

# Product Specifications For TL642



## Engine

Engine Model	Cat® C3.6L
Gross Power - Basic	73.7 hp
Note	Meets U.S. EPA Tier 4 Final emission standards.

## Weights

Operating Weight	22002 lb
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## Operating Specifications

Rated Load Capacity	6500 lb
Maximum Lift Height	42 ft
Maximum Forward Reach	30 ft
Top Travel Speed	19 mile/h
Drawbar Pull - Loaded	20670 lbf
Turning Radius - Over Tires	12 ft
Frame Leveling	10°
Capacity at Maximum Height	6500 lb
Capacity at Maximum Reach	700 lb

## Dimensions

Height	8 ft
Width	8 ft
Wheel Base	11.25 ft
Length - Fork Face	18.5 ft

Ground Clearance	17 in
Turning Radius - Over Tires	12 ft

### Tires

Standard	370/75-28 Duraforce Air
Optional (1)	370/75-28 Duraforce Foam Fill
Optional (2)	315/95-28 Telemaster Solid
Optional (3)	13.00-24 16PR Air
Optional (4)	13.00-24 12PR Foam
Optional (5)	370/75-28 Non-Marking Air
Optional	370/75-28 Non-Marking Foam

### Hydraulic System

Gear Pump	Single-section
Auxiliary Hydraulic Pressure	3481 psi
Auxiliary Hydraulic Flow	18 gal/min

### Service Refill Capacities

Fuel Tank	38.3 gal (US)
Hydraulic System	42 gal (US)

### Boom Performance

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

## Braking System

<b>Parking Brakes</b>	Wet disc, spring applied hydraulic release on front axle
<b>Service Brakes</b>	Inboard wet disc brakes on front and rear axles

## Axles

<b>Type (1)</b>	Trunnion mounted planetary 55 degree steer axles.
<b>Type (2)</b>	High bias limited slip differential on front axle.

## Work Tools

<b>Carriages - Dual Fork Positioning</b>	50 in
<b>Pallet Forks - Option 2</b>	[2] 1220 mm, 60 mm × 100 mm ([2] 48 in, 2.36 in × 4 in)
<b>Pallet Forks - Option 3</b>	[2] 1829 mm, 60 mm × 150 mm ([2] 72 in, 2.36 in × 6 in)
<b>Pallet Forks - Option 1</b>	[2] 1220 mm, 60 mm × 125 mm ([2] 48 in, 2.36 in × 5 in)
<b>Cubing Forks</b>	[2] 1220 mm, 50 mm × 50 mm ([2] 48 in, 2 in × 2 in)
<b>Carriages - Standard Tilt</b>	50 in
<b>Carriages - Side Shift</b>	50 in
<b>Carriages - Swing</b>	100°, 1829 mm, 2948 kg Capacity, 2268 kg Swung (100°, 72 in, 6,500 lb Capacity, 5,000 lb Swung)
<b>Lumber Forks - Option 1</b>	[2] 1525 mm, 45 mm × 180 mm ([2] 60 in, 1.75 in × 7 in)

## Transmission Speeds

<b>Forward</b>	4 speed
<b>Reverse</b>	3 speed

# TL642 Standard Equipment

## TELESCOPIC BOOM

Boom angle indicator

## **ELECTRICAL**

Alternator, 60 amp, 12 volt  
Battery, 12 volt, 1000 CCA  
Horn  
Alarm, backup

## **OPERATOR STATION**

Canopy, ROPS/FOPS  
Joystick, single electronic  
Adjustable joystick wristrest  
Low step, grab bars for easy entry  
Seat - vinyl, suspension with Cat logo  
Steering wheel spinner knob  
Floor mat - heavy duty  
Left side rear view mirror  
Service door, cab air intake filter, fuel fill, hydraulic fill, level indicator, fuse panel and washer fill  
Instruments - volt meter, hourmeter, engine oil pressure gauge, water temperature gauge. All gauges protected by clear acrylic cover.  
Park Brake with indicator light  
Steering Wheel with Cat logo  
Cat keys and locks  
Brakes - wet disc service

## **POWER TRAIN**

Engine, Cat® C3.6L (73.7 hp)  
Thermal starting aid  
Transmission, 4-speed forward, 3-speed reverse  
Cat filters, hoses and couplings  
Axles - Dana  
Steering - 4 wheel  
Parking brake with indicator light  
Drive - 4 wheel

## **STRUCTURE**

Chassis, frame level up to 10 degrees when operating in rough, uneven terrain  
Cat IT Coupler

## **ANTI-FREEZE**

Coolant - Anti-freeze, 50/50 Mix

## **TIRES**

Tires - 370/75-28 Duraforce Air

## **OTHER EQUIPMENT**

Integrated lift and tie down points  
Standard Cat color paint  
Auxiliary hydraulics for auxiliary attachments (one function)

# TL642 Optional Equipment

## TELESCOPIC BOOM

Hydraulic IT Coupler (includes Auxiliary Electrics)

## ELECTRICAL

Work Light Group: 2 Cab mounted headlights -- 2 forward, 1 rearward; 1 Reversing Light; 2 Boom Mounted Lights, 1 Rotating Beacon

Engine heater block

Heater - open cab

Road Light Group -- Headlights, Brake Lights, Turn Signals

## OPERATOR STATION

Air conditioning

Auxiliary hydraulics for Hydraulic Work Tools (one function)

Single Joystick - with Rocker Switch

EROPS - Cab Enclosure (Door, Safety Glass Windows, Front Windshield Wiper, Heater & Defroster Fan)

Skylight Wiper

Brick Guard - Top and front.

## TIRES

Tires - 13.00-24 12PR Foam

Tires - 13.00-24 16PR Air

Tires - 370/75-28 Duraforce Foam Fill

Tires - 370/75-28 Non-Marking Air

Tires - 315/95-28 Telemaster Solid

## OTHER EQUIPMENT

Fenders

Tow Hook - Pintle Type

Instant Hook - 4000 lb capacity, boom head mounted winch

Outriggers

Artic package - Package includes: 2400 AMP starter, 1000 watt hydraulic reservoir heater, 500 watt engine oil-pan heater, Dual maintenance free, 1375 CCA gel cell batteries, 160 watt battery heating blanket, 1000 watt engine block heater.

## WORK TOOLS

Access Work Platform - 8 ft x 4 ft; 1,000 maximum capacity (available from factory)

Carriage - side shift, 50 in. (available from factory)

Lifting Hook - fork mounted (available from factory)

Truss Broom

Carriage - standard tilt, 50 in. (available from factory)

Carriage - wide tilt, 72 in. (available from factory)

Carriage - standard rotate, 50 in. (available from factory)

Carriage - swing, 72 in., 100 degrees, 6000 lb capacity, 5000 lb swung (available from factory)

Pallet Forks - two 60 in, 2 in x 6 in, capacity per pair 6600 lb (available from factory)

Pallet Forks - two 48 in, 2.36 in x 4 in, capacity per pair 6600 lb (available from factory)

Cubing Forks - two 48 in, 2 in x 2 in, capacity per pair 3800 lb (available from factory)

Bucket - General Purpose 1.3 Cu. Yd.

Bucket - Material Handling 1.95 Cu. Yd.

Bucket - Multi-Purpose, 1.3 Cu. Yd.