

Cat® 3116 DIT Engine	104.4 kW	140 hp
Operating Weight	19 500 kg	43,000 lbs
Maximum Travel Speed	20 km/h	12.4 mph
Maximum Reach (stick pin)	10.5 m	34'8"
Maximum Height (stick pin)	12.1 m	39'8"

Brief Spec Supplement to M318 Specalog

For further information regarding M318 Wheeled Excavator features, standard and optional equipment, please refer to the M318 specalog, order number AEHQ5128.

Engine

Caterpillar four-stroke-cycle, six cylinder 3116 DIT direct injection turbocharged diesel engine.

Ratings at 2000 rpm	kW	hp	
Gross power	104.4	140	
Net power			
Caterpillar	98	131	
ISO 9249	98	131	
DIN 70020	100	134	
EEC 80/1269	98	131	

Hydraulic System

Closed center, variable flow, loadsensing hydraulic system. Load-sensing axial-piston pump powers boom, stick, grapple, outriggers, and travel circuit.

Main Hydraulic System							
Maximum flow	,						
	260 l/min	67 gpm					
Maximum pres	sure						
Implements	33,000 kPa	4,785 psi					
Travel	33,000 kPa	4,785 psi					

Swing Mechanism

Dedicated variable displacement axial-piston pump and fixed-displacement axial-piston motor powers the swing mechanism.

Swing system		
Maximum f	low	
	112 l/min	30 gpm
Maximum		
pressure	31,500 kPa	4,570 psi
Swing torque	46.4 kNm	34,300 lb-ft
Max. swing sp	9.4 rpm	

Microprocessor

The microprocessor monitors machine conditions and controls the engine and hydraulic interface.

Steering

Fully hydraulic, powered by a separate gear pump mounted on the engine.

Steering angle	35 °
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Axles

Planetary axles with planetary gear reduction final drives located in the axle hubs.

Axle static load capacity 40 000 kg 88,200 lbs

Tires, Brakes

Dual pneumatic 11.00-20 16PR tires are standard. Maintenance free wet-disc brakes on front axle and drum brakes on rear axle are standard.

(w/ 11.00-20 tires)	360 mm	1'2"
Tires		
11.00-20, 16PR sta	ndard	
Optional tires		
10.00-20, 16PR		
10.00-20, 16PR 10.00-20 (solid rub	ber)	

Transmission

2-speed power-shift transmission and all wheel drive.

l/reverse	
5 km/h	3.1 mph
i	
20 km/h	12.4 mph
20 km/h	12.4 mph
2.8 km/h	1.7 mph
105 kN	23,625 lbs
	61%
	5 km/h 20 km/h 20 km/h 2.8 km/h

Service Refill Capacities

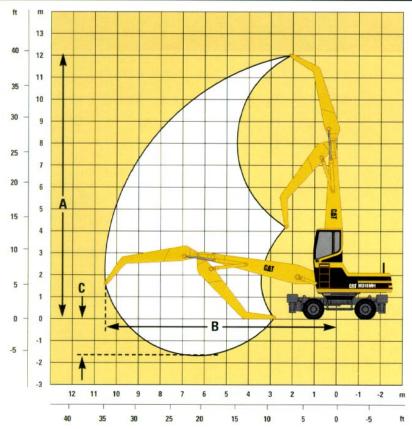
Fuel Tank	320L	85 gal
Cooling	35L	9 gal
Lubrication, engine	21L	5.5 gal
Rear axle housing, differential	12L	3.2 gal
Front steering axle, differential	11L	3 gal
Final drives, front (each)	2L	.50 gal
Final drives, rear (each)	1.5L	.40 gal
Power shift transmission	3L	.80 gal
Hydraulic system		
(including tank)	220L	58 gal
Hydraulic tank	135L	36 gal

Hydraulically-Driven Generator

Arrangements can be made by your dealer for the mounting of a hydraulically-driven generator to power magnets by an approved auxiliary equipment manufacturer. Contact your dealer for more information.

Working Ranges

Using straight boom 6200 mm (20'4") and material handling stick 4500 mm (14'9").

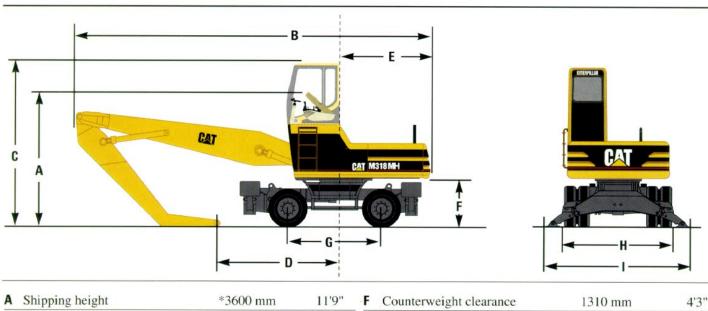


Α	Maximum reach above ground	12 090 mm	39'8"
В	Maximum horizontal		
	reach	10 500 mm	34'8"
C	Maximum reach below		
	ground	1575 mm	512"

ground 1575 mm 5'2'

Shipping Dimensions

All dimensions are approximate.



