

Cat® 3116 T Engine	98 kW/131 hp
Operating Weight	17 300 to 18 100 kg
Bucket Capacities	0.40 to 1.05 m ³
Maximum	
Reach at Ground Level	10 550 mm
Digging Depth	7440 mm
Travel Speed	34 km/h

The Cat M318 wheel excavator

Setting a high standard in mobility, versatility, operator comfort and ease of maintenance.

The 300 Family sleek styling on wheels

Both the cab and body have smooth, rounded contours with blended-in roading lights for a modern look. The cab interior combines modern styling with a soft and pleasing color scheme. The M318 offers everything an operator could expect today in a wheel excavator.

A step forward in environmental considerations

The Caterpillar 3116 T engine meets regulatory emissions requirements worldwide, including the European Union Non-Road Mobile Machinery Engine Emission Directive 97/68/EC. The engine has low spectator and operator sound levels and the hydraulic system can be operated with biodegradable oil as an option. These features make the M318 a friendly machine, which helps protect the environment. **pg. 8**



State-of-the-art hydraulic system

The load-sensing hydraulic system with load independent flow distribution offers exceptional operation control, modulation, and multi-function capability. Up to four additional hydraulic functions can be added for maximum application flexibility. **pg. 10**

Modern electronics

A microprocessor together with modern electronics register the operator's commands and manage the engine and pump interface to help maximize fuel efficiency. **pg. 6-7**

Ground level maintenance

All daily maintenance points are accessible from ground level. A centralized greasing port is located on the right foot of the boom. This allows the operator to grease the front linkage pins from ground level. **pg. 10**

A choice of the best boom and stick match

2 booms and 5 different sticks allow you to choose the best match for each job. Computer aided design and stress analysis of all front-end structures give the best combination of durability and weight control. **pg. 9**



The cab: a new reference

Pilot operated joysticks control frontend and swing functions. The tiltable steering column and the pedal controls offer optimal comfort. The control panel informs the operator of the machine status at all times. Large windows offer good visibility while roading and working in tight quarters. The fully adjustable seat offers lumbar support. Heater, defroster, and fan keep positive filtered air (warm, fresh, or cool if equipped with the air conditioner option) flowing through the cab at the flip of a switch. **pg. 4-5**

Cat '5 Star Customer Service'

Turns your investment into profit, from purchase to resale through:

- Equipment Management Services for optimum profit
- Maintenance Services for equipment protection
- Predictive Services for optimum availability
- Reconditioning Services for lower repair cost
- Your Caterpillar dealer for satisfaction and peace of mind pg. 23

Outstanding operator comfort

Plenty of room, all-around visibility, and ergonomic layout for convenient operation.

Easy access

Conveniently located grab irons and large steps mounted on the undercarriage allow easy access to the cab.

A quiet cab

The cab is resiliently mounted. Sound suppression panels considerably reduce outside noise levels.

A comfortable seat

The suspension seat adjusts to the operator's weight and offers excellent lumbar support. There are height-adjustable armrests and numerous seat adjustments.

Outstanding visibility

Wide windows help ensure excellent visibility in all directions. This is especially critical when roading the machine or when working on public roadways. A parallelogram windshield wiper clears the front window efficiently in rainy weather. Rear visibility is excellent thanks to the small engine cover. The standard skylight provides upward visibility.

Excellent ventilation

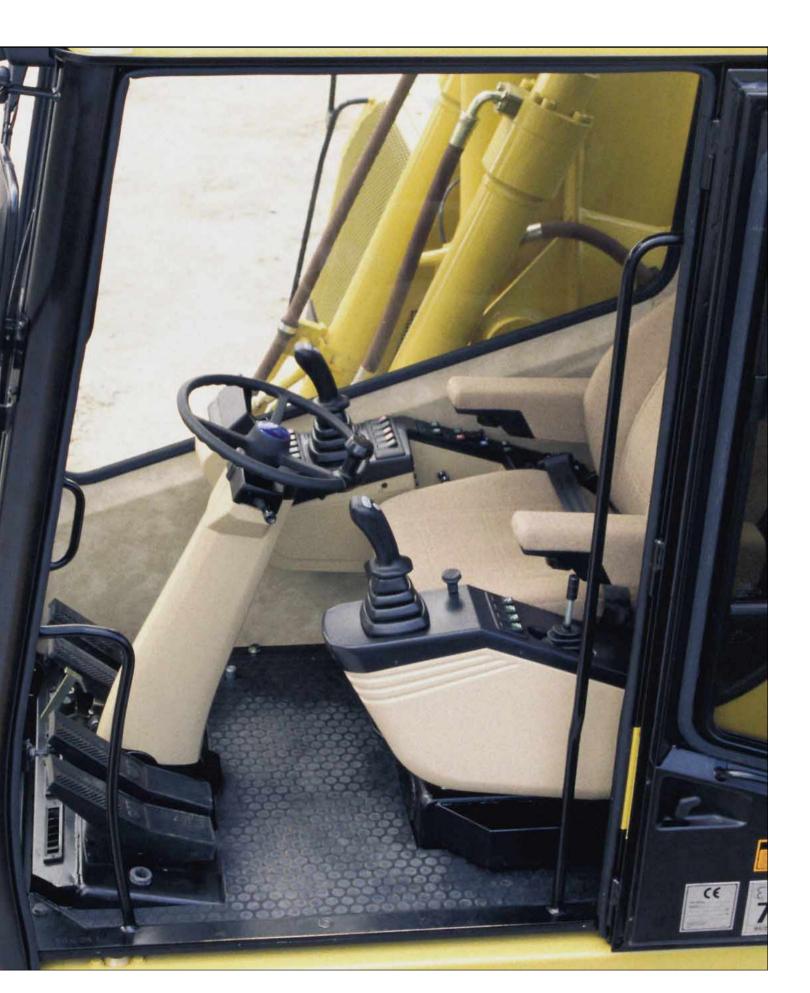
Strategically located vents circulate forced air, heat, or defrost air for maximum comfort. The two-piece front window has multiple positions. In rainy weather, the lower front window can be tilted inwards to provide fresh air and the skylight can be opened for additional ventilation. For work in hot weather conditions, an optional air conditioner is available.

Practical controls

- The control panel switches are conveniently located.
- Warning lights are clearly visible on the upper portion of the control panel.
- Joysticks require low effort and a short stroke for maximum control and efficiency.
- Ample space is reserved for the additional switches and pedals used to activate optional equipment.

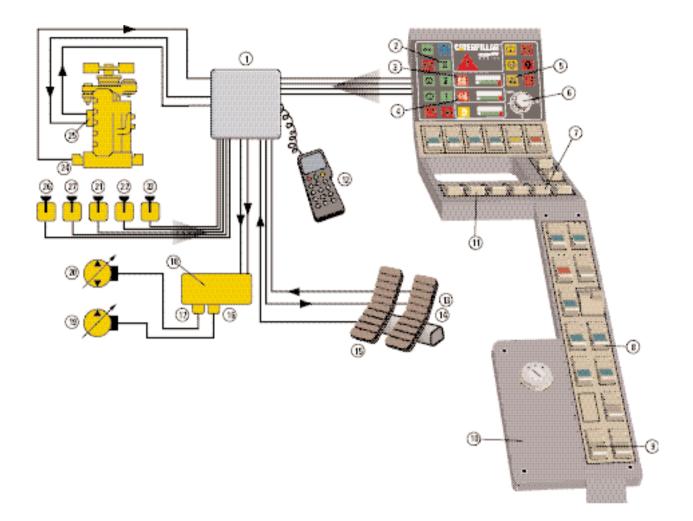






Maestro Mobile electronic system

An electronic system matching the state-of-the-art hydraulic system designed specifically for wheel excavator applications.



- 1 Microprocessor
- 2 Power mode III indicator
- **3** Hydraulic oil temperature high
- **4** Engine coolant temperature high
- **5** Hydraulic oil temperature low
- 6 Engine speed dial
- 7 Travel lock switch
- **8** Automatic engine control (AEC) switch
- 9 Back-up switch

- 10 RH console
- **11** Power mode switch (I/II)
- **12** Diagnostic tool or laptop-PC running *Cat Electronic Technician* (ET) software
- **13** Travel pedal switch
- 14 Travel pedal magnet
- **15** Brake light pressure switch
- 16 Main pump PRV
- 17 Swing pump PRV
- 18 Pilot manifold

- 19 Main pump
- 20 Swing pump
- **21** Brake light switch
- **22** Pressure switch AEC Main pump
- **23** Pressure switch AEC Swing pump
- **24** Engine speed pick-up
- **25** Governor actuator and feedback sensor
- **26** Pressure switch AEC stick cylinder
- **27** Pressure switch AEC boom cylinder

State-of-the-art hydraulic system

Closed center, variable flow, load-sensing plus. A variable displacement piston pump powers the boom, stick, bucket, outriggers/dozer, and travel circuit.

A gear pump powers the steering system, the brake system, and the pilot control system, and, if equipped, the medium pressure function.

A dedicated swing pump

A separate dedicated variable displacement piston pump and fixed displacement piston motor power the swing mechanism. This closed hydraulic circuit helps to provide maximum swing performance and control at all times.

An efficient and expandable hydraulic system

Up to four optional hydraulic valves can be added to the main valve stack for additional hydraulic functions. A medium pressure auxiliary hydraulic circuit is also available. These features offer almost unlimited auxiliary hydraulic capability.

