

BREAKING NEW GROUND

Designed to get the job done

The TLB840 backhoe loader is the ideal choice for your backhoe fleet requirements. An economical purchase, the TLB840 backhoe loader offers ease of use whether excavating, rehandling, transporting material or driving between sites.

Powered by a 94hp (70kw) charge air cooled engine for smooth and efficient operation, the TLB840 backhoe loader balances power with efficiency for the perfect all-in-one machine solution.

With easy to use controls and simple maintenance checks, the TLB840 backhoe loader is a strong and reliable machine, ideally suited to both experienced and novice operators alike.

What this means for you

- ▶ “Deep dig” outerslide extending dipperstick for clamping objects between bucket and dipper
- ▶ Optional thumb attachment for grab and grip applications
- ▶ Delivers high rates of return for a low capital investment

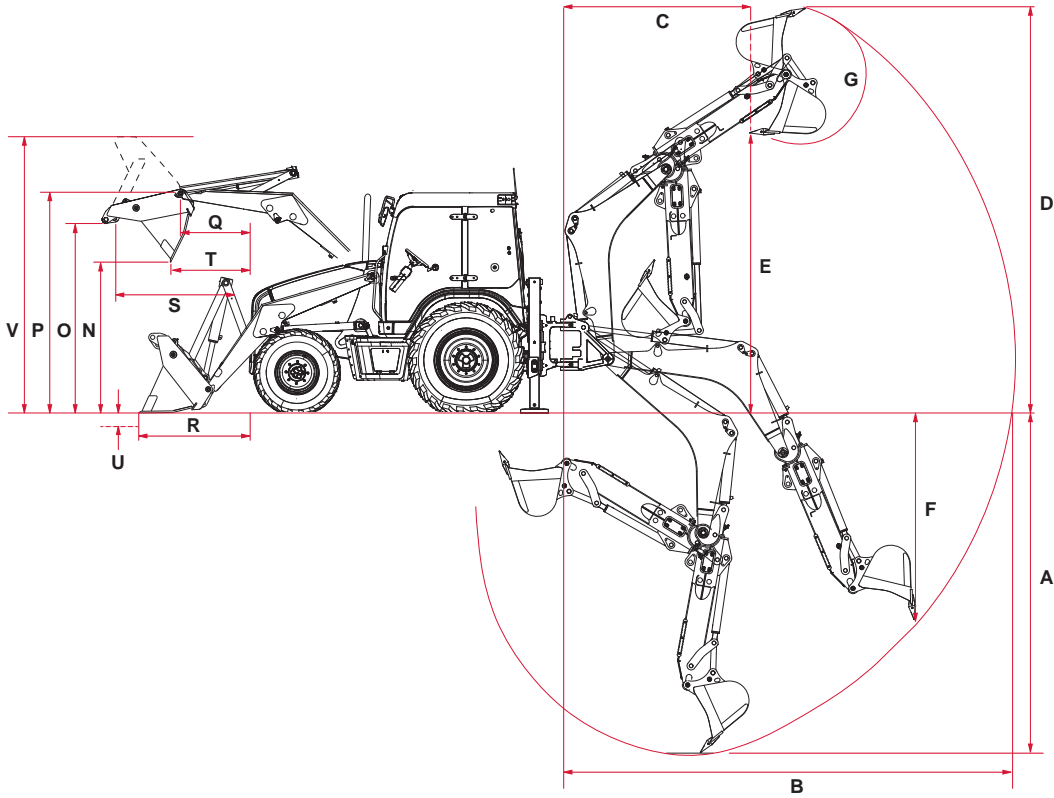
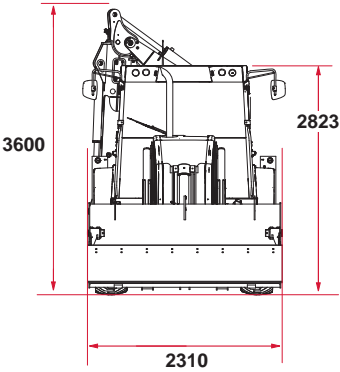
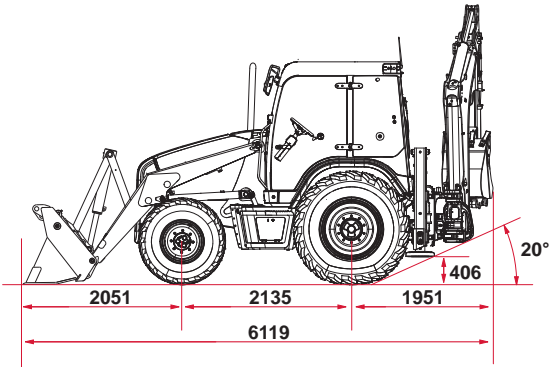


