

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 kg	20,170 lb

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

Operating Specifications

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 assist and rear bra	
Parking Brake	Mechanical front axle	lever on
Transmission*		
Туре	Cat PG124 s power shift	ix speed
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.



TH3510D Ag Handler Telehandler

Electrical			Axles		
Battery Alternator Output	1 × 12V 1,000 CCA Battery 12V/150A		Front Axle	High bias, planetary reduction hubs with limited slip differential	
Hydraulic System			Rear Axle		rential with
System Type	Load Sensir	ıg, Closed Center		planetary	reduction hubs
Pump Type	Variable Flo	w, Axial Piston	Tires		
Maximum Pump Capacity	140 L/min	36.9 gal/min	Standard	Mitac 15 5	/80-24 16 ply
System Pressure	260 bar	3,770 psi	Options		5.5 R25 XHA
Auxiliary Hydraulic Pressure	245 bar	3,553 psi	Options		60/70 R24 XMCL
Auxiliary Hydraulic Flow					00/70 R24 XMCL
Boom Head – Intermittent	95 L/min	25 gal/min			40/80 24 Power CL
Boom Head – Continuous	95 L/min	25 gal/min			00/80 24 Power CL
Machine Rear	80 L/min	21 gal/min		Michelin 4 Firestone l	60/70 R24 Bibload Duraforce
Boom Performance				13 × 24 So	lid Tires
Boom Up	8 sec		Performance		
Boom Down	6.5 sec		Drawbar Pull		
Tele Out	11 sec		83 kW/111.3 hp Engine	92 kN	20,682 lbf
Tele In	10.5 sec		92.6 kW/124.1 hp Engine	88 kN	19.783 lbf
Crowd Forward (Dump)	3 sec		106 kW/142.1 hp Engine	97 kN	21,806 lbf
Crowd Backward	3.5 sec		Boom Breakout Force	41 kN	9.217 lbf
Combined			Bucket Breakout Force	62 kN	13,938 lbf
Up and Out	24 sec		Quick Coupler Rotation	152°	10,000 1.21
Down and In	12.8 sec		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.)

6

2

1 Overall Length to Front of Carriage	5300 mm	17.4 ft	7 Overhang	1000 mm 3.3 ft	
2 Overall Width (standard tires)	2382 mm	7.8 ft	8 Cab Width	900 mm	3.0 ft
3 Overall Height (standard tires)*	2475 mm	8.1 ft	9 Machine Length	5260 mm	17.3 ft
4 Wheelbase	3165 mm 10.3 ft 10 Departure Angle		60	0	
5 Ground Clearance	430 mm	1.4 ft	11 Maximum Fork Crowd Angle	mum Fork Crowd Angle 24°	
6 Track	1988 mm	6.5 ft	12 Maximum Fork Dump Angle	128°	

*Add 200 mm (7.9 in) for beacon.

Add 40 mm (1.6 in) for top guard.

TH3510D Ag Handler Telehandler

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

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

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

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

© 2018 Caterpillar All rights reserved

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

CAT, CATERPILLAR, SAFETY.CAT.COM, their respective logos, "Caterpillar Yellow" and the "Power Edge" trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

AEHQ8040-01 (01-2018) Replaces AEHQ8040 (Americas North)

