

NEW TLB 66

BACKHOE LOADERS-SIDESHIFT - TECHNICAL DATA EU STAGE V / U.S. EPA TIER 4 FINA

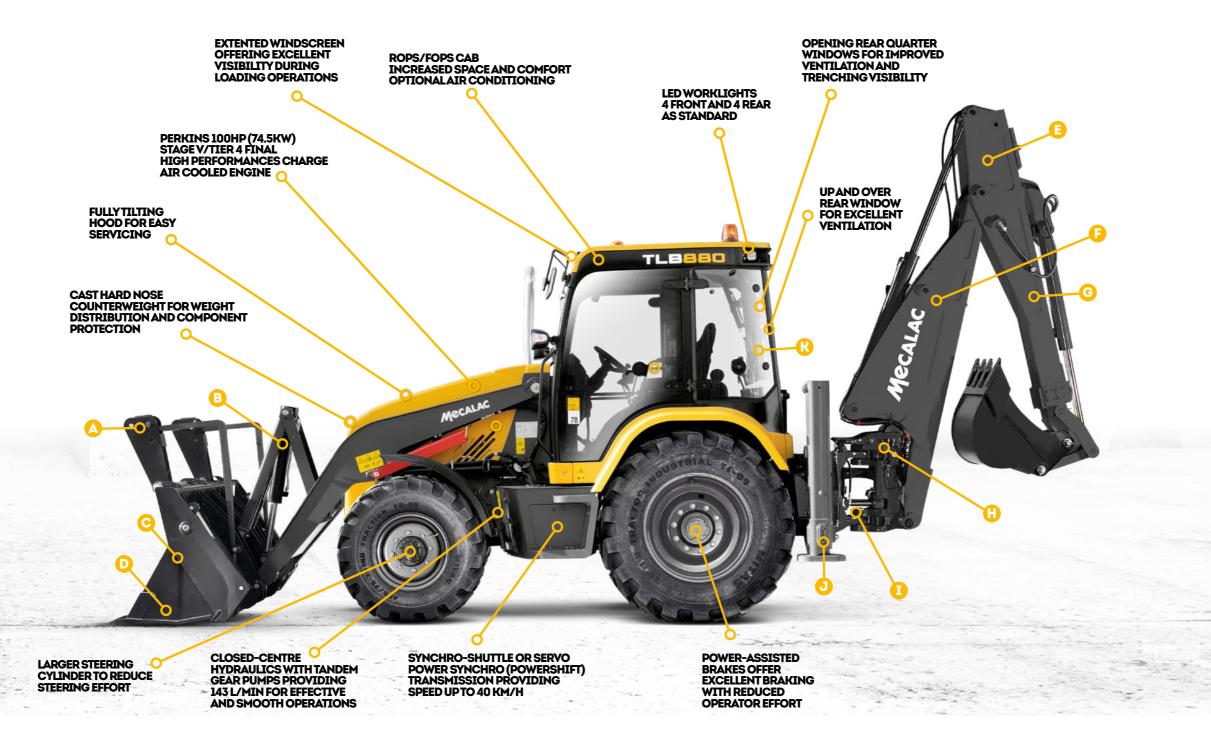




THE NEW SIDESHIFT BACKHOE LOADER

LOADER SIDE

- High Breakout force (42kN / 9442lbf) and tear-out force (46kN / 10341lbf), exeptional lifting capacity (3700kg / 8157lbs) to full height
- Unique single centrally located bucket cylinder to provide the best amplitude and breakout force over the market with minimal maintenance
- 1M³ (1.3 yd³) or 1.2M³ (1.57 yd³) bucket available in standard or 7-in-1 form
- Optional Ride Control loader suspension to improve safety and comfort at high speed



BACKHOE SIDE

- Exeptional performances: Tearout force up to 42kN (9442lbf)
- Break-out force up to 69kN (15512lbf)
 Digging reach up to 7m (22'11")
 Digging depth up to 5.7m (18'10")
- Robust straight boom type to ensure a clear view when trenching
- Externally adjustable dipperstick wear pads for easy servicing and replacement
- Dual transport lock of the boom and slew functions from inside the cab to ensure safety on road
- New slew system provides high torque for easier backfilling and slewing uphill
- Externally adjustable stabiliser wear pads for easy servicing and replacement
- Standard Mechanical controls of the backhoe with the choice of SAE, ISO and diagonal drive mode

