Cat® 707

Wide Body Truck

The new Cat® 707 is the first model in Cat's wide-body truck lineup, a new product family that broadens Cat hauling systems' portfolio. Designed to be durable and a cost-effective rebuild option, the Cat 707 has been engineered, manufactured, and tested in the field using the latest technologies to ensure your truck is ready for work. Built for longer life and higher uptime, the new Cat 707 features a fully integrated Cat powertrain, including a Cat C13 engine, Cat CX31RT automatic transmission, and proprietary Cat axles. Paired with Cat dealer Customer Value Agreements, the new Cat 707 is designed to be rebuilt once and to accommodate mid-life overhaul of Cat powertrain components on its durable chassis. With the Cat 707 truck in your hauling fleet, you'll be more productive thanks to an ideal pass match to Cat loading tools, spend less time and money on maintenance and repairs, and enjoy enhanced safety features such as three levels of integrated braking and retarding systems and an optional fully integrated rollover protective structure (ROPS) cab.

Achieve Longer Durability and Higher Uptime

- Fully integrated Cat powertrain components.
- Cat C13 engine with a standard integrated engine brake set at high rating.
- Cat CX31RT fully automatic transmission with an optional integrated hydraulic retarder.
- Cat proprietary axles.
- Cat off-highway truck ROPS cab (optional attachment).
- Integrated Cat powertrain controllers.
- Cat wiring and electric harnesses.

Designed for Performance

- Ideal pass match with Cat loading tools.
- Large loaders: 986 high lift is best suited for clearance and 988GC for optimal pass match.
- Large excavators: 350 platform is ideal for versatility, 374 delivers optimal all round fleet performance and 395 optimal pass match for maximum productivity.
- The three levels of brake and retardation with integrated Cat engine brake and Cat hydraulic retarder deliver superior downhill loaded control for faster and safer hauling cycles.

Built To Be Rebuilt Once

- The Cat 707 is engineered with a unique philosophy: it's built to be rebuilt once, offering consistent mechanical availability and longevity through a second lifecycle.
- The fully integrated Cat powertrain components mounted into a durable reinforced chassis, coupled with flexible Cat dealer Customer Value Agreements, achieve higher uptime during working life and permit a mid-life powertrain overhaul.

Superior Safety and Comfort Standards

- Superior brake performance meets the latest brake standards – ISO 3450:2011.
- The ground-level engine shutoff switch stops all fuel to the engine when activated and shuts down the machine safely.
- Sturdy 4-point mounted cabin meets optional rollover protective structure (ROPS), with standard falling objects protective structure (FOPS).
- Secondary steering activates automatically in case of primary system failure. (Optional Attachment)
- Reverse camera for safer maneuvering. (Optional Attachment)
- Left-side operator seat placement, with optional right-sided instructor seat available, provides easier operation and comfort to the operator and trainer.
- Easy automatic shifting with simple gear selection transmission controls.
- Cab temperature controls for better operator comfort. Standard heat and A/C.

Reduced Maintenance Costs and Other Costs

- Grouped service points.
- Parts commonality with other Cat equipment with common C13 engine, CX31RT transmission and common cab.
- LED lights provide longer life with brighter illumination, consume less power, and are more resistant to vibration or water damage.

Application Versatility

- Get the right body option with a standard or heavy-duty configuration and choose from multiple body sizes at 40 or 42 m^3 options for your material and jobsite needs.
- For haul profiles including slopes, an optional hydraulic retarder is available, offering excellent truck retardation characteristics.

CAT®

Standard and Optional Equipment

Standard and optional equipment may vary. Consult your Cat® dealer for details.

	Standard	Optional
POWERTRAIN		
The Cat 707 with the C13B engine meets China Nonroad Stage IV emission standards	✓	
Braking system: service dry air brakes, parking brake	✓	
Cat engine brake	✓	
Cat CX31RT transmission 6-speed automatic powershift	✓	
Cat hydraulic retarder fully integrated in CX31RT transmission		✓
Secondary steering		✓
ELECTRICAL		
LED lights	✓	
LED lights high LM		✓
Jump Starter		✓
Radio		✓
Radio ready	✓	
OPERATOR ENVIRONMENT		
Cat operator seat with 2-point seatbelt	✓	
Cat operator seat air suspended		✓
Cat operator seat with 3-point seatbelt		✓
Rear view camera		✓
Cat cab	✓	
Cat cab with operator and trainer rollover protective structure (ROPS)		✓
Cat cab with operator and trainer falling object protective structure (FOPS)	✓	
Trainer seat		✓
DCDC converter		✓
24V power source	✓	
TECHNOLOGY PRODUCTS		
Product link	✓	
Network manager		✓
24v - 12v converter		✓

	Standard	Optional
BODY		
Tailgate body – heavy-duty 40m³	✓	
Tailgate body – heavy-duty 40m³		✓
Tailgate body – heavy-duty 42m³		✓
Tailgate body – heavy-duty 42m³		✓
Body heat		✓
Rock ejector		✓
WEATHER		
Weather Package – High Ambient Fluids		✓
Weather Package x2 Battery	✓	
Cold Weather Package-lite (CNR4) x2 Battery		✓
Cold Weather Package (CNR4) x4 Battery		✓
OTHER		
Spare tire Bias		✓
Spare tire Radial		✓
Spare tire Radial Advance (Tubeless) (16.00R25 GLR29PRO normal distance)		✓
Spare tire Radial Advance (High TPKH)		✓
Spare tire Radial Advance (Tubeless) (GLR32 long distance)		✓
Wheel chocks		✓
Air Conditioning and Heat	✓	