Maestro Mobile Control Panel

The right side console, shown on page 6, contains switches for the power mode selector, automatic engine control, lights, windshield wiper and washer, and travel speed selector.

Integrated electronic system

A microprocessor monitors and controls all M318 parameters and functions. The microprocessor was designed specifically for a wheel excavator to maximize the efficiency of the engine and the hydraulic system. This Electronic Control System monitors and controls the following functions:

Engine Speed Control Via Potentiometer – The diesel final control element at the diesel engine is controlled via a potentiometer in the instrument panel. A button on the right joystick immediately sets the idle down manually.

Three power mode settings – There are three power mode settings. The operator can choose the best power setting for both engine and hydraulics, without any loss of hydraulic force.

Mode III – Works only during travel and is automatically engaged. It provides maximum speed and drawbar pull.

Mode II – The standard mode, used for normal truck loading, trenching, and hydraulic hammer use.

Mode l – The economy mode, used for lifting, pipe setting, bank forming, grading, slope finishing, and close quarter and precise work. This mode helps ensure minimum fuel consumption.

Automatic Engine Speed Control – When activated, this device reduces engine speed to a minimum during periods of inactivity. This reduces noise and saves fuel.

Electronic Underspeed Control – Constant electronic monitoring assures that the pump output is always matched to diesel engine power. As a result, a nearly constant diesel engine speed can be maintained.

Protective Measures – Maximum power is reduced when engine temperature is too high or the hydraulic temperature is either too low or too high.

Diagnostic System – System parameters and failure identification codes can be read by means of a diagnostic tool.

Top Speed Adjustment (optional) – This holds the travel pedal in the maximum position to reduce strain on the operator. The pedal is released by activating the brake.

Cat 3116 T engine

An emission controlled engine offering the latest environmental benefits.

- Conservative 98 kW rating, high power to displacement ratio of 15.2 kW/liter and low rpm operation help ensure long life and exceptional reliability.
- The 3116 T engine meets the European Union 97/68/EC Non-Road Mobile Machinery Engine Emission Directive and the current US EPA Non-Road Regulation.
- Four-stroke-cycle design uses long power strokes for more complete fuel combustion and efficiency. Accurate fuel metering results in low fuel consumption.
- Long-life design includes large bearing surfaces, alloy steel valves, lightweight cam roller followers, and easily replaceable crankshaft seals.

- The engine is designed for high torque rise at medium rpm. This is suited for excavator applications.
- The engine is longitudinally mounted on the right to make it easier to serve the oil filter, oil filler, oil drain valve, fuel filter, V-belt tightener, and dipstick which are all accessible from ground level.
- Low engine noise emissions make the M318 a real friendly machine which helps protect the environment: L_{pA} – 72 dB(A); L_{WA} – 101 dB(A)

Dynamically measured according to ISO6396 or 95/27/EC.



Undercarriage, outriggers, dozer blade, axles

Undercarriage and axles match: providing maximum flexibility and mobility.

Undercarriage – A strong and long-life welded frame structure built with large sections and thinner plates for excellent rigidity. The frame has been Finite Element Method analyzed. Both the dozer blade and the outriggers feature a pin-on design.

Axles – Heavy duty axles. The front axle offers one of the best axle oscillation and steering in the industry for optimized flexibility and mobility.

Outriggers – Recommended for maximum operation stability when digging and lifting. They can be controlled individually to level the machine on slopes. Pin-on design, including standard outriggers cylinder guards. Can be mounted on the front and/or on the rear.

Dozer Blade – A useful addition for leveling and backfilling or clean-up work, also used to improve machine stability when digging or lifting. Pin-on design, including standard dozer blade cylinders guard. This can be mounted on the front and/or on the rear.

Booms and sticks

Choose the boom/stick combination best matching your needs. Contact your Cat dealer for more information.

- 1 **One-piece Boom 5.3 meters** For all standard applications. It is built with large sections and thinner plates for maximum weight reduction and durability and has been Finite Element Method analyzed. Recommended for hammer applications.
- 2 Hydraulically Adjustable Boom (VA) max. 5.25 meters – For improved visibility and machine roading balance. Indicated when working in tight quarters. It is built with large sections and thinner plates for maximum weight reduction and durability and has been Finite Element Method analyzed.

Sticks – 5 stick lengths are available for maximum flexibility. They are built with large sections and thinner plates for maximum weight reduction and durability. They have been Finite Element Method analyzed.

- Short stick: 1.8 m
- Medium stick: 2.4 m
- Long stick: 2.8 m
- Extra long stick: 4.0 m
- Material handling stick: 3.2 m.

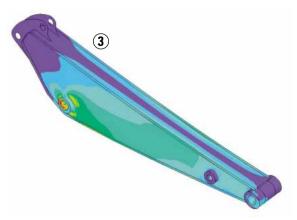
Industrial arrangement – For industrial or agricultural applications choose the best matching boom and the 3.2 m industrial droop nose stick. With this stick, a free swinging work tool can be used.

Bucket linkage – Two bucket linkages are offered. One with diverter valve, the other without.

3 Finite Element Analysis – With FEA, a most stable and reliable base frame and upper frame structure could be designed. For maximum strength and best range, also all linkage parts (boom, sticks) have been analyzed to help optimize the balance of weight reduction versus fatigue strength. This also includes the offset boom.

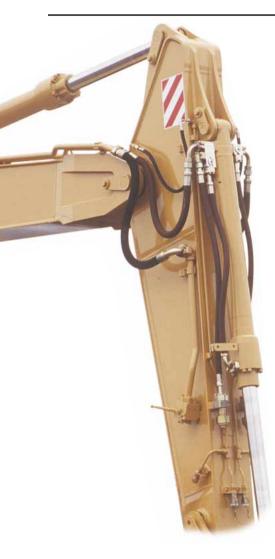






Hydraulics

The M318 hydraulic system provides more performance and efficiency to your jobs.



Efficient and expandable hydraulic

system – The flow distances between hydraulic components are minimized. This helps provide maximum hydraulic efficiency. The load independent flow distribution together with the separate swing pump helps ensure maximum power at all times.

- Load independent flow distribution and control system with pressure cutoff. The pump flow is independently and proportionally distributed to the flow users. This is a flow-on-demand hydraulic system offering multifunction capability.
- Optional hydraulic valves can be flanged to the main valve stack for maximum hydraulic flexibility.

Caterpillar XT hoses and couplings -

meet the critical flexibility and strength demands of wheel excavator applications. O-ring face seal couplings provide positive sealing for reliable and leakfree connections. Hammer Lines (optional) – Factory installed hammer hydraulic lines are available. These lines allow single acting function for dedicated proportional hammer foot control for maximum comfort and precision. Optimized hose routing provides excellent protection and durability.

High Pressure Hydraulic Lines

(optional) – Factory installed high pressure lines are available. They are designed to function with 2-way hydromechanical attachments such as shears and crushers at maximum working pressure and flow. Optimized hose routing provides excellent protection and durability.

Medium Pressure Hydraulic Lines

(optional) – Factory installed medium pressure lines are available. They are designed to function with double-acting rotating devices such as the ditch cleaning bucket tilt and the clamshell rotation. Optimized hose routing provides excellent protection and durability.

Serviceability

Simplified service and maintenance features save you time and money.

Fast, easy maintenance means improved uptime and better value.

Ground level service points for fuelwater separator, engine oil filter, battery, radiator fluid level, window washer fluid level, fuel filter, engine oil gauge, hydraulic oil level, air cleaner and pilot system filter.

Filters and filter locations

make maintenance easier.

- Air cleaner has double layered filter core and built-in air precleaner for better filtration. No tools required to change.
- Operator is alerted by warning light in cab to need for filter change.
- Engine oil filter, fuel filter and fuel-water separator are positioned for easier access.
- Pilot hydraulic system filter keeps contaminates away from the pilot system.

Water separator removes water from

fuel even when under pressure and is located in the engine compartment.

Remote greasing block on the upper frame with two grease points for the swing bearing and one for the front end attachment to deliver grease to hard to reach locations.

Buckets and work tools

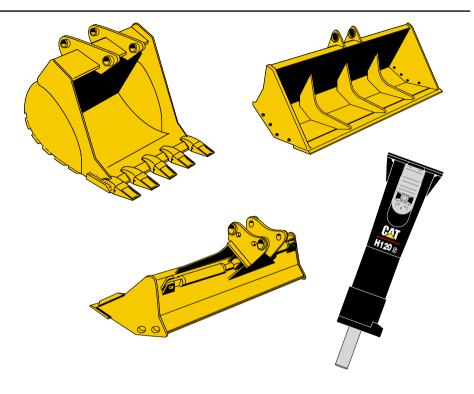
A wide variety of buckets and work tools help optimize machine performance. Purpose designed and built to Caterpillar's high durability standards.

Work Tools – A variety of work tools are available from your Cat dealer for the M318 wheel excavator. These include quick couplers, different kinds of grapples, and demolition and sorting tools such as shears, pulverizers, or hydraulic hammers.