TLB880 - BACKHOE LOADERS - SIDESHIFT

→ TECHNICAL DATATLB880 - STAGEV/TIER 4 FINAL

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BACKHOE DIMENSIONS*				Standard Dipper	Deep Dig Dipper	
					Retracted	Extended
A	Dig depth	Maxin 60 cm (2 ft) Flat Bot	num SAE tom SAE	4401 mm (14'5") 4388 mm (14'4")	4401 mm (14'5") 4388 mm (14'4")	5744 mm (18'10") 5731 mm (18'8")
В	Reach - ground	level to slew		5725 mm (18'9")	5725 mm (18'9")	6995 mm (22'11")
С	Loading reach			1740 mm (5'8")	1740 mm (5'8")	2672 mm (8'9")
D	Operating height			5623 mm (18'5")	5323 mm (17'6")	6606 mm (21'8")
E	Loading height S	AE		3963 mm (13')	3963 mm (13')	4939 mm (16'2")
ш	Max dumping he	ight		3884 mm (12'9")	3884 mm (12'9")	4859 mm (15'11")
F	Straight wall dig	depth		2557 mm (8'5")	2557 mm (8'5")	3714 mm (12'2")
G	Bucket rotation of	learees	Speed	194	194	194
		-5	Power	163	163	163
Stal	biliser spread			2290 mm (7'6")	2290 mm (7'6")	2290 mm (7'6")
Max	kimum levelling and	gle degrees		6	6	6

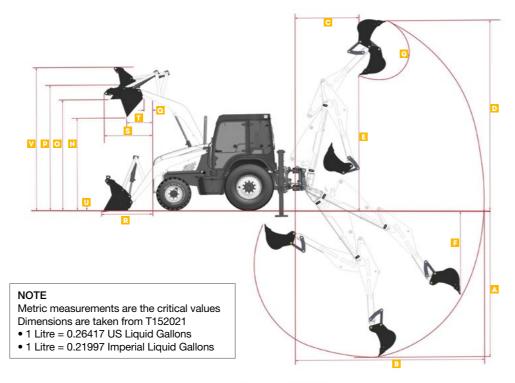
*Includes standard 600 mm (2') HD bucket.

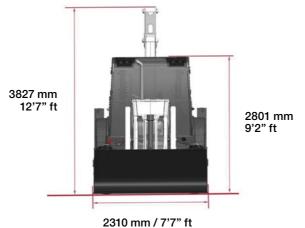
LO	ADER DIMENSIONS	Standard / 7 in 1 Bucket
N	Dump clearance – at 45°	2722 mm (8'11")
0	Loader height	3262 mm (10'8")
P	Hinge pin height	3510 mm (11'6")
Q	Pin forward reach	385 mm (1'3")
R	Reach at ground	1454 mm (4'9")
S	Max. reach at full height	1214 mm (3'12")
T	Reach at full height – at 45°	732 mm (2'5")
U	Dig depth Rollback at ground Maximum dump angle fully raised	134 mm (0'5") 42.4° 49.6°
٧	Overall operating height	4412 mm (14'6")

BACKHOE PERFORMANCE	Standard Dipper	Deep Di	g Dipper
		Retracted	Extended
	Standard Bucket HD Bucket	Standard Bucket HD Bucket	Standard Bucket HD Bucket
Max slew torque kNm (lbf-ft)	20.7 (15267)	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)	28.7 (6452) 28.7 (6452)
Bucket tearout kN (lbf) Speed Power	· /! · /	60 (13489) 60 (13489) 68.7 (15444)	60 (13489) 60 (13489) N/A 68.7 (15444)

LOADER PERFORMANCE		Standard Bucket	7 in 1 Bucket
Bucket breakout* kN (lbf)		42.0 (9442)	41.8 (9397)
Arms breakout* kN (lbf)		45.4 (10206)	41.6 (9352
Lift capacity to full height** kg (lbs)	Hydraulic Limited	3699 (8155)	3249 (7163)
Rated operating capacity ISO 14397	Stability Limited	2784 (6137)	2559 (5641)

^{*}Loader specifications are stated in accordance with ISO 14397 and EN474 Part 4.