PRODUCTIVITY REDEFIN



LOADER DIMENSIONS

	Standard / 7 in 1 Bucket mm (ft)
N. Dump Clearance – at 45°	2850 (9'4")
O. Loadover Height	3369 (11'1")
P. Hinge Pin Height	3615 (11'10")
Q. Pin Forward Reach	315 (1'0")
R. Reach at Ground	1451 (4'9")
S. Max. Reach at Full Height	1186 (3'11")
T. Reach at Full Height – at 45°	731 (2'5")
U. Dig Depth	156 (6")
Rollback at Ground	50°
Max. Dump Angle Fully Raised	47°
V. Overall Operating Height	4597 (15'0")



BACKHOE DIMENSIONS

Standard Dipper – mm (ft)			Deep Dig Dipper – mm (ft)		
			Retracted	Extended	
A. Dig Depth	Maximum SAE	4371 (14'4")	4371 (14'4")	5390 (17'8")	
	2ft Flat Bottom SAE	4324 (14'2")	4324 (14'2")	5344 (17'6")	
B. Reach - Ground Level to slew		5703 (18'9")	5703 (18'9")	6666 (21'10")	
C. Loading Reach		2280 (7'6")	2280 (7'6")	3120 (10'3")	
D. Operating Height		5211 (17'1")	5211 (17'1")	5794 (19'0")	
E. Loading Height SAE		3615 (11'10")	3635 (11'11")	4215 (13'10")	
	Max Dumping Height	3465 (11'4")	3465 (11'4")	4044 (13'3")	
F. Maximum Straight Wall Dig Depth		2685 (8'10")	2685 (8'10")	3635 (11'11")	
G. Bucket Rotation Degrees	Speed	194	196	196	
	Power	164	166	166	
Total Sideshift		1178 (3'10")	1178 (3'10")	1178 (3'10")	
Stabiliser Spread		2115 (6'11")	2115 (6'11")	2115 (6'11")	
Max. Levelling Angle Degrees		8	8	8	

SPECIFICATIONS

BACKHOE PERFORMANCE

	Standard Dipper		Deep Dig Dipper			
			Retracted		Extended	
	Standard Bucket	HD Bucket	Standard Bucket	HD Bucket	Standard Bucket	HD Bucket
Max Slew Torque kNm	25.32		25.32		25.32	
Dipper Tearout kN (lbf) (SAE J49 Standard)	35.4 (7961)	35.4 (7961)	35.4 (7961)	35.4 (7961)	26.2 (5892)	26.2 (5892)
Bucket Tearout kN (lbf) Speed Power	52.9 (11897)	52.9 (11897)	52.5(11807)	52.5(11807)	52.5(11807)	52.5(11807)
(SAE J49 Standard)	-	60.7 (13651)	-	60.1 (13516)	-	60.1 (13516)

LOADER PERFORMANCE

	Standard Bucket	7 in 1 Bucket
Bucket Breakout kN (lbf)	46.5 (10485)	44.8 (10097)
Arms Breakout kN (lbf)	46.0 (10329)	42.3 (9597)
Lift Capacity To Full Height kg(lb)	3307 (7291)	2977 (6563)

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

PALLET FORKS

(Standard / 7 in 1 buckets)

Fork Length	mm (ft)	1067 (3'6")
Section Width	mm (ins)	80 (3")
Assembly Weight	kg (lb)	150 (330)
Max. Operating Height	mm (ft)	3097 (10'2")
Reach At Ground Level	mm (ft)	2660 (8'9")
Reach At Full Height	mm (ft)	2251 (7'5")
S.W.L. At 500mm Load Centre	kg (lb)	1000 (2204)

BACKHOE BUCKETS

Bucket	Width mm (ins)	Capacity m ³ (ft ³)	Weight Kg (lbs)
Standard Trenching	305 (12)	0.074 (2.62)	99 (218)
	450 (18)	0.120 (4.25)	114 (251)
	600 (24)	0.177 (6.26)	136 (300)
	750 (30)	0.236 (8.32)	157 (346)
	900 (36)	0.296 (10.44)	178 (392)
Heavy Duty	305 (12)	0.084 (2.96)	112 (247)
	450 (18)	0.140 (4.96)	128 (282)
	600 (24)	0.203 (7.15)	152 (335)
	750 (30)	0.266 (9.38)	174 (383)
	900 (36)	0.330 (11.66)	198 (436)
Ditch Cleaning	1500 (60)	0.262 (9.2)	180 (397)
	1800 (72)	0.317 (11.2)	204 (450)
Trapezoidal	1200 (48)	0.258 (9.1)	146 (322)