Tip selection

The following tips are available for the buckets for the M318:

- Long Tips
- Short Tips
- Abrasive Tips
- Penetration Tips
- Sharp Corner Tips
- Wide Tips



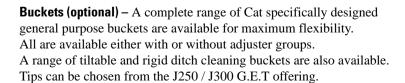
Bucket specifications

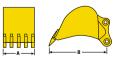
			General Purpo	se					
A	Bite width	mm	600	750	1000	1000	1100	1200	1250
В	Tip radius	mm	1419	1419	1340	1419	1340	1340	1419
	SAE rated capacity	m ³	0.40	0.55	0.70	0.80	0.80	0.90	1.05
	Weight with tips	kg	540	560	600	650	640	660	740
	Number of teeth		3	3	5	4	5	5	5
			Extreme Service		Ditch Cleanin	g			
A	Bite width	mm	1100			1800	1800	2000	2000
В	Tip radius	mm	1240			732	1082	732	1008
	SAE rated capacity	m ³	0.68			0.48	0.48	0.54	0.40
	Weight with tips	kg	472			385	364	416	365
	Number of teeth		6						
						Rigid	Tiltable	Rigid	Tiltable

All buckets include weld-on tooth adapters.

All buckets are available with or without adjuster group: All weights are with tips.

* J300 tips required, buckets without * require J250 tips.





Engine

Caterpillar four-stroke-cycle, six cylinder 3116 T turbocharged diesel engine.

Ratings at 2300 rpm	kW	hp
Gross power	104.5	140
Net power	98	131

The following ratings apply at 2300 rpm when tested under the conditions for the specified standard:

Net power	kW	hp	
ISO 9249	98	131	
EEC 80/1269	98	131	
Dimensions			
Bore	102	2 mm	
Stroke	130 mm		
Displacement	6.6 liters		
Maximum torque	60	8 Nm	
Torque rise	21% at 1500) rpm	

- An emission controlled engine. Meets the 97/68/EC Non-Road Mobile Machinery Engine Emission Directive and the current US EPA Non-Road Regulation.
- Longitudinal mounting on the right for easy ground access for service/ maintenance of: oil filter, oil filler, oil drain valve, fuel filter, V-belt tightener, dipstick.
- An electric 24-volt starting system with a 55 amp alternator and two, 12-volt, 100 amp hour Caterpillar Maintenance-Free batteries.
- An air cleaner, dry type with radial seal primary and secondary element. Easy and rapid to service and replace.
- Maximum altitude at full power: 2950 meters.

Environmental features

The M318 offers a list of features to help protect the environment.

- Low fuel consumption. Compared to power and performance, the M318 has a low level of fuel consumption.
- Biodegradable hydraulic oil. On the M318, you can use a biodegradable hydraulic oil to help protect the environment and meet governmental requirements in certain countries.
- The M318 features extremely low operator and spectator sound levels.
- The emission controlled engine complies with the 97/68/EC Non-Road-Machinery Engine Emission Directive.

Emission values

	0.
Hydrocarbons (HC)	below 1.3
Carbon Monoxide (CO)	below 5.0
Nitrogen Oxide (NO _x)	below 9.2

a/kWh

Noise levels

 $L_{pA} - 72 \text{ dB}(A); L_{WA} - 101 \text{ dB}(A)$

Dynamically measured according to ISO6396 or 95/27/EC.

Brakes

Maintenance free wet-disc service brakes on the front and rear axles are standard.

- A fully hydraulic service brake system. Braking system is supplied with hydraulic oil from a separate gear pump mounted on the engine.
- A dual-circuit braking system with independent front and rear axle service brake circuits, for increased safety.
- Two separate pre-charged hydraulic accumulators, one per circuit, for increased safety.
- A disc brake parking brake located in the transmission housing. Spring applied and hydraulically released.

Axles and final drives

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

- All-wheel drive.
- High quality graphite iron axle housings for maximum strength and durability.
- Front steering axle oscillates 9° for improved stability and manoeuvrability in rough terrain.
- Front axle can be locked from operator station in any position of oscillation for improved working stability.

Ground clearance	
(with standard tires)	375 mm
Axle static load capacity	30 000 kg

Hydraulic system

Main Hydraulic System	
Maximum flow	260 l/min
Maximum pressure	
Implements	330 bar
Travel	330 bar
Optional heavy lift circuit	370 bar
Pilot System	
Maximum flow	15 l/min
Maximum pressure	32 bar

Maestro Mobile electronic control system

The microcontroller monitors and controls the interference between the engine and the hydraulics.

- Automatically passes into power mode III to help maximize power when travel is activated.
- Balances pump output and engine power in power modes I and II to help maximize efficiency.
- Automatic engine control (AEC), provides automatic engine low idle for noise and fuel reduction and operator comfort.
- 3 power modes: travel mode, standard mode, economy mode.
- The electrical back-up system for the microprocessor is standard. The switch is in the cab.
- The central diagnostic function records system parameters or faults. It can be read by dealer technicians with portable diagnostic tools for fast analysis and troubleshooting.

Transmission

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

- Forward, reverse travel and speed are controlled by a single foot pedal on the right side of the steering column.
- The transmission is protected by a downshift governor to help prevent high-to-low shift until pre-set slower ground speed is reached.
- The overspeed valve limits downhill travel speed in forward and reverse gears.
- An optional two-piece drive shaft with an intermediate bearing to help maximize ground clearance is available.
- The transmission is flanged to the differential housing of the rear axle for maximum protection by axle and base frame, and for better ground clearance.
- Standard creeper speed.
- Optional travel speed lock for operator comfort. This locks the travel pedal for long distance travelling.

Speeds

Sheens	
1st gear,	
forward/reverse	9 km/h
2nd gear,	
forward	20/25/30/34 km/h
2nd gear,	
reverse	20 km/h
Creeper speed	
(first gear)	3-4 km/h
Creeper speed	
(second gear)	11-16 km/h
Drawbar pull	86 kN
Gradeability	57%

Steering

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

- Maintenance-free steering system.
- Synchronized steering cylinder integrated in the steering axle housing to help maximize protection.
- Steering angle of 35° for reduced turning circle and mobility.
- Optional battery-powered supplemental steering system.

Outer turning circle diameter	12.7 m
Vehicle clearance turning circle	
with one-piece boom	17.0 m
with VA boom	14.5 m

Tires

Dual pneumatic 10.00-20 tires are standard.

Optional tires:

- 10.00-20 (dual solid rubber),
- 18R 19.5 XF (super single).

Service refill capacities

	Liters
Fuel Tank	320
Cooling	35
Lubrication	
Engine	21
Rear axle housing, differential	11
Front steering axle, differential	8.5
Final drives, front (each)	2
Final drives, rear (each)	2
Powershift transmission	3
Hydraulic system	
(including tank)	220
Hydraulic tank	135

Controls

Two pilot-operated revolver type hand levers actuate boom, stick, bucket and swing (SAE pattern).

Right lever

- Move forwards and backwards to lower and raise boom,
- Move left and right to control bucket curl and dump,
- Press button on top of control to activate the optional auxiliary circuit in one direction.

Left lever

- Move forwards and backwards to move stick out and in,
- Move left and right to control the direction of swing,
- Press button on top of control to activate the optional auxiliary circuit in one direction.
- Press single button on top of control to activate the swing brake.

Pedals to the right of the steering column

- Service brake pedal is immediately to the right of the steering column. Fully depressed brake pedal automatically locks oscillating axle
- Forward and reverse rocker travel pedal is located to the right of the service brake pedal.

Pedals to the left of the steering column

- Optional VA boom rocker control pedal is immediately to the left of the steering column,
- Optional hammer or auxiliary hydraulic high pressure function control pedal is located to the left of the VA boom rocker control pedal.

Left side console lifts for operator entry and exit. Raising the side console isolates all hydraulic functions except steering. This console must be raised to start the engine.

Swing mechanism

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

- Closed hydraulic circuit, flow and torque controlled with pressure cutoff for maximum swing performance and control. Swing output is power mode influenced.
- Double-reduction, planetary swing drive.
- Splash lubricated.
- Maintenance free gear mechanism.
- Adjustable constant brake torque while coasting when the swing control is released.
- Maximum holding torque at operating pressure in a standstill position.
- Automatic swing brake is activated after 3.5 seconds of no swing operation. Additional emergency swing brake button on joystick.
- Standard manual swing lock pin actuated from the cab for machine transportation.

Swing system

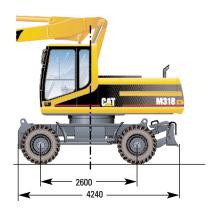
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Maximum flow	112 l/min
Maximum pressure	315 bar
Swing torque	46.4 kNm
Max. swing speed	9.4 rpm

## Weights

Average operating weights include general purpose bucket, 100% fuel and operator. An optional additional counterweight of 400 kg is available.