Note: image is for reference purpose only

ENGINE		
Perkins 904J-E36TA EU Stage V / U.S. EPA Tier 4 Final*	Wastegate to Stainless steel muffler and Exhaust State	turbocharger with charge air cooling Torque rise 38% Electronic fuel injection ok (DOC, SCR & DPF Exhaust System) 500 hours service period
Cylinders		4
Capacity		3.6 L (221 in ³)
Rated speed		2200 rpm
Gross power @ 2200 rpm cert. rating to UN/E0	DE R120	74.5 kW (100 hp)
Derived net rating @ 2200 rpm to ISO/80/1269	/EC	68.8 kW** (94 hp**)
Max Torque @ 1500 rpm UN/ECE R120 Derived NET Torque		430 Nm (317 lb.ft) 403 Nm (297 lb.ft)

*Depending on your Local Legislation - Environmental Protection Agency (EPA) - **Nominal non-certified values.

ELECTRICAL SYSTEM	
Wiring and connectors meet IP69 standard	
Maintenance free battery	
12 volt negative ground	
Battery isolator	
Jump start posts	
85 amp alternator	
Blade type fuses	
110 A/hr single battery with 920 CCA - EN Standard	

Adblue Tank	135.0 (29.6) 19.0 (4.2)
	19.0 (4.2)
Engine coolant	14.0 (3.7)
Engine oil (including filter)	9.0 (2.0)
Servo power synchro transmission	18.0 (4.0)
Synchro shuttle transmission	18.0 (4.0)
Rear axle (including final drives)	15.5 (3.4)
Front axle (including final drives)	9.5 (2.1)
Hydraulic tank	87.5 (19.2)

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 Front kN (lb) 225 (50582) 90 (20259) Page (kN (lb) 187.5 (42152) 75 (18867)	AXLES AND BRAKES				
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 Front kN (lb) Max Dynamic Loading 90 (20259)	. ,	<u> </u>			
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 Front kN (lb) Max Dynamic Loading 90 (20259)	Foot operated differential lock with 1009	6 lockup			
Self equalizing and self adjusting Internal wet disc parking brake Selectable 2 or 4 wheel braking Axle Ratings Max Static Loading Front kN (lb) Max Dynamic Loading 90 (20259)	16° front axle oscillation to maintain max	kimum ground contact and traction			
Internal wet disc parking brake Selectable 2 or 4 wheel braking Axle Ratings Front kN (lb) Axle Rations Max Static Loading Max Dynamic Loading 90 (20259)	High capacity outboard mounted wet disc brakes				
Selectable 2 or 4 wheel braking Axle Ratings Front kN (lb) Axle Ratios Max Static Loading Max Dynamic Loading 90 (20259)	Self equalizing and self adjusting				
Axle Ratings Max Static Loading Max Dynamic Loading Front kN (lb) 225 (50582) 90 (20259)	Internal wet disc parking brake				
Front kN (lb) 225 (50582) 90 (20259)	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)		

Over Tyres	Over Bucket
7.9 (26')	10.8 (35'8")
7.0 (23')	10.0 (33')
	7.9 (26')

TRANSMISSION		
4 speed synchro shuttle gearbo	x	
Modulated forward and reverse cli	utch packs enable smooth direction cha	anges
De-clutch button on shift lever		
Direction control with neutral safety	interlock	
Single stage torque converter with	3.01:1 stall ratio	
Tyres	Front: Rear:	12.5/80 x 18 12 PR TR-09 IND 16.9 x 28 12 PR TI-06 IND
Travel Speeds		Forward/Reverse Km/h (mph)
1st		5.9 (4)
2nd		9.5 (6)
3rd		20.2 (13)
4th		40 (25)
4 speed servo power synchro		
Automatic and manual shifting		
Push button kickdown and kick up	o in 1st and 2nd gear	
Automatic shifting between 4th, 3rd	d and 2nd	

Single stage torque convertor with 3.01:1 (Standard SPS)

