

Mecalac

TLB840R
BACKHOE LOADERS - CENTER MOUNT



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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







DESIGNED TO GET YOUR JOB DONE

FULLY TILTING
HOOD FOR EASY
ENGINE ACCESS

TIER 4 FINAL 74HP (55 KW)
CHARGE AIR COOLED
ENGINE FOR SMOOTH AND
ECONOMICAL OPERATION

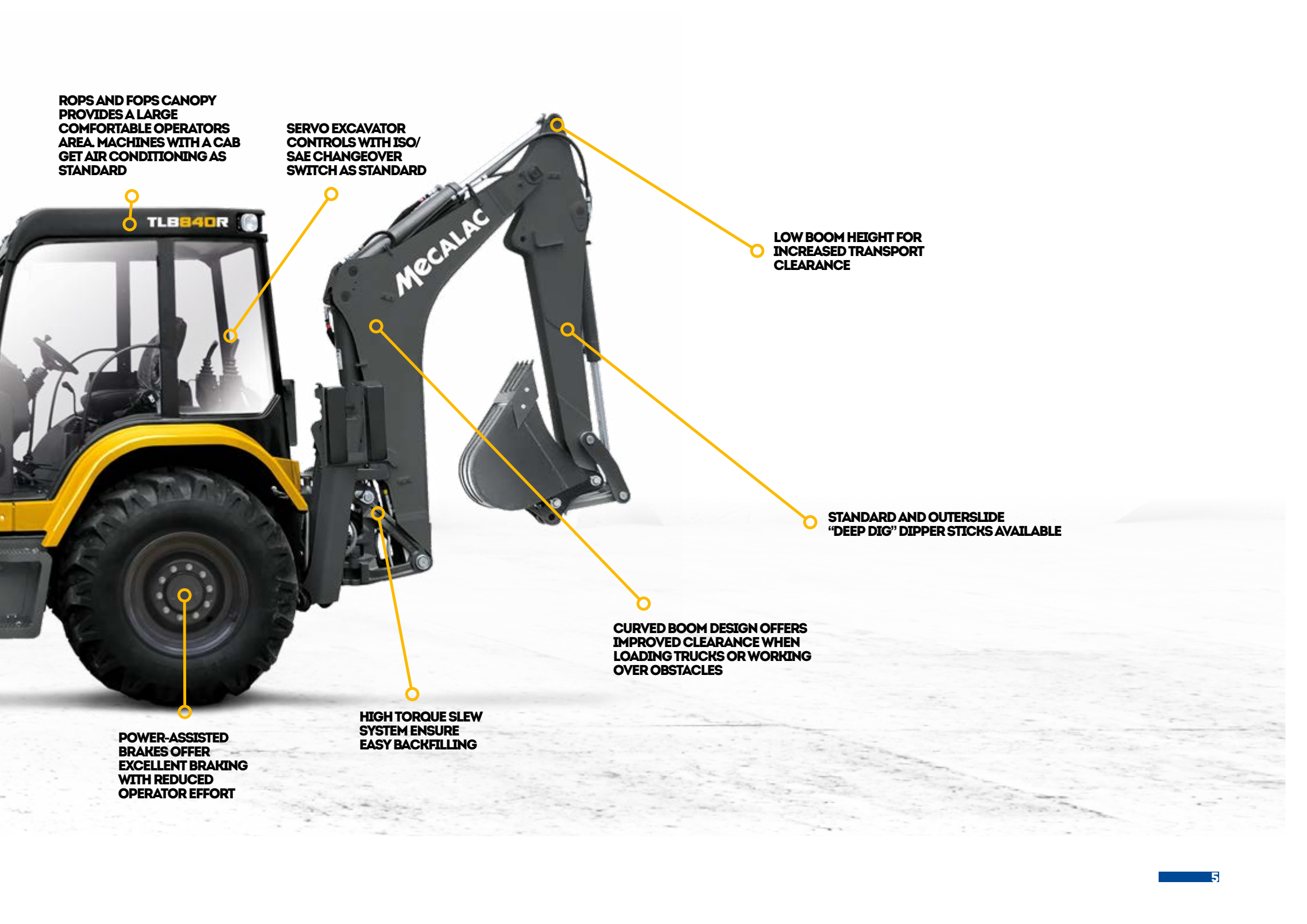
SOLID CAST NOSE
PROVIDES IMPROVED
WEIGHT