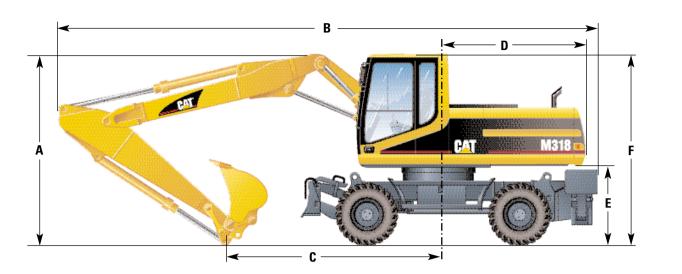
Stick	One-piece boom 1 set of outriggers/dozer kg	<b>VA boom</b> dozer only kg
1800 mm	17 800	17 300
2400 mm	17 840	17 350
2800 mm	17 900	17 400
4000 mm	18 100	17 600
For the following equipment char	nge the above weights:	
One-piece boom	_	-570
VA boom	+570	_
Dozer only	-1070	
1 set of outriggers only	-700	+370
2 sets of outriggers	+370	+440
1 set of outriggers/dozer	_	+1070

#### Undercarriage with dozer only



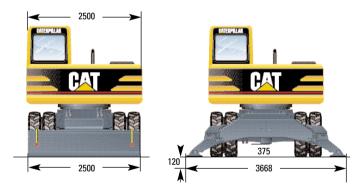
## Dimensions

All dimensions are approximate - measured in mm



		One-piece boom	VA boom
A	Shipping height		
	1800 mm stick	3200	3220
	2400 mm stick	Cab height	3210
	2800 mm stick	Cab height	3230
	4000 mm stick	*3210	*3370
B	Shipping length		
	1800 mm stick	9180	9080
	2400 mm stick	8970	8900
	2800 mm stick	**9350	8900
	4000 mm stick	**9370	*8800
C	Support Point		
	1800 mm stick	4430	4500
	2400 mm stick	3400	3540
	2800 mm stick	**2960	3150
	4000 mm stick	*2720	*2970

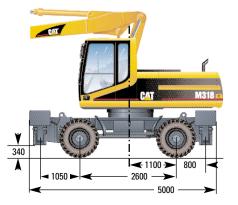
D	Tail swing radius	2450
Ε	Counterweight clearance	1280
F	Cab height	3100



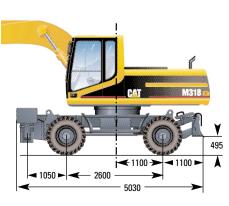
* Bucket removed

** Linkage over dozer

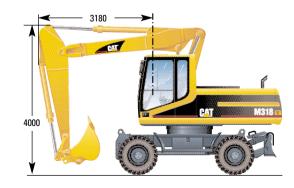
## Undercarriage with 2 sets of outriggers



## Undercarriage with 1 set of outriggers and dozer

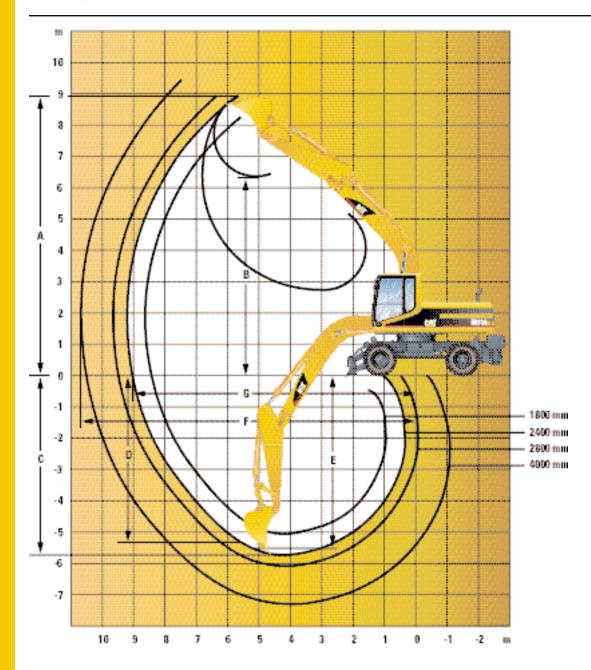


### Roading position with 2.4 m stick



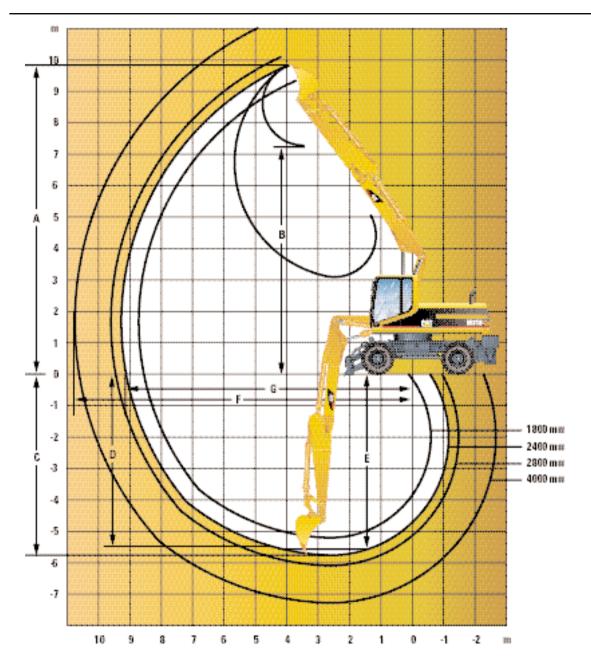
## Working ranges

With one-piece boom



Stick	1800 mm	2400 mm	<b>2800</b> mm	4000 mm
Bucket	0.90 m ³	0.80 m ³	0.70 m ³	0.55 m ³
A Maximum cutting height	8530 mm	8890 mm	8950 mm	9450 mm
B Maximum loading height	6080 mm	6330 mm	6420 mm	6730 mm
<b>C</b> Maximum digging depth	5090 mm	5690 mm	6090 mm	7370 mm
<b>D</b> Maximum vertical wall digging depth	2930 mm	4360 mm	4560 mm	5470 mm
<b>E</b> Maximum depth of cut, for 2500 mm level bottom	4820 mm	5470 mm	5890 mm	7220 mm
F Maximum reach	8690 mm	9230 mm	9560 mm	10 720 mm
<b>G</b> Maximum reach at ground level	8490 mm	9040 mm	9380 mm	10 550 mm
Digging forces (SAE):				
Stick	108 kN	83 kN	75 kN	57 kN
Bucket	122 kN	114 kN	114 kN	107 kN

# Working ranges With hydraulically adjustable (VA).



Stick		1800 mm	2400 mm	2800 mm	4000 mm
Bucket		0.90 m ³	0.80 m ³	0.70 m ³	0.55 m ³
A Maximum cut	ting height	9380 mm	9840 mm	10 020 mm	10 790 mm
<b>B</b> Maximum loa	ding height	6780 mm	7180 mm	7380 mm	7990 mm
<b>C</b> Maximum dig	ging depth	5200 mm	5790 mm	6180 mm	7440 mm
<b>D</b> Maximum ver	tical wall digging depth	3170 mm	4430 mm	4730 mm	5720 mm
E Maximum dep	oth of cut, for 2500 mm level bottom	5080 mm	5690 mm	6150 mm	7410 mm
<b>F</b> Maximum rea	ch	8630 mm	9190 mm	9530 mm	10 710 mm
<b>G</b> Maximum rea	ch at ground level	8430 mm	9000 mm	9350 mm	10 550 mm
Digging forces (S	AE):				
Stick		108 kN	83 kN	75 kN	57 kN
Bucket		122 kN	114 kN	114 kN	107 kN

# Lift capacities** with one-piece boom – 5.30 m

### Stick

1.8 m

Bucket 0.9 m³

	Undercarriage		3.0 m			4.5 m			6.0 m			7.5 m			4	A Contraction	
Ž_	configuration	Ø	R	F	ľ	R	F	ľ	R	<b>F</b>	Ø	R	F	ß	R	P	m
6.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down							4.4 *4.6 *4.6	*4.6 *4.6	2.5 2.8 3.5 *4.6 4.3							
4.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				*5.9 *5.9 *5.9	*5.9 *5.9	4.0 4.6 5.7 *5.9 *5.9	4.4 *4.9 *4.9	*4.9 *4.9	2.4 2.8 3.5 *4.9 4.3							
3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				6.8 *7.4 *7.4	*7.4 *7.4	3.7 4.2 5.3 *7.4 6.6	4.2 *5.5 *5.5	*5.5 *5.5	2.3 2.7 3.4 5.1 4.1	2.8 •4.7 •4.7	4.2 3.8	1.5 1.8 2.2 3.5 2.8	2.5 *3.3 *3.3	*3.3 *3.3	1.3 1.6 2.0 3.1 2.5	8.23
1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down							4.1 *6.1 *6.1	•6.1 5.4	2.2 2.5 3.2 4.9 4.0	2.8 •4.9 •4.9	4.2 3.7	1.4 1.7 2.2 3.4 2.8	2.3 *3.4 *3.4	*3.4 3.1	1.2 1.4 1.8 2.9 2.3	8.48
Ground	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				6.2 *8.9 *8.9	*8.9 8.7	3.2 3.8 4.8 7.6 6.0	4.0 *6.4 *6.4	6.1 5.3	2.1 2.4 3.1 4.8 3.9				2.3 *3.6 *3.6	3.5 3.1	1.2 1.4 1.8 2.9 2.3	8.40
-1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*7.4 *7.4 *7.4	*7.4 *7.4	6.1 7.3 *7.4 *7.4 *7.4	6.2 *8.5 *8.5	*8.5 *8.5	3.2 3.8 4.8 7.6 6.0	3.9 *6.1 *6.1	6.0 5.3	2.1 2.4 3.1 4.8 3.9				2.5 *4.0 *4.0	3.8 3.4	1.3 1.5 2.0 3.1 2.5	7.99
-3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*9.9 *9.9 *9.9	*9.9 *9.9	6.4 7.6 *9.9 *9.9 *9.9	6.4 *7.2 *7.2	*7.2 *7.2	3.3 3.9 5.0 *7.2 6.2										

