

MINI EXCAVATOR



Specifications

Operating weight	5,732 lbs (2,600 kg)
Engine power	23 HP (17.4 kW)
Bucket capacity	1.17-3.88 ft ³ (38-110 l)
Dig depth	9' 11" (2.78 m)
Reach	15' 5" (4.7 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
- ▶ Increased productivity thanks to load sensing hydraulics
- ▶ Knickmatik® allows for working closely alongside walls
- ▶ Wide range of proven working tools

WORKS FOR YOU.™

SPECIFICATIONS

OPERATING DATA, STANDARD EQUIPMENT

Transport weight (without bucket)	5,401 lbs (2,450 kg)
Operating weight (incl. operator)	5,732 lbs (2,600 kg)
Total length (travel position)	9' 8" (2,950 mm)
Total height (travel position)	10' 3" (3,060 mm)
Total width	4' 11" (1,510 mm)
Uppercarriage tailswing	3' 7" (1,100 mm)
Uppercarriage frontswing	4' 10" (1,470 mm)
Working envelope 180° / 360°	8' 5" / 9' 8" (2,570/2,940 mm)
Ground Clearance	12" (310 mm)
Bucket digging force (ISO 6015)	4,901 lbf (21,800 N)
Stick digging force (ISO 6015)	2,878 lbf (12,800 N)
Ground pressure (rubber crawlers)	3.98 psi (0.28 daN/cm ²)

ENGINE

Manufacturer, model	Mitsubishi, S3L2
Type	3-cylinder diesel engine, EPA/Tier 4
Combustion	4-stroke, swirl chamber injection
Displacement	81 in ³ (1,318 cm ³)
Net power rating at 2,200 rpm (SAE J 1349)	23 hp (17.4 kW)
Max. torque	57.8 lbf ft (78.4 Nm) @ 1400 rpm
Cooling system	Water

ELECTRICAL SYSTEM

Nominal voltage	12 V
Battery	12 V / 71 Ah
Generator	12 V / 50 A
Starter	12 V / (2.3 hp) 1.7 kW

POWER TRANSMISSION

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

2 speed ranges:

Travel speed, forward and reverse	1.7 / 2.7 mph (0-2.7 / 4.4 kph)
Drawbar pull 1st / 2nd speed range	4,418 / 2,810 lbf (1965 / 1250 daN)

UNDERCARRIAGE

Maintenance-free crawler-type undercarriage. Idler suspension with hydraulic crawler track tensioning.

Width rubber crawlers / steel crawlers	10" / 12" (250 / 300 mm)
Tread width	47" (1,200 mm)
Total length (sprocket - idler)	61" (1,550 mm)
Total length (undercarriage)	77" (1,960 mm)

DOZER BLADE

Independent of drive train, sensitive control via separate hand lever.

Width x height	4' 11" x 13" (1,510 x 340) mm
Dozer cut below ground	11" (290 mm)
Dozer lift above ground	11" (280 mm)
Slope angle	31°

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. Additional spring-loaded multi-disc brake.

Internally toothed ring gear.

Swing speed	0-10 rpm
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FLUID CAPACITIES

Fuel tank	11 gal (40 l)
Hydraulic system (incl. tank 9 gal (34 l))	11 gal (40 l)

KNICKMATIK®

Lateral parallel adjustment of boom arrangement at full digging depth.

Angle of articulation / lateral adjustment left	60° / 22" (570 mm)
Angle of articulation / lateral adjustment right	67° / 28" (710 mm)

HYDRAULIC SYSTEM

Pump capacity	max. 18 gpm (67 l/min)
Working pressure	250 bar

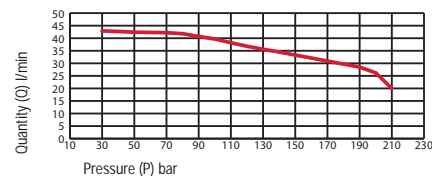
Working hydraulics: LS-axial-piston variable displacement pump, load sensing and load-independent flow division (LUDV) for all work functions und travel drive. Simultaneous independent control of all movements.

