



Cat® TH0642

TELEHANDLER

FEATURES:

The Next Generation Cat® TH0642 Telehandler (TH) is focused on safety and ease of operation, with extended service intervals so it is ready to work when you are.

- **Comfortable Operator Station** – Cat Telehandlers offer a roomy operator station, with standard features like tilt steering column, dual charging ports, cupholder, and options like an enclosed cab with air conditioning and a top window sunshade to deliver excellent comfort when operating.
- **Easy To Operate** – Pilot controlled joystick with excellent multi-function capability, makes the Cat Telehandler easy to use. The intuitive LCD monitor provides easy to read machine information, with a choice of languages, and delivers a standard multi-operator code security system.
- **Safety On The Job Site** – Your safety is our top priority and the Cat Telehandler is designed to help keep you safer on the job. Standard equipment like the load stability indication (LSI) system, operator presence seat switch, rearview camera, high-visibility orange seat belt, and optional features such as the seat belt reminder system and hydraulic lockout switch, are just a few of the safety features we've built into the machine.
- **Simple Service For Less Downtime** – Maintenance is quick and easy on the Cat Telehandler. Daily check points are easy to access at ground level with grouped service points, and an easy-to-use service tool (patent pending) allows for quick and easy checks of the chain for tension, link wear, or stretching. Additionally, this tool provides integrated "go or no-go gauges" for quick checks of the boom wear pads. And you can rest easy with the standard 5-year/5,000-hour warranty for the main frame and boom sections.

■ **Lower Operating Costs** – Equipped with features such as 500-hour greasing interval, 3,000-hour hydraulic oil, 6,000-hour extended life coolant, engine idle shutdown, and efficient hydraulics with a variable displacement pump, the Cat Telehandler was designed to help reduce your operating costs.

■ **Cat Attachments** – Combining a wide selection of Cat Telehandler attachments with either the industry-standard TH coupler or the Integrated Tool Carrier (IT) coupler, the Next Generation Cat Telehandlers deliver exceptional versatility to meet the varied demands of today's job sites.

■ **Unmatched Dealer Support** – Your Cat dealer is here to help you reach your business goals, from providing equipment solutions to operator training to service needs and beyond, your Cat dealer is ready to help!



Specifications

Engine

Model*	Cat C3.6	
Gross Engine Power – ISO 14396:2002	55 kW	74 hp
Displacement	3.6 L	220 in ³

*Meets U.S. EPA Tier 4 Final/EU Stage V emission standards.

Operating Specifications*

Operating Weight	9819 kg	21,647 lb
Rated Load Capacity	2722 kg	6,000 lb
Maximum (max.) Ground Bearing Pressure (Solid Tires)	1207 kPa	175 psi
Maximum Ground Bearing Pressure (Pneumatic Tires)	965 kPa	140 psi
Maximum Lift Height	12.8 m	42.1 ft
Maximum Forward Reach	8.4 m	27.6 ft
Frame Leveling	10°	
Travel Speed – forward (max.)	30 kph	19 mph
Travel Speed – reverse (max.)	22 kph	14 mph
Drawbar Pull – Loaded (calculated)	93.7 kN	21,064 lbf
Capacity at Maximum Height	2722 kg	6,000 lb
Capacity at Maximum Reach	408 kg	900 lbs
Turning Radius over Tires (2-wheel steer)	6.64 m	261 in
Turning Radius over Tires circle/4-wheel steer	3.97 m	156 in

*Operating Specifications, and Dimensions are based on 55 kW (74 hp) engine, pneumatic tires, open canopy, 1829 mm (72 in) standard carriage, 1829 mm (72 in) forks, full fluids, and 80 kg (176 lb) operator.

Weight Additions*

Enclosed Cab (with Air Conditioning)	165 kg	364 lb
Solid Tires	788 kg	1,737 lb
Fenders (set of 4)	54 kg	119 lb

*Add to base configured weight.