## Stick

2.4 m

## Bucket

0.8 m³

	Undercarriage		3.0 m			4.5 m			6.0 m			7.5 m			4		
Ž	configuration	U		F	ľ	P	G.		Ą	G.		5	G.	ľ	P	P	m
6.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down							*4.1 *4.1 *4.1	*4.1 *4.1	2.6 3.0 3.7 *4.1 *4.1		-					
4.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down							*4.5 *4.5 *4.5	*4.5 *4.5	2.6 2.9 3.6 *4.5 4.4	3.0 *3.6 *3.6	*3.6 *3.6	1.6 1.9 2.4 3.6 2.9				
3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				*6.8 *6.8 *6.8	*6.8 *6.8	3.8 4.4 5.5 *6.8 *6.8	4.3 *5.2 *5.2	*5.2 *5.2	2.4 2.8 3.5 *5.2 4.2	2.9 *4.4 *4.4	4.4 3.9	1.6 1.8 2.3 3.6 2.9	*1.9 *1.9 *1.9	*1.9 *1.9	1.2 1.4 2.8 *1.9 *1.9	8.79
1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				6.5 *8.3 *8.3	*8.3 *8.3	3.5 4.0 5.1 7.9 6.3	4.1 *5.9 *5.9	*5.9 5.5	2.2 2.6 3.3 5.0 4.0	2.9 *4.7 *4.7	4.3 3.8	1.5 1.8 2.3 3.5 2.8	*2.0 *2.0 *2.0	*2.0 *2.0	1.1 1.3 1.7 *2.0 *2.0	9.02
Ground	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				6.3 *8.9 *8.9	*8.9 8.8	3.3 3.8 4.9 7.7 6.1	4.0 *6.3 *6.3	6.1 5.4	2.1 2.5 3.2 4.9 3.9	2.8 *4.9 *4.9	4.2 3.7	1.5 1.7 2.2 3.4 2.8	*2.1 *2.1 *2.1	*2.1 *2.1	1.1 1.3 1.7 *2.1 2.1	8.95
-1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				6.2 *8.8 *8.8	*8.8 8.7	3.2 3.8 4.8 7.6 6.0	3.9 *6.3 *6.3	6.0 5.3	2.1 2.4 3.1 4.8 3.9				2.3 *2.4 *2.4	*2.4 *2.4	1.2 1.4 1.8 *2.4 2.2	8.57
-3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*11.3 *11.3 *11.3	*11.3 *11.3	6.2 7.4 9.8 *11.3 *11.3	6.3 *7.9 *7.9	*7.9 *7.9	3.3 3.8 4.9 7.7 6.1	4.0 *5.5 *5.5	*5.5 5.4	2.1 2.5 3.2 4.9 3.9				2.7 *2.8 *2.8	*2.8 *2.8	1.4 1.6 2.1 *2.8 2.6	7.82
-4.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				*5.3 *5.3 *5.3	*5.3 *5.3	3.5 4.1 5.2 *5.3 *5.3										

32	Undercarriage	⊢
	configuration	
4.5 m	Rear dozer up	
	Rear dozer down	
	Rear stab down	
	2 sets stab down	
	Dozer and stab down	
3.0 m	Rear dozer up	
	Rear dozer down	
	Rear stab down	
	2 sets stab down	
	Dozer and stab down	
1.5 m	Rear dozer up	
	Rear dozer down	
	Rear stab down	
	2 sets stab down	
	Dozer and stab down	
	Rear dozer up	
pu	Rear dozer down	
Ground	Rear stab down	
9	2 sets stab down	
	Dozer and stab down	
-1.5 m	Rear dozer up	
	Rear dozer down	
	Rear stab down	
	2 sets stab down	
	Dozer and stab down	
-3.0 m	Rear dozer up	
	Rear dozer down	
	Rear stab down	
	2 sets stab down	
	Dozer and stab down	
-4.5 m	Rear dozer up	
	Rear dozer down	
	Rear stab down	
	2 sets stab down	
	Dozer and stab down	

Ž.	Undercarriage configuration
6.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down
4.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down
3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down
1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down
Ground	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down
-1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down
-3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down
-4.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down

#### All weights are in metric tons

	3.0 m			4.5 m			6.0 m			7.5 m				A Contraction	]
Ľ	R	ß		7	ß	ľ	R	C P	Ľ		F	Ľ	R	c 🗣	m
						*4.2		2.6	3.0		1.7				
							*4.2	3.0		*3.8	1.9				
							*4.2	3.7		*3.8	2.4				
						*4.2 *4.2		*4.2 *4.2	*3.8 *3.8		3.7 3.0				
*10.3		7.3	*6.3		3.9	4.4		2.5	3.0		1.6	*1.7		1.1	9.14
	*10.3	8.5		*6.3	4.5		*4.9	2.8		*4.2	1.9		*1.7	1.3	
	*10.3	*10.3		*6.3	5.6		*4.9	3.5		3.9	2.4		*1.7	*1.7	
*10.3		*10.3	*6.3		*6.3	*4.9		*4.9	*4.2		3.6	*1.7		*1.7	
*10.3		*10.3	*6.3		*6.3	*4.9		4.3	*4.2		2.9	*1.7		*1.7	
			6.6		3.5	4.2		2.3	2.9		1.5	*1.7		1.0	9.36
				*7.9	4.1		*5.7	2.6		4.3	1.8		*1.7	1.2	
				*7.9	5.2		5.6	3.3		3.8	2.3		*1.7	1.6	
			*7.9		*7.9	*5.7		5.0	*4.7		3.5	*1.7		*1.7	
			*7.9		6.4	*5.7		4.1	*4.7		2.8	*1.7		*1.7	
*4.3		*4.3	6.3		3.3	4.0		2.1	2.8		1.5	*1.9		1.0	9.29
	*4.3	*4.3		*8.8	3.9		6.1	2.5		4.2	1.7		*1.9	1.2	
*40	*4.3	*4.3	*0 0	*8.8	4.9	*0.0	5.4	3.2	*10	3.7	2.2	¥1.0	*1.9	1.6	
*4.3 *4.3		*4.3 *4.3	*8.8 *8.8		7.7 6.1	*6.3 *6.3		4.9 3.9	*4.9 *4.9		3.4 2.8	*1.9 *1.9		*1.9 *1.9	
														-	
*7.6	*7.6	6.0	6.2	*8.9	3.2 3.8	3.9	6.0	2.1	2.8	4.2	1.4	*2.1	*2.1	1.1	8.92
	*7.6	7.2 *7.6		~8.9 8.7	3.8 4.8		5.3	2.4 3.1		4.Z 3.7	1.7 2.2		*2.1	1.3 1.7	
*7.6	7.0	*7.6	*8.9	0.7	7.6	*6.4	5.5	4.8	*4.8	3.7	3.4	*2.1	2.1	*2.1	
*7.6		*7.6	*8.9		6.0	*6.4		3.9	*4.8		2.7	*2.1		*2.1	
*12.1		6.2	6.3		3.2	4.0		2.1				2.5		1.3	8.21
	*12.1	7.4	0.0	*8.2	3.8		*5.9	2.5					*2.5	1.5	5.21
	*12.1	9.7		*8.2	4.9		5.3	3.1					*2.5	1.9	
*12.1		*12.1	*8.2		7.7	*5.9		4.8				*2.5		*2.5	
*12.1		*12.1	*8.2		6.1	*5.9		3.9				*2.5		2.4	
*9.2		6.5	*6.3		3.4										
	*9.2	7.7		*6.3	4.0										
	*9.2	*9.2		*6.3	5.1										
*9.2		*9.2	*6.3		*6.3										
*9.2		*9.2	*6.3		6.3										

	3.0 m			4.5 m			6.0 m			7.5 m			9.0 m			\$		
P	R	F	Q1	Ð		۶.			Q,			Q,	Ð	<b>F</b>				m
			)	8-		)	8-		*2.5 *2.5 *2.5 *2.5	*2.5 *2.5	1.8 2.1 *2.5 *2.5 *2.5	)	<u> </u>					
									*3.0 *3.0 *3.0	*3.0 *3.0	1.8 2.0 2.5 *3.0 *3.0	*1.7 *1.7 *1.7	*1.7 *1.7	1.1 1.3 *1.7 *1.7 *1.7				
						*3.9 *3.9 *3.9	*3.9 *3.9	2.6 2.9 3.6 *3.9 *3.9	3.0 *3.5 *3.5	*3.5 *3.5	1.7 1.9 2.4 *3.5 3.0	2.1 *2.4 *2.4	*2.4 *2.4	1.1 1.3 1.7 *2.4 2.1	*1.0 *1.0 *1.0	*1.0 *1.0	0.8 *1.0 *1.0 *1.0 *1.0	10.39
*10.9 *10.9 *10.9	*10.9 *10.9	6.9 8.2 10.6 *10.9 *10.9	*6.5 *6.5 *6.5	*6.5 *6.5	3.7 4.3 5.4 *6.5 *6.5	4.3 *4.9 *4.9	*4.9 *4.9	2.3 2.7 3.4 *4.9 4.2	2.9 *4.0 *4.0	*4.0 3.0	1.5 1.8 2.3 3.5 2.9	2.1 *2.8 *2.8	*2.8 *2.8	1.0 1.2 1.6 2.6 2.1	*1.0 *1.0 *1.0	*1.0 *1.0	0.8 0.9 *1.0 *1.0 *1.0	10.57
*5.9 *5.9 *5.9	*5.9 *5.9	*5.9 *5.9 *5.9 *5.9 *5.9	6.4 *8.0 *8.0	*8.0 *8.0	3.4 3.9 5.0 7.9 6.2	4.0 *5.7 *5.7	*5.7 5.4	2.1 2.5 3.2 4.9 4.0	2.8 *4.5 *4.5	4.2 3.7	1.4 1.7 2.2 3.4 2.7	2.0 *2.8 *2.8	*2.8 2.7	1.0 1.2 1.6 2.5 2.0	*1.1 *1.1 *1.1	*1.1 *1.1	0.7 0.9 *1.1 *1.1 *1.1	10.50
*6.9 *6.9 *6.9	*6.9 *6.9	5.9 *6.9 *6.9 *6.9 *6.9	6.2 *8.7 *8.7	*8.7 8.7	3.2 3.8 4.8 7.6 6.0	3.9 *6.2 *6.2	6.0 5.3	2.0 2.4 3.1 4.7 3.8	2.7 *4.8 *4.8	4.1 3.6	1.4 1.6 2.1 3.3 2.7				*1.3 *1.3 *1.3	*1.3 *1.3	0.8 0.9 1.3 *1.3 *1.3	10.16
*9.5 *9.5 *9.5	*9.5 *9.5	5.9 7.1 9.4 *9.5 *9.5	6.1 *8.7 *8.7	*8.7 8.6	3.1 3.7 4.7 7.5 5.9	3.8 *6.2 *6.2	5.9 5.2	2.0 2.3 3.0 4.7 3.8	2.7 *4.7 *4.7	4.1 3.6	1.3 1.6 2.1 3.3 2.6				*1.6 *1.6 *1.6	*1.6 *1.6	0.9 1.1 1.4 *1.6 *1.6	9.53
*11.9 *11.9 *11.9	*11.9 *11.9	6.1 7.2 9.6 *11.9 *11.9	6.2 *7.9 *7.9	*7.9 *7.9	3.1 3.7 4.8 7.6 6.0	3.9 *5.6 *5.6	*5.6 5.3	2.0 2.4 3.0 4.7 3.8										