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 (except dozer blade). 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. Door with large entry zone on left-hand side. 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

Noise emission ambience L _{WA}	93 dB (A)
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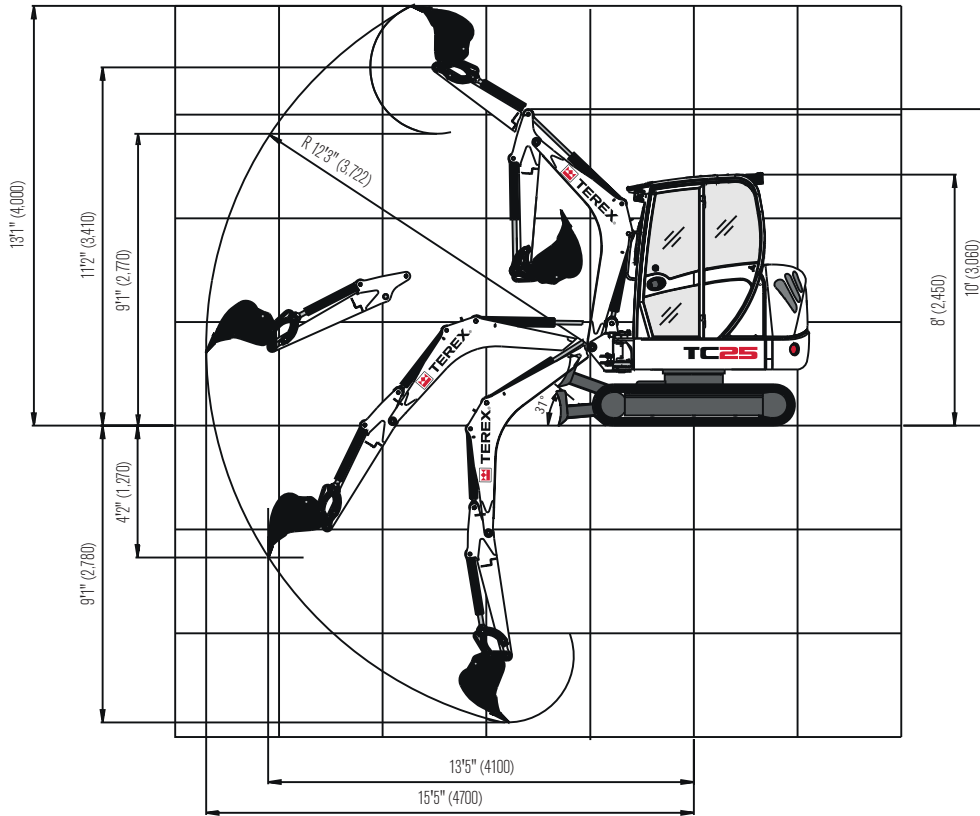
Noise emission cab L _{PA}	79 dB (A)
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Measured in dynamic measuring cycle acc. to EEC-directive 2000/14.

*FOPS-approved only with skylight guard (optional)

WORKING RANGES & DIMENSIONS: MONOBLOC BOOM

TC25



LIFTING CAPACITIES

Bucket hinge height		Load radius from center of ring gear									
		6'7" (2.0 m)		8'2" (2.5 m)		9'10" (3.0 m)		11'6" (3.5 m)		13'1" (4.0 m)	
Dipperstick 3'11" (1,200 mm)		End	Side	End	Side	End	Side	End	Side	End	Side
6'7" (2.0 m)	S	-	-	-	-	1,058 (0.48)	992 (0.45)	1,036 (0.47)	772 (0.35)	-	-
	T	-	-	-	-	1,036 (0.47)	970 (0.44)	1,014 (0.46)	728 (0.33)	-	-
3'3" (1.0 m)	S	2,954 (1.34)	1,852 (0.84)	1,962 (0.89)	1,301 (0.59)	1,455 (0.66)	992 (0.45)	1,190 (0.54)	750 (0.34)	970 (0.44)	617 (0.28)
	T	2,161 (0.98)	1,792 (0.79)	1,543 (0.70)	1,235 (0.56)	1,146 (0.52)	926 (0.42)	882 (0.40)	728 (0.33)	705 (0.32)	573 (0.26)
0 m	S	2,690 (1.22)	1,631 (0.74)	1,984 (0.90)	1,301 (0.59)	1,477 (0.67)	926 (0.42)	1,102 (0.50)	728 (0.33)	860 (0.39)	595 (0.27)
	T	1,896 (0.86)	1,587 (0.72)	1,389 (0.63)	1,190 (0.54)	1,058 (0.48)	860 (0.39)	838 (0.38)	683 (0.31)	683 (0.31)	573 (0.26)
-3'3" (-1.0 m)	S	2,183 (0.99)	1,565 (0.71)	1,587 (0.72)	1,190 (0.54)	1,146 (0.52)	926 (0.42)	882 (0.40)	750 (0.34)	-	-
	T	1,874 (0.85)	1,543 (0.70)	1,631 (0.74)	1,168 (0.53)	1,190 (0.54)	904 (0.41)	816 (0.37)	683 (0.31)	-	-

