

Cat[®] TH3510D

AG HANDLER TELEHANDLER

FEATURES:

- Engine Options Choose the right engine for you three fuel efficient Cat® engines are available to suit a wide range of applications.
- Transmission Options The Cat TH3510D features a six speed power shift transmission to give exceptional performance when towing trailers on the road.
- Frame, Boom and Linkage Designed for durability. Easy to access greasing points mean a long, trouble free life for the machine. A Z-bar linkage delivers powerful breakout forces and fast cycle times.
- Powerful Hydraulics A variable displacement piston pump matched to a high performance flow sharing valve makes multi functioning easy. The load sensing system means excellent fuel economy, as the pump only works when required.
- Cab The cab is designed with the operator in mind with a multi function joystick and a comfortable working environment. The unique "Operator Preferences" feature allows the machine to be tuned to suit individual operators. Options include a heated air suspension seat, large display screen with pre-loaded load charts, rearview camera, reversing sensors and air conditioning.

Specifications

Engine

	Standard	Option 1	Option 2
Model*	Cat C3.4B	Cat C4.4 ACERT™	Cat C4.4 ACERT
Gross power	83 kW	93 kW	106 kW
	(112 hp)	(124 hp)	(142 hp)
Maximum torque	460 N⋅m	530 N⋅m	560 N⋅m
	(339 lbf-ft)	(391 lbf-ft)	(413 lbf-ft)
Bore	99 mm (3.8 in)	105 mm (4.1 in)	105 mm (4.1 in)
Stroke	110 mm (4.3 in)	127 mm (5 in)	127 mm (5 in)
Displacement	3.4 L (207 in ³)	4.4 L (269 in ³)	4.4 L (269 in ³)

^{*}Meets U.S. EPA Tier 4 Final emission standards.

Weights

Operating Weight with Carriage and Forks*	9149 ka	20,170 lb
		,

^{*}Represents machine configuration of 106 kW (142 hp) engine on standard 15.5/80-24 16 ply tires.

Operating Specifications

operating oppositionations			
Rated Load Capacity	3493 kg	7,700 lb	
Maximum Lift Height	9.8 m	32.1 ft	
Capacity at Maximum Lift Height	635 kg	1,400 lb	
Maximum Forward Reach	6.6 m	21.6 ft	
Capacity at Maximum Forward Reach	578 kg	1,275 lb	
Outside Turning Radius over Tires	3.85 m	12.6 ft	
Outside Turning Radius over Forks	4.88 m	15.9 ft	

Service Refill Capacities

Fuel Tank	148 L	40 gal
Diesel Exhaust Fluid	19 L	5.0 gal
Hydraulic Tank	120 L	31.7 gal

Brakes

Service Brakes	Boost assisted on front and rear brakes
Parking Brake	Mechanical lever on front axle

Transmission*

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Туре	Cat PG124 si power shift	Cat PG124 six speed power shift	
Forward			
1	5.7 km/h	3.4 mph	
2	8.6 km/h	5.3 mph	
3	11.2 km/h	6.9 mph	
4	16.6 km/h	10.3 mph	
5	25.3 km/h	15.7 mph	
6	40 km/h	24.9 mph	
Reverse			
1	5.7 km/h	3.4 mph	
2	11.2 km/h	6.9 mph	
3	25.3 km/h	15.7 mph	

^{*}Travel speed is subject to machine configuration.



