

# 325C MH

Material Handling  
Hydraulic Excavator

**CAT**<sup>®</sup>



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**Cat<sup>®</sup> 3126B ATAAC diesel engine**

<b>Gross power</b>	<b>140 kW/189 hp</b>
<b>Net power</b>	<b>128 kW/173 hp</b>
<b>Operating weight without tools</b>	<b>32 400 to 33 450 kg</b>
<b>Travel speed</b>	<b>5.0 and 3.1 km/h</b>
<b>Drawbar pull</b>	<b>236 kN</b>

# 325C MH Material Handling Hydraulic Excavator

*Caterpillar® Material Handling Arrangements are purposely designed and built for your material handling jobs.*

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## Undercarriage

Different undercarriage options are available to match your performance and transportation needs. The Long Heavy Duty High Wide (HDHW) undercarriage is stable and durable. The optional 325C Square undercarriage provides extra stability. **pg. 3**

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## Boom and Stick

The Caterpillar material handling front parts are built for performance and long service life. Different boom and stick lengths are available to provide various maximum horizontal reaches such as 13 040 mm, 13 410 mm and 15 500 mm.

## Smart Boom™

The 325C MH is equipped with the Caterpillar exclusive SmartBoom feature. It eases the operations by smoothening the movements and accelerating return cycle speed. **pg. 4**

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## Upper Frame and Counterweight

The heavy-duty upper frame guarantees durability and resistance to handle increased loads and movements generated by the demanding material handling application. A heavier counterweight balances the swing bearing and provides enhanced stability. **pg. 5**

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## Serviceability

Longer service intervals and easier maintenance result in better machine availability and lower owning and operating costs. **pg. 10**

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## Hydraulics

Cat 3126B ATAAC engine and hydraulics give the 325C MH exceptional power, efficiency and controllability unmatched in the industry for consistently high performance in all applications. Medium pressure allows the use of rotating grapples. **pg. 6**

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## Complete Customer Service

Your Cat dealer offers a wide range of services that can be set up under a customer support agreement when you purchase your equipment. The dealer will help you choose a plan that can cover everything from machine and attachment selection to replacement. **pg. 11**

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## Ease of Operation

Compact Multipro monitor enhances viewing while displaying a variety of easy to read and understand language-based information. Designed for simple and easy operation. **pg. 7**

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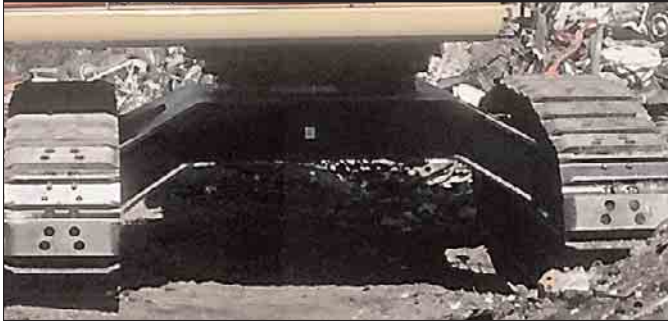
## Operator Station and Cab riser

1200 mm and 1600 mm fixed cab risers are available and provide an overall good visibility for material handling applications. The safe, roomy, quiet, automatically climate controlled cab has excellent sightlines to the work tool to help keep operator fatigue low and production up throughout the entire shift. **pg. 8-9**



## Undercarriages

*Durable undercarriages absorb stresses and provide excellent stability.*



### Standard Undercarriage

#### **Heavy Duty High Wide (HDHW) Undercarriage.**

The durable 325C MH Heavy Duty High Wide undercarriage with 800 mm triple grouser track shoes provides a very stable and rugged platform for material handling applications.

- The undercarriage is reinforced and has a high ground clearance.
- Thick carbody plates and increased box section height induce increased weight and lift capacities.
- Full-length track guiding guards are included.



### Optional Undercarriage

**Square Undercarriage.** The 325C MH High and Square undercarriage with 800 mm triple grouser track shoes gives similar stability and lift capacity over-the-front and over-the-side while handling materials. This reinforced undercarriage is high and square, has a high ground clearance. Thick carbody plates and increased box section height induce increased weight and lift capacities. The full-length track guiding guards are included.

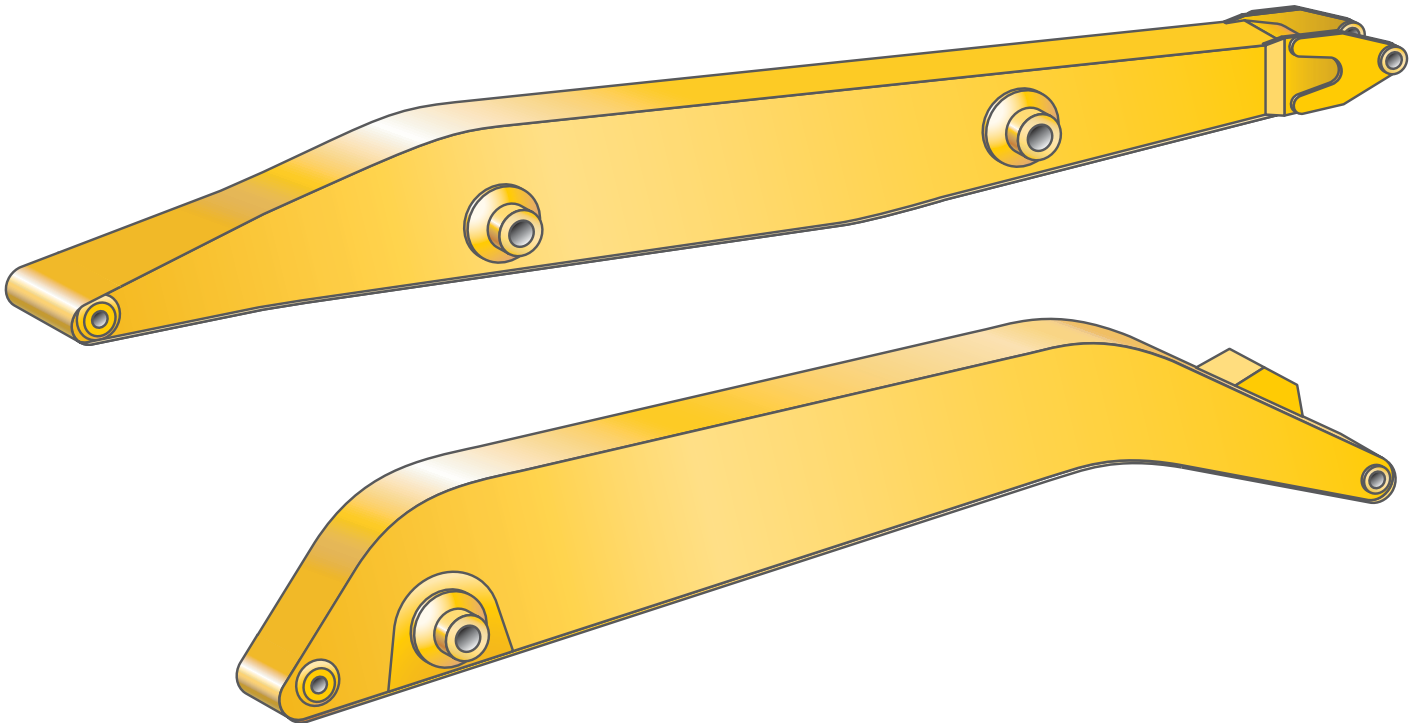


**Optional Shoes on all Undercarriages.** Clipped flat shoes and clipped triple grouser shoes can be made available as option.