Mecalac

1.3YD³ (1M³) STANDARD
LOADER BUCKET.
(7 IN 1 OPTIONAL)

LARGER STEERING
CYLINDER REDUCES
STEERING EFFORT

SYNCHRO SHUTTLE
TRANSMISSION PROVIDES
TRANSPORT SPEEDS UP
TO 23MPH (38KPH)



ROPS AND FOPS CANOPY PROVIDES A LARGE COMFORTABLE OPERATORS AREA. MACHINES WITH A CAB GET AIR CONDITIONING AS STANDARD

SERVO EXCAVATOR CONTROLS WITH ISO/SAE CHANGEOVER SWITCH AS STANDARD

LOW BOOM HEIGHT FOR INCREASED TRANSPORT CLEARANCE

STANDARD AND OUTERSLIDE "DEEP DIG" DIPPER STICKS AVAILABLE

CURVED BOOM DESIGN OFFERS IMPROVED CLEARANCE WHEN LOADING TRUCKS OR WORKING OVER OBSTACLES

HIGH TORQUE SLEW SYSTEM ENSURE EASY BACKFILLING

POWER-ASSISTED BRAKES OFFER EXCELLENT BRAKING WITH REDUCED OPERATOR EFFORT



OPERATOR CONTROLS

Any operator can become instantly familiar with the controls of our backhoe loader, with servo excavator controls as standard the ISO/SAE switch can be used to easily switch between Excavator or Backhoe control patterns.



BACKHOE

The curved boom design provides greater clearance when working over obstacles and the ability to load closer into trucks, increasing versatility. Dig depths of up to 17'10" (5.44m) and ground level reach of up to 22' (6.7m) can be achieved with the optional "Deep Dig" dipper stick.



ENGINE

The powerful 74hp (55kw) engine with 288lbf (390Nm) of torque meets Tier 4 Final emissions requirements without the use of a Diesel Particulate Filter (DPF) or Selective Catalytic Reduction (SCR / Adblue). A "life of the engine" Diesel oxidation Catalyst (DOC) is fitted which requires no regeneration, servicing or cleaning.

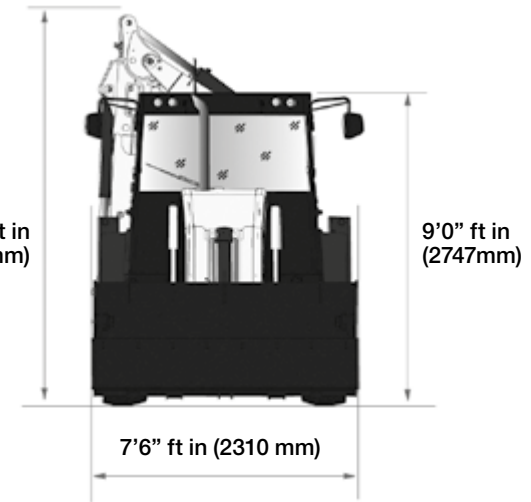
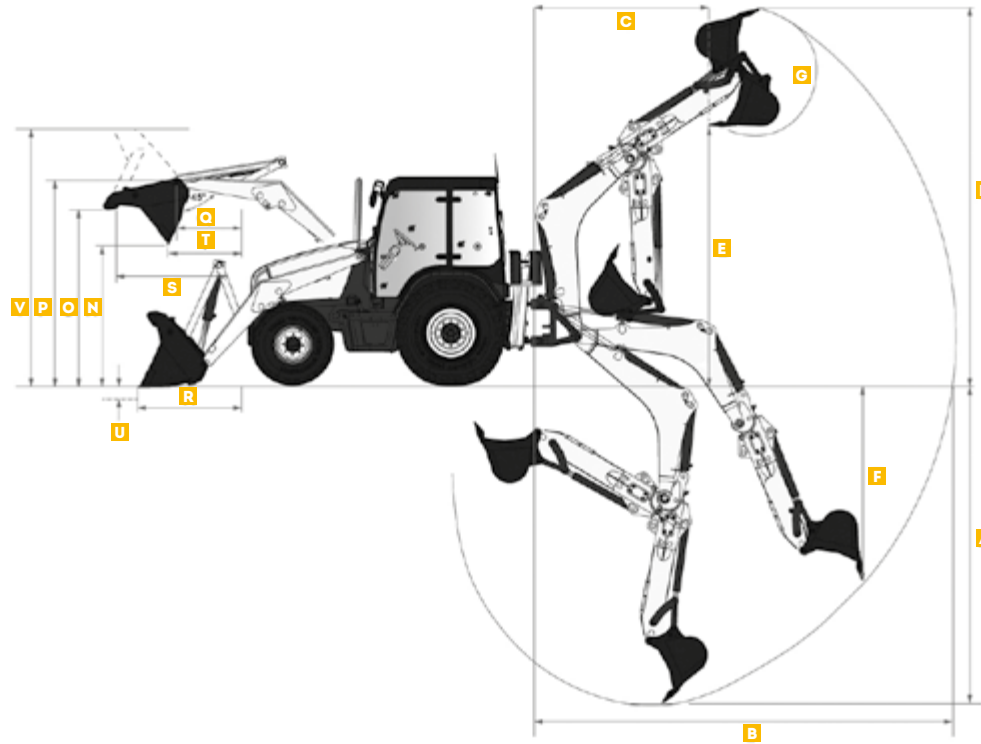