Tyres	Front: Rear:	12.5/80 x 18 12 PR TR-09 IND 16.9 x 28 12 PR TI-06 IND
Travel Speeds		Forward Km/h (mph)
1st		5.9 (4)
2nd		9.5 (6)
3rd		20.2 (13)
4th		40 (25)
Travel Speeds		Reverse Km/h (mph)
1st		5.9 (4)
2nd		9.5 (6)
3rd		20.2 (13)
HYDRAULIC SYSTEM		

andem gear pumps with unloader valve	
closed centre control valves	
xternal oil level gauge	
25 micron suction strainer	
0 micron return line filter	
0 micron fitller breather	
fain pump flow @ 2200 rpm I/min (gpm US/gpm)	85 (22/19)
econdary pump flow @ 2200 rpm l/min (gpm US/gpm)	58 (15/13)
ystem main relief setting bar (psi)	250 (3626)

OPERATING WEIGHTS	
Base Machine Weight* kg (lb)	8060 (17769)
7in1 Multipurpose Bucket (1.2m³) kg (lb)	+337 (743)
Loader Bucket Fork Kit kg (lb)	+153 (337)
Deep Dig Dipper kg (lb)	+217 (478)
ROPS Frame kg (lb)	-128 (282)

*Base operating weight includes cab, standard bucket, standard dipper, 600 mm (24") bucket, full tank of fuel and a 75kg (165 lb)

TLB880 - BACKHOE LOADERS - SIDESHIFT

^{**}Based on basic machine configuration; cab, standard loader bucket, standard dipper stick, 24 in | 600 mm bucket, full fuel tank.

TECHNICAL DATATLB880 - STAGEV / TIER 4 FINAL

TYRES
Mitas 18" Front - 28" Rear
Mitas 18" Front - 26" Rear
Mitas 20" Front - 26" Rear (Industrial)
Mitas 20" Front - 30" Rear (Industrial)
Michelin 20" Front - 28" Rear (Semi-industrial)
Michelin 20" Front - 30" Rear (Semi-industrial)
Michelin 18" Front - 28" Rear
Michelin 18" Front - 26" Rear

PALLET FORKS	Standard / 7 in 1 Bucket
Fork length	1067 mm (3'6")
Section width	80 mm (3")
Assembly weight kg (lb)	150 (330)
Max. operating height	3097 mm (10'2")
Reach at ground level	2660 mm (8'9")
Reach at full height	2251 mm (7'5")
S.W.L. at 500mm load centre kg (lb)	1000 (2204)

SIDESHIFT BACKHOE (Load chart for Extending Dipperstick using boom cylinder for lifting)	3.2 m (10'6")	4.1 m (13'5")	4.7 m (15'5")	5.2 m (17'1")	5.8 m (19')	6.1 m (20')
	1269 kg (2798 lbs)	1163 kg (2564 lbs)	829 kg (1828 lbs)	846 kg (1865 lbs)	743 kg (1638 lbs	578 kg (1274 lbs)
	1076 kg (2372 lbs)	1163 kg (2564 lbs)	829 kg (1828 lbs)	334 kg (736 lbs)	265 kg (584 lbs)	562 kg (1239 lbs)
	801 kg (1766 lbs)	974 kg (2147 lbs)	762 kg (1680 lbs)	610 kg (1345 lbs)	524 kg (1155 lbs)	416 kg (917 lbs)

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

BACKHOE BUCKETS	Width mm (ins) Capacity m ³ (ft ³)		Weight Kg (lbs)	
	305 (12)	0.074 (2.62)	99 (218)	
Standard trenching	450 (18)	0.120 (4.25)	114 (251)	
	600 (24)	0.177 (6.26)	136 (300)	
Heavy duty	750 (30)	0.236 (8.32)	157 (346)	
	900 (36)	0.296 (10.44)	178 (392)	
	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)	
Ditch cleaning	900 (36)	0.330 (11.66)	198 (436)	
	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	2386 mm (7'8")	2386 mm (7'8")
Capacity m³ (yd³)	1.2 (1.57)	1.2 (1.57)
Weight kg (lbs)	430 (948)	430 (948)

SIDESHIFT BACKHOE (Load Chart for Standard Dipperstick using boom cylinder for lifting)	3.2 m (10'6")	3.8 m (12'6")	4.3 m (14'1")	4.6 m (15'1")	5.0 m (16'5")
	1117 kg (2463 lbs)	1319 kg (2908 lbs)	1153 kg (2542 lbs)	1058 kg (2332 lbs)	979 kg (2158 lbs)
20	1151 kg (2538 lbs)	1335 kg (2943 lbs)	1207 kg (2661 lbs)	1067 kg (2352 lbs)	956 kg (2108 lbs)
	803 kg (1770 lbs)	981 kg (2163 lbs)	819 kg (1806 lbs	732 kg (1614 lbs)	665 kg (1466 lbs)
L					