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Electrical

Battery	1 × 12V 1,000 CCA Battery
Alternator Output	12V/150A

Hydraulic System

System Type	Load Sensing	g, Closed Center	
Pump Type	Variable Flov	Variable Flow, Axial Piston	
Maximum Pump Capacity	140 L/min	36.9 gal/min	
System Pressure	260 bar	3,770 psi	
Auxiliary Hydraulic Pressure	245 bar	3,553 psi	
Auxiliary Hydraulic Flow			
Boom Head – Intermittent	95 L/min	25 gal/min	
Boom Head – Continuous	95 L/min	25 gal/min	
Machine Rear	80 L/min	21 gal/min	

Boom Performance

Doom i onomiano		
Boom Up	8 sec	
Boom Down	6.5 sec	
Tele Out	11 sec	
Tele In	10.5 sec	
Crowd Forward (Dump)	3 sec	
Crowd Backward	3.5 sec	
Combined		
Up and Out	24 sec	
Down and In	12.8 sec	

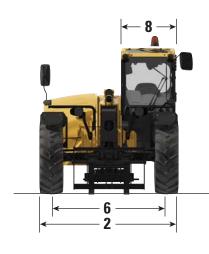
Axles

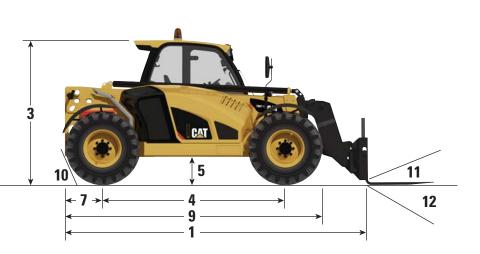
Front Axle	High bias, planetary reduction hubs with limited slip differential
Rear Axle	Open differential with planetary reduction hubs

Tires	
Standard	Mitas 15.5/80-24 16 ply
Options	Michelin 15.5 R25 XHA
	Michelin 460/70 R24 XMCL
	Michelin 500/70 R24 XMCL
	Michelin 440/80 24 Power CL
	Michelin 400/80 24 Power CL
	Michelin 460/70 R24 Bibload
	Firestone Duraforce
	13 × 24 Solid Tires

Performance

renomiance		
Drawbar Pull		
83 kW/111.3 hp Engine	92 kN	20,682 lbf
92.6 kW/124.1 hp Engine	88 kN	19,783 lbf
106 kW/142.1 hp Engine	97 kN	21,806 lbf
Boom Breakout Force	41 kN	9,217 lbf
Bucket Breakout Force	62 kN	13,938 lbf
Quick Coupler Rotation	152°	
Noise Levels		
In Cab	74 dB(A)	
External	106 dB(A)	
Towable Mass		
Hydraulically Braked	12 000 kg	26,455 lb





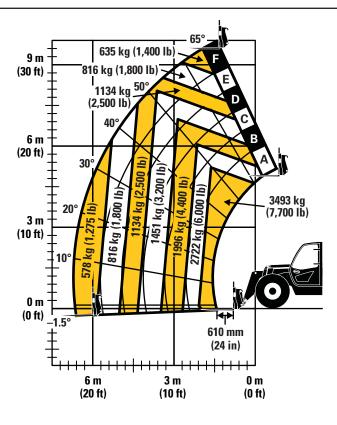
Dimensions (All dimensions are approximate.)

1 Overall Length to Front of Carriage	5300 mm	17.4 ft
2 Overall Width (standard tires)	2382 mm	7.8 ft
3 Overall Height (standard tires)*	2475 mm	8.1 ft
4 Wheelbase	3165 mm	10.3 ft
5 Ground Clearance	430 mm	1.4 ft
6 Track	1988 mm	6.5 ft

7	Overhang	1000 mm	3.3 ft
8	Cab Width	900 mm	3.0 ft
9	Machine Length	5260 mm	17.3 ft
10	Departure Angle	60°	
11	Maximum Fork Crowd Angle	24°	
12	Maximum Fork Dump Angle	128°	

^{*}Add 200 mm (7.9 in) for beacon. Add 40 mm (1.6 in) for top guard.

Load Chart and Dimensions



IMPORTANT

Rated lift capacities shown are with machine equipped with carriage and pallet forks. The machine must be level on a firm surface with undamaged, properly inflated tires. Machine specifications and stability are based on rated lift capacities at specific boom angles and boom lengths. (If specifications are critical, the proposed application should be discussed with your dealer.)

