

# MINI EXCAVATORS



## Technical data

Operating weight	1900 kg
Motor output	Diesel engine: 13.1 kW (18 PS) Electric motor: 11 kW (15 PS)
Bucket volume	21-91 l
Digging depth	2.2 / 2.4 m
Reach	3.9 / 4.08 m

## Special features

- ▶ Dual drive - with diesel or electric drive options
- ▶ Operation without emissions in electric mode
- ▶ Own cable reel on "piggyback"
- ▶ Excavator functions identical in both operating modes.
- ▶ Wide dozer blade for dozer applications
- ▶ Boom with end-to-end top-mounted cylinders, offering perfect protection of the cylinders and an even wider scope of applications
- ▶ Comfort cab with perfect all-round visibility (option)
- ▶ Knickmatik®, allows excavators to move directly along walls
- ▶ Wide range of proven work attachments

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# TECHN. DESCRIPTION

## ENGINE (DIESEL)

Manufacturer, model	Mitsubishi, L3E
Type	3-cylinder diesel engine, EPA/Tier 4 Final (2008)
Method of operation	4-stroke, swirl chamber injection
Stroke displacement	952 cm <sup>3</sup>
Power rating as per ISO 9249 at 2250rpm	13.1 kW (18 PS)
Torque	55 Nm at 2100 rpm
Cooling system	Water

## MOTOR (ELECTRIC)

Type	Air-cooled electric motor
Output at 2950 rpm	11 kW (15 PS)
Electrical voltage	400 Volt / 50 Hz
Electrical connected load at 400 V / 50 Hz	32 A

## ELECTRICAL SYSTEM

On-board electrics for diesel operation	12 V DC
Battery	12 V / 71 Ah
Alternator	12 V / 40 A
Starter motor	12 V / 1.7 kW
On-board electrics for electrical operation	400 V / 50 Hz

Electrical control box and E control module in the operator's stand with separate hour meter and emergency stop button. Cable drum with 15 m supply cable fitted at the rear of the cab.

## TRANSMISSION

Hydrostatic travel drive with axial piston variable displacement motor and reduction gear, fully enclosed. "Straight-Travel" function. Wheel brake valve for downhill travel.

Travel speed, forward and reverse	0 - 2.4 km/h
Gradeability	max. 60%
Drawbar pull	1160 daN

## UNDERCARRIAGE

Maintenance-free crawler-type undercarriage. Idler suspension with hydraulic track tensioning. Mechanically retractable/extendable undercarriage provided as standard.

Width (outside edge of crawler tracks)	990 - 1340 mm
Width of rubber / steel crawler tracks	230 mm
Total length (sprocket - idler)	1130 mm
Total length (undercarriage)	1490 mm

## DOZER BLADE

Independent of drive train, sensitive control via separate hand lever.	
Width x height	1340 x 235 mm
Dozer cut below ground	160 mm
Dozer lift above ground	200 mm
Slope angle	25°

## STEERING

Independent, individual control of crawler tracks, also counterwise. Sensitive control via hand levers combined with foot pedals. Pedal console serving as foot rest.

## SWING SYSTEM

Hydrostatic drive, also acts as wear-free brake. Internally toothed ring gear.	
Swing speed	0-12 rpm

## KNICKMATIK®

Lateral parallel adjustment of boom arrangement at full dig depth.	
Angle of articulation / lateral adjustment left	60° / 370 mm
Angle of articulation / lateral adjustment right	60° / 510 mm

## FLUID CAPACITIES

Diesel tank capacity	30 l
Hydraulic system (incl. 25 l tank)	35 l



## OPERATING DATA, STANDARD EQUIPMENT

Transport weight (incl. bucket)	1900 kg
Operating weight as per ISO 6016 (with driver)	1975 kg
Total length (driving position)	2800 mm
Total length (trailer transport position)	3800 (3720*) mm
Total height (driving position)	2400 mm
Total width (crawler tracks retracted)	998 mm
Uppercarriage tailswing	1280 mm
Uppercarriage frontswing	1250 mm
Working envelope 180° / 360°	2530 / 2560 mm
Ground clearance	170 mm
Bucket digging force (ISO 6015)	14400 N
Stick digging force (ISO 6015)	9300 (8300*) N
Specific ground pressure (rubber crawler tracks)	0,29 daN/cm <sup>2</sup>

