

Mecalac

BACKHOE LOADERS
SIDESHIFT SERIES



BACKHOE LOADERS
SIDESHIFT SERIES **Mecalac**



INSPIRING THE NEXT GENERATION

With almost 60 years' expertise in the design, development and manufacture of backhoe loaders, our world-renowned range is designed to deliver durability, versatility and productivity for the operator. Available in both centre mount and side shift variations, we have the perfect model for every application.

The dual functionality of our backhoe loaders combines the power of a wheel loader and the versatility of a compact excavator into one dynamic machine – productive, cost effective and flexible... enough to boost your bottom line!

Manufactured at our state-of-the-art production facility in the UK, we continue to innovate, setting new standards in compact construction.

KEY FEATURES

- High ground clearance to suit tough terrain
- Excellent operator visibility
- Ergonomically-designed controls
- Easy maintenance access
- Powerful hydraulics make light work of tough tasks
- Excellent lift capacity and bucket breakout force
- LED worklight for improved reliability and worksite illumination







THE TLB870 EXCEPTIONAL COST EFFECTIVE PERFORMANCE

Modern, efficient and class-leading, the TLB870 has been specifically developed for the rental marketplace. Packed full of modern design features, the affordable loader is ideal for those looking towards a robust and reliable earthmoving solution.

The 55 kW (74 hp) EU Stage IIIB (U.S. EPA Tier 4 Final*) engine meets emissions regulations without the use of DPFs or AdBlue, offering smooth power delivery and efficient operation.

An intelligent and efficient 'inloader' hydraulic system provides automatic control of the tandem gear pump to provide improvements in fuel efficiency and control, while best-in-class excavator dig depth, reach and dipper tear out finish an incredibly capable machine.



KEY MODEL DETAILS

Overall width	2310 mm (7'7")
Turning circle	7960 mm (25'1")
Travel speed	38 km/h (24 mph)
Engine power	55 kW (74 hp) (EU Stage IIIB)
Hydraulic System	Open Centre
Pump Flow	128 l/min (28 gpm)
Tearout force / Loader	4600 daN (10341 lbf)

Breakout force / Loader	4200 daN (9442 lbf)
Lift capacity @ Max Height	3759 kg (8288 lbs)
Lift height / Loader	3509 mm (11'6")
Max. reach	6995 mm (22'11")
Max. depth	5744 mm (18'10")
Tearout force / Excavator	4220 daN (9487 lbf)
Breakout force / Excavator	6870 daN (15444 lbf)

*According to National regulation - Environmental Protection Agency (EPA)



THE TLB890 EXTRA POWER, GREATER FLEXIBILITY

Designed for owner operators, the TLB890 delivers power, performance, an impressive reach and outstanding dig depth. Together, this ensures fast cycle times and greater operation economies.

With high breakout forces and lifting capabilities, the TLB890 backhoe loader is suited to a wide range of applications, including civil engineering, highway construction and maintenance, utilities and agriculture. Fitted with an 82 kW (110 hp) EU Stage V (U.S. EPA Tier 4 Final*) compliant engine the TLB890 provides excellent pushing power for loading. When fitted with the optional Active Drive transmission road travel has never been better!



KEY MODEL DETAILS

Overall width	2386 mm (7'8")
Turning circle	7900 mm (25'9")
Travel speed	40 km/h (25 mph)
Engine power	82 kW (110 hp)
Hydraulic System	Closed Centre
Pump Flow	164 l/min (36 gpm)
Tearout force / Loader	5110 daN (11487 lbf)

Breakout force / Loader	5540 daN (12454lbf)
Lift capacity @ Max Height	3966 kg (8744 lbf)
Lift height / Loader	3615 mm (11'10")
Max. reach	6950 mm (22'10")
Max. depth	5698 mm (18'8")
Tearout force / Excavator	4110 daN (9240 lbf)
Breakout force / Excavator	6780 daN (15242 lbf)

*According to National regulation - Environmental Protection Agency (EPA)



THE TLB990 EXCEPTIONAL COST EFFECTIVE PERFORMANCE

The TLB990 is designed for professionals who demand outstanding performance, fitted with an 82 kW (110 hp) EU Stage V (U.S. EPA Tier 4 Final*) compliant engine our top-of-the-range loader is innovative, efficient and delivers impressive results.

Packed with new features and additions, including our four-wheel steering system and crab steer mode, the TLB990 has been centred around those in the driving seat, with productivity and ease of operation at the top of the priority list.

The TLB990 comes as standard with the Servo Power Synchro transmission including Active Drive transmission lock-up, this provides the operator with automatic shifting as well as enhanced road capability.



KEY MODEL DETAILS

Overall width	2386 mm (7'8")
Turning circle	7300 mm (23'10")
Travel speed	39.5 km/h (24.5 mph)
Engine power	82 kW (110 hp)
Hydraulic System	Closed Centre
Pump Flow	164 l/min (36 gpm)
Tearout force / Loader	5110 daN (11487 lbf)

Breakout force / Loader	5540 daN (12454 lbf)
Lift capacity @ Max Height	3966 kg (8744 lbf)
Lift height / Loader	3671 mm (12')
Max. reach	6950 mm (22'10")
Max. depth	5640 mm (18'6")
Tearout force / Excavator	4110 daN (924 0lbf)
Breakout force / Excavator	6780 daN (15242 lbf)

*According to National regulation - Environmental Protection Agency (EPA)



THE RIGHT TOOLS FOR THE JOB

Alongside standard fittings, we offer a comprehensive range of attachments to make your backhoe the perfect tool for every job.

