Cat®
TL642D

TELEHANDLER

Specifications

Engine

Model*	Cat® C3.4B	
Gross Power (Basic)	75 kW	100 hp

*Meets U.S. EPA Tier 4 Final emission standards.

Weights

Operating Weight	9980 kg	22,002 lb

Operating Specifications

Rated Load Capacity	2948 kg	6,500 lb
Maximum Lift Height	12.8 m	42 ft
Maximum Forward Reach	9.1 m	30 ft
Frame Leveling	10°	
Top Travel Speed	33 km/h	21 mph
Capacity at Max Height	2949 kg	6,500 lb
Capacity at Max Reach	317 kg	700 lb
Turning Radius over Tires	3.7 m	12 ft
Drawbar Pull (Loaded)	88 kN	19,783 lbf

Hydraulic System

Gear Pump	Single-section	
System Operating Pressure	260 bar	3,770 psi
Auxiliary Hydraulic Pressure	240 bar	3,481 psi
Auxiliary Hydraulic Flow	68 L/min	18 gal/min

- Auxiliary Hydraulic Circuit used for all attachments equipped with cylinders or other hydraulic components.

Service Refill Capacities

Fuel Tank	145 L	38.3 gal
Hydraulic System	151.5 L	40 gal
Diesel Exhaust Fluid (DEF) Tank	21.5 L	5.7 gal

Tires

Standard	370/75-28 Air Duraforce
Optional	370/75-28 Foam Duraforce
	13.00 × 24-16 PR Air
	13.00 × 24-12 PR Foam Filled
	13.00 × 24 Solid

Transmission Speeds

Forward	4 speed
Reverse	3 speed

Boom Performance

Boom Up	15 Seconds
Boom Down	10.3 Seconds
Tele In	9.5 Seconds
Tele Out	16.3 Seconds

Axles

- Trunnion mounted planetary 55 degree steer axles.
- High bias limited slip differential on front axle.

Brakes

- Service Brakes are inboard wet disc brakes on front and rear axles.
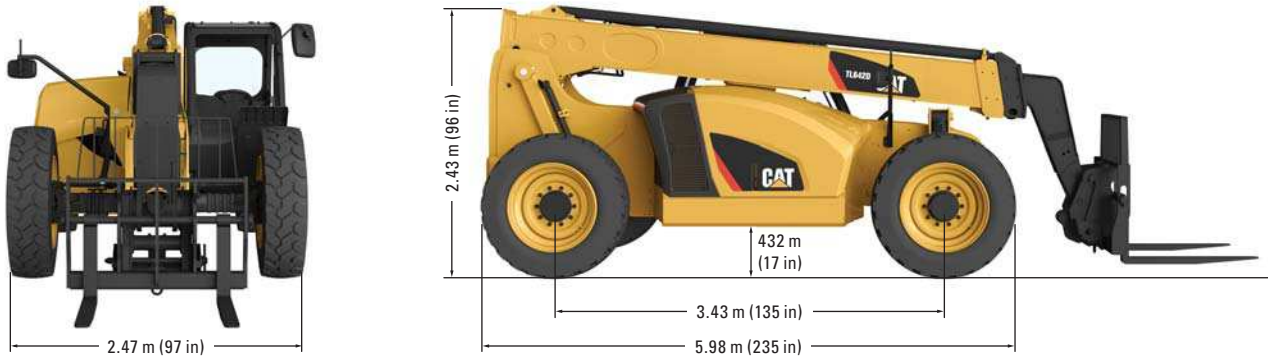- Parking Brakes are wet disc, spring applied hydraulic release on front axle.

Work Tools

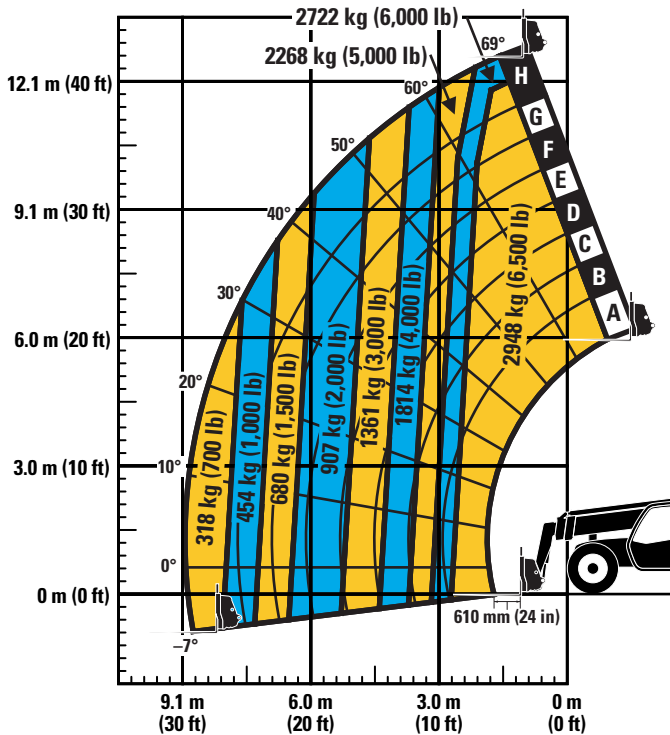|		
Hydraulic IT Coupler	Includes Auxiliary Electrics	Includes Auxiliary Electrics
Pallet Forks	(2) 1220 mm, 60 mm × 125 mm	(2) 48 in, 2.36 in × 5 in
	(2) 1220 mm, 60 mm × 100 mm	(2) 48 in, 2.36 in × 4 in
	(2) 1525 mm, 60 mm × 150 mm	(2) 60 in, 2.36 in × 6 in
Lumber Forks	(2) 1525 mm, 45 mm × 180 mm	(2) 60 in, 1.75 in × 7 in
	(2) 1829 mm, 50 mm × 150 mm	(2) 72 in, 2 in × 6 in
Cubing Forks	(2) 1220 mm, 50 mm × 50 mm	(2) 48 in, 2 in × 2 in
Carriages:		
Standard Tilt	1270 mm	50 in
Wide Tilt	1829 mm	72 in
Side Shift	1220 mm	48 in
Standard Rotate	1270 mm	50 in
Wide Rotate	1829 mm	72 in
Swing	100°, 1829 mm, 2948 kg Capacity, 2268 kg Swung	100°, 72 in, 6,500 lb Capacity, 5,000 lb Swung
Dual Fork Positioning	1270 mm	50 in

TL642D Telehandler

Dimensions (All dimensions are approximate.)

2.47 m (97 in)

2.43 m (96 in)

432 m (17 in)

3.43 m (135 in)

5.98 m (235 in)

Load Chart and Dimensions

Load chart values: 2722 kg (6,000 lb), 2268 kg (5,000 lb), 2948 kg (6,500 lb), 1814 kg (4,000 lb), 1361 kg (3,000 lb), 907 kg (2,000 lb), 680 kg (1,500 lb), 454 kg (1,000 lb), 318 kg (700 lb)

Boom angles: 69°, 60°, 50°, 40°, 30°, 20°, 10°, 0°, −7°

Load zones: A, B, C, D, E, F, G, H

Vertical axis: 12.1 m (40 ft), 9.1 m (30 ft), 6.0 m (20 ft), 3.0 m (10 ft), 0 m (0 ft)

Horizontal axis: 9.1 m (30 ft), 6.0 m (20 ft), 3.0 m (10 ft), 0 m (0 ft)

610 mm (24 in)

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 B56.6-2011 as originally manufactured for intended applications.