## HYDRAULIC SYSTEM

Pump capacity	33+ 19 l/min
Operating pressure	165 bar

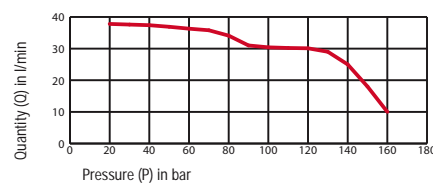
Working hydraulics: dual fixed displacement pump with power switch. Load-independent flow division (LUDV) for all work functions and travel drive. Simultaneous independent control of all movements.

Return flow tank insert filter with electric contamination indicator, full flow filtration. Hydraulic oil radiator provided as standard. Boom, dipperstick and articulated cylinders with end-positioning damping on both sides, bucket retract function with one-side end-position damping.

Open return provided as standard. All functions can be activated proportionally. Two servo-assisted joystick controls for excavator operations. Shut-off of all functions when operator dismounts from machine.

Control circuit for work attachments (standard):

the diagram shows the power available at the couplers.



## OPERATORS COMPARTMENT

Canopy roof: spacious operators compartment, comfort seat, armrests, driver's weight setting adjustable, one front working floodlight, incl. cable drum with 15 m supply cable and CEE 32A connector.

FSP010 driver's seat with vinyl cover, lap belt.

Instrument panel on the right hand side of the operator's seat with visual & acoustic warning device, hour-meter, instrument cluster with large fuel gauge.

H3 halogen working floodlights.

Noise emission ambience  $L_{WA}$  93 dB (A)

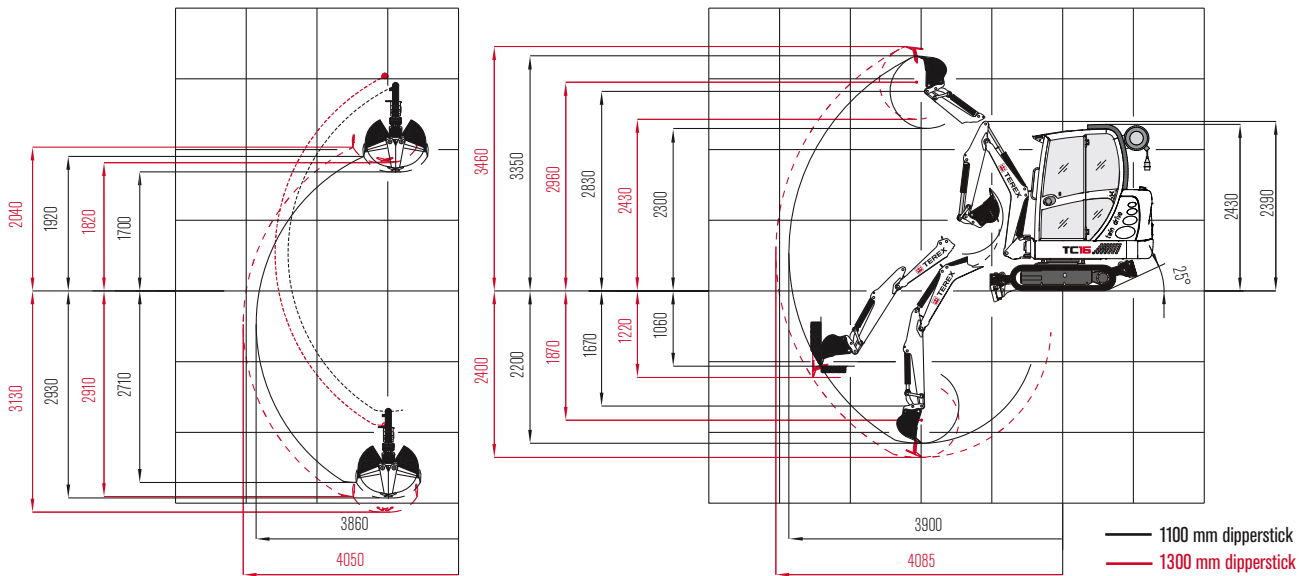
Noise emission cab  $L_{PA}$  78 dB (A)

Measured in dynamic measuring cycle as per Directive 2000/14/EC.