PALLET FORKS

- Safe working load at 500 mm (1'8") load centre – 2500 kg (5511 lbs)
- Class 2B 100 mm (4 in) x 40 mm (1.6 in)
- Weight 228 kg (502 lbs)

HIGH-TIP BUCKET

- Heaped capacity of 0.97 m³ (1.3 yd³)
- Dump height of 4100 mm (13'5")
- Weight 840 kg (1852 lbs)

LOADER QUICK ATTACH

- Simple design
- Mechanical or hydraulic locking
- Picks up standard and 7-in-1 buckets

FARM FORK AND GRAPPLE

- 2290 mm wide (7'6")
- Perfect for handling manure and silage
- Can also be used in recycling applications

BROOM BUCKET

- Bucket capacity 0.58 m³ (0.76 yd³)
- Max width 2750 mm (9')
- Max flow 76 l/min (17 gpm)
- Maximum pressure 207 bar (3002 PSI)

7-IN-1 BUCKET

- Digging
- Loading
- Dozing
- Scraping
- Spreading
- Grabbing
- Lifting

HYDRAULIC BREAKER

- Powerful performance
- Max energy per blow 1100 Joules
- Blow rate 550-1100 per min
- Simple servicing

EXCAVATOR QUICK ATTACHES

- Hydraulic version enables bucket changing from the cab
- Picks up competitive buckets
- Mechanical version available



→ TECHNICAL DATA TLB870 – EU STAGE IIIB

BACKHOE DIMENSIONS*		Standard Dipper	Deep Dig Dipper		
			Retracted	Extended	
A	Dig depth	Maximum SAE	4401 mm (14'5")	4401 mm (14'5")	5744 mm (18'10")
		60 cm (2 ft) Flat Bottom SAE	4388 mm (14'4")	4388 mm (14'4")	5731 mm (18'8")
B	Reach – ground 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 height		5182 mm (17')	5182 mm (17')	5782 mm (18'12")
E	Loading height SAE		3963 mm (13')	3963 mm (13')	4939 mm (16'2")
F	Max dumping height		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	194	194	194
Stabiliser spread			2290 mm (7'6")	2290 mm (7'6")	2290 mm (7'6")
Max. levelling angle degrees			6.2	6.2	6.2

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

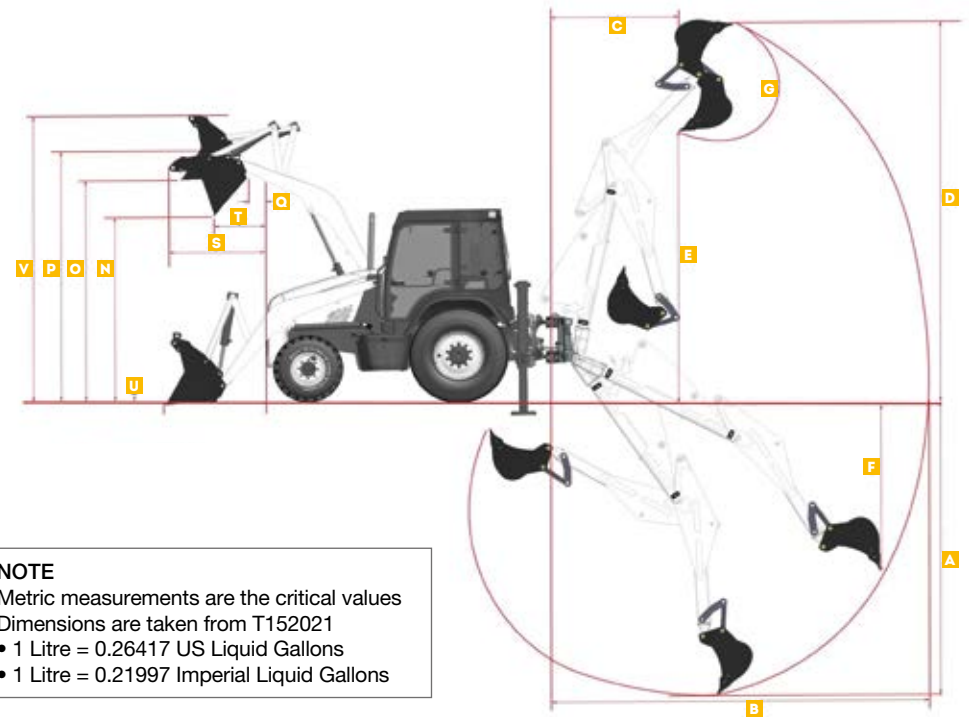
LOADER DIMENSIONS		Standard / 7 in 1 Bucket
N	Dump clearance – at 45°	2722 mm (8'11")
O	Loader height	3262 mm (10'8")
P	Hinge pin height	3509 mm (11'6")
Q	Pin forward reach	385 mm (1'3")
R	Reach at ground	1454 mm (4'9")
S	Max. reach at full height	1214 mm (3'12")
T	Reach at full height – at 45°	732 mm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

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 (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	60 (13489) 60 (13489)	60 (13489) 60 (13489)	47 (10566) 47 (10566)	
	Power	N/A 68.7 (15444)	N/A 68.7 (15444)	54 (12140) 54 (12140)	

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

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

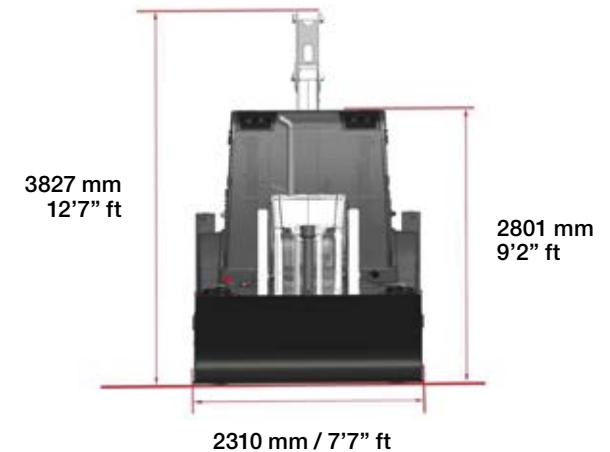
**Based on basic machine configuration; cab, standard loader bucket, standard dipper stick, 24 in | 600 mm bucket, full fuel tank.



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 LOADERS – SIDESHIFT

ENGINE

Deutz TCD 3.6 L4 (EU Stage IIIB / U.S. EPA Tier 4 Final*)		Torque Rise 63% Electronic fuel injection
Cylinders		4
Capacity		3.6 L (220 in³)
Rated speed		2200 rpm
Gross power @ 2200 rpm 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)

*According to National regulation - Environmental Protection Agency (EPA) - **Nominal non-certified values.

