

365B MH

Track-Type
Material Handler



Engine

Engine Model	Cat® 3196	
Net Flywheel Power	287 kW	385 hp

Operating Specifications

Max. Reach	18.9 m	61.9 ft
Cat Cab Riser	1.9 m	6.4 ft

Weights

Operating Weight	74 470 kg	164,177 lb
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365B MH Track-Type Material Handler

Versatility, ease of operation, and operator comfort result in the highest levels of productivity.

The Caterpillar® 365B Material Handler

The many features of the 365B Material Handler make it the ideal machine for the scrap and material handling customer who requires maximum stability and the highest levels of production. **pg. 3**

Serviceability

Improved access to service points and easier maintenance results in better machine availability and lower owning and operating costs. **pg. 5**

Complete Customer Support

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. 5**

The Cat 365B Material Handler is specifically designed for the scrap and material handling customer.

This machine uses the most sophisticated manufacturing technology to ensure the highest level of manufacturing quality. This quality, with high Cat design standards, means that the 365B Material Handler will deliver the reliability and productivity you demand from Caterpillar.



The Caterpillar 365B Material Handler

Tough, dependable, and loaded with performance-improving features.



Operator Station. The work station is designed to be quiet and comfortable for the operator, assuring high productivity during a long work day. The Caterpillar designed electronic control system uses VIDS (Vital Information Display System) as the easy interface between the machine and the operator or the serviceman.



1.9 m (6'5") Cab Riser. Cat designed and built cab riser gets your operator to an operating height with excellent visibility for loading or unloading your processing equipment, trucks, rail cars, and barges. Access to the cab is provided by a platform which extends around the riser to allow windshield cleaning. The cab riser can also be manually tilted forward 90 degrees for shipping.



33 kW hydraulically driven generator set. The exclusive Caterpillar genset can power magnets up to 1981 mm (78 in.) in diameter. A Caterpillar patented state-of-the-art electronic magnet controller and generator are linked to provide trouble free service. The new controller completely eliminates traditional contactor maintenance and it is supported and warranted through your Cat dealer.

The Caterpillar 365B Material Handler



Long Square Undercarriage. Long (L) square undercarriage is standard to maximize stability and lifting capacity. The wide track gauge provides the over-the-side stability required to handle heavy loads and improve productivity, but is also retractable to provide a narrow gauge and reduced shipping width.



365B MH two-piece fronts by Caterpillar. 365B MH two-piece fronts by Caterpillar meet your material handling needs with excellent lift performance and working range both in close and at full reach.

- The material handling front offers a maximum horizontal reach of 18.9 m (61'11") from swing center and a maximum vertical pin height of 19.2 m (62'10") at 9.7 m (31'11") from swing center. This front is an excellent match for a two and a half cubic yard scrap grapple.
- The cambered boom barge unloading front offers a maximum horizontal reach of 16.9 m (55'6") from swing center and a maximum vertical pin height of 14.5 m (47'5") at 12.4 m (40'8") from swing center. This front is an excellent match for a three cubic yard scrap grapple.



Innovative Cat 3196 ATAAC diesel engine. Delivers large-engine performance from a compact engine design. The six-cylinder 287 kW (385 hp) engine is turbocharged and air-to-air aftercooled. With high horsepower and low displacement, this engine provides excellent fuel economy and durability that can significantly reduce operating costs.

Material Handler Hydraulic Systems.

Auxiliary hydraulics are specifically designed to meet your hydraulic attachment requirements. The grapple open/close circuit works with the other implement circuits to deliver smooth, simultaneous, multi-function control. Load sensing PPPC (Proportional Priority Pressure Compensation) system now with Caterpillar developed Hydrac electronic actuation combines a proven system with state-of-the-art electronic control for high efficiency and excellent controllability.

Cooling Cores. Easy clean-out engine and hydraulic cooling cores are provided for operating in debris-laden environments. Ample space between the oil cooler and radiator cores maximizes cooling capacity and allows for simple, efficient cleaning.