- 600 mm clipped flat shoes
- 600 mm clipped double grouser shoes
- 600 mm clipped triple grouser shoes
- 50% 600 mm clipped flat shoes and 50% 600 mm double grouser shoes

## Boom and Stick for Material Handling

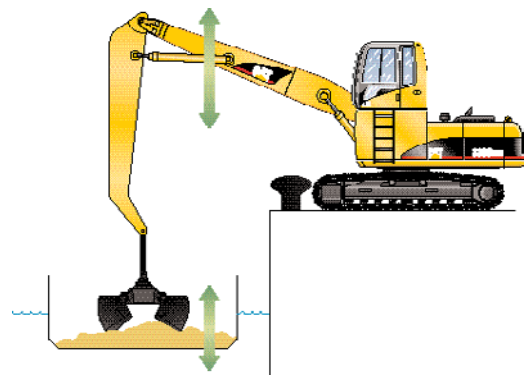
*Durable front parts help you get the best out of your machine.*



### Material Handling Front Parts.

Like all Cat booms and sticks, Caterpillar Material Handling front parts are built for performance and long service life:

- Finite elements analysis: analyses the design structural stresses and enables optimization of durability and performance.
- Castings and forgings are used at high stress areas such as boom nose, boom foot, boom cylinder and stick foot.
- Internal baffle plates give the structures extra strength and durability to withstand torsional loads.
- Large welded box section structures with thick, multi-plate fabrication are used in high-stress areas.
- Material handling boom and stick are stress relieved, thanks to an in-house heat treatment, to maximize material strength and durability while minimizing weight for improved performance.



### Smart Boom.

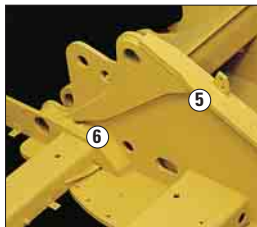
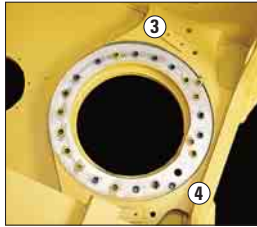
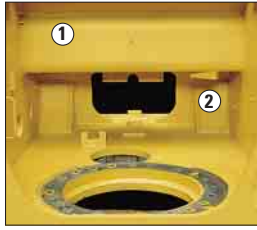
Unloading barges become easier thanks to the SmartBoom:

- It avoids excessive force being put on the barge floor, allowing the operator to fully concentrate on production.
- The operations are more productive and efficient due to improved return speed.

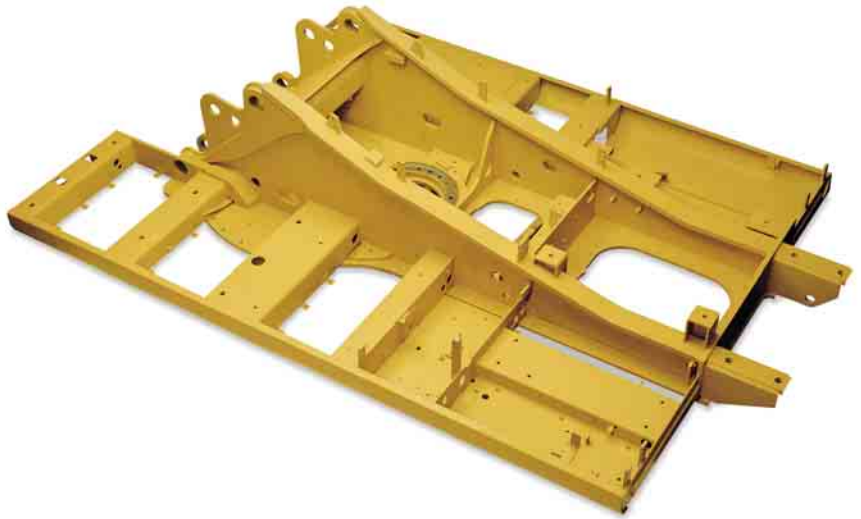
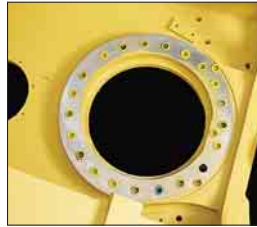
# Upper frame and Counterweight

*Purposely designed and built for extreme conditions.*

## Heavy-duty Upper Frame



## Standard Upper Frame



## Reinforced upper frame

The heavy-duty reinforced upper frame of the 325C MH is designed to withstand the extreme load conditions of material handling applications. Several modifications to the standard upper frame provide the durability and strength required in these environments.

- 1 Box-section cross member
- 2 Box-section cylinder mounts help handle increased torsional loads and payloads.
- 3 Horizontal mounting plate provides up to 75% more surface area for swing drive and swing bearing mounting bolts.
- 4 Thicker main rail spreader gussets handle increased loads and movements.
- 5 Steel main frames are 15-20% thicker with a 55% increase in tensile strength.
- 6 Boom tower vertical doubler plates add reinforcement for increased side loads and payloads.

## Standard



## Heavy-duty



## Swing bearing to upper frame bolts.

The swing bearing bolts are 20 mm longer on the back half of upper frame for increased joint retention. Bolt grade is increased from 10.9 to 11.9 for increased bolt torque of swing bearing to upper frame and carbody.

**Counterweight.** A heavier counterweight (7700 kg) balances the swing bearing and provides enhanced stability.



## Upper frame protection

- Heavy-duty bottom and swivel guards are standard. Reinforced bumpers are available as option.

## Hydraulics

*Caterpillar hydraulics deliver power, control and fast cycle times to maximize productivity in any job.*

**Automatic Engine Control.** Automatic Engine Control (AEC) with convenient one-touch command. Three-stage control maximizes fuel efficiency and reduces sound levels.

- First stage AEC: Selected when the AEC indicator on the Multipro panel is “OFF”. If a no-load or light-load condition continues for more than 3 seconds, the AEC reduces engine speed by 100 rpm.
- Second stage AEC: Selected when the AEC indicator on the Multipro panel is “ON”. If a no-load or light-load condition continues for more than 3 seconds, the AEC reduces engine speed to 1300 rpm.
- Third stage AEC: Pressing the switch on the top of the right hand control joystick when the levers are in neutral position, reduces the engine speed to 1020 rpm. If the switch is pressed again or if a control lever is moved, the engine speed returns to its normal level.

**Easy to Operate Hydraulics.** Cat hydraulics give the 325C MH exceptional efficiency and controllability unmatched in the industry for consistently high performance in all applications. The 325C MH easy-to-use hydraulic system provides automatic infinite priority selections between swing and boom, maximizing performance and simplifying operation. Boom and swing priority is adjusted automatically depending on joystick input, eliminating the need to select the work-mode. This is a unique feature in the market.