ELECTRICAL SYSTEM

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 (30.8 / 37.0)
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 servicing

Foot operated differential lock with 100% lockup

16° front axle oscillation to maintain maximum ground contact to aid traction

Power boosted inboard wet 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')

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 Km/h (mph)	
1st	5.8 (4)	
2nd	9.3 (6)	
3rd	19.9 (12)	
4th	37.6 (23)	

HYDRAULIC SYSTEM

Tandem gear pumps with inloader valve

Open centre valves

External oil level gauge

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)

→ TECHNICAL DATA TLB870 - EU STAGE IIIB

TYRES

Front – Tractor Industrial 12.5/80 x 18 12 Ply Tubeless

Rear – Tractor Industrial 16.9 x 28 12 Ply Tubeless

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)

BACKHOE BUCKETS

	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)
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)
Trapezoidal	1800 (72)	0.317 (11.2)	204 (450)
	1200 (48)	0.258 (9.1)	146 (322)

LOADER BUCKETS

	Standard Bucket	7 in 1 Bucket
Width	2311 mm (7'7")	2311 mm (7'7")
Capacity m ³ (yd ³)	1 (1.32)	1 (1.32)
Weight kg (lbs)	400 (880)	730 (1606)

SIDESHIFT BACKHOE

(Load chart for Extending Dipperstick using boom cylinder for lifting)

2.8 m
(9'2")

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)

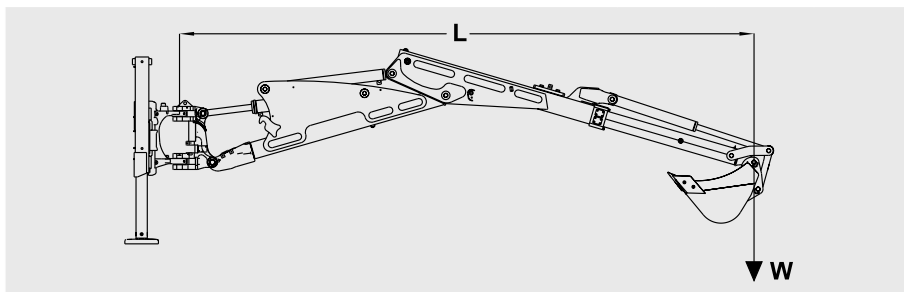
974 kg
(2147 lbs)

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

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)

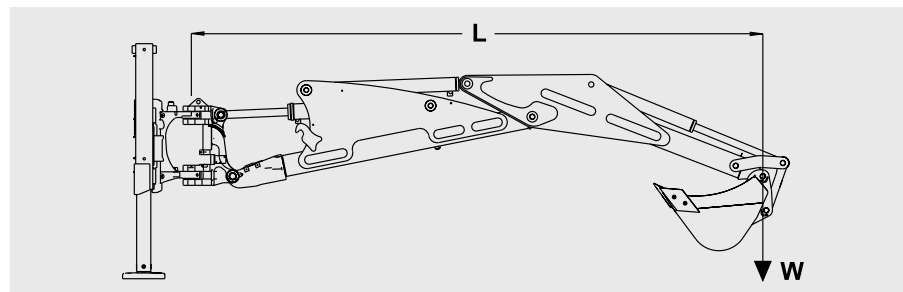
803 kg
(1770 lbs)

981 kg
(2163 lbs)

819 kg
(1806 lbs)

732 kg
(1614 lbs)

665 kg
(1466 lbs)



Note

- 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

BACKHOE LOADERS - SIDESHIFT



STANDARD AND OPTIONAL EQUIPMENT

ENGINE

Deutz 3.6TCD L4 (EU Stage IIIB / U.S. Tier 4 Final)
 Diesel oxidation catalyst (DOC)
 Wastegate turbo and charge air cooled
 Electric fuel pump
 Common rail fuel injection
 4 glow plug starting aid
 Horizontal spin on oil filter
 Primary fuel filter with water separator
 Vertical element secondary fuel filter
 500hr service period
 Oil to air/water plate type oil cooler
 Engine gradeability fore/aft and side/side: 30°
 Anti-freeze rated to -37°C
 Coolant Header Tank
 Alternator, Fan and water pump drive by Multi V Belt
 Puller type 6 blade cooling fan
 Dual element powercore air cleaner
 Stainless steel exhaust stack

DRIVE LINE

Synchro shuttle transmission 4F/4R speeds
 Direction control with neutral safety interlock
 Transmission de-clutch on gear and loader controls
 Torque converter stall ratio 3.01:1
 Servo power synchro 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
 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 - 3 kevlar friction discs per side
 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 - Laden 1:2.5
 Hydrostatic steering with emergency manual operation
 4wd standard
 Selectable 2 and 4 wheel braking in all gears
 Selectable 2 and 4wd

CAB AND CANOPY

Cab with 2 door access
 ROPS/FOPS conform to ISO3471/3449
 Access from both sides
 Self cleaning footsteps and large grab handles
 Internal rear view mirror
 Folding external rear view mirrors
 2 cup holders
 Coat hook
 Tilt adjustable steering wheel
 Side console mounted horn switch
 Seat storage for operators manual
 2 in (51 mm) retractable seat belt
 1 auxiliary 12 volt outlet
 Opening rear quarter windows with internal operation
 Full depth up and over rear window
 Laminated windscreen
 Tinted toughened safety glass
 Front and rear screen washer and wipers
 Fabric seat with mechanical suspension
 Cab heater (7.37 kW)
 Front side lights with direction indicators
 Internal noise level 78 dB (a)
 Digital gauge for warning lights, fuel level, engine temperature, RPM and machine hours.
 4 front and 4 rear worklights
 2 external power points for beacons

CAB OPTIONS

3 inch seat belt
 Steering wheel spinner
 Air conditioning (7.6 kW cooling)

LOADER

Hydro-Mechanical Self leveling
 Control lever with transmission disconnect button
 Single bucket cylinder
 Bucket cylinder cushioning
 Return to dig
 Float position with positive hold
 Bucket level indicator
 Integral loader arm safety bar
 Standard 1m³ bucket with lifting eye
 Bucket teeth or bolt on reversible cutting edge

LOADER OPTIONS

7in1 1m³ bucket with lifting eye
 3rd hydraulic line with standard bucket
 Pallet forks with safe working load of 1000kg
 Ride control
 Loader bucket return to dig
 Bucket tooth guard
 Hose burst valves
 Mechanical Quick Attach

BACKHOE

Straight Style Boom
 Standard dippestick
 Inner slide "deep dig" dipperstick
 Externally adjustable lubrication free wear pads
 Dual transport lock - Cable operated
 Servo Excavator Controls
 ISO/SAE pattern change switch