Sti	ck
2.8	m

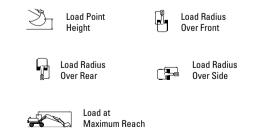
**Bucket** 0.7 m³

** all lift capacities are with optional 400 kg additional counterweight and optional heavy lift hydraulic circuit.

Stick 4.0 m

Bucket

0.55 m³



* 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 lifting capacities.

**Lift capacities**** with hydraulically adjustable boom – 5.25 m

## Stick

1.8 m

Bucket 0.9 m³

Stick 2.4 m

Bucket 0.8 m³

Ž₁	Undercarriage	ГŴ	3.0 m	_ · · · ·	۲ <b>۹</b>	4.5 m			6.0 m	i=	RL الآر	7.5 m				កា		1
<u> </u>	configuration	Ľ	ľ	P	Ū	P	P	Ū	P	P		P	C,	<u>ط</u> او	<u>"</u>	10	P	m
6.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down				*4.4 *4.4	*4.4 *4.4	4.3 *4.4 *4.4 *4.4	*4.4 *4.4	*4.4 *4.4	2.5 2.9 3.6 *4.4								
	Dozer and stab down				*4.4		*4.4	*4.4		4.4								
4.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				*5.4 *5.4 *5.4	*5.4 *5.4	4.2 *4.7 *5.4 *5.4 *5.4	4.4 *4.6 *4.6	*4.6 *4.6	2.6 2.9 3.6 *4.6 4.3								
3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				6.9 *7.0 *7.0	*7.0 *7.0	4.1 4.6 5.6 *7.0 6.7	4.4 *5.2 *5.2	*5.2 *5.2	2.6 3.0 3.6 5.2 4.3				*		*3.1 *3.1	1.3 1.6 2.0 *3.1 2.5	8.17
1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*6.6 *6.6 *6.6	*6.6 *6.6	*6.6 *6.6 *6.6 *6.6 *6.6	6.8 *7.9 *7.9	*7.9 *7.9	*4.0 4.6 5.5 *7.9 6.6	4.4 *5.9 *5.9	*5.9 5.6	2.5 2.9 3.6 5.1 4.4	2.8 *4.8 *4.8	4.3 3.8	1 2 3	.7 .2 .4 *		*3.2 *3.2	1.2 1.4 1.9 2.9 2.3	8.42
Ground	Rear dozer up Rear dozer down Rear stab down 2 sets stab down	*12.2	*12.2 *12.2	7.3 8.6 10.8 *12.2	6.9 *8.8	*8.8 *8.8	3.9 4.6 6.7 8.1	4.3 *6.3	6.2 5.7	2.3 2.7 3.4 5.2			2	*	2.4 3.3	*3.3 3.2	1.2 1.4 1.9 2.9	8.34
	Dozer and stab down	*12.2		*12.2	*8.8		6.7	*6.3		4.2				_	3.3		2.3	
-1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*14.2 *14.6 *14.6	*14.6 *14.6	7.1 8.4 10.9 *14.6 13.6	7.0 *9.0 *9.0	*9.0 *9.0	3.8 4.4 5.5 8.5 6.8	4.1 *6.4 *6.4	6.3 5.5	2.2 2.5 3.2 5.0 4.0				*	2.6 3.7 3.7	*3.7 3.5	1.3 1.5 2.0 3.2 2.5	7.92
-3.0 m	Rear dozer up	14.7		7.1	6.7		3.5	-							3.1		1.6	7.08
	Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*15.2 *15.2	*15.2 *15.2	8.4 10.9 *15.2 13.9	*8.8 *8.8	*8.8 *8.8	4.1 5.2 8.1 6.5									*3.6 *3.6	1.9 2.5 *3.6 3.1	
																	-	
Э _л	Undercarriage		3.0 m			4.5 m			6.0			7.5			-8			20
	configuration	ŀ	ŋ	F	Ŀ	ŋ	C <b>F</b>	a  [ľ		) C	al	) <b>j</b>	1	9	Ľ	P		⊒ m
6.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down							*3 *3 *3	*3 *3 .8	.8 3								
4.5 m	Rear dozer up Rear dozer down Rear stab down				*4.7 *4.7 *4.7	*4.7 *4.7	4. *4. *4. *4.	3 *4 7 7 7 *4	.2 *4 *4	.2 3 .2 3 *4	.7 3 .1 .7	.3	3.3 3.3	1.6 1.9 2.4 *3.3				
	2 sets stab down Dozer and stab down				4./		*4.	/ 4	.2	^4	.2   *3	.3		3.0				1
3.0 m		*6.5 *6.5 *6.5	*6.5 *6.5	*6.5 *6.5 *6.5 *6.5 *6.5	*6.3 *6.3 *6.3	*6.3 *6.3	*4. 4. *5. *6. *6.	2 4 7 7 3 *4	.4 *4 *4	.9 3 .9 3 .9 3 *4	.7 3 .0 .7	.0 */ .3	I.3 I.0	3.0 1.6 1.9 2.4 3.6 3.0	*1.7 *1.7 *1.7	*1. *1.	.7   1.	.7 .7
3.0 m 1.5 m	Dozer and stab down Rear dozer up Rear dozer down Rear stab down 2 sets stab down	*6.5		*6.5 *6.5 *6.5	*6.3		4. 4. *5. *6.	2 4. 7 7 3 *4. 3 *4. 0 4. 5 6 9 *5.	.4 *4 .9 .9 .4 *5 .6	.9 3 .9 3 *4 4 .6 3 .6 3 5	.7 3 .0 .7 .9 *4 .3 *4	.0 */ .3 .3 .9		1.6 1.9 2.4 3.6	*1.7	*1. *1. *1. *1. *1. *1.	7 1. 7 *1. *1. *1. 1. 8 1.	.4 .7 .7 .7 .1 .3 .7 .8
	Dozer and stab down Rear dozer up Rear dozer down 2 sets stab down Dozer and stab down Rear dozer up Rear dozer down Rear stab down 2 sets stab down	*6.5 *6.5 *9.1 *9.1 *9.1 *11.7 *11.7	*6.5	*6.5 *6.5 *6.5 7.4 8.4 *9.1 *9.1 *9.1 *9.1 7.5 8.5 *10.7 *11.7	*6.3 *6.3 6.8 *7.9 *7.9 6.8 *8.7 *8.7	*6.3	4. 4. *5. *6. *6. 4. 4. 5. *7. 6. 4. 4. 5. *8. *8. *6.	2 4. 7 7 3 *4. 3 *4 0 4 5 6 9 *5 6 *5 1 4 7 6 0 *6 7 *6	.4 *4 .9 9 .9 *5 .6 6 .6 5 .5 *6 .2 2	.9 .9 .9 .4 4 4 .6 3 .6 3 5 5 4 4 .2 2 2 .2 2 2 .2 4 5 5 4	.7 3 .0 .7 .9 *4 .3 *4 .7 2 .0 .6 .1 *4 .3 *4 .3 *4 .3 *4 .3 *4 .3 *4 .3 *4 .9	.0 *4 .3 .3 .9 .6 .6 .6 .6 .8	l.0	1.6 1.9 2.4 3.6 3.0 1.6 1.8 2.3 3.6	*1.7 *1.7 *1.8 *1.8 *1.8 *1.9 *1.9 *1.9	*1. *1. *1. *1. *1. *1. *1.	7 1. 7 *1. *1. *1. *1. *1. *1. *1. *1. 9 1. 9 1. *1. *1. *1.	.4 .7 .7 .7 .7 .1 .1 .8 .8 .8 .8 .8 .8 .8 .9 .3 .7 .9 .9 .9
1.5 m	Dozer and stab down Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down Rear dozer up Rear dozer up Rear dozer up Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down Rear stab down Dozer and stab down Rear dozer up Rear dozer up Rear dozer up Rear dozer up Rear dozer down Rear stab down 2 sets stab down	*6.5 *6.5 *9.1 *9.1 *11.7 *11.7 *11.7 *13.9 *14.2 *14.2	*6.5 *9.1 *9.1 *11.7	*6.5 *6.5 *6.5 *6.5 *7.4 *9.1 *9.1 *9.1 *9.1 *9.1 *9.1 *9.1 *9.1	*6.3 *6.3 *6.3 6.8 *7.9 *7.9 6.8 *8.7 *8.7 7.1 *8.9 *8.9	*6.3 *7.9 *7.9 *8.7	4.4 *5. *6. *6. *6. *7. 6. *7. 6. *8. *8. *8. *8. *8. *8. *6. *6. *6. *6. *6. *6. *6. *6	2     4       7     3       3     *4       0     4       5     6       9     *55       1     4       7     *66       9     *6       9     4       60     *66       7     *66       9     4       5     6       6     *6	4 *4   99 *4   4 *5   5 *6   5 *6   5 *6   5 *6   5 *6   5 *6   4 *2	9.9 3.3 *4 4 4 4 .6 3.5 5 4 4 .2 .2 .2 .2 .3 .3 .5 .4 .4 .4 .4 .4 .4 .4 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5	7     3       9     *4       3     *4       7     2       0.0        6.1     *44       7.5     2       9.9        6.6        7.7     2       0.0        5.5     2       9.9        6.6        3.1        1.1	.0 *4 .3 .3 .9 .6 .6 .6 .6 .8	I.O I.4 3.9	1.6 1.9 2.4 3.6 3.0 1.6 1.8 2.3 3.6 2.9 1.5 1.7 2.2 3.5	*1.7 *1.8 *1.8 *1.8 *1.9 *1.9 *1.9 *2.1 *2.1 *2.1	*1. *1. *1. *1. *1. *1. *1. *1. *1. *1.	7 1 7 *1 *1 *1 8 1 8 1 8 1 9 1 9 1 9 1 1 1 1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *2 *2 *2 *2 *2 *2 *2 *2 *2 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3.	4 7 7 7 1 8 8 8 8 8 1 8 8 9 9 9 9 9 9 9 9 9 9 9
1.5 m	Dozer and stab down Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down Rear dozer up Rear dozer up Rear dozer up Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down Rear stab down Dozer and stab down Rear dozer up Rear dozer up Rear dozer up Rear dozer up Rear dozer down Rear stab down 2 sets stab down 2 sets stab down 2 sets stab down	*6.5 *6.5 *9.1 *9.1 *11.7 *11.7 *11.7 *13.9 *14.2	*6.5 *9.1 *9.1 *11.7 *11.7 *14.2 *14.2 *14.2 *14.9 *14.9	*6.5 *6.5 *6.5 7.4 *9.1 *9.1 7.5 8.5 *10.7 *11.7 7.2 8.4 10.9 *14.2 *13.4 7.1 8.4	*6.3 *6.3 *6.3 6.8 *7.9 *7.9 6.8 *8.7 *8.7 7.1 *8.9	*6.3 *7.9 *7.9 *8.7 *8.7 *8.7	4, 4, 4, *55, *66, *66, *66, *66, *66, *66, *66	2   4     7   7     3   *4     0   4     5   6     9   *5     1   4     7   7     6   *6     0   *6     6   4     2   *5     6   4     2   *5	4 *4   99 9   4 *5   5 5   6 6   5 *6   5 *6   5 *6   5 *6   5 *6   5 *6   1 *5   9 5	.9 .9 .9 .9 .8 .6 .6 .3 .5 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2	7     3       9     *4       3     *4       7     2       6	.0 *4 .3 .3 .9 .6 .6 .6 .6 .8	I.O I.4 3.9	1.6 1.9 2.4 3.6 3.0 1.6 1.8 2.3 3.6 2.9 1.5 1.7 2.2 3.5	*1.7 *1.8 *1.8 *1.9 *1.9 *1.9 *2.1 *2.1	*1. *1. *1. *1. *1. *1. *1. *1. *1. *1.	7 1. 7 *1. *1. *1. *1. *1. *1. *1. *1.	4 7 7 7 7 8 8 8 8 1 8 8 9 9 9 9 9 9 9 9 9 9 9 1 8 8 9 9 9 9

