

	TH62	TH63	TH82	TH83	TH103
Rated capacity	3000 kg	3000 kg	4000 kg	4000 kg	5000 kg
Maximum lift height	7.6 m	12.5 m	7.6 m	12.5 m	13.5 m
Maximum forward reach	4.1 m	8.1 m	4.1 m	8.1 m	8.7 m
Operating weight	6680 kg	8900 kg	7640 kg	10 130 kg	12 500 kg

Caterpillar® Telehandlers

Outstanding reliability and versatility for maximum performance.

Rugged construction

- Designed and built for long life in tough applications
- Heavy-duty boom for demanding applications
- Cat exclusive, high-pressure XT-3 hose
- O-ring face seal fittings
- Enclosed oil-disc brakes seal out contamination for increased service life
- Operator station provides falling object and rollover protection (FOPS/ROPS)

Proven power train

- Powerful Caterpillar 3054 T turbocharged diesel engine
- 4-speed full Power-Shift transmission for responsive performance
- Full-time all-wheel drive (AWD)
- Planetary drive axles
- Front axle differential lock
- High ground clearance to keep machine moving in poor underfoot conditions
- All mechanical drive

Excellent visibility

- Low boom position provides operator with excellent all-around visibility, particularly to the right and rear of the machine
- Close fitting fenders and profiled engine cover further enhance visibility

pg. 4

Cat® Telehandlers are reliable, durable and backed with unparalleled product support so you can depend on them to help keep your jobs on schedule.

Efficient operator station

- Power brakes and power steering increase operator efficiency
- Tilt steering column for operator comfort
- Fully adjustable suspension seat with retractable seat belt
- Isolation-mounts reduce vibration and noise
- Low effort single joystick hydraulic control

pg. 6

Maneuverability

- Three steering modes
- Tight turning radius
- Compact dimensions allow Cat Telehandlers to operate effectively in crowded work areas
- Single, double-acting steering cylinders protected above the axles
- Oscillating rear axle with differential lock on front axle. Allows travel across rough job sites

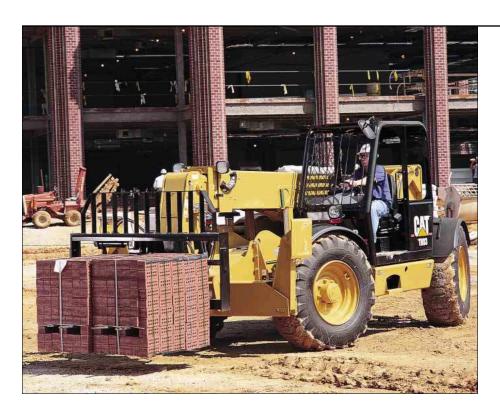
Versatility

- Hydraulic Quick Coupler allows work tools to be changed quickly and easily
- Standard auxiliary hydraulics allows the use of hydraulically-activated work tools
- Ample boom head rotation for superior loader-like performance
- A range of work toolspg. 8



Excellent Visibility

Increased visibility means greater operator confidence and productivity.



Low Boom Design

The machine's low profile design allows for loads to be carried with the boom in a low position. Carrying loads in this position improves visibility to the front and right side of the machine.

Low boom design provides unobstructed visibility when in the load carry position. For maximum visibility, load must be carried as low as possible.

Flexible, close-fitting fenders resist damage, while protecting the operator and machine components from jobsite debris. Fenders move with the wheels, allowing the operator to easily determine wheel direction.

The carefully profiled engine hood enhances visibility and allows for easy access to the engine compartment.

Panoramic View

The ergonomically designed operator station provides excellent all-around visibility.

The adjustable suspension seat accommodates a wide range of operators, allowing optimal adjustment in the settings.



Advanced Hydraulic System

Precise, responsive boom control increases productivity.

Outstanding load control

The Cat Telehandler's load sensing hydraulic system provides smooth power on demand, allowing the operator to efficiently place loads.

Axial-piston hydraulic pump

The hydraulic pump automatically adjusts to meet the constantly changing requirements for optimum performance and fuel efficiency. The pump has been sized for maximum productivity.