BACKHOE OPTIONS

Mechanical quick attach
 Auxiliary hydraulics with single and double acting operation
 Stab leg lock out valves
 Boom and Dipper hose burst valves
 Object Handling Kit
 Standard trenching buckets with reversible side cutters
 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)
 18" front and 28" rear Mitas Tyres
 Tandem gear pump with 'Inloader' hydraulic system

OPTIONS

Front Fenders
 Cold start kit
 Reverse Alarm
 Front hard nose counterweight

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

→ TECHNICAL DATA TLB890 - EU STAGE V

BACKHOE DIMENSIONS*		Standard Dipper		Deep Dig Dipper	
		Retracted		Extended	
A	Dig depth	Maximum SAE	4498 mm (14'9")	4498 mm (14'9")	5698 mm (18'8")
		2 ft Flat Bottom SAE	4448 mm (14'7")	4448 mm (14'7")	5612 mm (18'5")
B	Reach – ground level to slew		5877 mm (19'3")	5877 mm (19'3")	6950 mm (22'10")
C	Loading reach		2274 mm (7'6")	2274 mm (7'6")	3293 mm (10'10")
D	Operating height		5509 mm (18'1")	5509 mm (18'1")	6143 mm (20'2")
E	Loading height SAE		3855 mm (12'8")	3855 mm (12'8")	4489 mm (14'9")
	Max dumping height		3791 mm (12'5")	3791 mm (12'5")	4424 mm (14'6")
F	Bucket rotation degrees	Speed	197	197	197
		Power	166	166	166
Total sideshift			1178 mm (3'10")	1178 mm (3'10")	1178 mm (3'10")
Stabiliser spread			2115 mm (6'11")	2115 mm (6'11")	2115 mm (6'11")
Max. levelling angle degrees			8	8	8

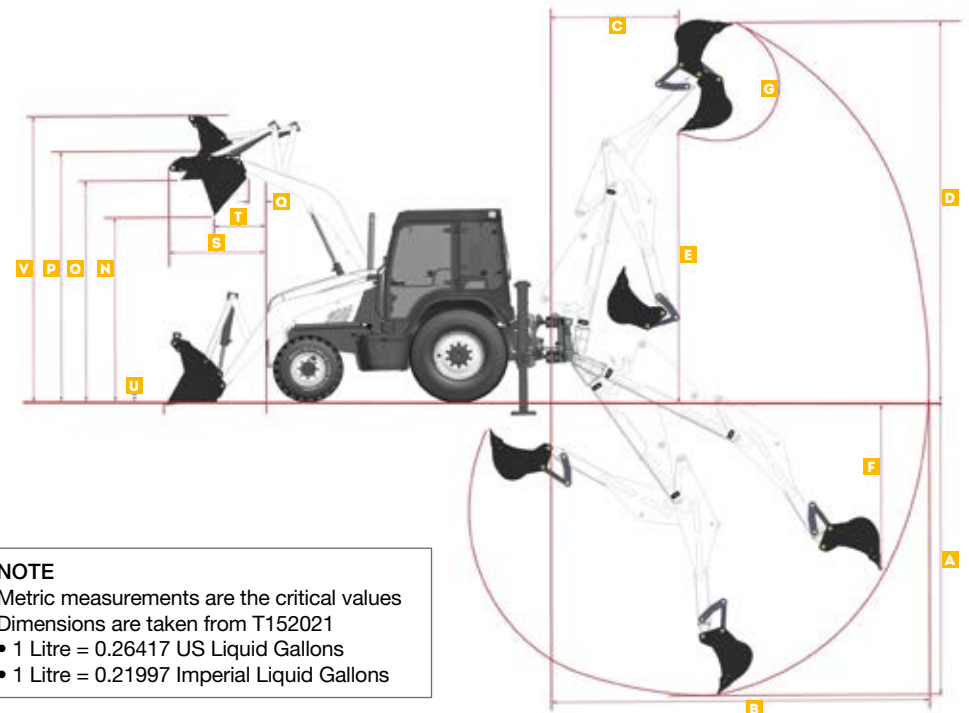
*Includes standard 600 mm HD bucket.

LOADER DIMENSIONS		Standard / 7 in 1 Bucket	
N	Dump clearance – at 45°		2850 mm (9'4")
O	Loader height		3369 mm (11'1")
P	Hinge pin height		3615 mm (11'10")
Q	Pin forward reach		315 mm (1')
R	Reach at ground		1451 mm (4'9")
S	Max. reach at full height		1186 mm (3'11")
T	Reach at full height – at 45°		731 mm (2'5")
	Dig depth		156 mm (6")
U	Rollback at ground		50°
	Max. dump angle fully raised		47°
V	Overall operating height		4682 mm (15'4")

BACKHOE PERFORMANCE		Standard Dipper		Deep Dig Dipper	
		Standard Bucket HD Bucket		Retracted	
				Standard Bucket HD Bucket	
				Extended	
				Standard Bucket HD Bucket	
Max slew torque kNm (lbf-ft)		27.8 (20504)		27.8 (20504)	
Dipper tearout kN (lbf)		41.1 (9240) 41.1 (9240)		41.1 (9240) 41.1 (9240)	
(SAE J49 Standard)				29 (6519) 29 (6519)	
Bucket tearout kN (lbf)		60.3 (13556) 60.3 (13556)		60.3 (13556) 60.3 (13556)	
Speed		60.3 (13556) 60.3 (13556)		60.3 (13556) 60.3 (13556)	
(SAE J49 Standard)		– 67.8 (15242)		– 67.8 (15242)	
Power					

LOADER PERFORMANCE		Standard Bucket		7 in 1 Bucket	
Bucket breakout kN (lbf)		55.4 (12454)		53.7 (12072)	
Arms breakout kN (lbf)		51.1 (11487)		47.8 (10746)	
Rated operating capacity		3503 (7722)		3166 (6980)	
(ISO 14397) kg (lb)					
Full height kg (lb)		3966 (8744)		3629 (8000)	