**Hydraulic Cylinder Snubbers.** The hydraulic cylinder snubbers at rod end of boom cylinders and both ends of stick cylinders cushion shocks, reduce sound and increase cylinder life, keeping the machine working longer.

**Hydraulic Pumps Cross Sensing System.** The Cross Sensing system improves productivity with faster implement speeds and quicker, stronger pivot turns.

**Hydraulic Generator.** The optional generator control circuit allows the installation of a hydraulic generator and a magnet.



### **Auxiliary Hydraulic Circuits.**

The new auxiliary hydraulic circuits are electronically controlled, allowing essential parameters for frequently used hydro-mechanical work tools to be pre-recorded. This on-board electro-hydraulic system eliminates the need for manual readjustments to the auxiliary hydraulics, each time a different tool is used.

### **Boom and Stick Regeneration Circuit.**

Boom and stick regeneration circuits increase efficiency and reduce cycle times for higher productivity and lower operating costs.

### **Medium Pressure Circuit.**

The medium pressure rotate circuit is included in the 325C MH for the use of rotating grapples and clamshells. The control of this circuit is on/off.

**Controllability.** The hydraulic system offers precise control to the 325C MH, reducing operator fatigue, improving operator effectiveness and efficiency, which ultimately translates into enhanced performance.

**SmartBoom™.** The unique Cat SmartBoom™ attachment significantly enhances operator efficiency in applications including rock scraping, finishing work, hammer and truck loading applications.

## Ease of Operation

*Designed for simple, easy operation, the 325C MH allows the operator to focus on production.*



**Multipro.** The new, compact Multipro monitor enhances viewing while displaying a variety of easy to read and understand language-based information.

**Pre-start Multipro system.** The Pre-start Multipro system alerts the operator in case there is low coolant, engine oil and hydraulic oil levels, prior to starting the engine. When the engine key remains in the “ON” position for more than 2 seconds, warning indicators are displayed in language, if actual fluid levels are lower than required.

### **Filter and Oil Change warnings.**

The filter and oil change warnings are displayed when the number of hours used reaches the maintenance interval.

### **Integrated Tool Control system.**

The integrated Tool Control system allows the operator to quickly select the proper set of flow and pressure parameters out of five pre-set combinations, eliminating the need to re-set these hydraulic parameters each time a tool is changed. Specific flow and pressure can be programmed easily. The one way/two way hydraulic functions are also programmable from the Tool Control system. Each of the five programmed tools can even be given a specific name chosen by the operator.

**Languages.** Twenty different languages are available on the 325C MH.

The machine can be ordered with up to seven language combinations at a time. A pre-set combination can be overwritten by another language combination with Electronic Technician.

- English, French, German, Italian, Portuguese, Spanish, Japanese
- English, Danish, Finnish, Icelandic, Norwegian, Swedish
- English, Dutch/Flemish, French, German, Italian
- English, Czech, German, Greek, Russian, Turkish
- English, Chinese (simplified), Indonesian, Thai

The individual language can be selected out of the pre-set combination from the Multipro.

## Operator Station

*The 325C MH interior layout maximizes operator space, provides exceptional comfort, and reduces operator fatigue.*





**Interior Operator Station.** The 325C MH operator work station is quiet with ergonomic control placement and convenient adjustments, low lever and pedal effort, ergonomic seat design and highly efficient ventilation.

**Seat.** A new seat with a two-tone color offers two types of cushion – soft and firm – for operator comfort. The reclining knob is located at the right side of the seat for easier reclining adjustment.

**Console.** Designed for simplicity and functionality. Both consoles have attached adjustable armrests.

**Automatic Climate Control.** Fully automatic climate control adjusts temperature and flow and determines which air outlet is best in each situation.

**Greater Control Convenience.** Each of the controls is positioned within easy reach of the operator. Joysticks with sliding switches control all implements and swing functions. The industry-unique sliding switches provide modulated control for hydro-mechanical tools and are designed to increase operator comfort and reduce operator fatigue.

**Cab Mounts.** The cab shell is attached to the frame with viscous mounts, reducing vibration and sound.

**Skylight.** A unique large polycarbonate skylight provides very good upward visibility, especially useful in above ground applications.

**Viewing area.** Excellent viewing area through wide windows. The front window is one piece for undistorted view in utility applications (two pieces optional).

**Wipers.** Designed to maximize visibility in poor weather conditions. The parallel wiper system covers almost the complete front window without leaving unwiped areas in the immediate line of sight of the operator.

**Large storage shelf.** Located behind the seat provides sufficient room for a cooling box. An optional lunch box cover is available to close off the storage space if preferred.



**Raised Cab.** The 1200 mm or 1600 mm raised cab further improves operator's visibility in all material handling applications. To reduce vibrations and sound the cab shell is attached to the frame with viscous mounts.

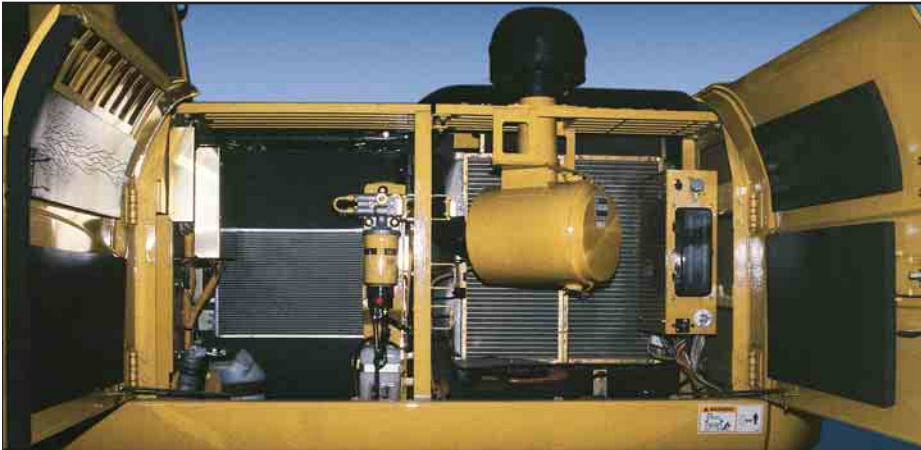
**Ergonomic Control Placement.** The operator work station is quiet with ergonomic control placement and convenient adjustments, low lever and pedal effort, ergonomic seat design and highly efficient ventilation. The result is a cab that puts the operator firmly and comfortably in control to enhance productivity.

**High Visibility Cab.** The laminated safety glass front window is one-piece with a bottom mounted parallel wiper for excellent visibility. For enhanced upward visibility the increased impact resistant top window extends completely to the rear and has a wiper and washer. The upper left side door window can slide open. The lower window provides visibility to the tracks and to the ground next to the machine. The rear window offers a good view behind and to the left, aided by a lower hood profile.

**Falling Object Guard.** An ISO 3449-1984 certified falling object guard on top and front of the cab is available as option. The front guard swings out for easier windshield cleaning.

## Maximum uptime – Service and Maintenance

*Extended Service Intervals and Easy access reduce operating costs.*



**Extended Service Interval.** 325C MH service and maintenance intervals have been extended to reduce machine service time and increase machine availability.