Hydraulic System

System Operating Pressure	280 bar	4,061 psi
Auxiliary Hydraulic Pressure	280 bar	4,061 psi
Maximum Pump Flow	141 lpm	37 gpm
Auxiliary Hydraulic Flow	55 lpm	14.5 gpm
Variable displacement load sensing axial piston pump		

Service Refill Capacities

Fuel Tank	146 L	39 gal
Hydraulic Tank	90 L	24 gal
Hydraulic System	165 L	44 gal
Engine Crankcase	9.0 L	2.4 gal
Transmission	20 L	5.3 gal
Transfer Case	2.7 L	0.7 gal

Transmission Speeds

Forward	4 Gears
Reverse	3 Gears

Tires

14-24 Galaxy Giraffe XLW L-2 (Air)
13-24 Camso TLH 792S (Solid)
13-24 Maxam MS709 (Solid)

Axles and Brakes

- Trunnion mounted planetary 55-degree steer axles
- High bias limited slip differential on front axle
- Service Brakes: Inboard wet disc brakes on front and rear axles
- Parking Brakes: Wet disc, spring applied hydraulic release (front axle)

Boom Performance/Cycle Times

Boom Up	12.8 sec
Boom Down	14.2 sec
Tele Out	14.2 sec
Tele In	13.3 sec

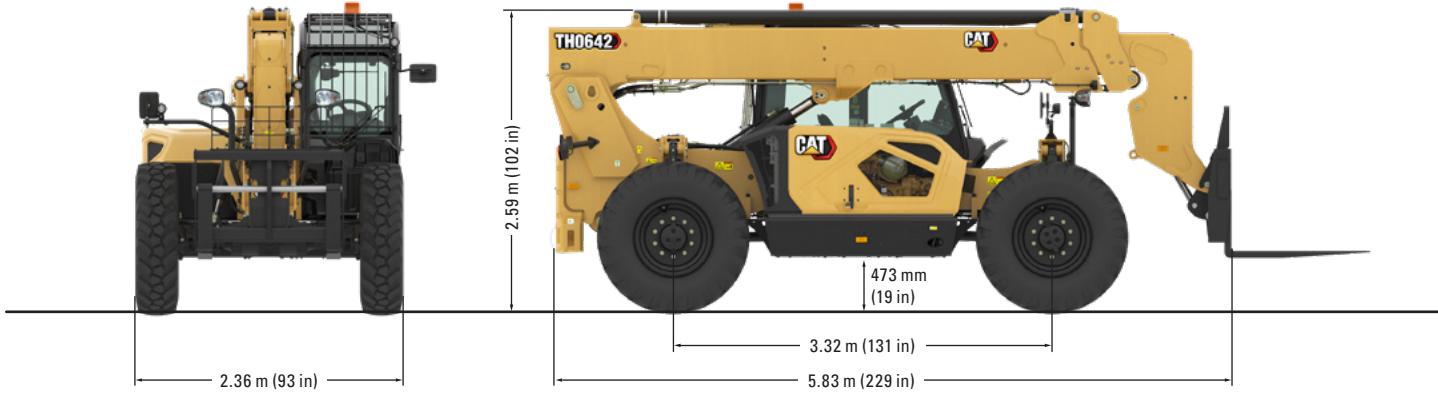
Optional Work Tool Attachments

Coupler Interface Weights

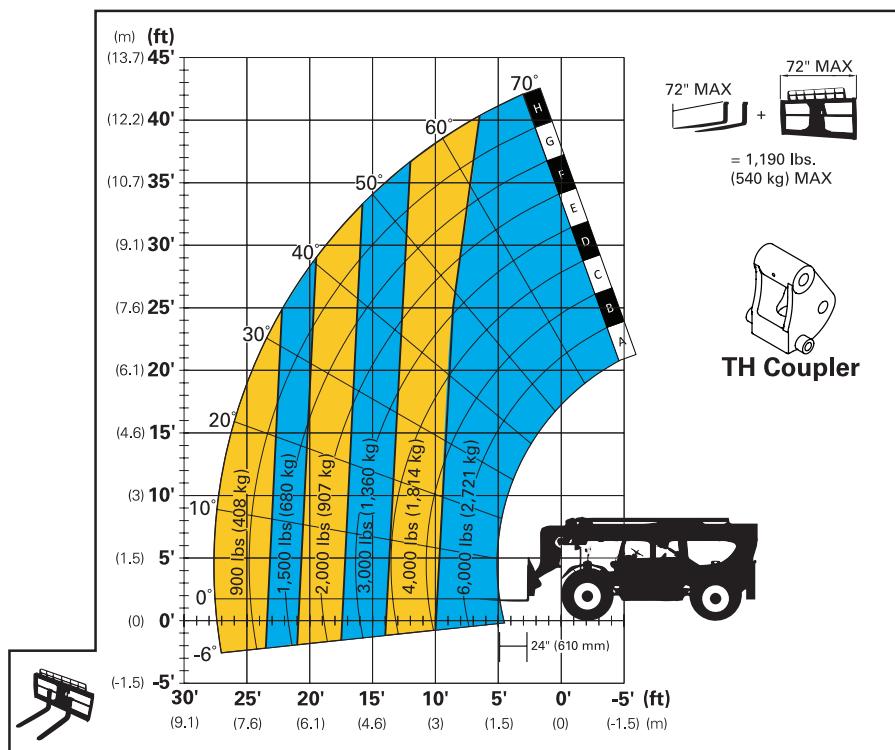
Carriages					
	Standard Tilt				
		1270 mm	50 in	TH	240 kg
				IT	248 kg
		1829 mm	72 in	TH	283 kg
				IT	292 kg
	Side Tilt/Rotating				
		1270 mm	50 in	TH	359 kg
				IT	379 kg
		1829 mm	72 in	TH	403 kg
				IT	423 kg
	Dual Hydraulic Fork Positioner				
		1829 mm	72 in	TH	423 kg
				IT	439 kg
Forks					
	Pallet	1220 mm	48 in	–	90 kg
		1525 mm	60 in	–	108 kg
		1829 mm	72 in	–	126 kg
	Truss Boom	3.7 m	12 ft	TH	393 kg
				IT	385 kg
Bucket					
	General Purpose				
		1.5 yd ³		TH	531 kg
				IT	536 kg

Specifications (continued)

Dimensions (All dimensions are approximate.)



Load Chart and Dimensions



IMPORTANT

Rated lift capacities shown are for a machine equipped with the specified carriage and forks. Load Chart is for reference only, not intended for machine operation.

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.

Due to continuous product enhancements, machine specifications and/or equipment changes may be made without prior notification. This machine meets or exceeds ANSI/ITSDF B56.6-2021, as originally manufactured for intended applications.