Compensated control valve

The pressure and flow compensated control valve provides load independent flow distribution for exceptional control, modulation and multi-function capability.

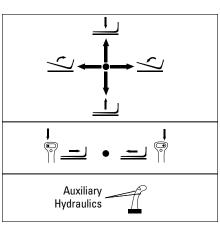




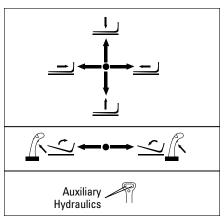
Single, multi-function joystick

All boom and auxiliary functions are controlled with a single, smooth operating ergonomic joystick.

The pilot-operated joystick allows remote location of the main hydraulic control valve and other hydraulic components. This reduces operator fatigue, exposure to noise, vibration and excess heat.



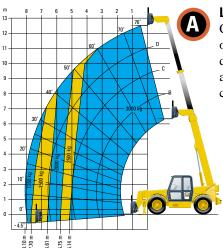
Controls, Bucket Configuration



Controls, Fork Configuration

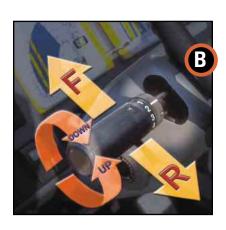
Operator Station

Designed for comfort and ease of operation



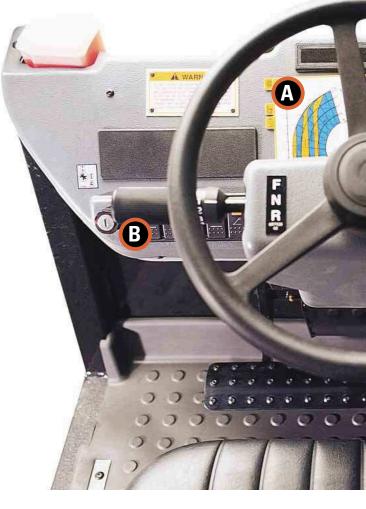
Load Charts

Conveniently located in front of the operator. Load charts define the operating range and weight in which a load can be lifted and placed.



Powershift Transmission

Standard on all machines. The twist grip control allows operators to easily select machine direction and transmission speed.





Operation and Maintenance Manual

This manual, along with other machine information is located behind the seat in a weather resistant storage case.



Suspension Seat

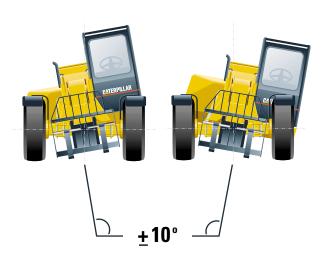
Ergonomically designed for comfort in hardworking environments. The fully adjustable suspension seat is also designed to accommodate various operator requirements. (Optional cloth seat shown).



Frame Leveling

The three position, frame leveling switch is used to level the machine when on uneven surfaces. The machine allows a maximum tilt of 10° to either side.







Instrument Cluster

Gauges are designed to help operators monitor machine operating conditions. The gauge cluster includes an Hour meter, Transmission and Coolant temperature gauges, and Fuel Level indicator.



Joystick Control

All boom functions, including auxiliary hydraulic supply, are controlled with a smooth operating ergonomic joystick.

Versatility

Providing solutions through a variety of work tools.



Versatility

Cat Telehandlers are designed to perform in a wide range of applications. Features such as a hydraulic quick coupler, low boom profile and ample work tool rotation make it an extremely versatile machine. The hydraulic quick coupler allows operators to effortlessly couple the right work for the job. The ample work tool rotation enables the machine to shine in bucket applications.



Hydraulic Quick Coupler

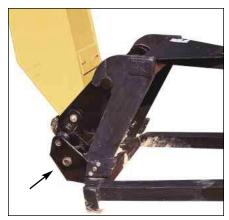
All Caterpillar Telehandlers use a hydraulic quick coupler for fastening work tools to the front of the boom. This easy to use attachment point allows use of a wide range of work tools, taking advantage of the standard auxiliary hydraulic supply and the ample boom head rotation. Work tools hook over the top of the coupler and are secured by two hydraulically engaged pins at the bottom.