**Air Filter Compartment.** The air filter features a double-element construction for superior cleaning efficiency. When the air cleaner plugs, a warning is displayed on the Multipro screen inside the cab.

**Ground Level Service.** The design and layout of the 325C MH was made with the service technician in mind. Most service locations are easily accessible from ground level allowing critical maintenance to get done quickly and efficiently.

**Pump Compartment.** A service door on the right side of the upper structure allows ground-level access to the pump and pilot filter.

**Diagnostics and Monitoring.** The 325C MH is equipped with S•O•S<sup>SM</sup> sampling ports and hydraulic test ports for the hydraulic system, engine oil and for coolant. A test connection for the Electronic Technician (ET) is located in the air filter compartment.

**Anti-Skid “Punched Star” Plate.** Anti-skid punched-star plate covers top of storage box and upper structure to prevent slipping during maintenance. The plates can be removed for cleaning.

**Capsule Filter.** The hydraulic return filter, a capsule filter, is situated outside the hydraulic tank. Removing the filter allows shut-off valves to close the hydraulic circuit preventing contaminants from entering the system when the hydraulic oil filter is changed. The capsule filter also keeps the operation clean.

**Engine Inspection.** Engine can be accessed from the upper structure or from under the machine. The engine and pump compartment are separated by a steel fire wall.

**Handrails and Steps.** Large handrails and steps assist operator in climbing on and off machine.

**Grease Lubricated Track.** Grease lubricated seals protect the track link and deliver long track link pin and bushing inner wear life.

**Fan Guard.** Engine radiator fan is completely enclosed by fine wire mesh, reducing the risk of an accident.

**Greasing Points.** A concentrated remote greasing block on the boom delivers grease to hard-to-reach locations.

**Bearings.** New boom and stick standard bearings only need greasing every 1000 hours.

**Caterpillar Product Link system attachment.** It includes a transceiver module (on-board the machine), office application PC software, and a satellite communications network to track machine hours, location, and warnings. Product Link simplifies maintenance scheduling, fleet management, unauthorized machine usage or movement, and product problem event tracking and diagnosis (PL-201).

## Complete Customer Support

*Cat dealer services help you operate longer with lower costs.*

**Services.** Customer Service is critical today in every business. That's why so many people buy Cat equipment. They know they are getting quality reliability and performance backed-up with the best Customer Service. Your Caterpillar dealer offers a wide range of services that can be set up under a Customer Support Agreement. The dealer will help you choose a plan that can cover the whole machine including work tools, to help you to get the best out of your investment.

**Product Support.** You will find a solution for your parts requirements at your dealer. Cat dealers utilize a worldwide network to find in-stock parts to minimize downtime. In addition your dealer can offer alternative solutions like Reman, Classic Parts and quality used parts to save money on original Caterpillar components.

**Service Capability.** Whether in the dealer's fully equipped shop or in the field, you will get highly trained service technicians using the latest technology and tools.

**Maintenance.** More and more equipment buyers are planning for effective maintenance before buying equipment. Choose from your dealer's wide range of maintenance services at the time you purchase your machine. Repair option programs guarantee the cost of repairs up front. Diagnostic programs such as S•O•S<sup>SM</sup> Fluid analysis and Technical Analysis help you avoid unscheduled repairs.

**Selection.** Make detailed comparisons of the machines you are considering before you buy. How long do components last? What is the cost of preventive maintenance? Your Cat dealer can give you precise answers to these questions to make sure you operate your machines at the lowest cost.



**Purchase.** Consider the financing options available as well as day-to-day operating costs. This is also the time to look at dealer services that can be included in the cost of the machine to yield lower equipment and owning and operating costs over the long run.

**Operation.** Improving operating techniques can boost your profits. Your Cat dealer has training material and ideas to help you increase productivity.

**Replacement.** Repair, rebuild or replace? Your Cat dealer can help you evaluate the cost involved so you can make the right choice.

## Engine

Cat 3126B ATAAC diesel engine	
Ratings	1800 rpm
Net Power	
ISO 9249	128 kW/173 hp
EEC 80/1269	128 kW/173 hp
Net Power (option)	
ISO 9249	140 kW/188 hp
EEC 80/1269	140 kW/188 hp
Bore	110 mm
Stroke	127 mm
Displacement	7.2 liters

- The 3126B ATAAC engine meets EU directive 97/68/EC Stage II emission requirements.
- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler, and alternator.
- No engine derating required below 2300 m altitude.

## Track Width

	mm
<b>HDHW and Square undercarriages</b>	
Standard shoes	
triple grouser	800
Optional shoes	
triple grouser	600, 600 HD
triple grouser	900, 700 HD
clipped flat	600
50% clipped flat and 50% double grouser	600
clipped double grouser	600
clipped triple grouser	600

**HDHW** 325C MH with Heavy Duty High Wide undercarriage  
**Square** 325C MH with Square undercarriage

## Hydraulic System

Main Implement System	
Maximum Flow (2x)	235 l/min
Maximum pressure	
Implements	34 300 kPa
Travel	34 300 kPa
Swing	25 000 kPa
Pilot System	
Maximum flow	32.5 l/min
Maximum pressure	4100 kPa

## Sound

The dynamic exterior sound power level meets EU Directive 2000/14/EC.

## Drive

Maximum Travel Speed	5.0/3.1 km/h
Maximum Drawbar Pull	236 kN

## Swing Mechanism

Swing Speed	10 rpm
Swing Torque	82 kNm

## Cab

Cab/FOGS meets ISO 10262.

## Ground Pressure

Actual ground pressure will depend on final machine configuration.

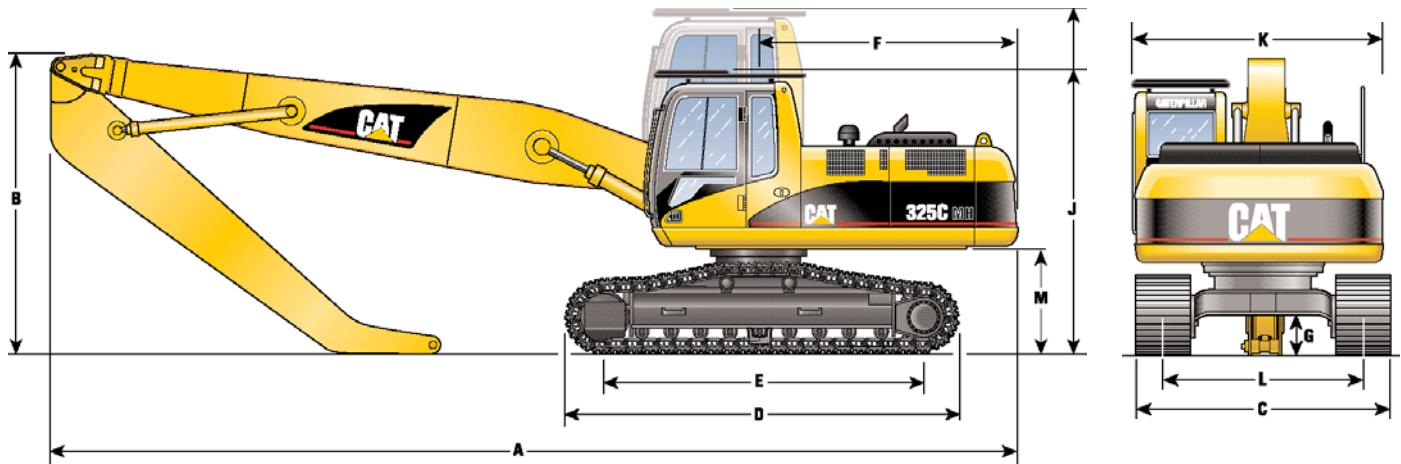
	kg/cm <sup>2</sup>
<b>HDHW undercarriage</b>	
600 mm shoes	0.63
700 mm shoes	0.56
800 mm shoes	0.50
900 mm shoes	0.45
<b>Square undercarriage</b>	
600 mm shoes	0.63
700 mm shoes	0.55
800 mm shoes	0.49
900 mm shoes	0.44

