



OPERATING WEIGHT 2.6 t

ENGINE OUTPUT 17.4 kW (23.7 HP)

BUCKET CAPACITY 32-180 l

MAX. DIG DEPTH 2.78 m

MAX. REACH 4.7 m



Mini Excavator TC25

Technical data

Engine	
Manufacturer, model	Mitsubishi, S3L2
Type	3-cylinder diesel engine, EPA/Tier 4 Interim (2008)
Combustion	4-stroke, swirl chamber injection
Net power rating at 2,200 rpm (ISO 3046)	17.4 kW (23.7 hp)
Displacement	1,318 cm ³
Max. torque	78.4 Nm @ 1,800 rpm
Cooling system	Water

Electrical system	
Nominal voltage	12 V
Battery	12 V / 74 Ah
Generator	12 V / 50 A
Starter	12 V / 1.7 kW

Power Transmission	
Two-stage hydrostatic travel drive with axial piston variable displacement motor and reduction gear, fully enclosed. "Straight-Travel"-function standard. Brake valve for downhill drive.	
Travel speed, forward and reverse	0-2.7 / 4.4 km/h
Max. gradeability	60 %
Drawbar pull 1st / 2nd speed range	1,965 / 1,250 daN

Undercarriage	
Maintenance-free crawler-type undercarriage. Idler suspension with hydraulic crawler tensioning.	
Width rubber crawlers / steel crawlers	250 / 300 mm
Tread width	1,200 mm
Total length (sprocket - idler)	1,550 mm
Total length (undercarriage)	1,960 mm

Dozer blade	
Independent of drive train, sensitive control via hand lever.	
Width x height	1,450 x 340 mm
Dozer cut below ground	280 mm
Dozer lift above ground	290 mm
Slope angle	31°

Steering	
Independent, individual control of crawlers, 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 min ⁻¹

Knickmatik®	
Lateral parallel adjustment of boom arrangement at full digging depth.	
Angle of articulation / lateral adjustment left	60° / 570 mm
Angle of articulation / lateral adjustment right	67° / 710 mm

Fluid Capacities	
Fuel tank	40 l
Hydraulic system (tank 34 l)	40 l

Operating data, standard equipment

Transport weight (without bucket)	2,450 kg
Operating weight acc. to ISO 6016 (incl. operator)	2,600 kg
Total length (travel position)	2,950 mm
Total height (travel position)	3,060 mm
Total width	1,450 mm
Uppercarriage tailswing	1,100 mm
Uppercarriage frontswing	1,470 mm
Working envelope 180° / 360° (bucket heaped)	2,570 / 2,940 mm
Ground clearance	310 mm
Bucket digging force (ISO 6015)	21,800 N
Stick digging force (ISO 6015)	14,600 N
Ground pressure (rubber crawlers)	0.26 daN/cm ²

Hydraulic system

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

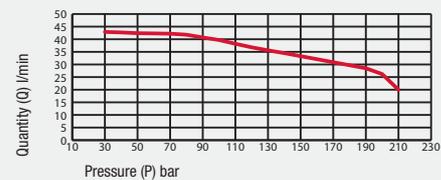
Max. working pressure	250 bar
Max. pump capacity	67 l/min

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 box. Radio pre-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, mechanically cushioned driver's seat with armrests, height, tilt and weight adjustments. Lap seat 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)

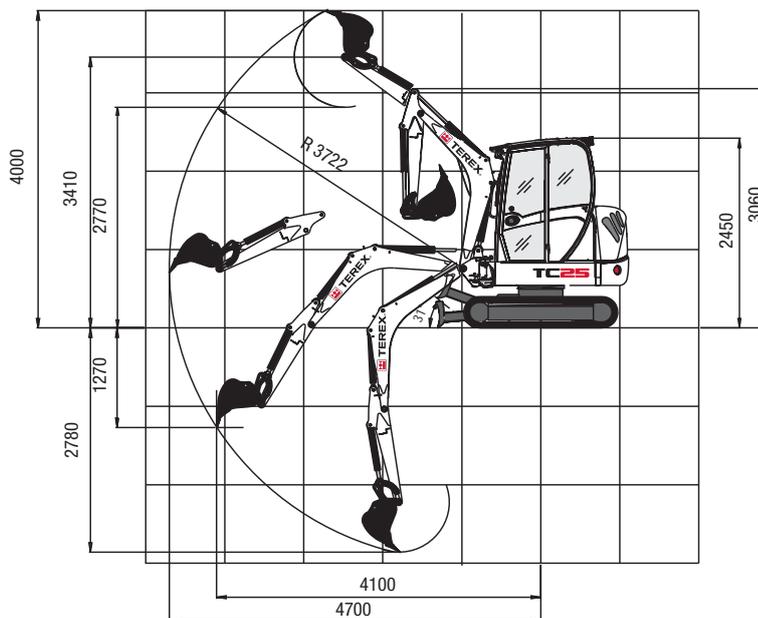
Noise emission cab L_{PA} 79 dB (A)

Measured in dynamic measuring cycle acc. to EEC-directive 2000/14.

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

Mini Excavator TC25

Working ranges: Monobloc boom



Lifting capacities

Bucket hinge height		Load radius from center of ring gear									
		2.0 m		2.5 m		3.0 m		3.5 m		4.0 m	
Dipperstick 1,200 mm		End	Side	End	Side	End	Side	End	Side	End	Side
2.0 m	S	-	-	-	-	0.48	0.45	0.47	0.35	-	-
	T	-	-	-	-	0.47	0.44	0.46	0.33	-	-
1.0 m	S	1.34	0.84	0.89	0.59	0.66	0.45	0.54	0.34	0.44	0.28
	T	0.98	0.79	0.70	0.56	0.52	0.42	0.40	0.33	0.32	0.26
0 m	S	1.22	0.74	0.90	0.59	0.67	0.42	0.50	0.33	0.39	0.27
	T	0.86	0.72	0.63	0.54	0.48	0.39	0.38	0.31	0.31	0.26
-1.0 m	S	0.99	0.71	0.72	0.54	0.52	0.42	0.40	0.34	-	-
	T	0.85	0.70	0.74	0.53	0.54	0.41	0.37	0.31	-	-

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 payloads.

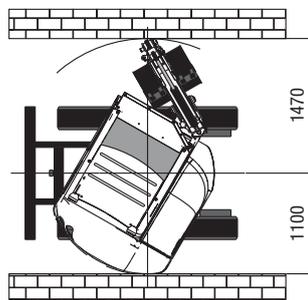
Working equipment: Rubber crawlers.

Abbreviations: S = Supported by blade, T = Traveling

Dimensions

Working equipment:

Monobloc boom with dipperstick 1,200 mm



Terex GmbH Schaeffstrasse 8
D-74595 Langenburg, Germany

PHONE +49 (0)7905 / 58-0 FAX +49 (0)7905 / 58114
EMAIL info@terex-schaeff.com WEB terex.com

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