Serviceability

Simplified service and maintenance features save you time and money.

Faster, easier maintenance. Means improved uptime and a better value.

- Service points are centrally located with easy access to facilitate routine maintenance.

Improved filters and filter locations. Make maintenance easier.

- Hydraulic capsule filters are mounted outside the tank to prevent spills and system contamination during replacement.
- Radial seal main air cleaner has double layered filter element for more efficient filtration. No tools are required to change the element. Operator is alerted to clogged condition by a message on VIDS.

- Pilot hydraulic system filter keeps contaminants away from the pilot system. This system includes a Scheduled Oil Sampling port to simplify sampling.
- Swing and travel motor case drain filter removes contaminants, keeping them from returning to the tank.

Water Separator. Removes water from fuel even when under pressure and is located in the battery compartment for easy access.

Remote greasing block. On the boom and stick and three grease points for the swing bearing deliver grease to hard to reach locations.

Electronic System Control. Has diagnostic capabilities for Cat Dealers' use. A single connection point allows Electronic Technician (ET) to communicate with all machine controllers.

- Dealer service technicians can quickly and easily diagnose and adjust machine components, maximizing uptime.

Complete Customer Support

Cat Dealer services help you operate longer with lower costs.

Cat Dealers. Your Cat Dealer offers a wide range of services that can be set up under a customer support agreement when you purchase your equipment. To help you get the best return on your investment, the dealer will help you choose a plan that can cover everything from machine and attachment selection to replacement.

Selection. Make detailed comparisons of the machines you are considering before you buy. What are the job requirements? What production is needed? What is the true cost of lost production? Your Cat Dealer can give you precise answers to these questions.

Purchase. Look past initial price. 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 owning and operating costs over the long run.

Maintenance. What is the cost of preventative 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 Scheduled Oil Sampling and Technical Analysis help you avoid unscheduled repairs.

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

Product support. You will find nearly all parts at our dealer parts counter. Cat Dealers utilize a worldwide computer network to find in-stock parts to minimize machine down time. Save money with remanufactured parts. You receive the same warranty and reliability as new products at cost savings of 40 to 70 percent.

Engine

Engine Model	Cat 3196	
Net Flywheel Power	287 kW	385 hp
Net Power - ISO 9249	287 kW	385 hp
Net Power - SAE J1349	287 kW	385 hp
Net Power - EEC 80/1269	287 kW	385 hp
Bore	130 mm	5.12 in
Stroke	150 mm	5.91 in
Displacement	12 L	730 in ³

- Ratings at 2000 rpm
- based on standard air conditions of 25°C (77°F) and 99 kPa (29.32 in Hg) dry barometer
- used 35° API gravity fuel having an LHV of 42 780 kJ/kg (18,390 Btu/lb) when used at 30°C (86°F) [ref. a fuel density of 838.9 g/L (7.001 lb/U.S. Gal)]
- 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 needed up to 2300 m (7,500 ft) elevation

Operating Specifications

Max. Reach	18.9 m	61.9 ft
Cat Cab Riser	1.9 m	6.4 ft
Generator Set	33 kW	44.2 hp
Max. Pin Height	19.2 m	62.8 ft
Travel Speed	4.1 kph	2.6 mph

Hydraulic System

Maximum Flow (each of two pumps)	400 L/min	106 gal/min
Max. Pressure Implements	31 991.7 kPa	4,640 psi
Max. Pressure Travel	34 990 kPa	5,075 psi
Max. Pressure Swing	28 960 kPa	4,200 psi
Pilot System Max. Flow	91 L/min	24 gal/min
Pilot System Max. Pressure	4100 kPa	595 psi
Rotate Circuit for Grapple Max. Flow	60 L/min	15.8 gal/min
Rotate Circuit for Grapple Max. Pressure	19 500 kPa	2,830 psi

Weights

Operating Weight	74 470 kg	164,177 lb
Upper	20 607 kg	45,430 lb
Counterweight	14 000 kg	30,865 lb
Undercarriage (includes carbody)	27 585 kg	60,814 lb
Two-Piece Front (with cylinders)	12 278 kg	27,068 lb

- For machines equipped with 61'11" MH front.