## Service Refill Capacities

	Liter
Fuel Tank Capacity	500
Cooling System	30
Engine Oil	34
Swing Drive	10
Final Drive (each)	6
Hydraulic System (including tank)	310
Hydraulic Tank	250

## Dimensions and Weights

Material Handling front parts (boom and stick), no work tool, heavy duty upper frame and 7700 kg counterweight.  
All dimensions and weights are approximate.



		<b>HDHW</b>	<b>Square</b>		
Boom length	mm	8350	8350	8350	8850
Stick length	mm	5450	5450	6000	7420
Maximum reach	mm	13 040	13 040	13 410	15 500
<b>A</b> Overall length					
with boom and stick installed	mm	11 560	11 570	11 580	11 290
with boom without stick		–	–	–	12 060
<b>B</b> Boom height					
with boom and stick installed	mm	3550	3520	3440	6720
<b>C</b> Overall width with triple grouser shoes					
800 mm	mm	3720	4190	4190	4190
<b>D</b> Track length	mm	4660	4660	4660	4660
<b>E</b> Length to center of rollers	mm	3800	3800	3800	3800
<b>F</b> Tail swing radius	mm	3050	3050	3050	3050
<b>G</b> Ground clearance	mm	660	660	660	660
<b>J</b> Cab height without cab riser					
with FOG	mm	3390	3440	3440	3440
without FOG	mm	3260	3310	3310	3310
<b>J</b> Cab height with 1200 mm cab riser					
with FOG*	mm	4590	4640	4640	4640
without FOG*	mm	4460	4510	4510	4510
Height without cab**	mm	3600	3650	3650	3650
<b>J</b> Cab height with 1600 mm cab riser					
with FOG*	mm	4990	5040	5040	5040
without FOG*	mm	4860	4910	4910	4910
Height without cab**	mm	4000	4050	4050	4050
<b>K</b> Body width	mm	2900	2900	2900	2900
<b>L</b> Track gauge	mm	2920	3390	3390	3390
<b>M</b> Counterweight ground clearance	mm	1300	–	–	–

### Weights

Operating machine	kg	32 400	32 670	32 930	33 450
Undercarriage	kg	12 090	12 360	12 360	12 360

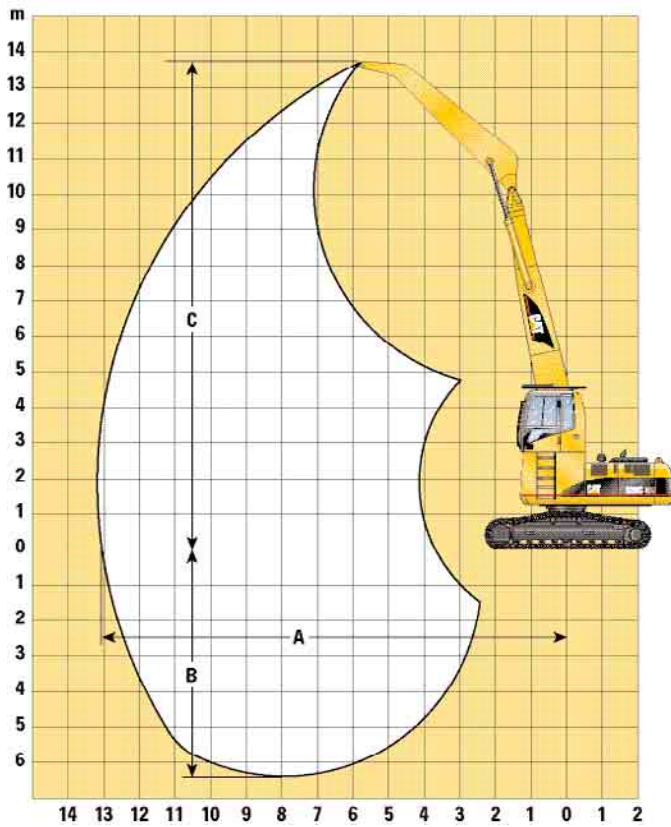
\* Cab must be removed for transport

\*\* Height at joysticks: with cab riser, without cab, with seat tilted backwards at maximum

**HDHW** 325C MH with Heavy Duty High Wide undercarriage  
**Square** 325C MH with Square undercarriage

## Working Range – 325C MH with HDHW undercarriage

13 040 mm maximum reach. Material handling front parts (no work tool) with Heavy Duty High Wide (HDHW) undercarriage and heavy duty upper frame.



Boom	8350 mm
Stick	5450 mm
Shoes (triple grouser)	800 mm
Cab riser	1200 mm
Counterweight	7700 kg
<b>A</b> Maximum horizontal reach at ground level	13 040 mm
<b>B</b> Maximum vertical pin depth	6400 mm
<b>C</b> Maximum vertical pin height	13 730 mm

The range is applicable in 360°, and dependent on maximum weight of work tool.

## Lift Capacities – 325C MH with HDHW undercarriage

Material handling front parts (no work tool) with Heavy Duty High Wide (HDHW) undercarriage and heavy duty upper frame. All weights are in kg.

Boom 8350 mm	Stick 5450 mm		Shoes 800 mm		Counterweight 7700 kg												m		
	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	10.5 m	12.0 m	12.0 m		12.0 m		12.0 m							
13.5 m					*5650	*5650											*5350	*5350	6.19
12.0 m							*6190	*6190									*4670	*4670	8.42
10.5 m							*6590	*6590	*6050	*6050							*4370	*4370	9.94
9.0 m							*6640	*6640	*6030	*6030	*5510	4750					*4230	*4230	11.05
7.5 m							*6890	*6890	*6150	6050	*5580	4700					*4190	3800	11.86
6.0 m					*8610	*8610	*7300	*7300	*6380	5880	*5690	4600	4690	3680			*4240	3460	12.44
4.5 m			*12 500	*12 500	*9530	*9530	*7800	7420	*6650	5650	5680	4460	4610	3610			4150	3230	12.82
3.0 m			*14 270	*14 270	*10 400	9630	*8270	7010	*6910	5400	5520	4310	4520	3520			4000	3100	13.01
1.5 m			*8050	*8050	*10 920	9000	*8580	6640	*6680	5170	5370	4160	4430	3430			3930	3040	13.03
Ground			*6780	*6780	*10 890	8590	8350	6360	6480	4980	5240	4040	4360	3360			3960	3050	12.87
-1.5 m	*4610	*4610	*7040	*7040	*10 310	*8390	8170	6190	6350	4860	5160	3960	4320	3320			4080	3140	12.52
-3.0 m	*5630	*5630	*7640	*7640	*9240	*8340	*7580	6130	*6240	4810	*5120	3930	*3980	3320			4000	3330	11.98
-4.5 m			*8340	*8340	*7720	*7720	*6470	6150	*5320	4820	*4210	3960					*3610	*3610	11.21
-6.0 m					*5690	*5690	*4870	*4870	*3900	*3900									



