

# TLB870 MACHINE SPECIFICATION – TIER 4F



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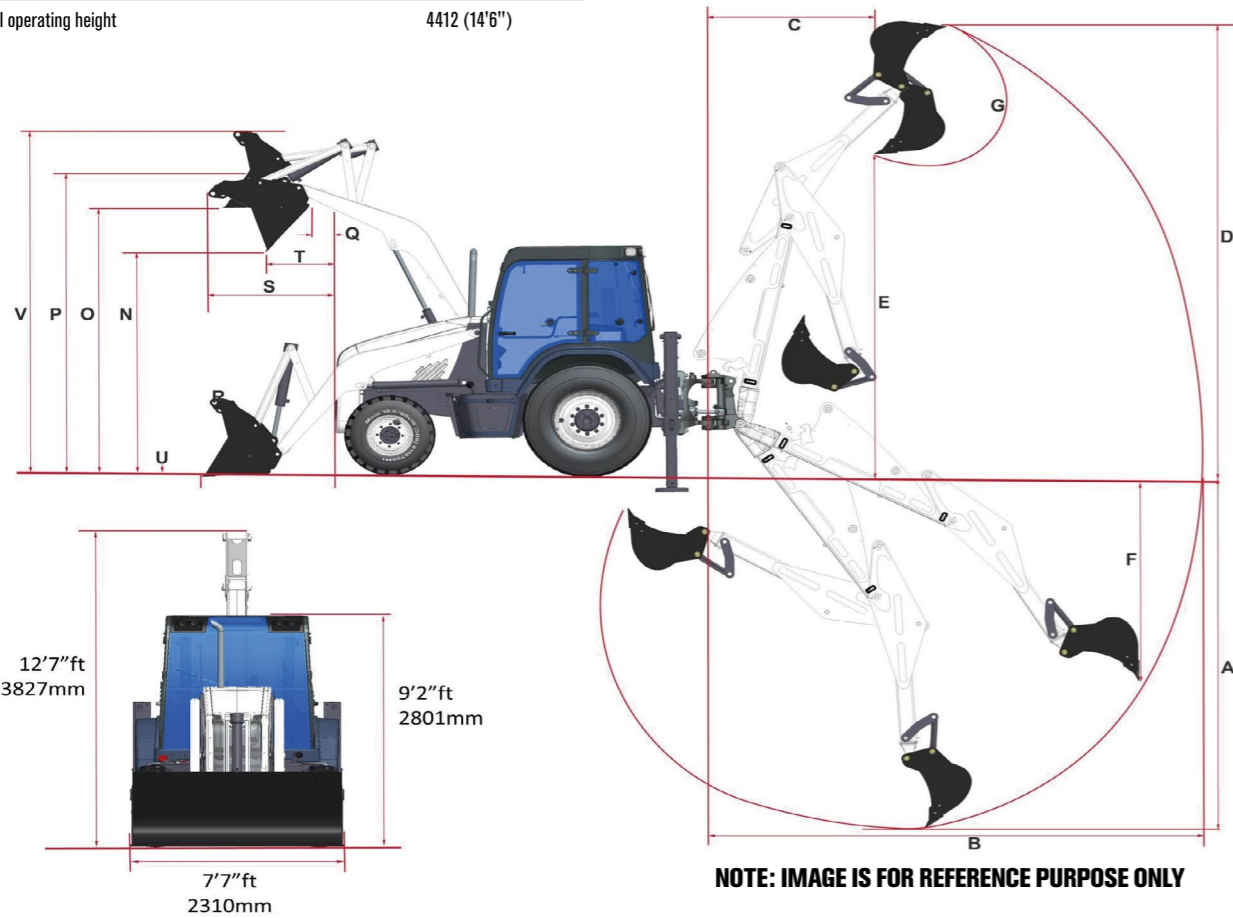
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# SPECIFICATIONS

## LOADER DIMENSIONS

	Standard / 7 in 1 Bucket mm (ft)
N. Dump clearance – at 45°	2722 (8'11")
O. Loader height	3262 (10'8")
P. Hinge pin height	3509 (11'6")
Q. Pin forward reach	385 (1'3")
R. Reach at ground	1454 (4'9")
S. Max. reach at full height	1214 (3'12")
T. Reach at full height – at 45°	732 (2'5")
U. Dig depth	134 (0'5")
Rollback at ground	42.4°
Max. dump angle fully raised	49.6°
V. Overall operating height	4412 (14'6")

**NOTE**  
METRIC MEASUREMENTS ARE THE CRITICAL VALUES  
DIMENSIONS ARE TAKEN FROM T152021  
1 Litre = 0.26417 US Liquid Gallons  
1 Litre = 0.21997 Imperial Liquid Gallons



NOTE: IMAGE IS FOR REFERENCE PURPOSE ONLY

## BACKHOE DIMENSIONS\*

		Standard Dipper – mm (ft)		Deep Dig Dipper – mm (ft)	
				Retracted	Extended
A. Dig depth	Maximum SAE	4401 (14'5")	4401 (14'5")	5744 (18'10")	
	2 ft Flat Bottom SAE	4388 (14'5")	4388 (14'5")	5731 (18'10")	
B. Reach – ground level to slew		5725 (18'9")	5725 (18'9")	6995 (22'11")	
C. Loading reach		1740 (5'8")	1740 (5'8")	2672 (8'9")	
D. Operating height		5623 (18'5")	5623 (18'5")	6606 (21'8")	
E. Loading height SAE		3963 (13'0")	3963 (13'0")	4939 (16'2")	
	Max dumping height	3884 (12'9")	3884 (12'9")	4859 (15'11")	
F. Straight wall dig depth		2557 (8'5")	2557 (8'5")	3714 (12'2")	
G. Bucket rotation degrees	Speed	194	194	194	
Stabiliser spread		2290 (7'6")	2290 (7'6")	2290 (7'6")	
Max. levelling angle degrees		6.2	6.2	6.2	