The above loads (all values in lbs x 1,000 resp. metric tons) are in compliance with SAE J 1097. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping 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 payloads.

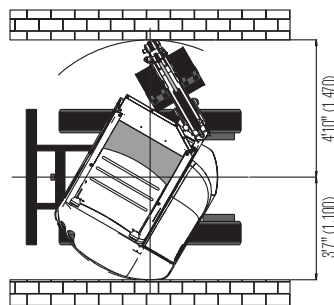
Work equipment: Rubber crawlers, dipperstick 3' 11" (1.2 m).

Abbreviations: S = Supported by blade, T = Traveling

DIMENSIONS

Work equipment:

Monobloc boom with dipperstick 3'11" (1,200 mm)



WORK ATTACHMENTS

BUCKETS

Bucket, QAS	10" (250 mm wide, capacity 1.17 ft ³ (33 l))
Bucket, directly mounted	10" (260 mm wide, capacity 1.34 ft ³ (38 l))
Bucket, QAS	12" (300 mm wide, capacity 1.45 ft ³ (41 l))
Bucket, directly mounted	16" (400 mm wide, capacity 2.22 ft ³ (63 l))
Bucket, QAS	16" (400 mm wide, capacity 2.12 ft ³ (60 l))
Bucket, directly mounted	20" (500 mm wide, capacity 2.83 ft ³ (80 l))
Bucket, QAS	20" (500 mm wide, capacity 2.83 ft ³ (80 l))
Bucket, directly mounted	24" (600 mm wide, capacity 3.43 ft ³ (97 l))
Bucket, QAS	24" (600 mm wide, capacity 3.46 ft ³ (98 l))
Ditch-cleaning bucket, QAS	39" (1,000 mm wide, capacity 3.21 ft ³ (91 l))
Ditch-cleaning bucket, QAS	47" (1,200 mm wide, capacity 3.88 ft ³ (110 l))
Swing bucket, QAS	39" (1,000 mm wide, capacity 3.21 ft ³ (91 l))

OPTIONAL EQUIPMENT

BOOM OPTIONS

Monobloc boom, with extended dipperstick 4'7" (1,400 mm)

CRAWLER CHAIN OPTIONS

Steel crawler chain, 300 mm wide

Rubber crawler chain, 300 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

OPERATOR'S STAND

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

Operator's seat MSG 85 (premium version), hydraulic damping, extra-high backrest, tilt-adjustable armrests longitudinal-horizontal suspension, mechanical lumbar support

GRABS

Clamshell grab GL 1250, grab swing brake	set of shells 10" (250 mm) wide, capacity 12 gal (45 l)
Clamshell grab GL 1350, grab swing brake	set of shells 14" (350 mm) wide, capacity 17 gal (65 l)
Clamshell grab GL 1450, grab swing brake	set of shells 18" (450 mm) wide, capacity 22 gal (85 l)
Ejector	

OTHER WORK ATTACHMENTS

Ripper tooth / QAS (1 tooth)	Cutting unit
Hydraulic hammer	Quick-change adapter for hydraulic hammer
Auger	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
Electronic immobilizer, keypad operation	Radio set installation kit (speakers)
Anti-theft device, coded key (immobilizer)	Motion alarm incl. horn (to be deactivated on demand)
Yellow beacon	

OTHER OPTIONAL EQUIPMENT

Mechanical quick-attach system (QAS)	Track shoes with "Felasto" tiles
Quick-attach system, mechanical (genuine Lehnhoff system), type MS03	Canopy with working floodlight (weight reduction: 176 lbs (80 kg))
Crane loading wire-rope harness	Front dozer blade - extra-long version
Special coating / adhesive films	Boom-mounted working floodlight
Further optional equipment available on request	

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