipment

Standard Equipment

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

ELECTRICAL

- Alternator, 75 A
- Lights
 - Boom working light
 - Cab interior light
 - Roading lights two front
 - Roading lights two LED modules rear
 - Rotating beacon on cab
 - Working lights, cab mounted (front and rear)
- Main shut-off switch
- Maintenance free batteries
- Signal/warning horn

ENGINE

- Automatic engine speed control
- Automatic starting aid
- Cat C6.6 with ACERT Technology EU Stage IIIA compliant
- Fuel/water separator with level indicator

HYDRAULICS

- Heavy lift mode
- Load-sensing Plus hydraulic system
- Manual work modes (economy, power)
- Separate swing pump
- Stick regeneration circuit

OPERATOR STATION

- ROPS cab structure compliant with 2006/42/EC and tested according to ISO 12117-2:2008
- Adjustable armrests
- Air conditioner, heater and defroster with automatic climate control
- Ash tray with cigarette lighter (24 volt)
- Beverage cup/can holder
- Bolt-on FOGS capability
- Bottle holder
- Bottom mounted parallel wiping system that covers the upper and lower windshield glass
- Camera mounted on counterweight displays through cab monitor
- Coat hook
- Floor mat, washable, with storage compartment
- Fully adjustable suspension seat

OPERATOR STATION (cont'd)

- Instrument panel and gauges
 - Information and warning messages in local language
 - Gauges for fuel level, engine coolant and hydraulic oil temperature
 - Filters/fluids change interval
 - Indicators for headlights, turning signal, low fuel, engine dial setting
 - Clock with 10-day backup battery
- Laminated front windshield
- Left side console, tiltable, with lock out for all controls
- Literature compartment behind seat
- Literature holder in right console
- Mobile phone holder
- Parking brake
- Positive filtered ventilation
- Power supply, 12V-7A
- Rear window, emergency exit
- Retractable seat belt
- Skylight
- Sliding door windows
- Steering column, tiltable
- Storage area suitable for a lunch box
- Sunshade for windshield and skylight

UNDERCARRIAGE

- Heavy-duty axles, advanced travel motor, adjustable braking force
- Oscillating front axle with remote greasing
- Tires, 10.00-20 16 PR, dual
- Tool boxes (right- and left-hand side) in undercarriage
- Two-piece drive shaft

OTHER EQUIPMENT

- Automatic swing brake
- Counterweight, 4000 kg
- Mirrors, frame and cab
- Product Link ready
- Tool box in upperframe, lockable

Optional Equipment

Optional equipment may vary. Consult your Cat dealer for details.

AUXILIARY CONTROLS AND LINES

- Auxiliary boom and stick lines
- Anti-drift valves for bucket, stick, VA boom and tool control/multi-function circuits
- Basic control circuits:
 - Single action
 - One-way, high pressure circuit, for hammering application
 - Medium pressure
 - Two-way, medium pressure circuit, for rotating or tilting of work tools
 - Tool control/multi function
 - One/two-way high pressure for hammer application or opening and closing of a work tool
 - Programmable flow and pressure for up to 10 work tools – selection via monitor
 - Second high pressure
 - Additional two-way, high pressure circuit, for tools requiring a second high or medium pressure function
 - Quick coupler control
- Cat BIO HYDO Advanced HEES™ biodegradable hydraulic oil
- Generator with valve and priority function
- Lowering control devices for boom and stick
- SmartBoom™

FRONT LINKAGE

- Booms
 - One-piece boom, 5350 mm
 - VA boom (two piece), 5260 mm
- Bucket linkage with diverter valve
- Sticks
 - 2200, 2500, 2800 mm
 - 3300 mm industrial with drop nose

ELECTRICAL

- Back-up alarm with three selectable modes
- Heavy-duty maintenance free batteries
- Refueling pump

OPERATOR STATION

- Adjustable hydraulic sensitivity
- CD/MP3 Radio (12V) at rear location including speakers and 12V converter
- Falling objects guard
- Joystick steering
- Seat, adjustable high-back
 - mechanical suspension
 - air suspension (vertical)
 - deluxe with headrest, air suspension
- Travel speed lock
- Vandalism guards
- Visor for rain protection
- Windshield
 - One-piece high impact resistant
 - 70/30 split, openable

UNDERCARRIAGE

- Dozer blade, front or rear mounted
- Outriggers, front and/or rear mounted
- Spacer rings for tires
- Wide axles

OTHER EQUIPMENT

- Auto-lube system (implements and swing gear)
- Cat Machine Security System
- Cat Product Link
- Mirrors heated, frame and cab
- Ride Control
- Tires (see pg. 3)
- Waste Handling Package

M318D Wheel Excavator

Materials and specifications are subject to change without notice.

Featured machines in photos may include additional equipment.

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.cat.com.

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