	Understand	
Ž	Undercarriage configuration	
6.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	
4.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	
3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	
1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	
Ground	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	
-1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	
-3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	
-4.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	

35	Undercarriage	
	configuration	
4.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	
3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	
1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	
Ground	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	
-1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	
-3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	
-4.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	

All weights are	in	metric	tons
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	3.0 m			4.5 m		6.0 m				7.5 m						
L.M.			<b>FQ</b>			+		<b>FN</b>			<b>FQ</b>	-		1		
Į.	R	P	ľ	7	F	Ø	7	P	U		P	ł	b	F	m	
						*3.4		2.8								
							*3.4	3.1								
						*3.4	*3.4	*3.4 *3.4								
						*3.4		*3.4								
			*4.2		*4.2	*3.9		2.7	3.1		1.7					
			4.2	*4.2	*4.2	0.0	*3.9	3.1	5.1	*3.7	2.0					
				*4.2	*4.2		*3.9	3.8		*3.7	2.5					
			*4.2		*4.2	*3.9		*3.9	*3.7		3.7					
			*4.2		*4.2	*3.9		*3.9	*3.7		3.1					
*7.9		7.7	*5.8		4.2	4.5		*2.7	3.1		1.7	*1.5		1.1	9.10	
	*7.9	*7.9		*5.8	4.7		*4.6	3.1		*4.1	2.0		*1.5	1.4		
*7.9	*7.9	*7.9 *7.9	*5.8	*5.8	5.7 *5.8	*4.6	*4.6	3.7 *4.6	*4.1	4.0	2.5 *3.7	*1.5	*1.5	*1.5 *1.5		
*7.9		*7.9	5.0 *5.8		5.0 *5.8	4.0 *4.6		4.0	*4.1		3.0	*1.5		*1.5		
*9.1		4.7	6.8		4.0	4.4		*2.7	3.0		1.6	*1.5		1.0	9.32	
J.1	*9.1	8.5	0.0	*7.5	*4.6	4.4	*5.4	3.0	5.0	*4.1	1.0	1.5	*1.5	1.0	J.JZ	
	*9.1	*9.1		*7.5	5.6		*5.4	3.6		4.0	2.4		*1.5	*1.5		
*9.1		*9.1	*7.5		*7.5	*5.4		*5.1	*4.1		3.6	*1.5		*1.5		
*9.1		*9.1	*7.5		6.6	*5.4		4.3	*4.1		3.0	*1.5		*1.5		
*11.7		7.4	6.8		*4.1	4.5		2.6	2.9		1.5	*1.6		1.0	9.25	
	*11.7	8.4		*8.5	4.6		*6.1	3.0		4.4	1.8		*1.6	1.2		
*11.7	*11.7	10.7 *11.7	*8.5	*8.5	*5.5 *8.0	*6.1	5.6	3.7 5.2	*4.8	3.9	2.3 3.6	*1.6	*1.6	1.6 *1.6		
*11.7		*11.7	8.5*		6.0 6.7	*6.1		5.Z 4.4	4.0 *4.8		2.9	*1.6		*1.6		
*13.8		7.2	7.0		3.9	4.3		2.4	2.8		1.4	*1.8		1.1	8.89	
10.0	*13.8	8.5	7.0	*8.9	3.5 4.5	ч.5	6.2	2.4	2.0	4.2	1.4	1.0	*1.8	1.1	0.09	
	*13.8	11.0		*8.9	5.6		5.7	3.5		3.8	2.2		*1.8	1.7		
*13.8		*13.8	*8.9		8.1	*6.3		5.2	*4.8		3.4	*1.8		*1.8		
*13.8		13.3	*8.9		6.8	*6.3		4.2	*4.8		2.8	*1.8		*1.8		
*14.5		7.1	6.9		3.7	4.1		2.2				*2.2		1.3	8.17	
	*14.7	8.4		*9.1	4.3		6.2	2.6					*2.2	1.5		
*14.7	*14.7	10.9 *14.7	*9.1	*9.1	5.4 8.4	*6.3	5.6	3.3 5.0				*2.2	*2.2	1.9 *2.2		
*14.7		13.9	*9.1 *9.1		8.4 6.7	^b.3 *6.3		5.0 4.0				*2.2		*2.2		
*14.2		7.0	6.6		3.5	0.0		0				2.2		2.2		
14.2	*14.2	7.0 8.2	0.0	*7.6	3.5 4.1											
	*14.2	10.7		*7.6	5.2											
*14.2		*14.2	*7.6		*7.6											
*14.2		13.7	*7.6		6.4											