DO NOT exceed rated lift capacity loads, as unstable and dangerous machine conditions will result.

DO NOT tip the machine forward to determine the allowable load.

Use only approved attachments with proper material handler model/attachment load capacity charts displayed in the operator's cab. OSHA requires all rough terrain forklift operators be trained according to OSHA 29 CFR 1910.178 (1).

Due to continuous product improvements, machine specifications and/or equipment changes may be made without prior notification. This machine meets or exceeds ANSI/ITSDF B56.6-2005 as originally manufactured for intended applications.

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Standard and Optional Equipment (Standard and Optional equipment may vary. Consult your Cat dealer for details.)

	Standard	Optional
Cab ROPS and FOPS		
Reversing Camera	_	✓
Reversing Sensors	_	✓
Large Electronic Display Screen	_	✓
Sunscreen	✓	
Mechanical Suspension Seat with Seat Belt	✓	
Air Suspension Seat with Seat Belt	_	✓
Heated Air Suspension Seat with Seat Belt	_	✓
Roof Wiper	✓	
Screen Guard	_	✓
Roof Guard	✓	
Heater/De-mister	✓	
Air Conditioning	_	✓
Engine Speed Set	✓	
Multi Function Joystick Controller with FNR	✓	
Column Mounted FNR Lever	_	✓
Front and Rear Windscreen Wipers	✓	
Mechanical Parking Brake	✓	
SAHR Parking Brake	_	✓
Electrical		
1 × 12V 1,000 CCA Battery	✓	_
2 × 12V 815 CCA Batteries	_	✓
Block Heater 110 Volt	_	✓
Work Lights, 4 × Cab Mounted (2 front, 2 rear) 2 × Boom Mounted	_	✓
Product Link TM Ready, Version 641		√
Seven (7) Pin Trailer Service		√
Reverse Alarm	√	
Rotating Beacon		√
Other Equipment		
Boom Brushes	✓	_
Ride Control with Boom Float		√
Single Auxiliary Service to Boom Head	√	
2 nd Auxiliary Service to Boom Head		√
Auxiliary Service to Rear		√
Rear Hitch Mirror, Flat		√
Rear Hitch Mirror, Convex		√
Tool Box	_	✓

	Standard	Optional
Tires		
Mitas 15.5/80-24 16 ply	✓	
Michelin 460/70 R24 XMCL	_	✓
Michelin 500/70 R24 XMCL	_	✓
Michelin 400/80 24 Power CL	_	✓
Michelin 440/80 24 Power CL	_	✓
Michelin 460/70 R24 Bibload	_	✓
Michelin 15.5 R25 XHA	_	✓
Firestone Duraforce	_	✓
13 × 24 Solid Tires	_	✓
Tow Hitches		
Retrieval Hitch	_	✓
Hydraulic Pick Up Hitch	_	✓
EEC Manual Hitch	_	✓
EEC Automatic Hitch	_	✓
EEC Automatic Hitch with Piton	_	✓
Trailer Braking Valve	_	✓
Quick Couplers		
Manual Cat "IT" Interface	✓	_
Hydraulic Cat "IT" Interface	_	✓
Work Tools		
Floating Fork Carriage	_	✓
ISO Class 3 Fixed Fork Carriage	_	✓
Side Shift Carriage	_	✓
1 m³ (1.3 yd³) General Purpose Bucket	_	✓
1.5 m ³ (1.95 yd ³) Rehandling Bucket	_	✓
1.0 m³ (1.3 yd³) Multi Purpose Bucket	_	✓
2.0 m³ (2.6 yd³) Grain Bucket	_	✓
2.5 m³ (3.25 yd³) Grain Bucket	_	✓
3.0 m³ (3.9 yd³) Grain Bucket	_	✓
Grapple Bucket	_	✓
Muck Fork and Grapple		✓
Bale Handler		✓
Sweeper Collector	_	✓

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

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