- . Standard 600 mm (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**

ENGINE (EU STAGE V / U.S. EPA TIER 4 FINAL*)

Perkins 904J-E36TA

Wastegate turbo and charge air cooled

Electric fuel pump Electronic fuel injection

Auto Idle

4 Glow plug starting aid

Vertical spin on oil filter

Primary fuel filter with water separator

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 with auto tensioner

Gear driven water pump

Puller type 9 bladed cooling fan

Dual element Powercore air cleaner

Stainless steel muffler and Exhaust Stack (DOC, SCR & DPF Exhaust System)

ENGINE OPTIONS

Fan guard

DRIVE LINE

Synchro shuttle transmission 4F/4R speeds

Direction control with neutral safety interlock

Transmission de-clutch on gear and loader controls

Removable 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 • 2 Kevlar friction discs (289 mm dia) per side

Total friction area per side 1238 cm² (192 in²)

Brakes self adjusting and self equalising

Dual brake pedals with combined or independent use

Internal wet disc parking brake

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

DRIVE LINE OPTIONS

Servo power synchro (SPS) transmission 4F/3R speeds

Column mounted rotational control lever

Automatic shifting between 4th, 3rd and 2nd

Kick down 2/1 and Kick up 1/2

Torque Convertor stall ratio 3.01:1 (Standard SPS)

CAB AND CANOPY

ROPS/FOPS conform to ISO 3471/3449

Self cleaning footsteps and large grab handles

Internal rear view mirror

Folding external rear view mirror 2 cup holders

Coat hook

Tilt and Telescopic steering wheel

Front and rear horn

Seat storage for operators manual

2 in (51 mm) retractable seat belt

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

_aminated windscreen

Tinted toughened safety glass

Front and rear screen washers and wiper

Standard fabric seat with mechanical suspension

Rotary hand throttle incorporating auto idle

Heater (7.37 kW)

Lockable chilled storage box

Digital clock

Cell phone holder with power plug

Pre installation of wiring for radio

Internal noise level 78 dB(a)

37 warnings either visual or audible

Engine hour meter

4 front and 4 rear LED worklights

4 Gauges for fuel level, engine coolant temperature,

adblue level and rpm

2 external power sockets for beacor

CAB OPTIONS

Air conditioning (7.6 kW cooling)

Automatic Temperature Control

Premium high back seat, heated with air suspension

3 in 1 seat belt

Speedometer

Radio kit

LOADER

Mechanical - Hydraulic Anti-spill

Control lever with transmission disconnect and pump

dump 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 1 m³ with lifting eye

7 in 1 bucket 1 m³ with lifting eye

Bucket teeth or bolt on reversible cutting edge

7 in 1 bucket operation by thumb slider control

LOADER OPTIONS

Standard bucket 1.2 m³ with lifting eye

7 in 1 bucket 1.2 m3 with lifting eye

Pallet forks with safe working load of 1000 kgs

3rd hydraulic line with standard bucket

Hose burst valves

Ride control Bucket tooth guard

Mechanical or hydraulic quick attach

BACKHOE

Straight style boom

Standard dipperstick

Externally adjustable lubrication free wear pads (8)

Cable operated dual transport lock

Externally adjustable stabiliser wear pads

SAE/ISO/Diagonal lever controls

Standard trenching buckets with reversible side cutters

BACKHOE OPTIONS

Inner slide extendable dipperstick

Stabiliser lock out valves

Boom and Dipper hose burst valves

Hydraulic and Mechanical quick attach Auxilliary circuit with single and double acting operation

HD buckets with power and speed positions

Quick release rubber street pads

GENERAL POINTS

Heavy duty chassis construction

operated backhoe controls

Lockable side mounted toolbox

Fully tilting engine hood

Lifting eyes and Tie downs (2 front and rear Tandem gear pump hydraulics with mechanically

OPTIONS

Reverse Warning Alarm Front Fenders

Premium Brand Tyres

Front hard nose counterweight

Environmental Protection Agency (EPA) - Depending on your Local Legislation

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



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