Performance

Max. Drawbar Pull	462 kN	103,820 lb
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Dimensions

Operating Height - to Top of Cab	5960 mm	19.6 ft
Shipping Height - Cab Tipped	3972 mm	13 ft
Operating Width	5248 mm	17.2 ft
Shipping Width	4748 mm	15.6 ft
Shipping Length	14 884 mm	48.8 ft
Tail Swing Radius	3920 mm	12.9 ft
Height to Top of Exhaust	4113 mm	13.5 ft
Counterweight Clearance	1759 mm	5.8 ft

Swing Mechanism

Swing Torque	204.5 kN•m	150,850 lb-ft
Swing Speed	6.5 RPM	

Track

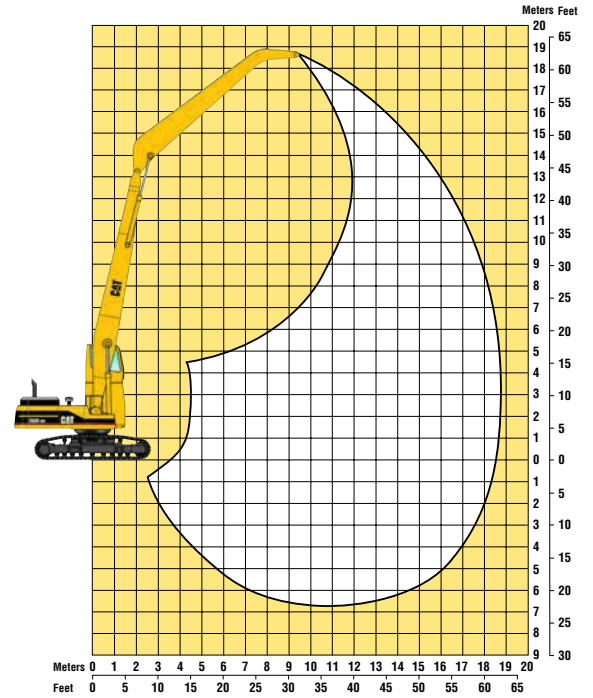
Shoes (each side)	47
Rollers (each side)	8

Service Refill Capacities

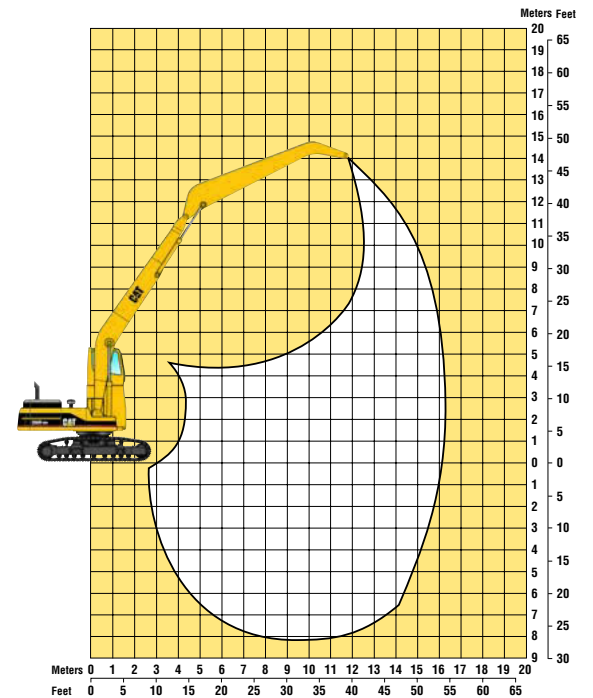
Fuel Tank	800 L	211 gal
Cooling System	95 L	25 gal
Engine Oil	54 L	14.3 gal
Swing Drive	12 L	3.2 gal
Final Drive (each)	15 L	4 gal
Hydraulic System (including tank)	670 L	177 gal
Hydraulic Tank	310 L	82 gal