TH0642 Telehandler

Standard and Optional Equipment

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

ENGINE		LIGHTS	
55 kW (74 HP)	●	LED work lights – cab, boom	●
COLD WEATHER		Beacon	
Battery disconnect with lockout feature	●	Roading lights	●
Cold Weather Package	●	TELEMATICS	
Dual Battery, heavy duty	●	PLE643 – Product Link™ Elite	●
Engine Block Heater	●	TIRES	
Ether Starting Aid	●	Galaxy – pneumatic directional	●
OPERATOR STATION		Camso – solid directional	●
Canopy	●	Maxam – solid non-directional	●
Enclosed Cab, heat	●	ATTACHMENT COUPLER	
Enclosed Cab, heat, air conditioner	●	TH Coupler (Manual)	●
OPERATING ENHANCERS		IT Coupler (Manual)	●
Operator Presence Seat Switch	●	IT Coupler (Hydraulic)	●
Camera, rearview	●	AUXILIARY HYDRAULIC CONNECTIONS	
Load Stability Indicator (LSI)	●	Capped auxiliary hydraulic lines	●
OPERATOR SEAT		Twist to connect hydraulic quick disconnects	●
Seat – Mechanical Suspension	●	CARRIAGE	
Seat – Mechanical Suspension Plus	●	Standard Tilt – 1270 mm (50 in)	●
SEAT BELT		Standard Tilt – 1829 mm (72 in)	●
Seat belt – 51 mm (2 in)	●	Side Tilt/Rotating – 1270 mm (50 in)	●
Seat belt – 75 mm (3 in)	●	Side Tilt/Rotating – 1829 mm (72 in)	●
Seat belt with Indicator – 75 mm (3 in)	●	Hydraulic Fork Positioner – 1829 mm (72 in)	●
OPERATOR STATION ACCESSORIES		FORKS	
USB dual charging port (USB-A and USB-C)	●	Pallet Forks – 1220 mm (48 in)	●
Security, 4 digit operator code enabled	●	Pallet Forks – 1525 mm (60 in)	●
Security, Bluetooth® key	●	Pallet Forks – 1829 mm (72 in)	●
Hydraulic lockout switch	●	Cubing/Block Forks – 1220 mm (48 in)	●
Wiper, front (enclosed cab only)	●	Lumber Forks – 1525 mm (60 in)	●
Wiper, rear (enclosed cab only)	●	OTHER WORK TOOL ATTACHMENTS	
Wiper, roof (enclosed cab only)	●	General Purpose Bucket	●
Sunshade (top window)	●	Truss Boom – 3.7 m (12 ft)	●
Padlocks (set of 4)	●	Grapple Bucket	○
FENDERS		Material Handling Arm	○
Cab fender (Left Hand front)	●	Pipe and Pole Fork Grapple	○
Fenders (4 Wheels)	●	Lifting Hook (Coupler Mtd)	○
GUARDING		● Standard	
Window guard, front	●	● Optional	
Window guard, top	●	○ Available 2026/2027	
OTHER OPTIONS		4	
Frame cover	●		
Retrieval hitch	●		
Boom prop	●		

