

Cat® 3116 DIT Engine	104.4 kW/140 hp
Operating Weight	19 500 kg
Maximum Travel Speed	20 km/h
Maximum Reach (stick pin)	10.5 m
Maximum Height (stick pin)	12.1 m

#### **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

Measured Emission Values*	g/kWh			
Hydrocarbons (HC)	0.38			
Carbon Monoxide (CO)	1.32			
Nitrous Oxide (NO <sub>x</sub> )	6.20			
* Values as per ISO 8178				

#### **Noise levels**

$L_{PA} = 71 \text{ dB}(A)$
$I_{m} = 99 dR(\Delta)$

Measured according to the static test procedures and conditions specified in ISO 6294 or 86/662/EEC.

# **Hydraulic System**

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

Main Hydraulic System	
Maximum flow	260 l/min
Maximum pressure	
Implements	330 bar
Travel	330 bar

# **Swing Mechanism**

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

Swing system	
Maximum flow	112 l/min
Maximum pressure	315 baı
Swing torque	46.4 kNm
Max. swing speed	9.4 rpm

# Maestro Mobile Electronic Control System

The microcontroller monitors and controls a whole set of engine and hydraulic parameters.

# **Steering**

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

Steering angle	35 °
Steering angle	33

#### **Axles**

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

Axle static load capacity 40 000 kg

### **Tires, Brakes**

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

Ground clearance to axle	
(with 11.00-20 tires)	360 mm
Tires	
11.00-20, 16PR standard	
Optional tires	
10.00-20, 16PR	
10.00-20 (solid rubber)	

#### **Transmission**

2-gear power-shift transmission. Permanent all wheel drive.

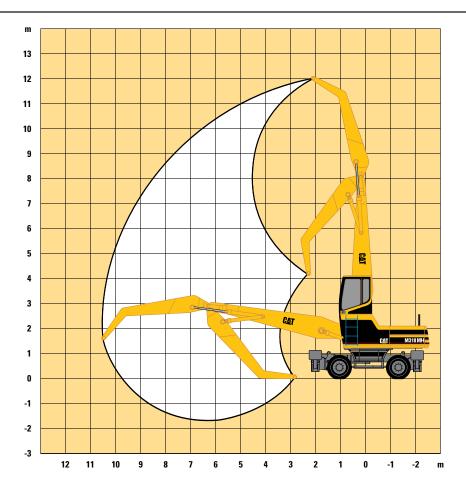
5 km/h
20 km/h
20 km/h
2.8 km/h
105 kN
61%

# **Service Refill Capacities**

	Liters
Fuel Tank	320
Cooling	35
Lubrication	
Engine	21
Rear axle housing, differential	12
Front steering axle, differential	11
Final drives, front (each)	2
Final drives, rear (each)	1.5
Powershift transmission	3
Hydraulic system (including tank)	220
Hydraulic tank	135

# **Working Ranges**

With Straight Boom 6200 mm and Material Handling Stick 4500 mm



# **Lift Capacities**

with Straight Boom 6.2 m and Material Handling Stick 4.5 m, front and rear stabilizers and standard tires. All weights are in metric tons

	Hadanamiana	3.0	) m	4.5 m		4.5 m		6.0 m		7.5 m		9.0 m				
Height**	Undercarriage configuration	Ē.		Į.	C.		æ			Į.	æ		G-	m		
7.50 m	All stabilizers up All stabilizers down					5.4 6.3*	3.8 6.3*	3.8 5.1*	2.6 4.8			2.1* 2.1*	1.9 2.1*	8.9		
6.00 m	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*	9.7		
4.50 m	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*	10.2		
3.00 m	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*	10.5		
1.50 m	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					
0.00 m	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					
-1.50 m	All stabilizers up All stabilizers down					4.2 6.3*	2.7 5.6									







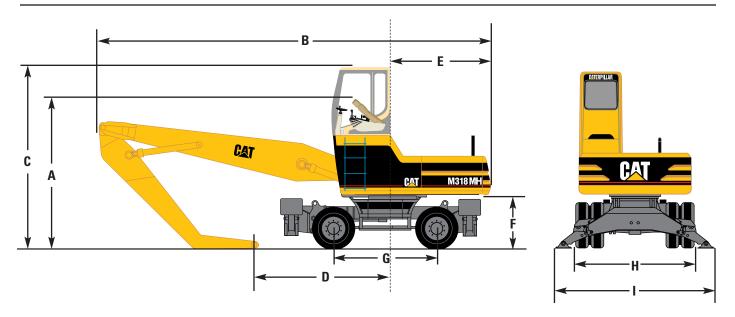
The above loads are in compliance with hydraulic excavator lift capacity ratings standard ISO 10567, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity. Weight of all lifting accessories must be deducted from the above lift capacities

<sup>\*</sup> Limited by hydraulic rather than tipping load

<sup>\*\*</sup> Height of stick pin

# **Shipping Dimensions**

All dimensions are approximate - measured in mm



Α	Shipping height	*3600 mm
В	Shipping length	8890 mm
C	Cab Height with 1.2 m cab riser	**4350 mm
D	Support Point Distance	3000 mm
E	Tail Swing Radius	2450 mm

F	Counterweight clearance	1310 mm
G	Wheel Base	2750 mm
Н	Undercarriage width	2690 mm
Ī	Stabilizer width on ground	3900 mm

<sup>\*</sup> Cab removed, back rest tilted forward

Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Caterpillar dealer for available options.

<sup>\*\*</sup> Fixed 1.2 m cab riser standard