TRANSMISSION

The synchro shuttle transmission provides smooth shifting between all 4 gears and transport speeds of up to 23mph (38kph). Power assisted brakes and selectable 4 wheel braking ensure high braking forces with low operator effort.



→ TECHNICAL DATA



Note: image is for reference purpose only

BACKHOE DIMENSIONS*		Standard Dipper ft in (mm)	Deep Dig Dipper ft in (mm)	
			Retracted	Extended
A	Dig depth Maximum SAE 2 ft Flat Bottom SAE	14'6" (4411) 14'3" (4337)	14'6" (4411) 14'3" (4337)	17'10" (5438) 17'7" (5364)
B	Reach – ground level to slew	18'8" (5695)	18'8" (5695)	21'11" (6670)
C	Loading reach	7'7" (2302)	7'7" (2302)	10'4" (3156)
D	Operating height	17'0" (5182)	17'0" (5182)	18'12" (5782)
E	Loading height SAE Max dumping height	11'9" (3569) 11'4" (3446)	11'9" (3569) 11'4" (3446)	13'8" (4168) 13'3" (4046)
F	Straight wall dig depth	7'6" (2298)	7'6" (2298)	10'6" (3210)
G	Bucket rotation degrees	Speed	194°	194°
		Power	164°	164°
	Stabiliser spread	9'9" (2980)	9'9" (2980)	9'9" (2980)
	Max. levelling angle degrees	12°	12°	12°

*Includes standard 24" (600 mm) HD bucket.

LOADER DIMENSIONS		Standard / 7in1 Bucket ft in (mm)
N	Dump clearance – at 45°	8'7" (2609)
O	Loader height	10'4" (3145)
P	Hinge pin height	11'2" (3401)
Q	Pin forward reach	1'5" (430)
R	Reach at ground	5'0" (1525)
S	Max. reach at full height	2'7" (776)
T	Reach at full height – at 45°	2'5" (732)
	Dig depth	0'10" (251)
U	Rollback at ground	48°
	Max. dump angle fully raised	50°
V	Overall operating height	14'1" (4304)

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)		21 (15488.8)		21 (15488.8)	
Dipper tearout kN (lbf)		35.4 (7958) 35.4 (7958)		35.4 (7958) 35.4 (7958)	
(SAE J49 Standard)				26 (5845) 26 (5845)	
Bucket tearout kN (lbf)	Speed	47 (10566)	47 (10566)	47 (10566)	47 (10566)
	Power	54 (12140)	54 (12140)	54 (12140)	54 (12140)