Load Point Height



Load Radius Over Front



Load Radius Over Side



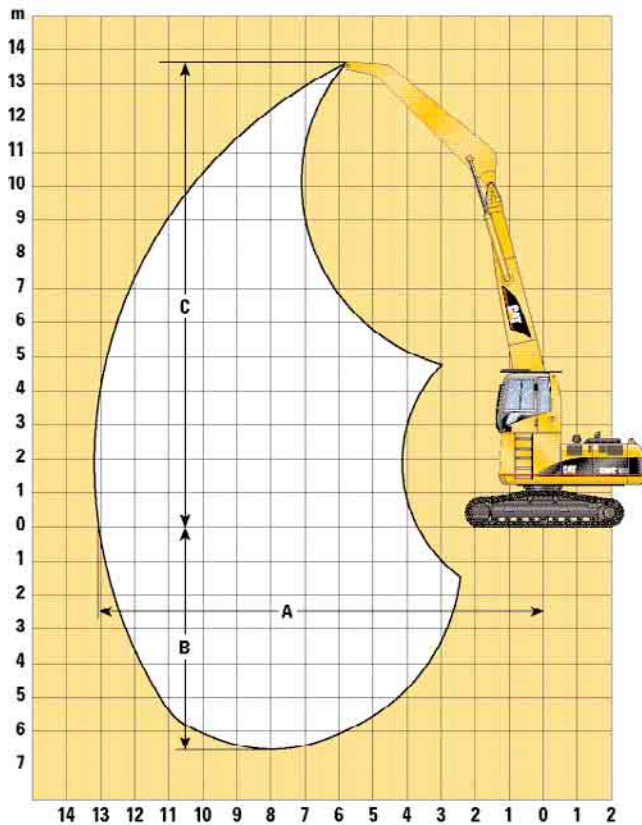
Load at Maximum Reach

\* 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.

## Working Range – 325C MH with Square undercarriage

13 040 mm maximum reach. Material handling front parts (no work tool) with Square undercarriage and heavy duty upper frame.



Boom	8350 mm
Stick	5450 mm
Shoes (triple grouser)	800 mm
Cab riser	1200 mm
Counterweight	7700 kg
<b>A</b> Maximum horizontal reach at ground level	13 040 mm
<b>B</b> Maximum vertical pin depth	6520 mm
<b>C</b> Maximum vertical pin height	13 620 mm

The range is applicable in 360°, and dependent on maximum weight of work tool.

## Lift Capacities – 325C MH with Square undercarriage

Material handling front parts (no work tool) with Square undercarriage and heavy duty upper frame. All weights are in kg.

Boom 8350 mm	Stick 5450 mm		Shoes 800 mm		Counterweight 7700 kg								m				
	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	10.5 m	12.0 m	Load at Maximum Reach									
13.5 m			*5760	*5760									*5320	*5320	6.29		
12.0 m					*6270	*6270							*4660	*4660	8.48		
10.5 m					*6580	*6580	*6040	*6040					*4360	*4360	9.99		
9.0 m					*6640	*6640	*6030	*6030	*5550	*5550			*4230	*4230	11.08		
7.5 m			*7900	*7900	*6900	*6900	*6160	*6160	*5580	5410			*4190	*4190	11.89		
6.0 m			*8630	*8630	*7310	*7310	*6390	*6390	*5690	5300	4730	4360	*4240	4100	12.46		
4.5 m		*12 570	*12 570	*9560	*9560	*7810	*7810	*6660	*6660	5720	5160	4650	4290	4180	3850	12.83	
3.0 m		*14 320	*14 320	*10 430	*10 430	*8290	*8290	*6920	6420	5560	5010	4560	4190	4030	3700	13.02	
1.5 m		*7940	*7940	*10 930	*10 930	*8580	7970	6730	6180	5410	4860	4470	4100	3970	3640	13.02	
Ground		*6780	*6780	*10 880	10 520	8410	7690	6530	5990	5280	4730	4390	4030	4000	3570	12.86	
-1.5 m	*4650	*4650	*7050	*7050	*10 280	*10 280	8230	7520	6410	5870	5200	4640	4350	3990	3780	12.51	
-3.0 m	*5660	*5660	*7670	*7670	*9200	*9200	*7550	7450	*6220	5810	*5090	4610			*3990	*3990	11.96
-4.5 m			*8370	*8370	*7660	*7660	*6420	*6420	*5280	*5280	*4170	*4170			*3590	*3590	11.18
-6.0 m					*5610	*5610	*4800	*4800	*3840	*3840							



Load Point Height



Load Radius Over Front



Load Radius Over Side



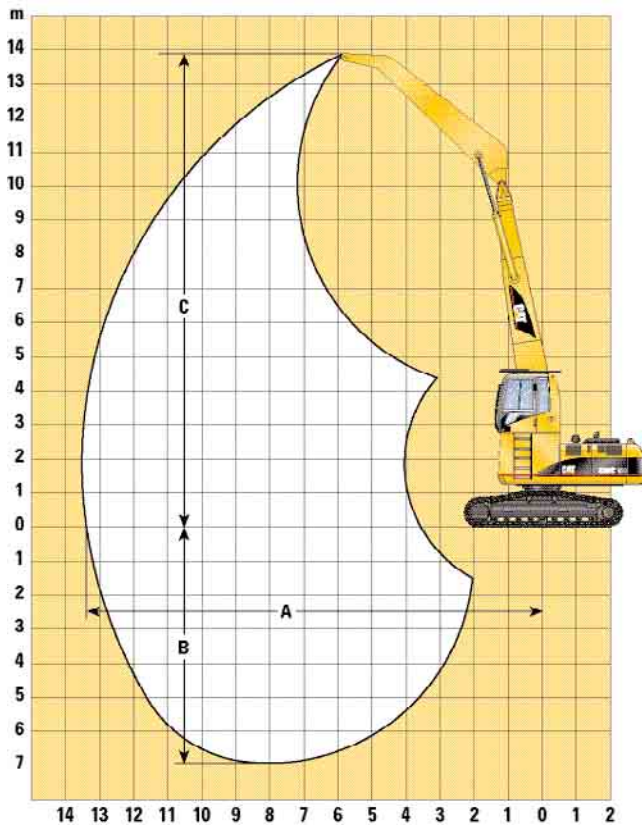
Load at Maximum Reach

\* 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.

## Working Range – 325C MH with Square undercarriage

13 410 mm maximum reach. Material handling front parts (no work tool) with Square undercarriage and heavy duty upper frame.