Technical Specifications

Engine		
Engine Model	C13	C13B
Rated Power W/Fan	400kw @ 2100 rpm	358kw @ 2000 rpm
No. Cylinders	6	6
Bore and Stroke	130 mm x 157 mm	130 mm x 157 mm
Displacement	12.5 L	12.5 L
High Idle Speed	2,200 rpm	2,200 rpm
Low Idle Speed	750 rpm	750 rpm
Net Torque	2450 N.m	1896 N.m
Net Torque Rise	35%	35%
Maximum Altitude At Full Power	3048 m	2651 m
Air Cleaner – No. Used	2	2
Type	Dry	Dry

Brakes	
Rear	
Type	Drum
Actuation	Air
Parking	
Type	Drum
Actuation	Spring
Slope Holding Ability	15 %
Secondary	
Type	Drum
Actuation	Spring
Front	
Type	Drum
Actuation	Air
Brake System	air actuated drum brakes
Brake standard	ISO 3450

Weight Distributions – Approximate		
Machine Weight	T3 (W/ 40 m^3 General plate body)	
Total Empty Machine Weight with Body	35 500 to 36 500 kg pending options	
Front Axle	Loaded 24%	Empty 37%
Rear Axle	Loaded 76%	Empty 63%

Service Refill Capacities		
Fuel Tank	540 L	143 gal
Cooling System	53 L	14 gal
Differentials and Final Drives	111 L	29 gal

Body-Tailgate		
Metric tonnes	66	
Cubic Meters - Struck (SAE)	30	33
Heaped 2:1 (SAE)	40 cm	42 cm
Plate Thickness	Heavy Duty	Standard Duty
Floor	16 mm	16 mm
Side Walls	10 mm/12 mm	10 mm/12 mm
Front Walls	10 mm	10 mm
Canopy Backwall	12 mm	12 mm
Canopy Top	6 mm	6 mm

Suspension	
Front	Hydraulic strut
Rear	Leaf spring

Steering System	
Turning Diameter on Front Wheel Track	23.7 m
Vehicle Clearance Turn Circle	24.1 m
2nd steering (optional)	Electric

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Technical Specifications

Hoist System

Raise Time	20s
Lower Time	20s

Sound

The operator sound pressure level, 82 dB(A), measured according to ISO 6394:2008 and ISO 6396:2008.

Steering

Steer angle (inner turning/outer turning)	35°/30°
Turning Diameter – Front	106.3 ft/32.4 m
Steering Standards	ISO 5010:2019*
Travel Speeds – Km/h Loaded	707
Transmission Gear	

*If equipped with optional secondary steering.

Cab ROPS/FOPS

ROPS Standards (optional)	ROPS (Rollover Protective Structure) meets ISO 3471:2008 for Operator and ISO 13459:2012 for Trainer.
FOPS Standards	FOPS (Falling Objects Protective Structure) meets ISO 3449:2005 Level II for Operator and ISO 13459:2012 Level II for Trainer.

Safety Compliance Criteria

System	Compliance Standards
Rollover Protective Structure (ROPS)	ISO 3471 : 2008
Falling Object Protective Structure (FOPS)	ISO 3449 : 2005 Level II
Brakes	ISO 3450 : 2011
Seat Belts	ISO 6683 : 2005
Warning Alarms	ISO 9533 : 2010
Steering	ISO 5010 : 2019
Visibility	ISO 5006 : 2017
Lighting	ISO 12509 : 2004
Emc	ISO 13766 : 2018

Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a or R1234yf. Refer to the machine labeling for identification of the gas.

- If equipped with R134a (Global Warming Potential = 1430), the system contains 1.9 kg (4.2 lb) of refrigerant which has a CO_2 equivalent of 2.71 metric tonnes (2.674 tons)
- If equipped with R1234yf (Global Warming Potential = 0.501), the system contains 1.85 kg (4.1 lb) of refrigerant which has a CO_2 equivalent of 0.001 metric tonnes (0.001 tons).

Dimensions (Approximate)

	Dual Slope Floor
Height, Top Of Cab, Empty	3340 mm
Height, Top Of Cab, Loaded	3255 mm
Length, Overall	9075 mm
Length, Inside Body	5900 mm
Length, Overall Body	7960 mm
Wheelbase 1st	3830 mm
Wheelbase 2nd	1720 mm
Rear Axle To Tail	1775 mm
Front Axle To Head	1760 mm
Frame Clearance, Empty	622 mm
Frame Clearance, Loaded	490 mm
Dump Clearance	670 mm
Height, Loading – Empty	3560 mm
Depth, Inside Body – Maximum	1635 mm (42m³)
Height Overall, Body Raised	8240 mm
Width, Operating	4410 mm
Engine Guard Clearance – Empty	725 mm
Width, Front Tire Centerline	2830 mm
Width, Outside Front Tires	3225 mm
Width, Working Light Housing	3975 mm
Width, Overall Body Canopy	3650 mm
Width, Outside Body Tail	3680 mm
Width, Inside Body	3400 mm
Height, Front Canopy, Empty	3930 mm
Height, Front Canopy, Loaded	3820 mm
Rear Axle Rod Clearance	400 mm
Width, Rear Dual Tire Centerline	2670 mm
Width, Overall Tire	3670 mm
Width, Approach Angle	28°
Width, Departure Angle	51°
Tank Clearance, Empty	690 mm
Tank Clearance, Loaded	595 mm
Tilting Angle, Body Lift	47°+/-1°

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