

# TH83

Telehandler



Rated Capacity	3628 kg	8,000 lb
Max Lift Height	12.5 m	41 ft
Capacity at Max Height	3175 kg	7,000 lb
Max Forward Reach	8.2 m	27 ft

Cat <sup>®</sup> 3054 T Engine		
Gross Power	78 kW	105 hp
Operating Weight	10 375 kg	22,872 lb
Turning Radius	3.8 m	12 ft 6 in
Frame Leveling	± 10 degrees	

## Engine

Caterpillar 3054T turbocharged, watercooled, 4-stroke, 4-cylinder diesel engine.

Ratings at 2200 rpm	kW	hp
Gross Power	78	105
Net Power (SAE J1349)	75	101

Ratings at 1600 rpm	Nm
Net Torque	365 Nm (269 ft-lb)

### Dimensions

Bore	100mm (3.94 in)
Stroke	127mm (5 in)
Displacement	4.0 liter (243 in <sup>3</sup> )

## Hydraulic System

Load-sensing, variable displacement, axial piston pump. Flow share valve for simultaneous operation of boom functions.

Single lever pilot operated joystick. Lock valves on all load holding cylinders.

System Pressure	250 bar (3625 psi)
Max Pump Flow	105 l/min (28 gpm)
Auxiliary Hyd Flow	71/min (18.8 gpm)
Auxiliary Pressure	124 bar (1800 psi)

### Hydraulic Cycle Time (approx.)

Boom Raise	13 sec
Boom Lower	10 sec
Tele Out	15 sec
Tele In	12 sec

## Refill Capacities

Fuel Tank	117 L (31 gal)
Hydraulic Tank	136 L (36 gal)

## Brakes

### Features

- Fully enclosed oil disc brakes on both axles
- Power-assisted, foot-operated service brakes
- Selectable transmission disconnect on foot-brake operation
- Hand-operated modulating park-brake operates on front axle brake discs
- Transmission interlock on parking brake

## Powertrain & Axles

All mechanical, full time all wheel drive, powershift transmission with 4 forward and 3 reverse gears.

- Outboard planetary drive axles
- Free oscillating rear axle, fixed front axle
- Front axle differential lock

## Wheels & Tires

Four, equal sized wheels and tires with axle mounted, close fitting fenders.

### Standard:

Construction Tread 14.00-24 12PR

### Optional:

Construction Tread 17.5-25 12PR

## Standard Equipment

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

Air Cleaner, radial seal with indicator  
Alternator, 55amp (12 volt)  
Antifreeze (-37° F)  
Auxiliary hydraulics at boom head  
Back-up alarm  
Battery, 12 volt, 950CCA  
Differential lock (front axle)  
Frame leveling  $\pm 10^\circ$  with lock valve  
Instrumentation:

Engine Coolant gauge  
Transmission Oil temperature gauge  
Fuel level gauge  
Warning lights, 6 total  
Hydraulic quick coupler  
Joystick control, pilot operated  
Mudguards (4)  
Mirror, rear view (1), right side  
Radiator dust screen  
Retrieval hitch with pin  
ROPS/FOPS canopy  
Seat, suspension, with 3 in. retractable seat belt  
Engine starting system, cold weather  
Steering column tilt  
Steering system, three modes  
Transmission oil cooler  
Transport tie-down points

## Boom

### Features

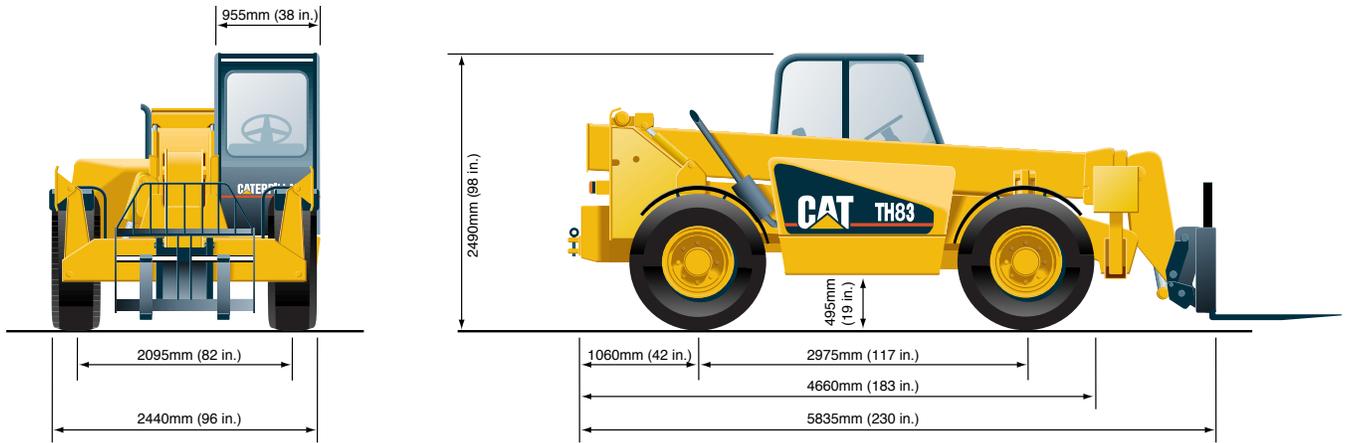
- Synchronized, three-section boom with hydraulic work tool coupler
- Non-metallic, adjustable boom wear pads
- Lock valves on all load holding cylinders
- 140° fore/aft coupler tilt range
- Selected fore/aft coupler tilt maintained automatically