→ TECHNICAL DATA

ENGINE

Deutz TCD 3.6 L4 (U.S. EPA Tier 4 Final*)	Torque Rise 63% Electronic fuel injection
Cylinders	4
Capacity	3.6 L (219.6 in ³)
Rated speed	2200 rpm
Gross power @ 2200rpm Cert. rating to ISO 14396:2002	55.4 kW (74.0 hp)
Derived net rating @ 2200 rpm	51.9 kW** (69.6 hp*)
Max Torque @ 1300 rpm	
ISO 14396	390 Nm (288 lbf)

* 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	
110 A/hr single battery with 920 CCA – EN Standard	

CAPACITIES	Ltrs (gals)
Fuel tank	140 (37.0)
Engine coolant	17 (4.5)
Engine oil (including filter)	8 (2.1)
Synchro shuttle transmission	20 (5.3)
Rear axle (including final drives)	17.1 (4.5)
Front axle (including final drives)	6.9 (1.82)
Hydraulic tank	52 (13.7)

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 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)	175 (39342)	70 (15737)
Rear kN (lbf)	187.5 (42152)	75 (16861)

TURNING CIRCLES

	Over Tyres	Over Bucket
Without brakes m (ft)	7.9 (25'11")	10.9 (35'9")
With brakes m (ft)	7 (23')	10 (32'10")

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 x 16.5 12 PR SKS XTRA
	Rear:	19.5 x 24 12 PR SLA R4
Travel Speeds	Forward/Reverse Km/h (mph)	
1st	5 (3)	
2nd	8 (5)	
3rd	19 (12)	
4th	38 (24)	

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)

OPERATING WEIGHTS

Base Machine Weight*	7320 kg (16138 lbs)
Add/Delete	
Deep dig dipper	+ 295 kg (650 lbs)
ROPS frame	- 185 kg (408 lbs)

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

LOADER PERFORMANCE

	Standard Bucket
Bucket breakout* kN (lbf)	42 (941.98)
Arms breakout* kN (lbf)	46 (10341.2)
Lift capacity to full height** kg (lbs)	3759.34 (8287)
Rated operating capacity** kg (lbs)	2813.55 (6202)

*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" (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



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

HIGH-TIP BUCKET

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

LOADER QUICK ATTACH

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

FARM FORK AND GRAPPLE

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

BROOM BUCKET

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

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

→ STANDARD AND OPTIONAL EQUIPMENT

ENGINE

Deutz 3.6TCD L4 (U.S. EPA 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 of 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
 Fan Guard

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
 Easy clean transmission oil cooler
 Vertical element oil filter
 Foot operated electro/hydraulic differential lock
 Inboard planetary final drive axles
 Large capacity inboard 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 4wdi

CAB AND CANOPY

ROPS/FOPS conform to ISO3471/3449
 Access from both sides
 Self cleaning footsteps and large grab handles
 Anti slip floor mat (Canopy)
 Internal rear view mirror
 2 Cup holders
 Coat hook
 Tilt adjustable steering wheel
 Side console mounted horn switch
 Seat storage for operators manual
 2in (51mm) retractable seat belt
 Vinyl seat with mechanical suspension (canopy)
 1 Auxiliary 12 volt outlet
 Cab with 2 door access
 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 (7.37kw) with Air conditioning (7.6kw cooling)
 Front side lights with direction indicators
 Internal noise level 78dB (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

CANOPY OPTIONS

Windscreen with wiper
 Lockable vandal covers

CAB OPTIONS

3inch seat belt
 Folding external rear view mirrors
 Steering wheel spinner

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

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

BACKHOE

Curved style boom
 Standard dipperstick
 Outer slide "deep dig" dipperstick
 Externally adjustable lubrication free wear pads
 Thumb cylinder mounting bracket incorporated
 Replaceable serrated clamping plates
 Dual transport lock - cable operated
 Servo excavator controls
 ISO/SAE pattern change switch
 24" Heavy duty excavator bucket
 Stab leg lock out valves

OPTIONS

Mechanical quick attach
 Auxiliary hydraulics with single and double acting operation

GENERAL POINTS

Heavy duty chassis construction
 Lockable side mounted toolbox
 Fully tilting engine hood
 Front hard nose counter weight
 Lifting eyes and tie downs (2 front and rear)
 12.5" Front and 24" rear Mitas tyres

OPTIONS

Front fenders
 Cold start kit

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

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