Shipping height	*3600 mm	11'9"		
Shipping length	8890 mm	29'1"		
Cab Height with 1.2m cab riser	**4350 mm	14'3"		
Support Point Distance	3000 mm	9'10"		
Tail Swing Radius	2450 mm	8'0"		
	Shipping length Cab Height with 1.2m cab riser Support Point Distance	Shipping length 8890 mm Cab Height with 1.2m cab riser **4350 mm Support Point Distance 3000 mm		

F	Counterweight clearance	1310 mm	4'3"		
G	Wheel Base	2750 mm	9'0"		
Н	Undercarriage width	2690 mm	8'9"		
T	Stabilizer width on ground	3900 mm	12'9"		

- * Cab removed, back rest tilted forward
- ** Fixed 1.2m (3'11") cab riser standard

Lift Capacities (Metric)

With straight boom 6.2 m (20'4") and material handling stick 4.5 m (14'9"), front and rear stabilizers, and standard tires. All weights are in metric tons.

		3.0) m	4.	4.5 m		0 m	7.	5 m	9.	0 m	6	-	
Height**	Undercarriage configuration	3		1	(Fe	100	(Fe	2	C Breit	1.1	1	17	1	m
7.50m	All stabilizers up All stabilizers down					5.4 6.3*	3.8 6.3*	3.8 5.1*	2.6 4.8			2.1*	1.9 2.1*	8.9
6.00m	All stabilizers up All stabilizers down			7.8* 7.8*	5.8 7.8*	5.3 6.5*	3.7 6.5*	3.7 5.5*	2.6 4.7	2.7 4.1*	1.9 3.5	2.1* 2.1*	1.6 2.1*	9.
4.50m	All stabilizers up All stabilizers down	10.4* 10.4*	10.4* 10.4*	8.2 8.6*	5.5 8.6*	5.1 6.8*	3.5 6.6	3.6 5.7*	2.5 4.6	2.7 4.8*	1.8 3.5	2.0* 2.0*	1.4 2.0*	10.
3.00m	All stabilizers up All stabilizers down			7.6 9.5*	5.0 9.5*	4.9 7.2*	3.3 6.3	3.5 5.8*	2.3 4.5	2.6 4.8*	1.8 3.4	2.0 2.1*	1.3 2.1*	10.
1.50m	All stabilizers up All stabilizers down			7.0 10.0*	4.4 9.4	4.6 7.4*	3.0 6.0	3.3 5.8*	2.2 4.3	2.5 4.7*	1.7 3.3			
0.00m	All stabilizers up All stabilizers down	3.7* 3.7*	3.7* 3.7*	6.6 9.6*	4.1 9.0	4.4 7.2*	2.8 5.8	3.2 5.6*	2.1 4.2	2.5 4.3*	1.6 3.2			
-1.50m	All stabilizers up All stabilizers down					4.2 6.3*	2.7 5.6							

Lift Capacities (English)

With straight boom 6.2 m (20'4") and material handling Stick 4.5 m (14'9"), front and rear stabilizers, and standard tires. All weights are in English tons.

Height**	Undercarriage configuration	10 ft		15 ft		20 ft		25 ft		30 ft		-		
		7.		27		Į.	CP-	14	3.46	4.	C See	1	1	m
25 ft	All stabilizers up All stabilizers down					5.8 6.9*	4.1 6.9*	4.0 5.3*	2.8 5.1			2.4* 2.4*	2.1 2.4*	29.
20 ft	All stabilizers up All stabilizers down			8.5* 8.5*	6.3 8.5*	5.7 7.0*	4.0 7.0*	4.0 6.0*	2.8 5.1	2.9 4.0*	2.0 3.7	2.3* 2.3*	1.8 2.3*	31.
15 ft	All stabilizers up All stabilizers down	11.2* 11.2*	11.2* 11.2*	8.8 9.3*	5.9 9.3*	5.5 7.4*	3.8 7.1	3.9 6.1*	2.7 5.0	2.9 5.2*	2.0 3.7	2.2*	1.6 2.2*	33.
10 ft	All stabilizers up All stabilizers down			8.2 10.3*	5.4 10.3*	5.2 7.8*	3.5 6.8	3.7 6.3*	2.5 4.8	2.8 5.2*	1.9 3.6	2.2 2.3*	1.5 2.3*	34.
5 ft	All stabilizers up All stabilizers down			7.5 10.9*	4.8 10.1	4.9 8.0*	3.2 6.4	3.6 6.3*	2.4 4.6	2.7 5.0*	1.8 3.5			
0 ft	All stabilizers up All stabilizers down	4.2* 4.2*	4.2* 4.2*	7.1 10.4*	4.4 9.7	4.7 7.7*	3.0 6.2	3.4 6.0*	2.2 4.5	2.7 4.6*	1.7 3.5			
-5 ft.	All stabilizers up All stabilizers down					4.6 6.8*	2.9 6.1							

^{*} Limited by hydraulic rather than tipping load.



The above loads are in compliance with hydraulic excavator lift capacity ratings standard ISO 10567, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity. Weight of all lifting accessories must be deducted from the above lift capacities

Materials and specifications are subject to change without notice.

Featured machines in photos may include optional equipment.

See your Caterpillar dealer for available options.

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^{**} Height of stick pin.