Working Ranges

Maximum horizontal reach	18.9 m	61'11"
Maximum vertical pin height	19.2 m	62'10"

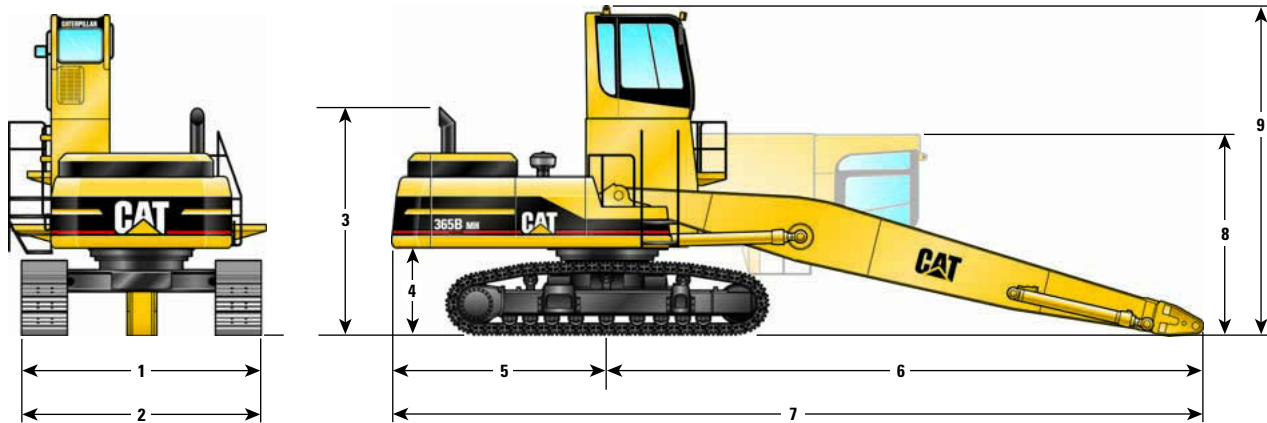


Maximum horizontal reach	16.9 m	55'6"
Maximum vertical pin height	14.5 m	47'5"



Dimensions

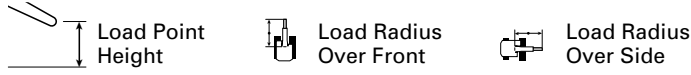
All dimensions are approximate.



	18.9 m (61'11") front	16.9 m (55'6") front
1 Operating Width – track fully retracted	4748 mm (15'7")	4748 mm (15'7")
2 Operating Width – track fully extended	5248 mm (17'3")	5248 mm (17'3")
3 Height to Top of Exhaust	4113 mm (13'6")	4113 mm (13'6")
4 Counterweight Clearance	1759 mm (5'9")	1759 mm (5'9")
5 Tail Swing Radius	3920 mm (12'10")	3920 mm (12'10")
6 Swing Center to End of Boom	10 964 mm (36'0")	10 242 mm (33'7")
7 Rear of Carrier to End of Boom	14 884 mm (48'10")	14 162 mm (46'6")
8 Shipping Height – cab tipped	3972 mm (13'0")	3972 mm (13'0")
9 Operating Height – to top of cab	5960 mm (19'7")	5960 mm (19'7")

Lift Capacities

365B MH with Cat two-piece, 18.9 m (61'11") front

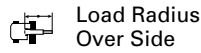
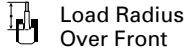
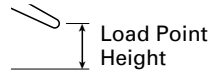