	3.0 m		4.5 m				6.0 m 7.5 m			7.5 m			9.0 m			\$	a f	
ľ	R	P	ß	Ð	F	ß	Ð	F	ß	Ð	P	ß	9	F				m
				_		*2.8		*2.8	*2.9	_	1.8	*1.6		1.1				
							*2.8 *2.8	*2.8 *2.8		*2.9 *2.9	2.1 *2.6		*1.6 *1.6	1.3 *1.6				
						*2.8	°2.8	*2.8	*2.9	~2.9	*2.0	*1.6	1.0	*1.6				
						*2.8		*2.8	*2.9		*2.9	*1.6		*1.6				
			*4.1		*4.1	*3.6		2.7	3.1		1.8	2.2		1.1	*0.9		0.8	10.37
				*4.1 *4.1	*4.1 *4.1		*3.6 *3.6	3.1 *3.6		*3.3 *3.3	2.1 2.5		*2.3 *2.3	1.3 1.7		*0.9 *0.9	*0.9 *0.9	
			*4.1	[~] 4.1	*4.1	*3.6	-3.0	*3.6	*3.3	3.3	2.5 *3.3	*2.3	°2.3	*2.3	*0.9	°0.9	*0.9	
			*4.1		*4.1	*3.6		*3.6	*3.3		3.0	*2.3		2.1	*0.9		*0.9	
*10.0		*7.5	*6.0		4.0	4.3		2.6	3.1		1.8	2.1		1.1	*0.9		0.7	10.55
	*10.0 *10.0	8.6 *10.0		*6.0 *6.0	4.6 5.5		*4.6 *4.6	2.9 3.6		*3.8 *3.8	2.1 2.5		*2.7 *2.7	1.3 1.7		*0.9 *0.9	*0.9 *0.9	
*10.0	10.0	*10.0	*6.0	0.0	*6.0	*4.6	4.0	*4.6	*3.8	5.0	*3.6	*2.7	2.7	2.6	*0.9	0.5	*0.9	
*10.0		*10.0	*6.0		*6.0	*4.6		4.2	*3.8		3.0	*2.7		2.1	*0.9		*0.9	
*10.6		7.2	*6.7		4.0	4.3		2.5	3.1		1.7	*2.0		1.0	*1.0		0.7	10.48
	*10.6 *10.6	*8.4 10.5		*7.6 *7.6	4.5 5.5		*5.4 *5.4	2.9 3.5		4.3 3.9	2.0 2.5		*2.7 *2.7	1.2 1.6		*1.0 *1.0	0.9 *1.0	
*10.6	10.0	*10.5	*7.6	7.0	*7.6	*5.4	5.4	5.0	*4.3	3.9	2.5 3.6	*2.7	2.1	2.5	*1.0	1.0	*1.0	
*10.6		*10.6	*7.6		6.5	*5.4		4.2	*4.3		3.0	*2.7		2.0	*1.0		*1.0	
*12.1		*7.4	6.7		4.0	4.3		2.5	2.9		1.5				*1.1		0.8	10.15
	*12.1 *12.1	8.5 10.5		*8.5 *8.5	4.5 5.5		*6.0 *5.5	2.9 3.6		4.3 3.9	1.8 2.3					*1.1 *1.1	0.9 *1.1	
*12.1	"IZ.I	*12.1	*8.5	~0.0	5.5 7.9	*6.0	°0.0	3.0 *5.1	*4.7	3.9	2.3 3.5				*1.1	I. I	*1.1	
*12.1		*12.1	*8.5		6.5	*6.0		4.2	*4.7		2.9				*1.1		*1.1	
13.8		7.1	7.0		3.8	4.2		2.3	2.8		1.4				*1.3		0.9	9.52
	*14.1	8.3		*8.8	4.4		*6.2	2.7		4.2	1.7					*1.3	1.1	
*14.1	*14.1	10.8 *14.1	*8.8	*8.8	5.5 8.1	*6.2	5.6	3.4 5.1	*4.6	3.7	2.2 3.4				*1.3	*1.3	*1.3 *1.3	
*14.1		13.2	*8.8		6.8	*6.2		4.1	*4.6		2.7				*1.3		*1.3	
*14.5		7.0	6.7		3.6	4.0		2.1										
	*14.7	8.3		*9.1	4.2		*6.1	2.5										
*14.7	*14.7	10.8 *14.7	*9.1	*9.1	5.3 8.2	*6.1	5.5	3.2 4.9										
*14.7		13.8	*9.1		6.5	*6.1		3.9										

Stic	:k
2.8	m

**Bucket** 0.7 m³

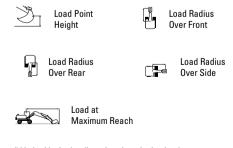
** all lift capacities are with optional 400 kg additional counterweight and optional heavy lift hydraulic circuit.

### Stick

4.0 m

#### Bucket

0.55 m³



* 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 lifting capacities.

## **Standard equipment**

The M318 is a worldwide model from Caterpillar. To provide you with the optimum configuration for your jobs, standard and optional equipment may vary. Please ask your Cat dealer for the latest equipment list for your country.

Adjustable pilot operated joystick type lever controls Alternator, 55-amp. Automatic engine speed control (AEC) Batteries, 2 Caterpillar Cab with: Ash tray and lighter Bottle holder Coat hook Cooler box behind operators seat Floor mat Glass, tempered and tinted, EC approved, pressurized and sound suppressed Heater and defroster Hydraulic lock, left side console activated Interior lighting Literature compartment

Roading lights including headlights, taillights and turning lights Suspension seat with: adjustable armrests, lumbar support and retractable seat belt Warning horn Cat 3116 T diesel engine, emission controlled, 98 kW at 2300 rpm 24 Volt electric starting 2950 m altitude capacity Downshift inhibitor Dual tires 10.00-20 Electronic Power Control Unit with backup system Fully hydraulic braking system Full hydraulic steering with emergency steering capability Hydraulic maximum speed limiter Hydrostatic drive 2 speed, 4 wheel drive with on-the-go shifting Lockable oscillating front axle Power mode selector, economy and standard One-piece drive-shaft Openable two piece front windshield and openable skylight Parking brake Prepared for optional pin-on dozer blade and/or outriggers for front and/or rear installation Positive filtered ventilation, 3 speed Rearview mirror, left and right Steering column, tiltable Swing brake, automatic Variable displacement, load sensing hydraulic system Wide steps on both sides Wiper and washer

## **Optional equipment**

Additional counterweight, 400 kg Air conditioner Air horn Air suspension seat Alarm, back-up Anti-drift valve For VA boom cylinder For stick cylinder For bucket cylinder Auxiliary hydraulic circuits (AHC): Medium pressure circuit for booms and sticks High pressure circuit for booms and sticks Hammer circuit for booms and sticks Biodegradable hydraulic oil Booms One piece boom Hydraulically adjustable (VA) **Buckets** Bucket linkage With diverter valve Without diverter valve Cab, deluxe (openable side window) Cab riser, 1.2 m, fixed

Check valves Boom cylinders Stick cylinder VA cylinder Clamshell restraint Dozer blade, front or rear mounted Guards Cab roof (FOPS) Front window Vandalism protection Headrest for driver's seat Heavy lift arrangement Lights Warning, stick mounted Working for all booms Working, front, cab mounted (2x) Working, rear, cab mounted (1x) Outriggers, pin-on, individually controlled 1 set, front or rear mounted 2 sets, front and rear mounted Overload warning device Rain protective shade for front windscreen Radio Mounting Kit with loudspeakers and antenna (does not include radio)

Radio (includes Radio Mounting Kit) Refuelling pump, electric Rotating beacon Spacer rings, rubber, for use between dual tires Sticks 1800 mm 2400 mm 2800 mm 4000 mm 3200 mm material handling Sound suppression screen Sun blinds For polycarbonate skylight For rear windscreen For right side windscreen Supplemental steering Tilting device (for ditch cleaning buckets only) Tires Tip groups Tool box, left and/or right undercarriage-mounted Travel speed lock Two-piece drive-shaft Wiper and washer for lower front windscreen

## Cat '5-Star Customer Service'

Purchase a Cat M318. You know it's 'equipped' with something unique and dependable – Cat '5-Star Customer Service' as delivered by your Cat dealer.

**Cat '5-Star Customer Service' means peace of mind from the minute you contact your Cat dealer.** By building a partnership with your Cat dealer, you can focus on your business instead of your equipment. Cat '5-Star Customer Service' brings together all the products, services and people from Caterpillar and the Cat dealer network and puts them firmly behind you. Count on them to help you maintain your competitive edge.

Cat '5-Star Customer Service' includes Equipment Management Services to help you make a better business

**decision.** We'll assist you in selecting the right Cat equipment to suit your need, to optimize productivity. And we'll help you make smarter decisions, assist you with machine selection, purchasing or renting options, financing, and projected owning and operating costs.

Maintenance Services that enable you to maximize machine availability and performance. Every Cat dealer has a wide choice of maintenance products and services to make sure your equipment achieves maximum performance for the lowest possible cost.

**Predictive Services to anticipate problems.** By anticipating potential problems and preventing unscheduled repairs, Cat Predictive Services make sure that your equipment is always up and ready to run – because maximizing uptime means maximum earning capacity.



Reconditioning Services for a wider choice of repair alternatives.

Caterpillar factory-reconditioned parts and components get your equipment back on the job in the minimum of time and with lower repair costs, contributing to reduced operating costs and a more efficient operation.

**Off-the shelf availability of genuine Cat parts.** Genuine parts, together with highly experienced, Cat-trained specialists make sure every repair is right first time and your machine is back earning its keep in the shortest possible time.



"Cat 5-Star Customer Service is our commitment to provide you with the best equipment and services for the most cost effective solutions in your business."

Caterpillar and Cat dealers

## **M318 Wheel Excavator**

Featured photos of machines may not always include standard equipment. See your Caterpillar Dealer for available options. Materials and specifications are subject to change without notice. www.CAT.com © 2000 Caterpillar



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