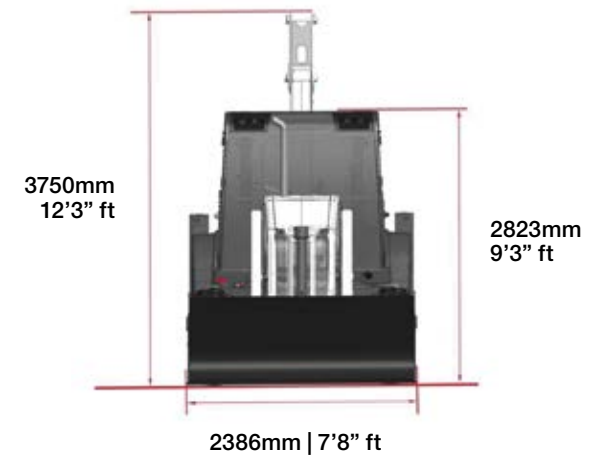
Loader specifications are stated in accordance with ISO 14397 and EN474 Part 4



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 LOADERS – SIDESHIFT

ENGINE			
Perkins 904J-E36TA		Wastegate turbocharger with charge air cooling	
EU Stage V / U.S. EPA Tier 4 Final*		Torque rise 38%	
		Electronic fuel injection	
		Stainless steel muffler and Exhaust Stack (DOC, SCR & DPF Exhaust System)	
Cylinders		4	
Capacity		3.6 L (221 in ³)	
Rated speed		2200 rpm	
Gross power @ 2200 rpm cert. rating to UN/ECE R120		82 kW (110 hp**)	
Derived net rating @ 2200 rpm to ISO/80/1269/EC		76.9 kW (103.1 hp**)	
Max Torque @ 1400 rpm			
UN/ECE R120		450 Nm (332 lb.ft**)	
80/1269/EC		424 Nm (312 lb.ft**)	

*According to National regulation - 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	
140 A/hr dual batteries with 1260 CCA – EN Standard	

CAPACITIES	Ltrs (gals)
Fuel tank	135.0 (29.6)
Adblue Tank	19.0 (4.2)
Engine coolant	17.0 (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)

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)

TURNING CIRCLES		
	Over Tyres	Over Bucket
Without brakes m (ft)	7.9 (25'9")	10.6 (34'7")
With brakes m (ft)	7 (23')	9.7 (31'10")

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:	16/70 x 12 18.4 x 26	16/70 x 12 16.9 x 28	16/70 x 12 16.9 x 30
Travel Speeds		Forward/Reverse Km/h (mph)		
1st		5.7 (3.6)	5.7 (3.5)	5.9 (3.7)
2nd		9.2 (5.7)	9.1 (5.7)	9.6 (5.9)
3rd		20.3 (12.6)	20 (12.4)	21 (13)
4th		40.5 (25.1)	40 (24.8)	41 (25.6)
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) or 2.38:1 (Active Drive SPS) stall ratios				
Tyres	Front: Rear:	16/70 x 12 18.4 x 26	16/70 x 12 18.4 x 26	16/70 x 12 16.9 x 30
Travel Speeds		Forward Km/h (mph)		
1st		5.7 (3.6)	5.7 (3.5)	5.9 (3.7)
2nd		9.2 (5.7)	9.1 (5.7)	9.6 (5.9)
3rd		20.3 (12.6)	20 (12.4)	21 (13)
4th		40.5 (25.1)	40 (24.8)	41 (25.6)
Travel Speeds		Reverse Km/h (mph)		
1st		5.7 (3.6)	5.7 (3.5)	5.9 (3.7)
2nd		9.2 (5.7)	9.1 (5.7)	9.6 (5.9)
3rd		20.3 (12.6)	20 (12.4)	21 (13)

HYDRAULIC SYSTEM	
Variable piston pump with Mechanical or Servo excavator controls	
Closed centre control valves	
Power Boost to match digging power and speed to application	
External oil level gauge	
Removable oil cooler	
125 micron suction strainer	
10 micron return line filter	
Single variable piston pump @ 2200 rpm L/min (gpm)	164 (36)
System main relief setting bar (psi)	250 (3625)

→ TECHNICAL DATA TLB890 - EU STAGE V

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

PALLET FORKS


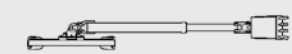

Standard / 7 in 1 Bucket

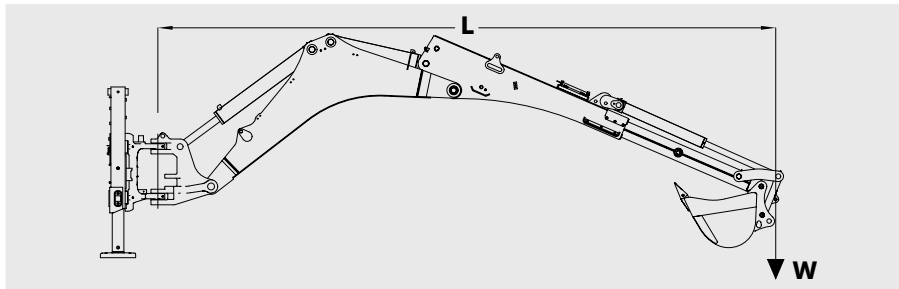
Fork length	1067 mm (3'6")
Section width	80 mm (3")
Assembly weight kg (lb)	150 (330)
Max. operating height	3097 mm (10'2")
Reach at ground level	2660 mm (8'9")
Reach at full height	2251 mm (7'5")
S.W.L. at 500mm load centre kg (lb)	1000 (2204)

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')
------------------	------------------	------------------	------------------	----------------	----------------

	1106 kg (2438 lbs)	1033 kg (2277 lbs)	931 kg (2052 lbs)	846 kg (1865 lbs)	743 kg (1638 lbs)	717 kg (1581 lbs)
	1038 kg (2288 lbs)	578 kg (1274 lbs)	417 kg (919 lbs)	334 kg (736 lbs)	265 kg (584 lbs)	255 kg (562 lbs)
	442 kg (974 lbs)	213 kg (470 lbs)	127 kg (280 lbs)	83 kg (183 lbs)	50 kg (110 lbs)	48 kg (106 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 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)
Trapezoidal	1800 (72)	0.317 (11.2)	204 (450)
	1200 (48)	0.258 (9.1)	146 (322)




