

MINI EXCAVATOR



Specifications

Operating weight	1.65 t
Engine power	13.1 kW (17.8 HP)
Bucket capacity	21-91 l
Dig depth	2.2 m
Reach	3.9 m

Features

- ▶ Short-tail machine
- ▶ Extra-wide blade for dozer applications
- ▶ Top-mounted boom cylinders for perfect protection of cylinders and larger range of application
- ▶ Comfort cab with perfect all-round visibility
- ▶ Knickmatik® allows for working closely alongside walls
- ▶ Wide range of proven working tools

SPECIFICATIONS

ENGINE

Manufacturer, model	Mitsubishi, L3E
Type	3-cylinder diesel engine, EPA/Tier 4 Final (2008)
Combustion	4-stroke, swirl chamber injection
Displacement	952 cm ³
Net power rating at 2200 rpm (ISO 9249)	13.1 kW (17.8 HP)
Torque	55 Nm at 2100 rpm
Cooling system	Water

ELECTRICAL SYSTEM

Nominal voltage	12 V
Battery	12 V / 74 Ah
Generator	12 V / 40 A
Starter	12 V / 1.7 kW

TRANSMISSION

Single-stage hydrostatic travel drive with axial piston variable displacement motor and reduction gear, fully enclosed. "Straight-Travel" function. Brake valve for downhill drive.

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

UNDERCARRIAGE

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

Range of adjustment, outside edge of crawler chains	990-1340 mm
Width rubber crawlers / steel crawlers	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 chains, 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-resistant brake. Internally toothed ring gear.

Swing speed	0-10 rpm
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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

Fuel tank	30 l
Hydraulic system (incl. tank 25 l)	35 l



OPERATING DATA, STANDARD EQUIPMENT

Transport weight (incl. bucket)	1650 kg
Operating weight acc. to ISO 6016 (incl. operator)	1725 kg
Total length (travel position)	2500 mm
Total length (trailer transport position)	3800 (3720*) mm
Total height (travel position)	2390 mm
Width (Crawlers retracted)	990 mm
Uppercarriage tailswing	1130 mm
Uppercarriage frontswing	1240 mm
Working envelope 180° / 360°	2370 / 2500 mm
Ground Clearance	170 mm
Bucket digging force (ISO 6015)	14,400 N
Stick digging force (ISO 6015)	9300 (8300*) N
Ground pressure (rubber crawlers)	0.25 daN/cm ²
Ground pressure (steel crawlers)	0.26 daN/cm ²

HYDRAULIC SYSTEM

Pump capacity	31.5 + 18 l/min
Working pressure	165 bar

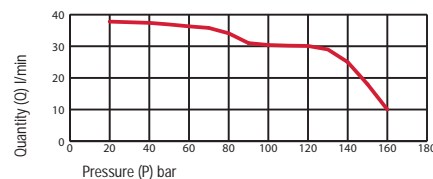
Working hydraulics: Dual fixed displacement pump with power switch. Load-independent flow division (LUDV) for all work functions and travel drive. Simultaneous independent control of all movements.

Tank-immersed return 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):

Diagram shows P/Q provided on couplers



CAB

Spacious, sound-insulated full-vision steel cab, FOPS** (acc. to ISO 3449) and TOPS (acc. to ISO 12117) certified. Two equally large doors. Safety glass windows, thermo windows tinted in green. Skylight thermo window, bronze tinted. Panoramic rear window. Front window supported by pneumatic springs, lockable for ventilation and slidable under cab roof. Windshield washer system. Storage compartment. Preparation for radio installation. Left-hand outside rear-view mirror.

Cab heating with windshield defroster through coolant heat exchanger and 2-speed fan, ventilating mode in summer.

Fabric-covered operator's seat FSP010 with 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.

Working flood lights Halogen H-3.

Noise emission ambience L _{WA}	93 dB (A)
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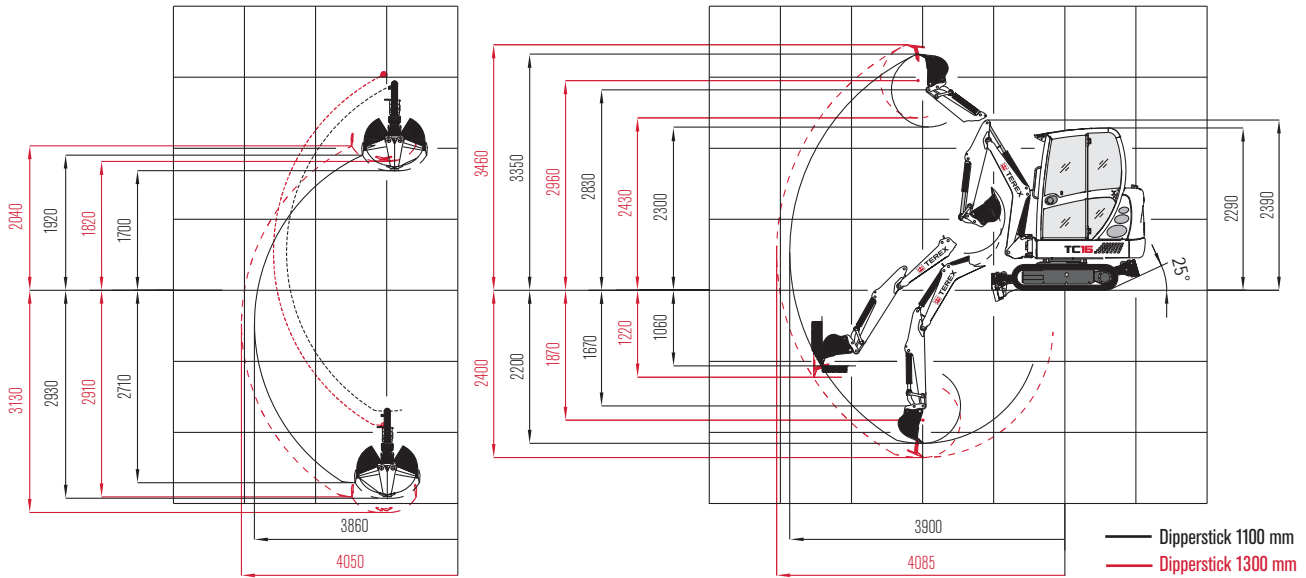
Noise emission cab L _{PA}	78 dB (A)
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Measured in dynamic measuring cycle acc. to EC-directive 2000/14/EC.