Line up quick coupler with tool



Tilt coupler back



Engage pins

Work Tools

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

Work Tools

A wide range of work tools are available to meet most job site applications. Lift and place operations are easily accomplished with a wide variety of carriages and forks. An assortment of buckets and hydraulically assisted work tools are also available.

Caterpillar Telehandler Work Tools expand the versatility of the machine. Built for performance and durability, these work tools deliver high productivity, long life and excellent value:

- General Purpose Bucket (1.0 m³)
- Grapple Bucket (0.85 m³)
- Light Material Bucket (2.0, 2.5 and 3.0 m³)
- Material Handling Bucket (1.5 m³)
- Multi Purpose Bucket (1.0 m³)
- Fixed Carriages
- Rotate Carriages
- Block Forks
- Pallet Forks
- Lifting Hook
- Self Tipping Hopper
- Truss Boom
- Bale Handler
- Manure Forks
- Manure Forks and Grab
- Manure Forks, Grab and push-off device
- Access Platform













Serviceability

Improved access and less maintenance requirements add up to unparalleled ease of service.



Serviceability

Cost of operation starts with ease of service. All Cat Telehandler service points are readily accessible and major components are easy to reach at ground level due to overall machine design.

- 1 Protected fuel pump guard
- 2 Engine oil filter
- **3** Hydraulic test ports
- 4 5 micron hydraulic filter
- **5** 500 CCA battery (dual battery option)
- 6 Optional battery disconnect switch
- 7 Water/Fuel Separator
- 8 Fuel primer
- **9** Air filter

- **10** Radiator chaff guard eliminates debris
- 11 Radiator fan guard
- **12** Cooling system expansion tank
- **13** Transmission filter
- 14 Air filter restriction indicator
- **15** Radiator drain plug

Complete Customer Support

Cat dealer services help you operate longer with lower costs.



Customer support

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

Selection

Make detailed comparisons of the machines you are considering before you buy. A Cat dealer can give precise answers to questions like – which machine is best suited for my needs? What is the cost of preventive maintenance? What is the true cost of lost production?

Purchase

Look beyond initial purchase price. Consider the financing options available through Cat Financial, 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.

Operation

Improving operating techniques can boost profits. Caterpillar dealers have training materials and other ideas to help you increase productivity.

Maintenance

More and more equipment users are planning for effective maintenance before purchasing equipment. Choose from your dealer's wide range of maintenance services at the time you receive 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? Caterpillar dealers help evaluate the cost involved.

Product support

Most parts are in stock at Caterpillar dealers. Cat dealers utilize a worldwide computer network to find in-stock parts, minimizing machine downtime.

Engine

Caterpillar four-stroke cycle, four cylinder 3054 T turbocharged diesel engine.

Ratings at 2200 rpm	kW	hp
Gross power	79	106
Net power		
EEC 80/1269	75	101
ISO 9248	75	101
Ratings at 1600 rpm		
Peak Torque		375 Nm
Dimensions		
Bore		100 mm
Stroke		127 mm
Displacement		4 liter

Power rating conditions

 Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator

Emissions

The Caterpillar 3054 T meets current European emission regulations.

Features

- Direct-injection, rotary fuel pump with individual, adjustment-free injection valves
- Cast-iron block with internally stiffened deep skirt design
- Replaceable valve guides and seats

- Large-diameter, hardened chromemolybdenum steel crankshaft
- Three-ring, controlled-expansion pistons lubricated from oil jets
- Helical steel front gear train
- Fuel priming pump and fuel/water separator are standard
- Gear-driven water pump
- 12-volt negative ground, 950 CCA maintenance-free battery and 55-amp alternator
- Enclosed, positive-engagement starter
- Thermal starting aid
- Dual-element, two-stage air cleaner
- Filter restriction indicator
- Vertical exhaust