LOADER BUCKETS

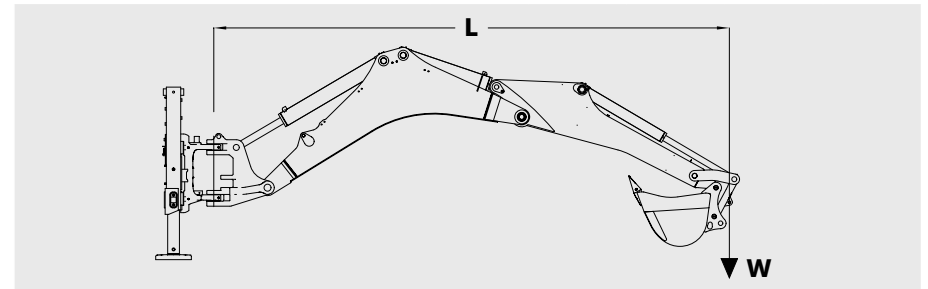
	Standard Bucket	7 in 1 Bucket
Width	2386 mm (7'8")	2386 mm (7'8")
Capacity m³ (yd³)	1.2 (1.57)	1.2 (1.57)
Weight kg (lbs)	430 (948)	430 (948)

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")
------------------	------------------	------------------	------------------	------------------

	1368 kg (3016 lbs)	1366 kg (3011 lbs)	1221 kg (2692 lbs)	1126 kg (2482 lbs)	1052 kg (2319 lbs)
	1214 kg (2676 lbs)	820 kg (1808 lbs)	658 kg (1451 lbs)	576 kg (1270 lbs)	524 kg (1155 lbs)
	614 kg (1354 lbs)	414 kg (913 lbs)	327 kg (721 lbs)	284 kg (626 lbs)	262 kg (578 lbs)



Note

- 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

BACKHOE LOADERS - SIDESHIFT

→ 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
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 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 cm ² (192 in ²)
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)
SPS Active Drive transmission lock-up in 3rd & 4th gears
Torque Convertor stall ratio 2.38:1 (Active Drive 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)
12 audible and visual warning lamps
Engine hour meter

4 front and 4 rear LED worklights
3 Gauges for engine oil temperature, fuel 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 seat belt
Speedometer

LOADER

Mechanical - Hydraulic Anti-spill
Multifunctional control lever
Single bucket cylinder
Bucket cylinder cushioning
Return to dig
Float position with positive hold
Bucket level indicator
Integral Loader arm safety bar
Standard bucket 1.2 m ³ with lifting eye
7 in 1 bucket 1.2 m ³ with lifting eye
Bucket teeth or bolt on reversible cutting edge
7 in 1 bucket operation by thumb slider control

LOADER OPTIONS

Pallet forks with safe working load of 1000 kgs
3rd hydraulic line with standard bucket
Hose burst valves
Auto Ride control
Bucket tooth guard
Mechanical or hydraulic quick attach

BACKHOE

Curved style boom
Standard dipperstick
Inner slide "Deep Dig" dipperstick
Externally adjustable lubrication free wear pads (8)
Electro/hydraulic dual transport lock
Externally adjustable stabiliser wear pads
SAE/ISO/Diagonal 2 lever controls
Standard trenching buckets with reversible side cutters

BACKHOE OPTIONS

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
Hydraulic powered sideshift

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)
Tandem gear pump hydraulics with mechanically operated
Backhoe controls
Variable flow hydraulics with pilot operated Backhoe controls
Pilot controls with constant flow feature

OPTIONS

Reverse Warning Alarm
Front Fenders
Premium Brand Tyres

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

→ TECHNICAL DATA TLB990 - EU STAGE V

BACKHOE DIMENSIONS*		Standard Dipper		Deep Dig Dipper	
		Retracted		Extended	
A	Dig depth	Maximum SAE	4442 mm (14'7")	4442 mm (14'7")	5642 mm (18'6")
		2 ft Flat Bottom SAE	4392 mm (14'5")	4392 mm (14'5")	5556 mm (18'3")
B	Reach – ground level to slew		5877 mm (19'3")	5877 mm (19'3")	6950 mm (22'10")
C	Loading reach		2274 mm (7'6")	2274 mm (7'6")	3293 mm (10'10")
D	Operating height		5509 mm (18'3")	5509 mm (18'3")	6199 mm (20'4")
E	Loading height SAE		3911 mm (12'10")	3911 mm (12'10")	4545 mm (14'11")
	Max dumping height		3847 mm (12'7")	3847 mm (12'7")	4480 mm (14'8")
F	Bucket rotation degrees	Speed	197	197	197
		Power	166	166	166
	Total sideshift		1178 mm (3'10")	1178 mm (3'10")	1178 mm (3'10")
	Stabiliser spread		2115 mm (6'11")	2115 mm (6'11")	2115 mm (6'11")
	Max. levelling angle degrees		8	8	8

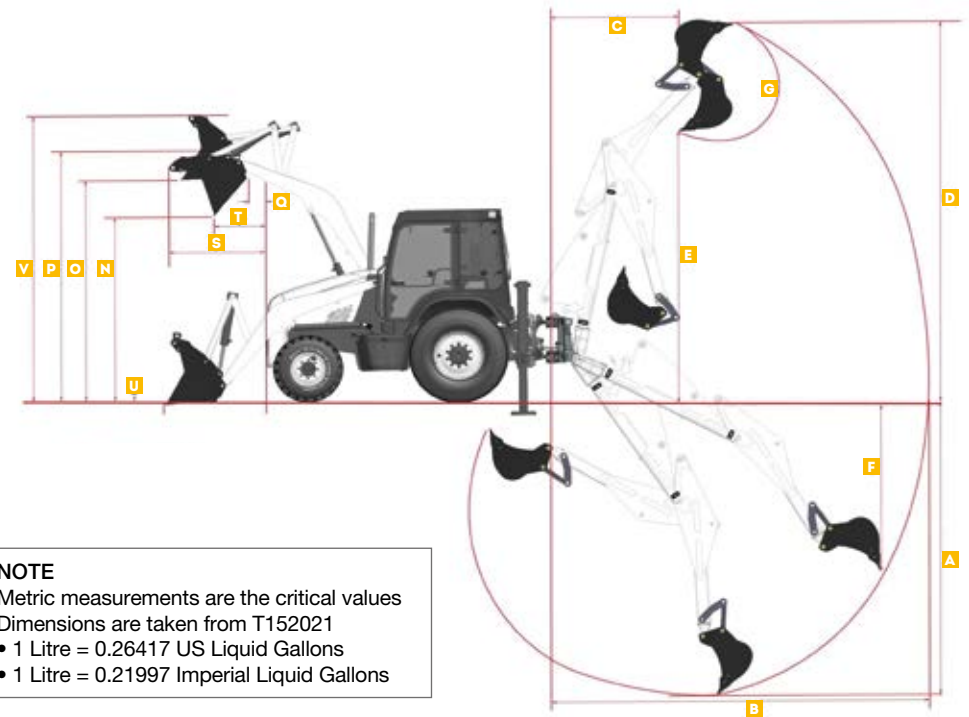
*Includes standard 600 mm HD bucket.