*with dipperstick 1300 mm (optional)

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

WORKING RANGES & DIMENSIONS: MONOBLOC BOOM



LIFTING CAPACITIES

Bucket hinge height		Load radius from center of ring gear															
Dipperstick 1100 mm		1.5 m				2.0 m				2.5 m				3.0 m			
		UE		UR		UE		UR		UE		UR		UE		UR	
		End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side
2.0 m	S	-	-	-	-	0.56	0.47	0.56	0.37	0.54	0.38	0.54	0.29	-	-	-	-
	T	-	-	-	-	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
	T	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
	T	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
	T	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		Load radius from center of ring gear															
Dipperstick 1300 mm		1.5 m				2.0 m				2.5 m				3.0 m			
		UE		UR		UE		UR		UE		UR		UE		UR	
		End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side
2.0 m	S	-	-	-	-	-	-	-	-	0.45	0.46	0.45	0.29	0.35	0.32	0.35	0.22
	T	-	-	-	-	-	-	-	-	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
	T	-	-	-	-	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
	T	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
	T	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 in tons (t) were determined acc. to ISO 10567 and include a stability factor of 1.33 or 87% of the hydraulic lifting capacity. All values were determined with quick-attach system but without bucket. In case of mounted-on work attachments, the deadweights of the work attachments must be deducted from the permissible operating loads.

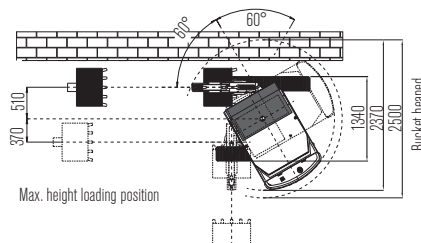
Working equipment: Rubber crawlers.

Abbreviations: UE = Undercarriage extended, UR = Undercarriage retracted, S = Supported by blade, T = Traveling

DIMENSIONS

Work equipment:

Monobloc boom with dipperstick 1100 mm



WORK ATTACHMENTS

BUCKETS

Bucket, QAS	250 mm wide, capacity 24 l
Bucket, directly mounted	220 mm wide, capacity 21 l
Bucket, QAS	300 mm wide, capacity 30 l
Bucket, directly mounted	300 mm wide, capacity 29 l
Bucket, QAS	400 mm wide, capacity 44 l
Bucket, directly mounted	400 mm wide, capacity 40 l
Bucket, QAS	500 mm wide, capacity 55 l
Bucket, QAS	600 mm wide, capacity 71 l
Bucket, directly mounted	600 mm wide, capacity 61 l
Ditch-cleaning bucket, QAS	1000 mm wide, capacity 91 l
Ditch-cleaning bucket, directly mounted	1000 mm wide, capacity 85 l
Swing bucket, QAS	850 mm wide, capacity 61 l
Swing bucket, directly mounted	1000 mm wide, capacity 56 l

OPTIONAL EQUIPMENT

BOOM OPTIONS

Monobloc boom, with extended dipperstick 1300 mm

CRAWLER CHAIN OPTIONS

Steel crawler track, 230 mm wide

HYDRAULIC SYSTEM

Terex 'Fingertip' control (electro proportional) for additional control circuit for work attachments on right joystick, actuation via rollers	Terex 'Fingertip' control (electro proportional) incl. second additional control circuit on left joystick, actuation via rollers
Hose-rupture / load-retaining valve for boom with load warning device	Second additional control circuit (e.g. for sorting grab), foot pedal
Hose-rupture / load-retaining valve for dipperstick	Biodegradable hydraulic oil / ester-based HLP 68 (Panolin)

Float position - front dozer blade

DRIVER'S STAND

Fabric-covered operator's seat MSG 20 (standard version), lap belt, adjustable driver's weight

GRABS

Clamshell grab GL 1250, grab swing brake	set of shells 250 mm wide, capacity 45 l
Ejector	

OTHER WORK ATTACHMENTS

Hydraulic hammer	Cutting unit
Auger	Quick-change adapter for hydraulic hammer
Bolt-on load hook for bucket rod	Further work attachments available on request

CAB

Rain guard	FOPS - skylight guard
Cab-mounted working floodlight, front right	Cab-mounted working floodlight, rear right
Boom-mounted working floodlight	Radio set installation kit (speakers)
Anti-theft device, coded key (immobilizer)	Electronic immobilizer, keypad operation
Yellow beacon	Motion alarm incl. horn (to be deactivated on demand)

OTHER OPTIONAL EQUIPMENT

Mechanical quick-attach system (QAS)	High-speed 0-4.5 kph
Quick-attach system, mechanical (genuine Lehnhoff system), type MS01	Canopy with working floodlight (weight reduction: 80 kg)
Crane lifting beam	Electrical refueling pump
Track shoes with "Felasto" tiles	Special coating / adhesive films
Additional boom-mounted working floodlight	Front dozer blade - extra-long version
Rear vandal guard	Further optional equipment available on request

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