Hydraulic System

	TH62, TH63, TH82, TH83	TH103
Max system pressure	250 bar	250 bar
Max pump flow	105 l/min	142 l/min
Max pressure	250 bar	250 bar
Pump standby pressure	31.3 bar	20.7 bar
Steering relief pressure	175 bar	175 bar
Brake servo pressure	25-28 bar	25-28 bar
Auxiliary hydraulic supply at	124 bar/71 l/min	124 bar/71 l/min

Features

- Pilot-operated joystick boom control
- Load-sensing, variable-displacement axial-piston pump
- Pressure and flow-compensated valves
- Caterpillar XT-3 hoses
- O-ring face seal fittings
- Chrome plated cylinder rods
- Full-flow, 5-micron, spin-on filter
- Single auxiliary hydraulic supply

Instrumentation

Clear, simple to operate and comprehensive instrumentation.

Features

- Gauges for engine coolant temperature, transmission oil temperature and fuel level
- Warning lights for alternator charging and low engine oil pressure
- Indicator lights for steering mode
- Engine hour meter

Safety Standards Met

- Overhead guard certified to provide falling object protection per ISO 3449:1992 Performance Criteria for FOPS on Earthmoving Machines
- Cab certified to provide rollover protection per ISO 3471-1:1986
 Performance Criteria for Rollover Structures for Construction,
 Earthmoving and Mining Machines

Operator Station

Features

- Excellent all-around visibility
- Isolation-mounted to frame for reduced vibration and increased ride comfort
- Full suspension seat with armrest
- Tilt steering column
- Low step with anti-slip edge and two hand grab bars for easy three point entry
- Conveniently located, low-effort controls
- Rear-view mirror
- Retractable seat belt

Axles

Outboard planetary drive axles.

TH62, TH63, TH8	2, TH83	TH103
Crown and pinion ratio	4.4	3.6
Hub reduction ratio	5.3	6.2
Overall reduction ratio	23.1	22.6

Features

- Oscillating rear axle
- Front axle differential lock
- Compact, four-pinion differentials
- Single, double-acting steer cylinder mounted above each axle for protection
- Full-time, all-wheel drive

Transmission

Full Power Shift transmission with four forward speeds.

	TH62	TH63	TH82	TH83	TH103
Forward	km/h	km/h	km/h	km/h	km/h
1	6	6	6	6	4
2	11	11	11	11	9
3	22	22	22	22	19
4	32	32	32	32	29
Reverse					
1	6	6	6	6	4
2	11	11	11	11	9
3	22	22	22	22	19

Features

- Compact countershaft-type design
- Torque convertor 280 mm with 2.2:1 stall ratio
- Single column-mounted, twist-grip control for selection of speed and direction
- Modulated control for smooth gear shifts
- High-output, reverse alarm standard
- Neutral start

Brakes

Enclosed, oil-disc brakes in both axles.

Features

- Power-assisted, foot-operated service brakes
- Switchable transmission disconnect for foot brake operation
- Hand operated modulating park brake operates on front axle brake discs
- Transmission interlock on parking brake

Boom Performance

All times are approximate

TH63	TH82	TH83	TH103
13	10	1.2	
	10	13	16
10	7	10	13
15	8	15	12
12	9	12	12
28	19	28	29
16	11	16	15
140°	140°	140°	140°
	28	28 19 16 11	28 19 28 16 11 16

Features

- Non-metallic, adjustable, long-life boom wear pads
- Lock valves on all load-holding cylinders
- Selected fore/aft coupler tilt maintained automatically

Service Refill Capacities

	Liter
TH62, TH63, TH82, TH83	
Fuel tank (90% fill)	120
Hydraulic tank	150
TH103	
Fuel tank (90% fill)	144
Hydraulic tank	180

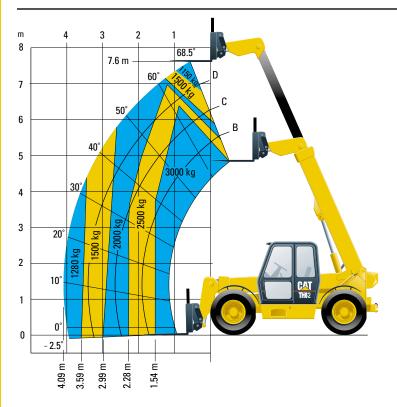
Wheels and Tires

Four equal-size wheels and tires.