Boom	8350 mm
Stick	6000 mm
Shoes (triple grouser)	800 mm
Cab riser	1200 mm
Counterweight	7700 kg
<b>A</b> Maximum horizontal reach at ground level	13 410 mm
<b>B</b> Maximum vertical pin depth	6890 mm
<b>C</b> Maximum vertical pin height	13 900 mm

The range is applicable in 360°, and dependent on maximum weight of work tool.

## Lift Capacities – 325C MH with Square undercarriage

Material handling front parts (no work tool) with Square undercarriage and heavy duty upper frame. All weights are in kg.

Boom 8350 mm	Stick 6000 mm		Shoes 800 mm		Counterweight 7700 kg												m			
	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	10.5 m	12.0 m	12.0 m		12.0 m		12.0 m								
13.5 m																		*4510	*4510	7.03
12.0 m							*6040	*6040	*4110	*4110								*4030	*4030	9.04
10.5 m							*6170	*6170	*5680	*5680								*3810	*3810	10.46
9.0 m							*6240	*6240	*5690	*5690	*5240	*5240						*3710	*3710	11.51
7.5 m							*6490	*6490	*5820	*5820	*5290	*5290	*4360	*4360	*3690	*3690		*3690	*3690	12.29
6.0 m					*8070	*8070	*6900	*6900	*6060	*6060	*5420	5400	4690	4320	*3740	*3740		*3740	*3740	12.85
4.5 m			*11 620	*11 620	*8990	*8990	*7410	*7410	*6350	*6350	*5570	5230	4590	4220	*3850	3600		*3850	3600	13.20
3.0 m			*13 490	*13 490	*9910	*9910	*7910	*7910	*6630	6420	5490	5050	4480	4110	3770	3450		3770	3450	13.38
1.5 m			*10 570	*10 570	*10 540	*10 540	*8280	7910	6650	6180	5310	4880	4360	4000	3700	3390		3700	3390	13.39
Ground			*7600	*7600	*10 670	10 380	8290	7560	6410	5990	5160	4730	4270	3910	3710	3400		3710	3400	13.23
-1.5 m	*4670	*4670	*7230	*7230	*10 270	*10 080	8060	7340	6250	5870	5060	4620	4210	3850	3820	3490		3820	3490	12.89
-3.0 m	*5400	*5400	*7480	*7480	*9380	*9380	*7590	7230	6160	5810	5000	4570	*4120	3830	*3850	3690		*3850	3690	12.36
-4.5 m			*7910	*7910	*8030	*8030	*6630	*6630	*5420	*5420	*4380	*4380			*3550	*3550		*3550	*3550	11.61
-6.0 m					*6180	*6180	*5210	*5210	*4220	*4220	*3130	*3130			*3050	*3050		*3050	*3050	10.59

Load Point Height

Load Radius Over Front

Load Radius Over Side

Load at Maximum Reach

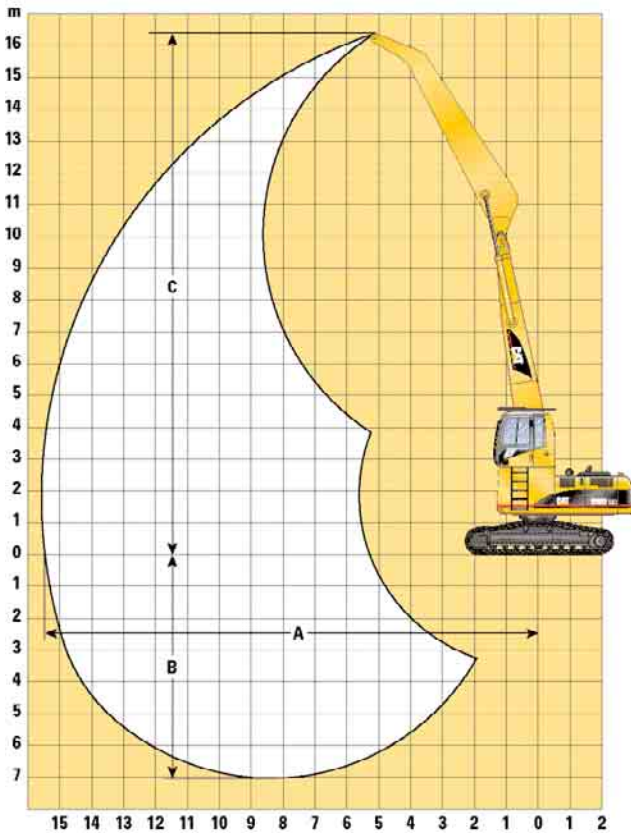
\* Limited by hydraulic rather than tipping load.

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.



# Working Range – 325C MH with Square undercarriage

15 500 mm maximum reach. Material handling front parts (no work tool) with Square undercarriage and heavy duty upper frame.



Boom	8850 mm
Stick	7420 mm
Shoes (triple grouser)	800 mm
Cab riser	1200 mm
Counterweight	7700 kg
<b>A</b> Maximum horizontal reach at ground level	15 500 mm
<b>B</b> Maximum vertical pin depth	7050 mm
<b>C</b> Maximum vertical pin height	16 390 mm

The range is applicable in 360°, and dependent on maximum weight of work tool.

# Lift Capacities – 325C MH with Square undercarriage

Material handling front parts (no work tool) with Square undercarriage and heavy duty upper frame. All weights are in kg.

	Boom 8850 mm		Stick 7420 mm		Shoes 800 mm		Counterweight 7700 kg										m				
	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	10.5 m	12.0 m	13.5 m	15.0 m	15.0 m	15.0 m	15.0 m	15.0 m	15.0 m	15.0 m						
15.0 m					*4810	*4810													*3700	*3700	8.57
13.5 m							*4890	*4890	*3300	*3300									*3300	*3300	10.50
12.0 m							*5850	*5850	*4760	*4760									*3080	*3080	11.94
10.5 m							*6300	*6300	*5710	*5710	*4370	*4370							*2950	*2950	13.04
9.0 m							*6390	*6390	*5900	5870	5010	4630	*3550	*3550					*2880	*2880	13.90
7.5 m					*7310	*7310	*6600	*6600	*6020	5750	4940	4570	4000	3680					*2860	*2860	14.55
6.0 m					*7820	*7820	*6920	*6920	6030	5580	4830	4460	3940	3620	*2910	*2910			*2870	*2870	15.02
4.5 m		*12 660	*12 660	*10 090	*10 090	*8450	*8450	*7300	6880	5820	5370	4690	4320	3850	3530	3200	2920		*2930	2810	15.32
3.0 m				*11 260	*11 260	*9100	8610	7080	6520	5590	5140	4530	4160	3750	3430	3140	2870	2970	2710	2710	15.48
1.5 m				*12 160	11 180	8790	8050	6720	6170	5350	4910	4370	4010	3640	3330	3080	2810	2920	2660	2660	15.49
0 m			*7480	*7480	11 470	10 400	8300	7570	6410	5860	5140	4700	4230	3870	3550	3240	3030	2760	2930	2660	15.35
-1.5 m	*3720	*3720	*6330	*6330	10 960	9900	7950	7220	6160	5610	4970	4530	4120	3750	3480	3170	3000	2720	2980	2710	15.06
-3.0 m	*4290	*4290	*6280	*6280	*10 620	9640	7730	7010	6000	5460	4860	4420	4040	3680	3440	3130			3100	2820	14.60
-4.5 m			*6560	*6560	*10 140	9560	7640	6920	5920	5380	4800	4360	4010	3650	3440	3130			*3270	3000	13.98
6.0 m					*8360	*8360	*7020	6930	*5850	5380	*4800	4370	*3770	3670							



Load Point Height



Load Radius Over Front



Load Radius Over Side



Load at Maximum Reach

\* 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.