Load Point Height	3.0 m / 10.0 ft		4.5 m / 15.0 ft		6.0 m / 20.0 ft		7.5 m / 25.0 ft		9.0 m / 30.0 ft		10.5 m / 35.0 ft		12.0 m / 40.0 ft		13.5 m / 45.0 ft		15.0 m / 50.0 ft		16.5 m / 55.0 ft		18.0 m / 60.0 ft		
	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	
18.0 m / 60.0 ft												*11 000	*11 000										
												*24,230	*24,230										
16.5 m / 55.0 ft														*9700	*9700								
														*21,270	*21,270								
15.0 m / 50.0 ft														*9480	*9480	*8740	*8740						
														*20,720	*20,720	*19,140	*19,140						
13.5 m / 45.0 ft														*9390	*9390	*8620	*8620	*7980	*7980				
														*20,480	*20,480	*18,830	*18,830	*17,440	*17,440				
12.0 m / 40.0 ft														*9380	*9380	*8590	*8590	*7920	*7920				
														*20,440	*20,440	*18,720	*18,720	*17,240	*17,240				
10.5 m / 35.0 ft														*9460	*9460	*8620	*8620	*7910	*7910		*7270	*7270	
														*20,570	*20,570	*18,760	*18,760	*17,200	*17,200	*17,790	*17,790		
9.0 m / 30.0 ft														*9600	*9600	*8700	*8700	*7930	*7930		*7250	*7250	
														*20,860	*20,860	*18,890	*18,890	*17,240	*17,240	*15,740	*15,740		
7.5 m / 25.0 ft														*11 000	*11 000	*9790	*9790	*8810	*8810	*7980	*7980	*7260	*7260
														*23,850	*23,850	*21,250	*21,250	*19,110	*19,110	*17,330	*17,330	*15,740	*15,740
6.0 m / 20.0 ft														*13 070	*13 070	*11 330	*11 330	*10 000	*10 000	*8930	*8930	*8040	*8040
														*28,330	*28,330	*24,580	*24,580	*21,690	*21,690	*19,380	*19,380	*17,440	*17,440
4.5 m / 15.0 ft														*27 350	*27 350	*20 400	*20 400	*16 310	*16 310	*13 600	*13 600	*11 670	*11 670
														*59,020	*59,020	*44,120	*44,120	*35,320	*35,320	*29,480	*29,480	*25,290	*25,290
3.0 m / 10.0 ft														*11 040	*11 040	*21 650	*21 650	*17 050	*17 050	*14 050	*14 050	*11 940	*11 940
														*27,650	*27,650	*46,850	*46,850	*36,910	*36,910	*30,450	*30,450	*25,880	*25,880
1.5 m / 5.0 ft														*5790	*5790	*19 320	*19 320	*17 480	*17 480	*14 330	*14 330	*12 100	*12 100
														*13,670	*13,670	*46,450	*46,450	*37,850	*37,850	*31,040	*31,040	*26,210	*26,210
0.0 m / 0.0 ft														*5750	*5750	*13 600	*13 600	*17 480	*17 480	*14 350	*14 350	*12 090	*12 090
														*13,250	*13,250	*31,660	*31,660	*37,900	*37,900	*31,090	*31,090	*26,170	*26,170
-1.5 m / -5.0 ft														*3780	*3780	*6880	*6880	*12 740	*12 740	*17 010	*17 010	*14 050	*14 050
														*8550	*8550	*15,670	*15,670	*29,260	*29,260	*36,860	*36,860	*30,420	*30,420
-3.0 m / -10.0 ft																							
-4.5 m / -15.0 ft																							
-6.0 m / -20.0 ft																							

* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on standard SAE J/ISO 10567. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