\*Includes standard 600mm HD bucket

## BACKHOE PERFORMANCE

		Standard Dipper		Deep Dig Dipper	
		Standard Bucket	HD Bucket	Standard Bucket	HD Bucket
Max slew torque kNm (lbf-ft)		20.7 (15267)		20.7 (15267)	
Dipper tearout kN (lbf) (SAE J49 Standard)		42.2 (9487)	42.2 (9487)	42.2 (9487)	42.2 (9487)
Bucket tearout kN (lbf)	Speed	60 (13489)	60 (13489)	60 (13489)	60 (13489)
	Power	N/A	68.7 (15444)	N/A	68.7 (15444)

## ENGINE

Deutz TCD 3.6 L4 (T4F) Torque Rise 63% Electronic fuel injection	
Cylinders	4
Capacity	3.6 L (220 in <sup>3</sup> )
Rated speed	2200 rpm
Gross power @ 2200rpm Cert. rating to ISO 14396:2002	55.4 kW (74.3 hp)
Derived net rating @ 2200 rpm	51.9 kW* (69.6 hp*)
Max Torque @ 1400 rpm ISO 14396:2002	390 Nm (287.6 lbf)

\* Nominal non-certified values

## ELECTRICS

External wiring and connectors meet IP69k standard	
Maintenance free battery	
12 volt negative ground	
Battery isolator	
95 amp alternator	
Blade type fuses	
100 A/hr single battery with 830 CCA-EN Standard	

## CAPACITIES

	Ltrs (gals US / gals)
Fuel tank	140 (37.0 / 30.8)
Engine coolant	17 (4.5 / 3.7)
Engine oil (including filter)	8 (2.1 / 1.8)
Synchro shuttle transmission	20 (5.3 / 4.4)
Rear axle (including final drives)	15.5 (4.1 / 3.4)
Front axle (including final drives)	9.1 (2.4 / 2.0)
Hydraulic tank	52 (13.7 / 11.4)

## AXLES AND BRAKES

- Outboard planetary drives for easier sevicng
- Foot operated differential lock with 100% lockup
- 16° front axle oscillation to maintain maximum ground contact to traction
- Power boosted outboard mounted unit disc brakes
- Self equalizing and self adjusting brakes
- Selectable 2 or 4 wheel braking

	Axle Ratings	Max Static Loading	Max Dynamic Loading
Front kN (lbf)		225 (50582)	90 (20233)
Rear kN (lbf)		187.5 (42152)	75 (16861)

## TURNING CIRCLES

		Over Tyres	Over Bucket
Without brakes	m (ft)	7.96 (26'1")	10.86 (35'8")
With brakes	m (ft)	7.26 (23'10")	10.07 (33'0")

## TRANSMISSION

- 4 speed synchro shuttle gearbox
- Modulated forward and reverse clutch packs enable smooth direction changes
- De-clutch button on gear lever
- Direction control with neutral safety interlock
- Single stage torque converter with 3:01:1 stall ratio

Tyres	Front:	12.5/80 x 18 12 PR TR-09 IND
	Rear:	16.9 x 28 12 PR TI-06 IND
Travel Speeds		
Forward/Reverse		
1st	Km/h (mph)	5.8 (4)
2nd	Km/h (mph)	9.3 (6)
3rd	Km/h (mph)	19.9 (12)
4th	Km/h (mph)	37.6 (23)

## HYDRAULIC SYSTEM

- Tandem gear pumps with inloader valve
- Open centre valves
- External oil level guage
- 125 micron suction strainer
- 10 micron return line filter
- 10 micron filler breather

Main pump flow @ 2200 rpm L/min (gpm US / gpm)	83 (22 / 18)
Secondary pump flow @ 2200 rpm L/min (gpm US / gpm)	45 (12 / 10)
System main relief setting bar (psi)	250 (3626)

## OPERATING WEIGHTS

Base Machine Weight*	8003 kg (17644 lbs)
Add/Delete Deep dig dipper ROPS frame	+ 217 kg (478 lbs) - 128 kg (282 lbs)

\*Base operating weight includes cab, standard loader bucket, standard dipper sticker, 24 in | 600 mm bucket, full fuel tank, standard counter weight 407.85 lbs | 182 Kg and 165 lbs | 75 Kg operator.

## LOADER PERFORMANCE

	Standard Bucket
Bucket breakout* kN (lbf)	42 (9441.98)
Arms breakout* kN (lbf)	46(10341.2)
Lift capacity to full height** kN (lbs)	3759.34 kg (8288)
Rated operating capacity** kN (lbs)	2813.55 kg (6203)

\*Loader specifications are stated in accordance with ISO 14397 and EN474 Part 4.

\*\*Based on basic machine configuration; cab, standard loader bucket, standard dipper sticker, 24 in | 600 mm bucket, full fuel tank.