	TH62	TH63	TH82
Standard	*15.5/80-10 PR	15.5-25 12PR	15.5-25 12PR
		15.5 R25 XTLA	15.5 R25 XTLA
Option	*17.5 LR24	15.5 R25 XHA	15.5 R25 XHA
	13.00-24 12PR	*15.5/80-24 12PR	13.00-24 12PR
	15.5-25 12PR		*15.5/80-24 12PR
	15.5 R25 XTLA		*17.5 LR24
	15.5 R25 XHA		*19.5 R24
		TH83	TH103
Standard		14.0-24 12PR	14.00-24 16PR
Optional Construction		15.5 R25 XHA	17.5 R25

^{*} Agricultural Tread Pattern

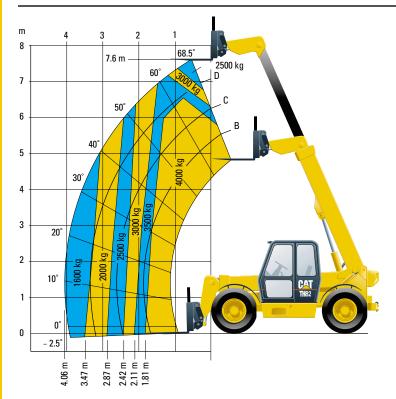
TH62 Load Chart



Performance	
Rated Load Capacity	3000 kg
Maximum Lift Height	7.6 m
Capacity at Maximum Lift Height	1150 kg
Maximum Forward Reach	4.1 m
Capacity at Maximum Reach	1280 kg

Specifications shown are for machines equipped with a 1.22 m fixed carriage. Performance will vary with different work tools.

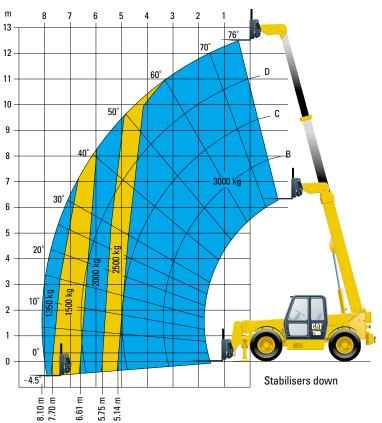
TH82 Load Chart



Performance	
Rated Load Capacity	4000 kg
Maximum Lift Height	7.6 m
Capacity at Maximum Lift Height	2500 kg
Maximum Forward Reach	4.1 m
Capacity at Maximum Reach	1600 kg

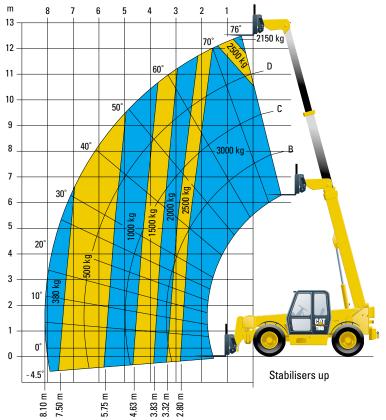
Specifications shown are for machines equipped with a 1.22 m fixed carriage. Performance will vary with different work tools.

TH63 Load Charts



Performance	
Rated Load Capacity	3000 kg
Maximum Lift Height	12.5 m
Capacity at Maximum Lift Height	3000 kg
Maximum Forward Reach	8.1 m
Capacity at Maximum Reach	1350 kg

Specifications shown are for machines equipped with a 1.22 m fixed carriage. Performance will vary with different work tools. Stabilisers are optional on the TH63.