Lift Capacities

365B MH with Cat two-piece, 16.9 m (55'6") front



		3.0 m/ 10.0 ft		4.5 m/ 15.0 ft		6.0 m/ 20.0 ft		7.5 m/ 25.0 ft		9.0 m/ 30.0 ft		10.5 m/ 35.0 ft		12.0 m/ 40.0 ft		13.5 m/ 45.0 ft		15.0 m/ 50.0 ft		16.5 m/ 55.0 ft		
12.0 m 40.0 ft	kg lb																					
																		*7620 *16,780	*7620 *16,780			
10.5 m 35.0 ft	kg lb																	*7600 *16,640	*7600 *16,640			
9.0 m 30.0 ft	kg lb																	*7700 *16,820	*7700 *16,820	*7350 *16,090	*7350 *16,090	
7.5 m 25.0 ft	kg lb																	*8480 *18,450	*8480 *18,450	*7890 *17,200	*7890 *17,200	*7440 *16,250
6.0 m 20.0 ft	kg lb																	*8860 *19,250	*8860 *19,250	*8140 *17,730	*8140 *17,730	*7590 *16,530
4.5 m 15.0 ft	kg lb									*11 940 *25,840	*11 940 *25,840	*10 390 *22,530	*10 390 *22,530	*9270 *20,130	*9270 *20,130	*8430 *18,320	*8430 *18,320	*7770 *16,910	*7770 *16,910	*7250 *16,090	*7250 *16,090	
3.0 m 10.0 ft	kg lb			*9770 *23,610	*9770 *23,610	*19 930 *43,010	*19 930 *43,010	*15 530 *33,580	*15 530 *33,580	*12 820 *27,760	*12 820 *27,760	*11 000 *23,850	*11 000 *23,850	*9700 *21,030	*9700 *21,030	*8720 *18,940	*8720 *18,940	*7960 *17,280	*7960 *17,280	*7340 *16,250	*7340 *16,250	
1.5 m 5.0 ft	kg lb			*7340 *17,060	*7340 *17,060	*19 530 *46,050	*19 530 *46,050	*16 640 *36,000	*16 640 *36,000	*13 600 *29,450	*13 600 *29,450	*11 550 *25,020	*11 550 *25,020	*10 080 *21,870	*10 080 *21,870	*8980 *19,490	*8980 *19,490	*8120 *17,640	*8120 *17,640	*7400 *16,400	*7400 *16,400	
0.0 m 0.0 ft	kg lb	*3690 *8360	*3690 *8360	*8040 *18,340	*8040 *18,340	*16 100 *37,130	*16 100 *37,130	*17 390 *37,680	*17 390 *37,680	*14 180 *30,710	*14 180 *30,710	*11 980 *25,970	*11 980 *25,970	*10 390 *22,530	*10 390 *22,530	*9190 *19,910	*9190 *19,910	*8230 *17,840	*8230 *17,840			
-1.5 m -5.0 ft	kg lb	*6290 *14,130	*6290 *14,130	*9630 *21,760	*9630 *21,760	*15 840 *36,180	*15 840 *36,180	*17 750 *38,450	*17 750 *38,450	*14 510 *31,440	*14 510 *31,440	*12 240 *26,520	*12 240 *26,520	*10 570 *22,910	*10 570 *22,910	*9290 *20,130	*9290 *20,130	*8230 *17,810	*8230 *17,810			
-3.0 m -10.0 ft	kg lb	*8560 *19,180	*8560 *19,180	*11 430 *25,750	*11 430 *25,750	*16 730 *38,010	*16 730 *38,010	*17 690 *38,320	*17 690 *38,320	*14 560 *31,550	*14 560 *31,550	*12 300 *26,630	*12 300 *26,630	*10 590 *22,930	*10 590 *22,930	*9240 *19,970	*9240 *19,970	*8080 *17,390	*8080 *17,390			
-4.5 m -15.0 ft	kg lb			*13 240 *29,760	*13 240 *29,760	*18 140 *41,120	*18 140 *41,120	*17 200 *37,260	*17 200 *37,260	*14 270 *30,890	*14 270 *30,890	*12 080 *26,120	*12 080 *26,120	*10 380 *22,400	*10 380 *22,400	*8960 *19,290	*8960 *19,290	*7630 *17,300	*7630 *17,300			
-6.0 m -20.0 ft	kg lb			*15 010 *33,710	*15 010 *33,710	*19 760 *42,750	*19 760 *42,750	*16 240 *35,120	*16 240 *35,120	*13 590 *29,340	*13 590 *29,340	*11 530 *24,850	*11 530 *24,850	*9840 *21,140	*9840 *21,140	*8320 *17,730	*8320 *17,730					
-7.5 m -25.0 ft	kg lb							*14 700 *31,640	*14 700 *31,640	*12 390 *26,630	*12 390 *26,630	*10 480 *22,420	*10 480 *22,420	*8780 *18,630	*8780 *18,630							

* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on standard SAE J/ISO 10567. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

Standard Equipment

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

Electrical

- 70 Ampere Alternator
- Light, storage box mounted (one)
- Light, cab mounted (two)
- Light, upper frame (one)

Guards

- Guard, Heavy duty bottom - including swivel guard with bolt head protection and heavy duty track motor guards

Operator Environment

- Automatic climate control with air conditioner, heater and defroster
- Polycarbonate windows except laminated glass in front windshield/tempered glass left upper windows and sliding upper door window
- Cab Riser, 1.9 m, manual tilt
- Alternate rear window exit
- Instrument panel and gauges (VIDS)
- Neutral lever lock out for all controls
- Openable front windshield upper and lower with assist device
- Platform with provisions for two attachment related pedals
- Polycarbonate skylight
- Pressurized cab
- Positive filtered ventilation
- Radio mounting (DIN) with - antenna and mounting for 2 stereo speakers
- Seat KAB 524P with:
 - suspension and adjustable armrest
 - high back and headrest
 - retractable seatbelt (76 mm width)
 - four way adjustable (up-down, front-rear)
- Seat mounted multifunction joystick type (wrist lever) controls (electric signal)
- Start up level check for hydraulic oil, engine oil, and engine coolant
- Storage compartment suitable for lunch box
- Sun shade for skylight and front windshield
- Windshield wipers and washers (vertical type) - lower and upper
- 12V - 7A Power supply with socket
- Travel control pedals with removable hand levers

Power Train

- Diesel Engine - Cat 3196 ATAAC
 - Low emission/low noise version
 - 2300 m/7500 ft altitude capability
 - Air inlet heater for low ambient starting
- Automatic engine speed control with return to idle push button
- Automatic swing parking brake
- Radial seal air filter with Donac lone precleaner
- Separated cooling system with variable speed fan
- Two speed travel with automatic shift change
- Water separator in fuel line

Undercarriage

- Hydraulic track adjusters
- Idler and center section track guiding guards
- Track type sealed undercarriage with:
 - 750 mm double grouser shoes
- Std. Long track roller frames
- Square carbody and undercarriage for stability

Hydraulic Systems

- Boom and stick lowering check valves
- High pressure grapple open and close hydraulic circuit
- Medium pressure aux. hydraulic circuit for powering rotating grapples
- Aux. pump and lines to drive generator
- Separate hydraulic filter with reusable metal tube for filter element

Other Standard Equipment

- Caterpillar Extended Life Coolant at 44% concentration with protection of -29°C (-20°F)
- Door and cap locks plus Caterpillar one key security system
- Electrical source for service light
- Fire wall between pump compartment and engine
- Mirrors - Rearview, Frame-right, Cab-left
- Overheat protection system
- Material handling counterweight, 13.8 T
- High ambient cooling
- Spaced coolers for easy cleaning
- Cat walks left and right hand
- Reinforced upper frame for cab riser
- Material handling boom foot pin in upper hole on frame (145 mm)

Optional Equipment

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

Falling Object Guard

- Front Linkage, 18.9 m (61'11") material handling front
- Front, 16.9 m (55'6") cambered boom, barge unloading front
- Generator, 33 kW hydraulically driven Caterpillar genset
- Grapple, 2.5 cu.yd. rotating 4-tine grapple [18.9 m front]

Grapple, 3 cu.yd. fixed 5-tine grapple [16.9 m front]

- Magnet, 72" magnet (matched to 18.9 m front)
- Magnet, 78" magnet (matched to 16.9 m front)
- Track, 30" double grouser, flat

365B MH Track-Type Material Handler

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

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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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