LOADER BUCKETS

		Standard Bucket	7 in 1 Bucket
Width	mm (ft)	2311 (7.7)	2311 (7.7)
Capacity	m ³ (yd ³)	1.0 (1.32)	1.0 (1.32)
Weight	Kg (lbs)	400 (880)	730 (1606)

SIDESHIFT BACKHOE

Load Chart for Extending Dipperstick using boom cylinder for lifting

	L	2.8m	3.7m	4.3m	4.8m	5.2m	5.8m
W kg							
		1159	969	947	942	889	797
		1159	866	595	467	397	334
		889	537	366	281	234	195

Load Chart for Standard Dipperstick using boom cylinder for lifting

	L	2.8m	3.6m	4.1m	4.4m	4.8m
W kg						
		1369	1335	1235	1130	1048
		1369	878	685	592	530
		877	577	457	398	360

Backhoe Configuration (Top to Bottom)

- Centrally located 'over end' lift capacity (within 45° either side of the machine centreline)
- Centrally located lift capacity through the full swing arc
- Fully offset lift capacity through the full swing arc

Note

- Standard 600mm (24") bucket fitted, for larger buckets subtract difference in weight from stated lift capacity
- Figures stated are rated capacities, and are the lower of either the rated hydraulic lift capacity, or rated tipping load
- Figures in bold print are stability limited figures

STANDARD AND OPTIONAL EQUIPMENT

NOTE: Standard and Optional equipment can vary by territory

ENGINE

Perkins 1204E-E44TA (Stage IIIB/Tier 4i)
Wastegate turbo and charge air cooled
Electric fuel pump
Electronic fuel injection
Auto Idle
4 Glow plug starting aid
Horizontal spin on oil filter
Primary fuel filter with water separator
Vertical element secondary fuel filter
In line fuel filter
500 hour service period
Oil to water internal plate oil cooler
Engine gradeability fore/aft and side/ side 30°
Anti-freeze rated to -37° C
Coolant header tank
Alternator and fan drive by polygroove belt
Gear driven water pump
Puller type 9 bladed cooling fan
Dual element Powercore air cleaner
Stainless steel aftertreatment and exhaust stack
OPTION: Fan guard

DRIVELINE

Synchro shuttle transmission 4F/4R speeds
Direction control with neutral safety interlock
Transmission de-clutch on gear and loader controls
Servo power synchro transmission 4F/3R speeds
Column mounted rotational control lever
Automatic up and down shifting
Auto change down 4/3 and back
Kick down 2/1 and Kick up 1/2
Torque Convertor stall ratio 3.01:1
Easy clean transmission oil cooler
Vertical element oil filter
Foot operated electro/hydraulic differential lock
Outboard Planetary final drive axles
Large capacity outboard oil immersed disc brakes <ul style="list-style-type: none"> • 2 Kevlar friction discs (289mm dia) per side • Total friction area per side 1238cm² (192in²)
Brakes self adjusting and self equalising
Dual brake pedals with combined or independent use
Internal wet disc parking brake <ul style="list-style-type: none"> • Max Parking Slope (unladen) 1:2 • Max Parking Slope (laden) 1:2.5
Hydrostatic steering with emergency manual operation.
4WD standard
Selectable 2 and 4 wheel braking in all gears
Selectable 2WD and 4WD