## Work Tools

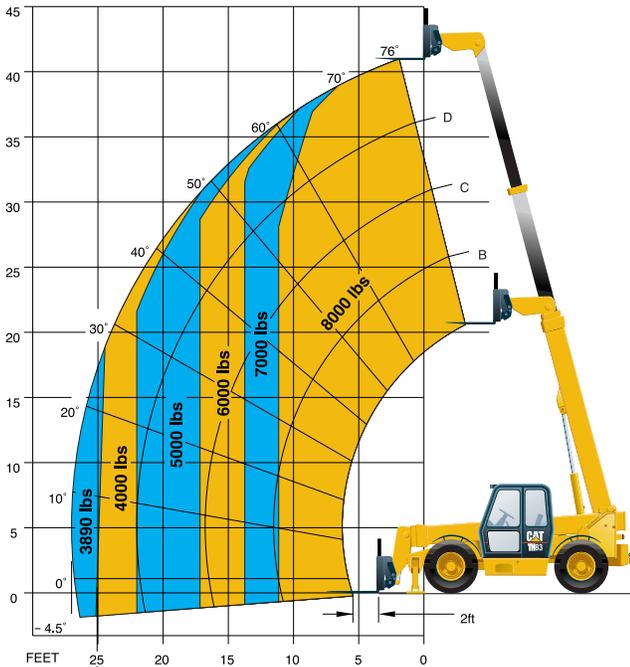
Choose from a wide variety of work tools designed specifically for Telehandlers.

- General Purpose Bucket
- Grapple Bucket
- Light Material Bucket
- Material Handling Bucket
- Multi Purpose Bucket
- Fixed Carriages
- Rotate Carriages
- Block Forks
- Pallet Forks
- Lifting Hook
- Self Tipping Hopper
- Truss Boom
- Access Platform

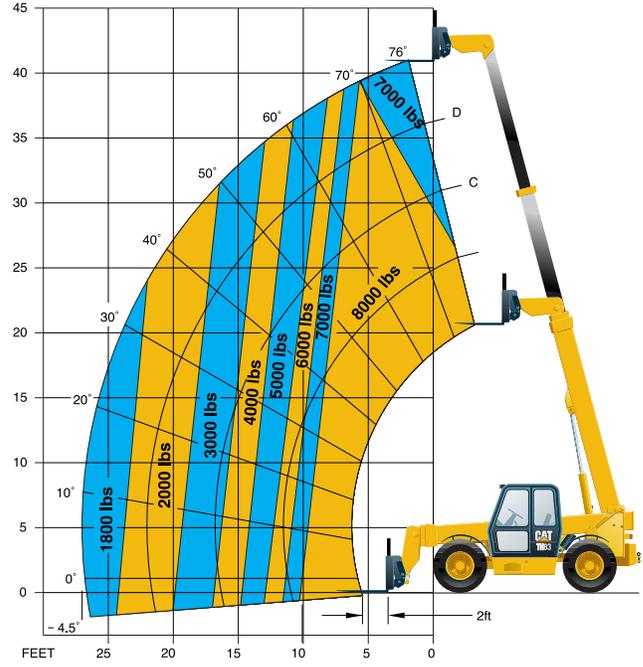
# Dimensions



# Operating Specs



Machine with stabilizers down



Machine not equipped with stabilizers

# Performance

	Stabilizers Down	Stabilizers Up	Without Stabilizers
Rated Load Capacity	3628 kg (8000 lb)	3628 kg (8000 lb)	3628 kg (8000 lb)
Maximum Lift Height	12.5 m (41 ft)	12.5 m (41 ft)	12.5 m (41 ft)
Capacity at Maximum Lift Height	3628 kg (8000 lb)	2721 kg (6000 lb)	3175 kg (7000 lb)
Maximum Forward Reach	8.2 m (27 ft)	8.2 m (27 ft)	8.2 m (27 ft)
Capacity at Maximum Reach	1764 kg (3890 lb)	566 kg (1250 lb)	816 kg (1800 lb)

Specifications shown are for machines equipped with a 48-inch fixed carriage. Performance will vary with different work tools. Stabilizers are optional on the TH83.

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Featured machines may include additional equipment only for special applications.  
See your authorized Caterpillar Dealer or Cat rental store for available options.  
Materials and specifications are subject to change without notice.