\*with 1300 mm dipperstick (optional)

\*\*FOPS-approved only with skylight guard (optional)

## WORKING RANGES & DIMENSIONS: MONOBLOC BOOM



## LIFTING CAPACITIES

Bucket hinge height 1100 mm dipperstick		Load distance from the centre of the slewing ring															
		1.5 m				2.0 m				2.5 m				3.0 m			
		UE		UR		UE		UR		UE		UR		UE		UR	
		Longit.	Transverse	Longit.	Transverse	Longit.	Transverse	Longit.	Transverse	Longit.	Transverse	Longit.	Transverse	Longit.	Transverse	Longit.	Transverse
2.0 m	S	-	-	-	-	0.56	0.47	0.56	0.37	0.54	0.38	0.54	0.29	-	-	-	-
	A	-	-	-	-	0.38	0.46	0.38	0.32	0.34	0.37	0.34	0.24	-	-	-	-
1.0 m	S	0.89	0.79	0.89	0.69	0.70	0.50	0.70	0.39	0.56	0.37	0.56	0.27	0.35	0.32	0.35	0.21
	A	0.54	0.77	0.54	0.60	0.38	0.49	0.38	0.32	0.28	0.36	0.28	0.23	0.19	0.30	0.19	0.19
0 m	S	0.92	0.71	0.92	0.49	0.64	0.47	0.64	0.33	0.44	0.35	0.44	0.25	0.31	0.31	0.31	0.20
	A	0.59	0.69	0.59	0.41	0.34	0.46	0.34	0.28	0.23	0.34	0.23	0.21	0.18	0.29	0.18	0.18
-0.75 m	S	0.64	0.61	0.64	0.42	0.46	0.46	0.46	0.31	0.33	0.33	0.33	0.24	0.22	0.30	0.22	0.19
	A	0.50	0.61	0.50	0.37	0.29	0.46	0.29	0.27	0.23	0.33	0.23	0.20	0.17	0.28	0.17	0.17

Bucket hinge height 1300 mm dipperstick		Load distance from the centre of the slewing ring															
		1.5 m				2.0 m				2.5 m				3.0 m			
		UE		UR		UE		UR		UE		UR		UE		UR	
		Longit.	Transverse	Longit.	Transverse	Longit.	Transverse	Longit.	Transverse	Longit.	Transverse	Longit.	Transverse	Longit.	Transverse	Longit.	Transverse
2.0 m	S	-	-	-	-	-	-	-	-	0.45	0.46	0.45	0.29	0.35	0.32	0.35	0.22
	A	-	-	-	-	-	-	-	-	0.30	0.45	0.30	0.27	0.21	0.30	0.21	0.21
1.0 m	S	-	-	-	-	0.64	0.61	0.64	0.44	0.40	0.39	0.40	0.28	0.35	0.32	0.35	0.21
	A	-	-	-	-	0.40	0.61	0.40	0.36	0.28	0.39	0.28	0.26	0.23	0.30	0.23	0.19
0 m	S	0.99	0.78	0.99	0.53	0.61	0.53	0.61	0.36	0.44	0.37	0.44	0.27	0.32	0.31	0.32	0.20
	A	0.58	0.75	0.58	0.45	0.36	0.50	0.36	0.32	0.26	0.37	0.26	0.24	0.21	0.29	0.21	0.18
-0.75 m	S	0.68	0.77	0.68	0.50	0.49	0.51	0.49	0.34	0.35	0.37	0.35	0.25	0.25	0.30	0.25	0.19
	A	0.50	0.74	0.50	0.47	0.35	0.52	0.35	0.30	0.29	0.37	0.29	0.23	0.20	0.28	0.20	0.17

All values stated in tonnes (t) were determined in line with ISO 10567 and include a stability factor of 1.33 or 87% of the hydraulic load capacity. All values were determined with quick-attach system but without bucket. With work tools fitted, the weight of the tools themselves must be subtracted from the permitted payloads.