CAB AND CANOPY

ROPS/FOPS conform to ISO 3471/3449
Access from both sides
Self cleaning footsteps and large grab handles
Anti slip floor mat (canopy)
Internal rear view mirror
Folding external rear view mirrors
2 cup holders
Coat hook
Tilt and Telescopic steering wheel
Front and rear horn
Seat storage for operators manual
2 in (51mm) retractable seat belt
Vinyl seat with mechanical suspension (canopy)
3 auxiliary 12 volt outlets
Cab with 2 door access
Partial door locking
Opening rear quarter windows with internal operation
Full depth up and over rear window
Laminated windscreen
Tinted toughened safety glass
Front and rear screen washers and wipers
Standard fabric seat with mechanical suspension
Rotary hand throttle incorporating auto idle
Heater (7.37kW)
Lockable chilled storage box
Digital clock
Cell phone holder with power plug
Pre installation of wiring for radio
Internal noise level 78 dB(a)
12 audible and visual warning lamps
Engine hour meter
4 rear work lights
3 Gauges for engine oil temperature, fuel and rpm
2 external power sockets for beacon
CANOPY OPTIONS: <ul style="list-style-type: none"> • Windscreen with wiper • Lockable vandal covers
CAB OPTIONS: <ul style="list-style-type: none"> • Air conditioning (7.6 kW cooling) • Premium high back seat, heated with air suspension • 3 in seat belt • Speedometer

LOADER

Hydro-Mechanical self levelling
Control lever with transmission and pump unload buttons
Single bucket cylinder
Bucket cylinder cushioning
Return to dig
Float position with positive hold
Bucket level indicator
Integral Loader arm safety bar
Standard bucket 1m ³ (1.32yd ³) with lifting eye
7 in 1 bucket 1m ³ (1.32yd ³) with lifting eye
Bucket teeth or bolt on reversible cutting edge
7 in 1 bucket control lever with dual function
OPTIONS: <ul style="list-style-type: none"> • Pallet forks with safe working load of 1000kg • 3rd hydraulic line with standard bucket • Hose burst valves • Ride control • Bucket tooth guard • Mechanical or hydraulic quick attach

BACKHOE

Curved style boom
Standard dipperstick
Outer slide "Deep Dig" dipperstick
Externally adjustable lubrication free wear pads (11)
Thumb cylinder mounting bracket incorporated
Replaceable serrated clamping plates
Electro/hydraulic dual transport lock
Externally adjustable stabiliser wear pads
SAE/ISO/Diagonal 2 lever controls
Standard trenching buckets with reversible side cutters
OPTIONS: <ul style="list-style-type: none"> • Stabiliser lock out valves • Boom and Dipper hose burst valves • Hydraulic and Mechanical quick attach • Two auxiliary circuits with single and double acting operation • HD buckets with power and speed positions • Object handling kit • Quick release rubber street pads

GENERAL POINTS

Heavy duty chassis construction
Lockable side mounted toolbox
Fully tilting engine hood
Front hard nose counterweight
Lifting eyes and Tie downs (2 front and rear)
OPTIONS: <ul style="list-style-type: none"> • Reverse warning alarm • Front fenders • 2 extra front counterweights 42 kg (92lbs) each.

SPECIFICATIONS

ENGINE

Perkins 1204E-E44TA (Stage IIIB/Tier 4i) with Wastegate turbocharger and Charge air cooling

- Torque rise 39%
- Electronic fuel injection
- Stainless steel aftertreatment and Exhaust Stack
- 500 hour service period

Cylinders	4
Capacity	4.4L (269in ³)
Rated Speed	2200 rpm
Gross Power @ 2200rpm Cert. Rating to UN/ECE R120	74.5kW (100hp*)
Derived Net Rating @ 2200 rpm to ISO/80/1269/EC	69.9kW* (93.7hp*)
Max Torque @ 1400 rpm UN/ECE R120 ISO 80/1269/EC	450Nm (332 lbf.ft*) 423Nm (312 lbf.ft*)

* Nominal Non-certified Values

ELECTRICS

Wiring and connectors meet IP67 standard

Maintenance free battery

12 volt negative ground

Battery Isolator

Jump start posts

120 amp alternator

Blade type fuses

110 A/hr single battery with 920 CCA - EN Standard

170 A/hr dual batteries with 1600 CCA - EN Standard

CAPACITIES

	Ltrs (gals)
Fuel Tank	140 (30.8)
Engine Coolant	16.0 (3.5)
Engine Oil (including filter)	8.5 (1.9)
Synchro Shuttle Transmission	15.0 (3.3)
Servo Power Synchro Transmission	15.0 (3.3)
Rear Axle (including final drives)	15.5 (3.4)
Front Axle (including final drives)	9.5 (2.1)
Hydraulic Tank	92.0 (20.4)

AXLES AND BRAKES

Outboard planetary final drives for easier servicing
Foot operated differential lock with 100% lockup
16° front axle oscillation to maintain maximum ground contact and traction
High capacity outboard mounted wet disc brakes
Self equalizing and self adjusting
Internal wet disc parking brake
Selectable 2 or 4 wheel braking