## Work Tools Matching Guide\*

Work tools listed below have been calculated with machine in stability position, over-the-side, at maximum horizontal reach and ground level. This guarantees that the tool used at maximum horizontal reach can be handled in all the working envelopes. As a result, when choosing between various work tool models that can be installed onto the same machine configuration, consider work tool application, productivity requirements, and durability. Refer to work tool specifications for application recommendations and productivity information. Check with your Cat dealer for more details on specifications and other work tools sizes.

	Capacity m <sup>3</sup>	HDHW	Square			
		800 mm shoes	800 mm shoes			
		13 040 mm**	13 040 mm**	13 410 mm**	15 500 mm**	
Clamshell Buckets	GOS-35	0.62				
		0.70				
		0.78				
		1.05				
		1.26				×
		1.46	×			×
		1.67	×		×	×
Orange Peel Grapples (5 tines)	GSM-35	0.50				
		0.60				
		0.80				×
		1.00	×			×
	GSH-20	0.60				
		0.80				×
		1.00	×			×
Orange Peel Grapples (4 tines)	GSH-20	0.60				
		0.80				
		1.00				×

**HDHW** 325C MH with Heavy Duty High Wide undercarriage

**Square** 325C MH with Square undercarriage

\* The stick end pin and jumping lines are not included in the base machine and have to be chosen in accordance with the needed tool.

\*\* Maximum reach

Material Density 3000 kg/m<sup>3</sup>

Material Density 1800 kg/m<sup>3</sup>

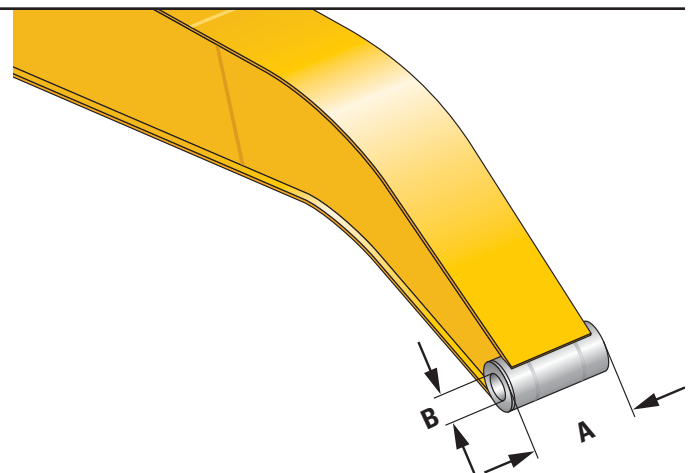
Material Density 1200 kg/m<sup>3</sup>

×

 Not compatible

## Stick Nose Specifications

<b>A</b> Stick nose width	356 mm
<b>B</b> Stick nose inner diameter of bearing	90.27 mm



## Standard Equipment

Standard equipment may vary. Consult your Caterpillar dealer for specifics.

### Operator Environment

Ash tray with cigar lighter  
Air Pre-cleaner with wider pitch radiator core  
Bi-level air conditioner with automatic climate control  
Bolt-on FOGS capability  
Coat hook  
Cooling system, high ambient  
Drink holder  
Emergency exit  
Fixed one piece front windscreen  
Floormat washable  
Fully adjustable suspension seat with headrest  
Heater and Defroster  
Joysticks, adjustable and pre-wired with sliding switches for auxiliary functions  
Light, interior  
Literature holder  
Low fuel indicator light  
Parallel mounted bottom wiper and washer  
Polycarbonate Skylight  
Positive filtered ventilation  
Power supply 12V - 7A  
Pre-wired radio mounting (2)  
Retractable seatbelt  
Return filter clogging alarm  
Stationary skylight  
Storage compartment suitable for a lunch box cooler  
Sun visor  
Travel control pedals with removable hand levers

### Language display Multipro

Gauges for fuel level, engine coolant temperature and hydraulic oil temperature  
Indicator for engine dial setting  
Warning messages  
Filter/fluid change information  
Pre-start Level Check for hydraulic oil, engine oil and coolant  
Working hour information  
Clock with 10 day back-up battery

### Engine

Air pre-cleaner with wider pitch radiator core  
Automatic engine speed control  
Cat 3126B diesel engine, HEUI, turbocharged with air-to-air aftercooler  
Cooling system, high ambient  
Muffler  
Water separator

### Undercarriage

Full-length track guiding guard  
Grease lubricated track-type undercarriage  
HDHW Undercarriage  
Heavy Duty bottom guarding  
Heavy Duty swivel guard  
Hydraulic track adjusters  
Idler and center section track guiding guards  
Shoes:  
800 mm triple grouser  
Two-speed auto shift travel

### MH Front Parts

Maximum reach 13 040 mm

### Hydraulics

Automatic work modes  
Auxiliary hydraulic valve  
Boom and stick regeneration circuit  
Boom lowering control device with SmartBoom and overload warning device  
Fine swing Control  
Hydraulic lines for boom and stick  
Hydraulic neutralizer lever for all controls  
Oil cooler  
Stick lowering control device  
Two-ways Medium Pressure

### Electrical

Alternator, 65 amp  
Heavy Duty maintenance free batteries (2)  
Horn  
Main shut-off switch  
Working lights:  
Boom, both sides  
Cab mounted, two  
Frame mounted, one

### Other Equipment

Automatic swing parking brake  
Counterweight  
Door locks and caps locks with Caterpillar one-key security system  
Mirrors, frame and cab

## Optional Equipment

Optional equipment may vary. Consult your Caterpillar dealer for specifics.

### Operator Environment

Falling object guard  
Hydraulic modulation pedal  
Openable front windshield, 50/50 split  
Seat heater  
Straight travel pedal  
Visor rain protection

### Undercarriage

Square

### MH front parts

Maximum reach 13 410 or 15 500 mm

### Shoes

HDHW and Square undercarriages  
Triple grouser: 600 mm, 600 mm HD, 700 mm HD, 900 mm  
Clipped flat: 600 mm  
50% clipped flat and 50% double grouser: 600 mm  
Clipped double grouser: 600 mm  
Clipped triple grouser: 600 mm

### Engine

Engine 140 kW  
Starting aid  
Cold weather  
Ether

### Electrical

Electric Refueling pump

### Hydraulics

Control generator circuit, without generator  
Fine Filtration Filter  
Synthetic Ester based  
Bio hydraulic oil

# 325C MH Material Handling Hydraulic Excavator

HEHH2878 (02/2003) hr

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

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