LOADER DIMENSIONS		Standard / 7 in 1 Bucket
N	Dump clearance – at 45°	2906 mm (9'6")
O	Loader height	3425 mm (11'3")
P	Hinge pin height	3671 mm (12')
Q	Pin forward reach	315 mm (1')
R	Reach at ground	1451 mm (4'9")
S	Max. reach at full height	1186 mm (3'11")
T	Reach at full height – at 45°	731 mm (2'5")
	Dig depth	100 mm (4")
U	Rollback at ground	50°
	Max. dump angle fully raised	47°
V	Overall operating height	4738 mm (15'6")

BACKHOE PERFORMANCE		Standard Dipper		Deep Dig Dipper	
		Retracted		Extended	
		Standard Bucket HD Bucket	Standard Bucket HD Bucket	Standard Bucket HD Bucket	Standard Bucket HD Bucket
Max slew torque kNm (lbf-ft)		27.8 (20504)		27.8 (20504)	
Dipper tearout kN (lbf) (SAE J49 Standard)		41.1 (9240) 41.1 (9240)		29 (6519) 29 (6519)	
Bucket tearout kN (lbf)		60.3 (13556) 60.3 (13556)		60.3 (13556) 60.3 (13556)	
Speed		60.3 (13556) 60.3 (13556)		60.3 (13556) 60.3 (13556)	
Power		67.8 (15242)		67.8 (15242)	

LOADER PERFORMANCE		Standard Bucket	7 in 1 Bucket
Bucket breakout kN (lbf)		55.4 (12454)	53.7 (12072)
Arms breakout kN (lbf)		51.1 (11487)	47.8 (10746)
Rated operating capacity (ISO 14397) kg (lb)		3503 (7722)	3166 (6980)
Full height kg (lb)		3966 (8744)	3629 (8000)

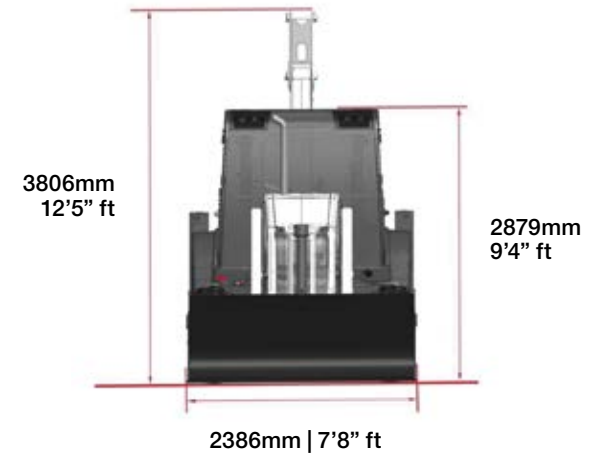
Loader specifications are stated in accordance with ISO 14397 and EN474 Part 4



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 LOADERS – SIDESHIFT

ENGINE		
Perkins 904J-E36TA		Wastegate turbocharger with charge air cooling
EU Stage V / U.S. EPA Tier 4 Final*		Torque rise 38%
		Electronic fuel injection
		Stainless steel muffler and Exhaust Stack (DOC, SCR & DPF Exhaust System)
Cylinders		4
Capacity		3.6 L (221 in³)
Rated speed		2200 rpm
Gross power @ 2200 rpm cert. rating to UN/ECE R120		82 kW (110 hp**)
Derived net rating @ 2200 rpm to ISO/80/1269/EC		76.9 kW (103.1 hp**)
Max Torque @ 1400 rpm		
UN/ECE R120		450 Nm (332 lb.ft**)
80/1269/EC		424 Nm (312 lb.ft**)

*According to National regulation - 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	
140 A/hr dual batteries with 1260 CCA – EN Standard	

CAPACITIES	Ltrs (gals)
Fuel tank	135.0 (29.6)
Adblue Tank	19.0 (4.2)
Engine coolant	17.0 (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)

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		
Self equalizing and self adjusting		
Internal wet disc parking brake		
Selectable 2 or 4 wheel braking		
Selectable 2 wheel, 4 wheel and crab steering		
Axle Ratings	Max Static Loading	Max Dynamic Loading
Front kN (lb)	225 (50582)	90 (20233)
Rear kN (lb)	275 (61822)	105 (23605)

TURNING CIRCLES		
	Over Tyres	Over Bucket
2 wheel steer	11.4 (37'4")	13.1 (42'10")
4 wheel steer	7.3 (23'10")	9.3 (30'5")
With brakes m (ft)	6.7 (21'10")	8.8 (28'9")

TRANSMISSION		
4 speed servo power synchro transmission with Active Drive transmission lock-up in 3rd & 4th gear		
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 2.38:1 (Active Drive SPS) stall ratios		
Tyres	Front:	16.9 x 24
	Rear:	16.9 x 24
Travel Speeds	Forward Km/h (mph)	
1st	6.5 (4.0)	
2nd	10.4 (6.5)	
3rd	23.2 (14.4)	
4th	40.6 (25.2)	
Travel Speeds	Reverse Km/h (mph)	
1st	6.5 (4.0)	
2nd	10.4 (6.5)	
3rd	23.2 (14.4)	

HYDRAULIC SYSTEM	
Variable piston pump with Mechanical or Servo excavator controls	
Closed centre control valves	
Power Boost to match digging power and speed to application	
External oil level gauge	
Removable oil cooler	
125 micron suction strainer	
10 micron return line filter	
Single variable piston pump @ 2200 rpm L/min (gpm)	164 (36)
System main relief setting bar (psi)	250 (3625)