The following information applies to the machine at the time of final manufacture as configured for sale in the regions covered in this document. The content of this declaration is valid as of the date issued; however, content related to machine features and specifications are subject to change without notice. For additional information, please see the machine's Operation and Maintenance Manual.

For more information on sustainability in action and our progress, please visit <https://www.caterpillar.com/en/company/sustainability>.

Engine

- The Cat® C3.6 engine meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
- Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels* up to:
 - ✓ 20% biodiesel FAME (fatty acid methyl ester)**
 - ✓ 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels

Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.

**Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.*

***Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).*

Features and Technology

- The following features and technology may contribute to fuel savings and/or carbon reduction. Features may vary. Consult your Cat dealer for details.
 - Save fuel and reduce your greenhouse gas emissions with efficiency features such as operator control modes selectable through the display and with fuel management modes.
 - Extended maintenance intervals not only reduce downtime but decrease the amount of fluid and filters that are replaced over the life of the machine.
 - Auto Idle helps reduce unnecessary fuel burn and greenhouse gas emissions by allowing the engine to automatically go into idle mode when the machine is not working.

Recycling

- The materials included in machines are categorized as below with approximate weight percentage. Because of variations of product configurations, the following values in the table may vary.

Material Type	Weight Percentage
Steel	55.16%
Iron	21.53%
Nonferrous Metal	1.15%
Mixed Metal	18.46%
Mixed-Metal and Nonmetal	0.56%
Plastic	0.32%
Rubber	0.02%
Mixed Nonmetallic	0.00%
Fluid	1.93%
Other	0.87%
Uncategorized	0.00%
Total	100.00%

- A machine with higher recyclability rate will ensure more efficient usage of valuable natural resources and enhance End-of-Life value of the product. According to ISO 16714:2008 (Earthmoving machinery – Recyclability and recoverability – Terminology and calculation method), recyclability rate is defined as percentage by mass (mass fraction in percent) of the new machine potentially able to be recycled, reused, or both.

All parts in the bill of material are first evaluated by component type based on a list of components defined by the ISO 16714:2008 and Japan CEMA (Construction Equipment Manufacturers Association) standards. Remaining parts are further evaluated for recyclability based on material type.

Because of variations of product configurations, the following value in the table may vary.

Recyclability – 97%

Air Conditioning System

- The air conditioning system on this machine contains 0.68 kg (1.5 lb) of refrigerant. The refrigerant is either R134a or R1234yf. If equipped with R134a (Global Warming Potential = 1430), the refrigerant in the system has a CO₂ equivalent of 0.972 metric tonnes (1.07 tons).

Paint

- Based on best available knowledge, the maximum allowable concentration, measured in parts per million (PPM), of the following heavy metals in paint are:
 - Barium < 0.01%
 - Cadmium < 0.01%
 - Chromium < 0.01%
 - Lead < 0.01%

Sound Performance

External sound power level, dB(A) (per ANSI/ITSDF B56.11.5-2023) – 82 dB(A)*

Cab Configuration sound pressure level, dB(A) (per ISO 6396:2008) – 79 dB(A)

*Measurements were conducted with properly installed and maintained cab doors and windows closed.

Oils and Fluids

- Caterpillar factory fills with ethylene glycol coolants. Cat Diesel Engine Antifreeze/Coolant (DEAC) and Cat Extended Life Coolant (ELC) can be recycled. Consult your Cat dealer for more information.
- Cat Bio HYDO™ Advanced is an EU Ecolabel approved biodegradable hydraulic oil.
- Additional fluids are likely to be present, please consult the Operations and Maintenance Manual or the Application and Installation guide for complete fluid recommendations and maintenance intervals.

Notes

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

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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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