

NEW TLB880

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





THE NEW SIDESHIFT BACKHOE LOADER

LOADER SIDE

- High Breakout force and (42kN / 9442lbf)

 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



OPENING REAR QUARTER WINDOWS FOR IMPROVED **VENTILATION AND** TRENCHING VISIBILITY LED WORKLIGHTS 4 FRONT AND 4 REAR AS STANDARD **UPAND OVER** REAR WINDOW FOR EXCELLENT VENTILATION

POWER-ASSISTED BRAKES OFFER EXCELLENT BRAKING WITH REDUCED OPERATOR EFFORT

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



→ TECHNICAL DATATLB880 - STAGE V / TIER 4 FINAL

BAG	CKHOE DIMENS	IONS*		Standard Dipper	Deep Di	g Dipper
					Retracted	Extended
A	Dig depth	Maximo 60 cm (2 ft) Flat Botte	um SAE om 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	l level to slew		5725 mm (18'9")	5725 mm (18'9")	6995 mm (22'11")
C	Loading reach			1740 mm (5'8")	1740 mm (5'8")	2672 mm (8'9")
D	Operating heigh	t		5623 mm (18'5")	5323 mm (17'6")	6606 mm (21'8")
E	Loading height :	SAE		3963 mm (13')	3963 mm (13')	4939 mm (16'2")
-	Max dumping h	eight		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	degrees	Speed Power	194 163	194 163	194 163
Stal	biliser spread			2290 mm (7'6")	2290 mm (7'6")	2290 mm (7'6")
Max	kimum levelling ar	ngle degrees		6	6	6

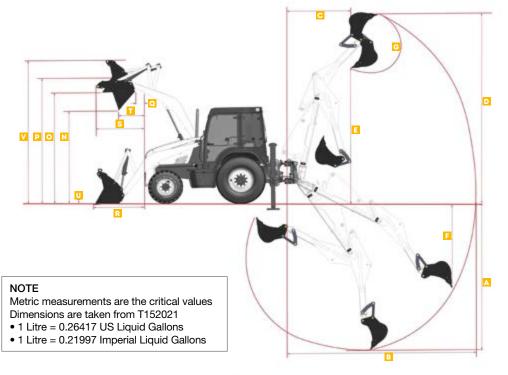
^{*}Includes standard 600 mm (2') HD bucket.

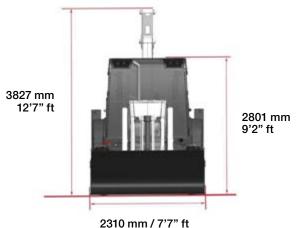
10	ADER DIMENSIONS	Standard / 7 in 1 Bucket
N	Dump clearance – at 45°	2722 mm (8'11")
0	Loader height	3262 mm (10'8")
Р	Hinge pin height	3510 mm (11'6")
Q	Pin forward reach	385 mm (1'3")
R	Reach at ground	1454 mm (4'9")
S	Max. reach at full height	1214 mm (3'12")
T	Reach at full height – at 45°	732 mm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

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





Note: image is for reference purpose only

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

ENGINE

Wastegate turbocharger with charge air cooling

Perkins 904J-E36TA

Derived NET Torque

Torque rise 38%

403 Nm (297 lb.ft)

EU Stage V / U.S. EPA Tier 4 Final*

Electronic fuel injection

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

500 hours service period

	300 Hours service period
Cylinders	4
Capacity	3.6 L (221 in ³)
Rated speed	2200 rpm
Gross power @ 2200 rpm cert. rating to UN/ECE 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	430 Nm (317 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
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

CAPACITIES	Ltrs (gals)
Fuel tank	135.0 (29.6)
Adblue Tank	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					
% lockup					
kimum 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					
Max Static Loading	Max Dynamic Loading				
225 (50582)	90 (20259)				
187.5 (42152)	75 (16867)				
	% lockup kimum ground contact and traction sc brakes Max Static Loading 225 (50582)				

TURNING CIRCLES		
	Over Tyres	Over Bucket
Without brakes m (ft)	7.9 (26')	10.8 (35'8")
With brakes m (ft)	7.0 (23')	10.0 (33')

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: 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 in 1st and 2nd gear

Automatic shifting between 4th, 3rd 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	
Tandem gear pumps with unloader valve	
Closed centre control valves	
External oil level gauge	
125 micron suction strainer	
10 micron return line filter	
10 micron fitller breather	
Main pump flow @ 2200 rpm I/min (gpm US/gpm)	85 (22/19)
Secondary pump flow @ 2200 rpm I/min (gpm US/gpm)	58 (15/13)
System 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)



→ TECHNICAL DATATLB880 - STAGE V / TIER 4 FINAL

YRES	
fitas 18" Front - 28" Rear	
fitas 18" Front - 26" Rear	
fitas 20" Front - 26" Rear (Industrial)	
fitas 20" Front - 30" Rear (Industrial)	
fichelin 20" Front - 28" Rear (Semi-industrial)	
fichelin 20" Front - 30" Rear (Semi-industrial)	
flichelin 18" Front - 28" Rear	
flichelin 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)
		L				

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 m³ (ft³)	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)
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)
	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 —			w w	

- 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 mirrors

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

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 (7.37 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 beacon

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

Lockable side mounted toolbox

Fully tilting engine hood

Lifting eyes and Tie downs (2 front and rear)

Tandem gear pump hydraulics with mechanically operated backhoe controls

OPTIONS

Reverse Warning Alarm

Front Fenders

Premium Brand Tyres

Front hard nose counterweight

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

^{*} Environmental Protection Agency (EPA) - Depending on your Local Legislation



MECALAC FRANCE S.A.S.

2, avenue du Pré de Challes Parc des Glaisins - CS 40230 Annecy-le-Vieux FR - 74942 Annecy Cedex Tel. +33 (0)4 50 64 01 63

MECALAC BAUMASCHINEN GMBH

Am Friedrichsbrunnen D-24782 Büdelsdorf Tel. +49 (0)43 31/3 51-319

MECALAC CONSTRUCTION EQUIPMENT UK LTD

Central Boulevard, ProLogis Park Coventry, CV6 4BX, UK Tél. +44 (0)24 7633 9539

MECALAC İŞ MAKINELERI SAN VE TIC. LTD. ŞTI.

Ege Serbest Bölgesi Nilüfer 1 Sok. No: 34 35410, Gaziemir İzmir - Türkiye Tel. +90 232 220 11 15