→ TECHNICAL DATA TLB990 - EU STAGE V

TYRES

Michelin 440/80 R24 TL 161A8/161B IND XMCL
 Michelin 440/80-24 TL 168A8 Power CL
 Goodyear 440/80 R24 IND R4 IT530 Radial
 Nokian 440/80 R24
 Continental 445/70 R24 MPT70
 Mitas 16.9 x 24 12P TI-04 IND

PALLET FORKS




Standard / 7 in 1 Bucket

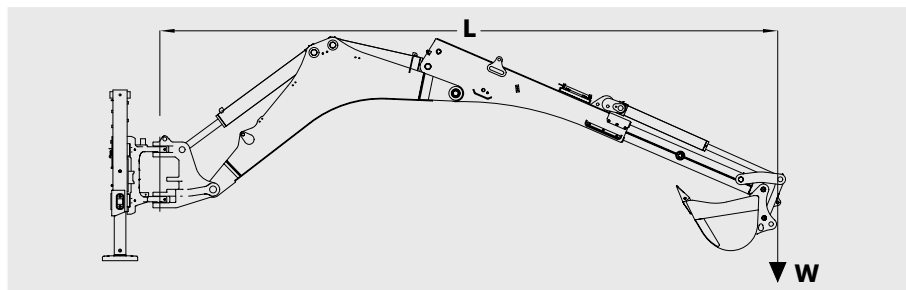
Fork length	1067 mm (3'6")
Section width	80 mm (3")
Assembly weight kg (lb)	150 (330)
Max. operating height	3097 mm (10'2")
Reach at ground level	2660 mm (8'9")
Reach at full height	2251 mm (7'5")
S.W.L. at 500mm load centre kg (lb)	1000 (2204)

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')
------------------	------------------	------------------	------------------	----------------	----------------

	1106 kg (2438 lbs)	1033 kg (2277 lbs)	931 kg (2052 lbs)	846 kg (1865 lbs)	743 kg (1638 lbs)	717 kg (1581 lbs)
	1038 kg (2288 lbs)	578 kg (1274 lbs)	417 kg (919 lbs)	334 kg (736 lbs)	265 kg (584 lbs)	255 kg (562 lbs)
	442 kg (974 lbs)	213 kg (470 lbs)	127 kg (280 lbs)	83 kg (183 lbs)	50 kg (110 lbs)	48 kg (106 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 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

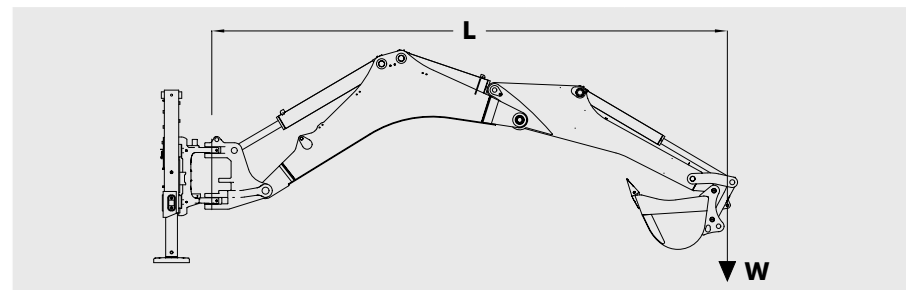
	Standard Bucket	7 in 1 Bucket
Width	2386 mm (7'8")	2386 mm (7'8")
Capacity m³ (yd³)	1.2 (1.57)	1.2 (1.57)
Weight kg (lbs)	430 (948)	767 (1691)

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")
------------------	------------------	------------------	------------------	------------------

	1368 kg (3016 lbs)	1366 kg (3011 lbs)	1221 kg (2692 lbs)	1126 kg (2482 lbs)	1052 kg (2319 lbs)
	1214 kg (2676 lbs)	820 kg (1808 lbs)	658 kg (1451 lbs)	576 kg (1270 lbs)	524 kg (1155 lbs)
	614 kg (1354 lbs)	414 kg (913 lbs)	327 kg (721 lbs)	284 kg (626 lbs)	262 kg (578 lbs)



Note

- 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

BACKHOE LOADERS - SIDESHIFT

→ 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
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 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

Direction control with neutral safety interlock
Servo power synchro transmission with Active Drive lock-up in 3rd & 4th gears
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 2.38:1
Removable transmission oil cooler
Vertical element oil filter
Foot operated electro/hydraulic differential lock
Outboard Planetary final drive axles
Large capacity inboard oil immersed disc brakes
• 3 Kevlar friction discs (222 mm dia) per side
• Total friction area per side 1070 cm ² (166 in ²)

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 in all gears
Selectable 2WD and 4WD
2 wheel steering
4 wheel steering
Crab steering

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
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)
12 audible and visual warning lamps
Engine hour meter
4 front and 4 rear LED worklights

3 Gauges for engine oil temperature, fuel 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 seat belt
Speedometer

LOADER

Mechanical - Hydraulic Anti-spill
Multifunctional control lever
Single bucket cylinder
Bucket cylinder cushioning
Return to dig
Float position with positive hold
Bucket level indicator
Integral Loader arm safety bar
Standard bucket 1.2 m ³ with lifting eye
7 in 1 bucket 1.2 m ³ with lifting eye
Bucket teeth or bolt on reversible cutting edge
7 in 1 bucket operation by thumb slider control

LOADER OPTIONS

Pallet forks with safe working load of 1000 kgs
3rd hydraulic line with standard bucket
Hose burst valves
Auto Ride control
Bucket tooth guard
Mechanical or hydraulic quick attach

BACKHOE

Curved style boom
Standard dipperstick
Inner slide "Deep Dig" dipperstick
Externally adjustable lubrication free wear pads (8)
Electro/hydraulic dual transport lock
Externally adjustable stabiliser wear pads
SAE/ISO/Diagonal 2 lever controls
Standard trenching buckets with reversible side cutters

BACKHOE OPTIONS

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
Hydraulic powered sideshift

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)
Tandem gear pump hydraulics with mechanically operated
Backhoe controls
Variable flow hydraulics with pilot operated Backhoe controls
Pilot controls with constant flow feature

OPTIONS

Reverse Warning Alarm
Front Fenders
Premium Brand Tyres

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

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