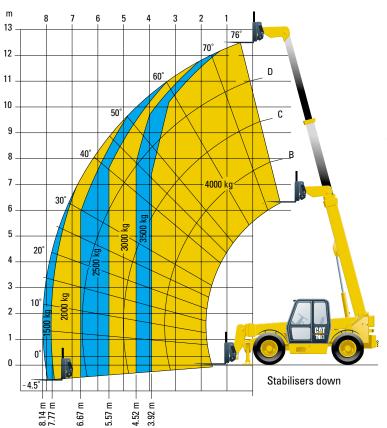


Performance

Rated Load Capacity	3000 kg
Maximum Lift Height	12.5 m
Capacity at Maximum Lift Height	2150 kg
Maximum Forward Reach	8.1 m
Capacity at Maximum Reach	380 kg

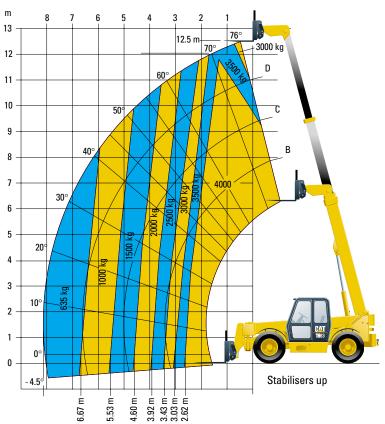
Specifications shown are for machines equipped with a 1.22 m fixed carriage. Performance will vary with different work tools. Stabilisers are optional on the TH63.

TH83 Load Charts



Performance	
Rated Load Capacity	4000 kg
Maximum Lift Height	12.5 m
Capacity at Maximum Lift Height	4000 kg
Maximum Forward Reach	8.1 m
Capacity at Maximum Reach	1500 kg

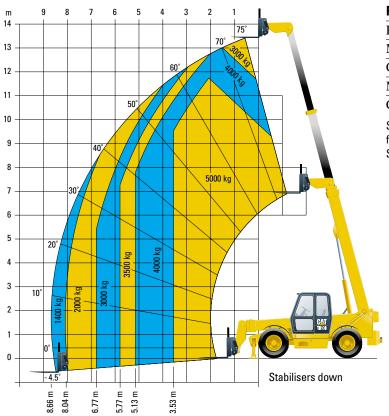
Specifications shown are for machines equipped with a 1.22 m fixed carriage. Performance will vary with different work tools. Stabilisers are optional on the TH83.



Performance	
Rated Load Capacity	4000 kg
Maximum Lift Height	12.5 m
Capacity at Maximum Lift Height	2160 kg
Maximum Forward Reach	8.1 m
Capacity at Maximum Reach	700 kg

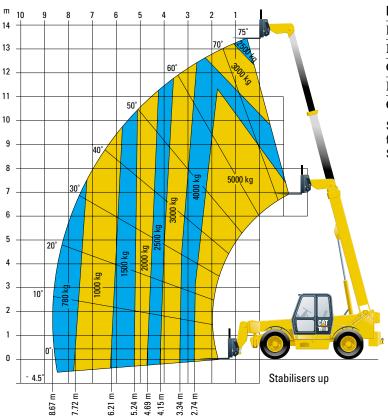
Specifications shown are for machines equipped with a 1.22 m fixed carriage. Performance will vary with different work tools. Stabilisers are optional on the TH83.

TH103 Load Charts



PerformanceRated Load Capacity5000 kgMaximum Lift Height13.5 mCapacity at Maximum Lift Height3000 kgMaximum Forward Reach8.7 mCapacity at Maximum Reach1400 kg

Specifications shown are for machines equipped with a 1.22 m fixed carriage. Performance will vary with different work tools. Stabilisers are optional on the TH103.

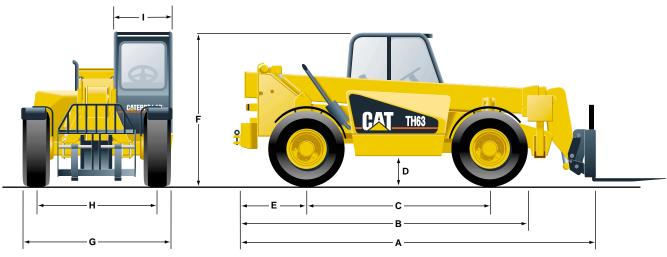


Performance

Rated Load Capacity	5000 kg
Maximum Lift Height	13.5 m
Capacity at Maximum Lift Height	2500 kg
Maximum Forward Reach	8.7 m
Capacity at Maximum Reach	780 kg

Specifications shown are for machines equipped with a 1.22 m fixed carriage. Performance will vary with different work tools. Stabilisers are optional on the TH103.