Axle Ratings	Max Static Loading	Max Dynamic Loading
Front kN (lb)	225 (50582)	90 (20259)
Rear kN (lb)	187.5 (42152)	75 (16867)

OPERATING WEIGHTS

Base Machine Weight (8433 Kg)

Add/Delete	
7 in 1 Multi-Purpose (1.2m ³)	+ 337 kg (743 lbs)
7 in 1 Multi-Purpose Fork Kit	+ 150 kg (330 lbs)
Deep Dig Dipper	+ 235 kg (518 lbs)
ROPS Frame	- 150 kg (330 lbs)

Base operating weight includes cab, standard loader bucket, standard dipper stick, 600mm bucket, full fuel tank and 75 kg operator.

TRANSMISSION

- 4 speed synchro shuttle gearbox
- Modulated forward and reverse clutch packs enable smooth direction changes
- De-clutch button on shift lever
- Direction control with neutral safety interlock
- Single stage torque converter with 3.01:1 stall ratio

Tyres	Front:	16 x 20	16 x 20	16 x 20
	Rear:	18.4 x 26	16.9 x 28	16.9 x 30
Travel Speeds				
Forward/Reverse				
1st	Km/h (mph)	5.7 (3.6)	5.7 (3.5)	5.9 (3.7)
2nd	Km/h (mph)	9.2 (5.7)	9.1 (5.7)	9.6 (5.9)
3rd	Km/h (mph)	20.3 (12.6)	20.0 (12.4)	21.0 (13.0)
4th	Km/h (mph)	40.5 (25.1)	40.0 (24.8)	41.0 (25.6)

- 4 speed Servo Power Synchro
- Automatic and manual shifting in all 4 gears
- Push button kickdown and kick up in 1st and 2nd gear
- Auto drop down from 4th to 3rd and back
- Single stage torque converter with 3.01:1 stall ratio

Tyres	Front:	16/70 x 20	16/70 x 20	16/70 x 20
	Rear:	18.4 x 26	16.9 x 28	16.9 x 30
Travel Speeds				
Forward				
1st	Km/h (mph)	5.7 (3.6)	5.7 (3.5)	5.9 (3.7)
2nd	Km/h (mph)	9.2 (5.7)	9.1 (5.7)	9.6 (5.9)
3rd	Km/h (mph)	20.3 (12.6)	20.0 (12.4)	21.0 (13.0)
4th	Km/h (mph)	40.5 (25.1)	40.0 (24.8)	41.0 (25.6)
Reverse				
1st	Km/h (mph)	5.7 (3.6)	5.7 (3.5)	5.9 (3.7)
2nd	Km/h (mph)	9.2 (5.7)	9.1 (5.7)	9.6 (5.9)
3rd	Km/h (mph)	20.3 (12.6)	20.0 (12.4)	21.0 (18.0)

TURNING CIRCLES

		Over Tyres	Over Bucket
Without Brakes	m (ft)	7.9 (25'9")	10.6 (34'7")
With Brakes	m (ft)	7.0 (23'0")	9.7 (31'10")
Depending on tyre size			

TYRES

Front	16/70 - 20 14PR	Semi-Industrial
Rear	16.9 - 30 14PR	Semi-Industrial
Front	405/70 20 14PR	Semi-Agricultural
Rear	18.4 - 26 12PR	Semi-Agricultural
Front	400/70-20 TL 149A8	Multi-Purpose
Rear	420/80-30 TL 155A8	Multi-Purpose
Front	400/70-20 TL 149A8	Multi-Purpose
Rear	480/80-26 TL 160A8	Multi-Purpose
Front	400/70-20 TL 149A8	Multi-Purpose
Rear	440/80-28 TL 156A8	Multi-Purpose

HYDRAULIC SYSTEM

- Tandem Gear Pumps with unloader valve on mechanical excavator control
- Variable piston pump on servo excavator control
- Closed centre control valves
- Automatic or manually activated pump fows
- Power Boost to match digging power and speed to application
- Removable oil level gauge
- Removable oil cooler
- 125 micron suction strainer
- 10 micron return line filter

Main Pump Flow @ 2200rpm L/min(gpm)	80 (17.7)
Secondary Pump Flow @ 2200rpm L/min(gpm)	80 (17.7)
Single variable piston pump @ 2200rpm L/min(gpm)	152 (33.4)
System Main relief Setting bar (psi)	250 (3625)
Unloader Settings bar (psi) (Gear pump only)	207 (3000)