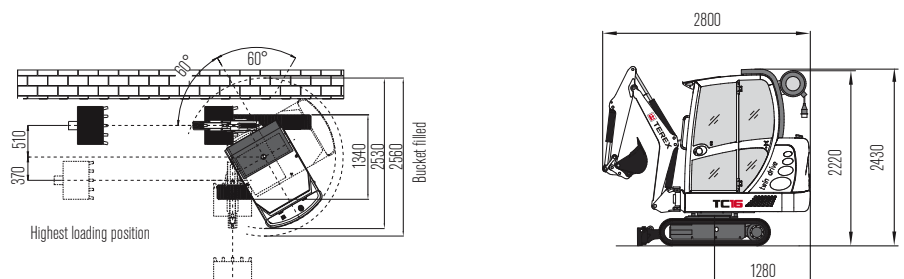
Working equipment: rubber crawler tracks.

Abbreviations: UE = Undercarriage extended, UR = Undercarriage retracted, S = Supported, A = Adjustable, Longit. = Longitudinal

## DIMENSIONS

Working equipment:

Monobloc boom with 1100 mm dipperstick



## WORK ATTACHMENTS

### BUCKET

Bucket, QAS	250 mm wide, capacity 24 l
Bucket, QAS	300 mm wide, capacity 30 l
Bucket, QAS	400 mm wide, capacity 44 l
Bucket, QAS	500 mm wide, capacity 55 l
Bucket, QAS	600 mm wide, capacity 71 l
Ditch-cleaning bucket, QAS	1000 mm wide, capacity 91 l
Bucket, QAS	850 mm wide, capacity 61 l

## OPTIONAL EQUIPMENT

### BOOM OPTIONS

Monobloc boom, with extended 1300 mm dipperstick

### CRAWLER TRACK OPTIONS

Steel crawler track, 230 mm wide

### HYDRAULIC SYSTEM

Terex 'fingertip' control (electro-proportional) for additional control circuit for tools on the right-hand joystick, actuated via roller	Terex 'fingertip' control (electro-proportional) with additional control circuit on the left-hand joystick, actuated via roller
Hose-rupture / load-retaining valve for boom with overload warning device	Second additional control circuit (e.g. for sorting grabs), foot pedal
Hose-rupture / load-retaining valve for dipperstick	Biodegradable hydraulic oil / ester-based HLP 68 (Panolin)

### OPERATOR'S COMPARTMENT

Cab: spacious, clearly structured with safety glass, upper front window part slidable under cab roof. Rear panoramic window, skylight, 2 doors of the same size. Cab heating with windshield defroster using integrated hot water heat exchanger. Comfort seat, armrests, driver's weight setting adjustable. H3 halogen working floodlights. Incl. Cable drum with 15 m supply cable and CEE 32A connector.

MSG 20 driver's seat (basic model), fabric cover, lap belt, driver's weight setting adjustable

### GRAB

Clamshell grab GL 1250, grab swing brake	shell set 250 mm wide, content 45 l
Ejector	

### OTHER WORK ATTACHMENTS

Hydraulic hammer	Cutting/milling unit
Earth auger	Quick change adapter for hydraulic hammer
Load hook, can be screwed onto bucket rod	Other work attachments are available on request

### DRIVER'S CAB

Cab rain guard	FOPS skylight guard
Working floodlights at the front right of the cab	Working floodlights at the right rear of the cab
Boom-mounted working floodlight	Radio installation set (loudspeakers)
Anti-theft device, coded key (immobiliser)	Electronic anti-theft device, operated via keyboard
Yellow rotating beacon	Acoustic "drive" warning, horn can be switched off

### OTHER OPTIONAL EQUIPMENT

Mechanical quick-attach system (QAS)	High-speed 0 - 4.5 km/h
Mechanical quick-attach system (original "Lehnhoff"), type MS01	
Crane lifting beam	Electric refuelling pump
Track shoes with "Felasto" tiles	Special coating/stickering
Boom-mounted working floodlight	Front dozer blade - long version
Rear-end protection	Further optional equipment available on request

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