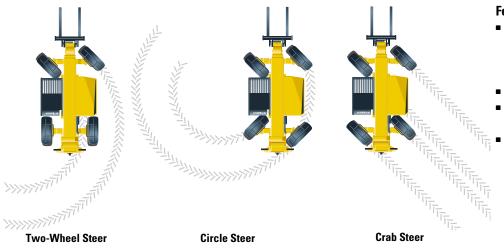
Dimensions



	TH62	TH63	TH82	TH83	TH103
A Length to Carriage	4900 mm	5835 mm	4915 mm	5835 mm	6447 mm
B Length to Front Wheel	4315 mm	4685 mm	4375 mm	4660 mm	5153 mm
C Wheel base	2900 mm	2975 mm	2975 mm	2975 mm	3175 mm
D Ground Clearance	445 mm	435 mm	435 mm	495 mm	495 mm
E Rear Overhang	775 mm	1085 mm	770 mm	1060 mm	1310 mm
F Height	2437 mm	2425 mm	2425 mm	2490 mm	2675 mm
G Width	2230 mm	2440 mm	2440 mm	2440 mm	2440 mm
H Track	1847 mm	2040 mm	2040 mm	2095 mm	2074 mm
Cab Width	900 mm	955 mm	955 mm	955 mm	955 mm
Weight Empty	6680 kg	8900 kg	7640 kg	10 130 kg	12 500 kg

Steering

	TH62	TH63	TH82	TH83	TH103
Minimum Turning Circle Radius over tires	3.7 m	3.8 m	3.8 m	3.8 m	3.9 m



Features

- Three steering modes
 - Circle steer
 - Two-wheel steer
 - Crab steer
- Tight outside turning radius
- Dash-mounted switch for selecting steering modes
- Lighted steering mode indicator on dash

Standard Equipment

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

Air cleaner, dry-type (dual element with restriction indicator)

Alarm (back-up), audible All-wheel drive, full-time

Alternator, 55-amp, 12-volt

Antifreeze

Auxiliary hydraulic supply at

boom head

Battery, maintenance-free,

12-volt, 950 CCA

Brakes, power-assisted, oil-immersed

discs, both axles

Canopy, FOPS/ROPS

Counterweight (rear)

Differential lock (front axle)

Engine, Caterpillar 3054 T

Engine cover, hinged, lockable

Fenders, four

Filters for engine oil, transmission oil, hydraulic oil and fuel

Floor mat

Horn

Hydraulic Quick Coupler

Instrumentation:

Alternator warning light

Engine coolant temperature gauge

Low pressure indicator light

Fuel level gauge

High beam indicator light

Hour meter

Low oil pressure warning light

Steering mode indicator light

Transmission oil temperature gauge

Joystick control lever, pilot-operated Key start/stop, with auxiliary position

and anti-restart

Mirror, rear-view, RH side

Paint, high-gloss polyurethane

Pump, axial-piston, load-sensing

Seat, suspension, vinyl cover with armrest and retractable seat belt

Steering, power assisted, three steer

modes

Switches, dash illuminated

Thermostart starting aid

Tires (see pg. 13)

Torque converter

Transmission disconnect

Transmission, full Power Shift,

four forward, three reverse

Transmission oil cooler

Transport tie-down points

Water separator (fuel system)

Optional Equipment

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

Cab (FOPS/ROPS), fully enclosed, with two-speed windshield wiper/washer, heater/defroster with two-speed fan, laminated windshield and roof glass Sliding rear window

Tinted glass

Floodlights, two on boom

Grill, front of cab

Mirror, left hand (additional)

Radio, stereo with cassette Road lighting package Roof wiper/washer

Rotating amber beacon with magnetic mounting

Seat, suspension, cloth cover with armrest and retractable seat belt

Tires (see page 13)

Hydraulic tow hitch on TH62 Vandalism protection package A wide range of optional work tools are available. (see pg. 9)

Caterpillar Telehandlers

