TEREX®

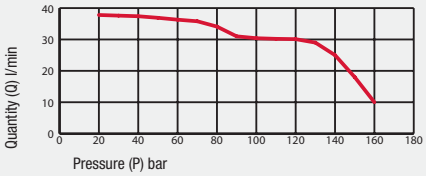
OPERATING WEIGHT	**1.65 t**
ENGINE OUTPUT	**13.1 kW (17.8 HP)**
BUCKET CAPACITY	**22-61 l**
MAX. DIG DEPTH	**2.2 m**
MAX. REACH	**3.9 m**

Mini Excavator TC16

Technical data

Engine	
Manufacturer, model	Mitsubishi, L3E
Type	3-cylinder diesel engine, EPA/Tier 4 Final (2008)
Combustion	4-stroke, swirl chamber injection
Net power rating at 2,250 rpm (ISO 9249)	13.1 kW (17.8 hp)
Displacement	952 cm^3
Max. torque	55 Nm @ 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
Power Transmission	
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	0-2.4 km/h
Max. gradeability	60 %
Drawbar pull	1,160 daN
Undercarriage	
Maintenance-free crawler-type undercarriage. Idler suspension with hydraulic crawler-chain tension. Mechanically retractable/extendable undercarriage provided as standard.	
Range of adjustment (outer edge of crawlers)	990-1,340 mm
Width rubber crawlers / steel crawlers	230 mm
Total length (sprocket - idler)	1,130 mm
Total length (undercarriage)	1,490 mm
Dozer blade	
Independent of drive train, sensitive control via hand lever.	
Width x height	1,340 x 235 mm
Dozer cut below ground / Dozer lift above ground	160 / 200 mm
Slope angle	25°
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-restistant 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° / 370 mm
Angle of articulation / lateral adjustment right	60° / 510 mm
Fluid Capacities	
Fuel tank	30 l
Hydraulic system (tank 25 l)	35 l

Operating data, standard equipment	
Transport weight (incl. bucket)	1,650 kg
Operating weight acc. to ISO 6016 (incl. operator)	1,725 kg
Total length (travel position)	2,500 mm
Total length (trailer transport position)	3,800 (3,720*) mm
Total height (travel position)	2,390 mm
Width (Crawlers retracted)	990 mm
Uppercarriage tailswing	1,130 mm
Uppercarriage frontswing	1,240 mm
Working envelope 180° / 360°	2,370 / 2,500 mm
Ground clearance	170 mm
Bucket digging force (ISO 6015)	14,400 N
Stick digging force (ISO 6015)	9,300 (8,300*) N
Ground pressure (rubber crawlers)	0.25 daN/cm^2
Ground pressure (steel crawlers)	0.26 daN/cm^2
Hydraulic system	
Working hydraulics: Dual fixed displacement pump with integrated power switch. Load-independent flow division (LUDV) for all work functions and travel drive. Simultaneous independent control of all movements.	
Max. working pressure	165 bar
Max. pump capacity	31.5 + 18 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. Shut-off of all functions when operator dismounts from machine.	
Control circuit for work attachments (standard):	
Diagram shows P/Q provided on couplers.	

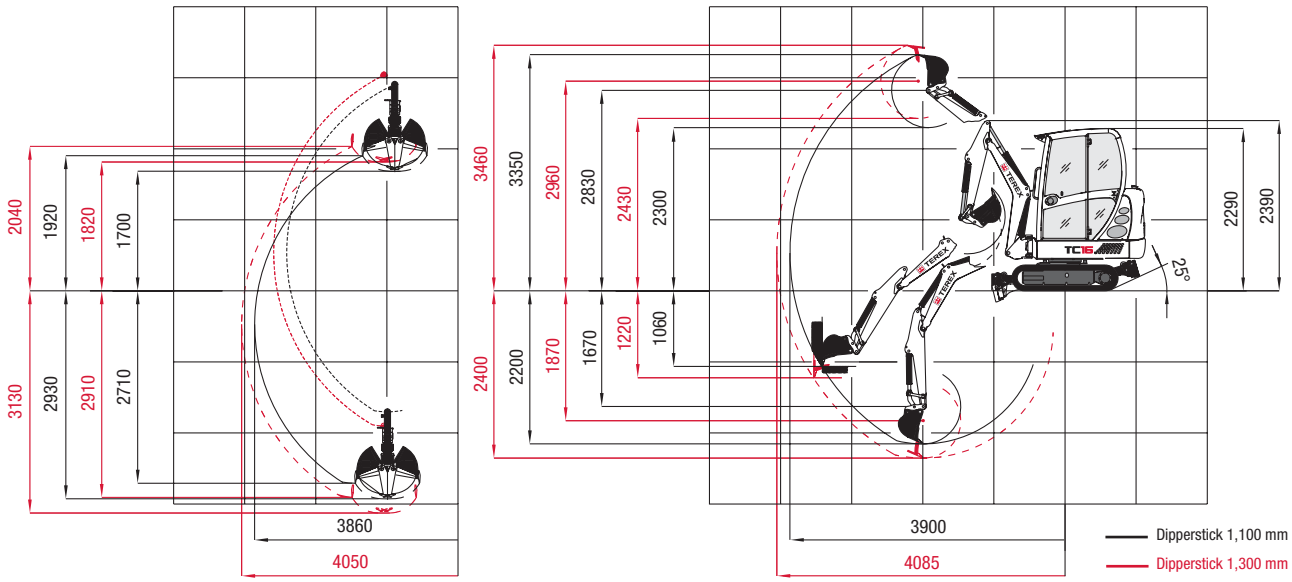


Cab	
Spacious, sound-insulated full-vision steel cab, FOPS** (acc. to ISO 3449) and TOPS (acc. to ISO 12117) certified. Two equally large doors. Safety glass windows, thermo windows tinted in green. Skylight thermo window, bronze tinted. Panoramic rear window. Front window supported by pneumatic springs, lockable for ventilation and slidable under cab roof. Windshield washer system. Storage 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}	78 dB (A)
Measured in dynamic measuring cycle acc. to EEC-directive 2000/14.	
*with dipperstick 1,300 mm (optional)	
**FOPS-approved only with skylight guard (optional)	

Mini Excavator

TC16

Working ranges: Monobloc boom



Lifting capacities

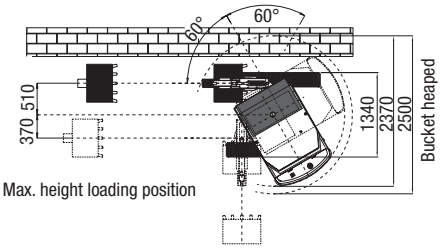
Bucket hinge height		Load radius from center of ring gear															
Dipperstick 1,100 mm		1.5 m				2.0 m				2.5 m				3.0 m			
		UE		UR		UE		UR		UE		UR		UE		UR	
		End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side
2.0 m	S	-	-	-	-	0.56	0.47	0.56	0.37	0.54	0.38	0.54	0.29	-	-	-	-
	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 1,300 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 payloads.
Working equipment: Rubber crawlers.
Abbreviations: UE = Undercarriage extended, UR = Undercarriage retracted, S = Supported by blade, T = Traveling

Dimensions

Working equipment:
Monobloc boom with dipperstick 1,100 mm



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