

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

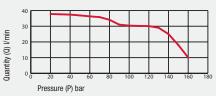
Manufacturer, modelMitsubishi, LisiType3-cylinder diesel engine, EPA/Tier 4 Final (2008)Combustion4-stroke, swirl chamber injectionNet norque35 Stroke, swirl chamber injectionDisplacement952 cmBattery55 Nm @ 2100 rpmCooling systemWaterBattery12 V/ 74 AhGenerator12 V/ 74 AhStarler0.02 V/ 74 AhGenerator12 V/ 74 AhGenerator0.02 A km/AhMatrostatic travel drive with axial piston variable displacement motor and reduction gear, fully enclosed.Straight-Travel'-function standard. Brake valve for downhill drive.Travel geed, forward and reverse0.02 A km/AhMat. gadeability0.60 AnOravabar pull1.51 GamMattenance-free crawler-type undercarriage provided as standard.Range of adjustment (water edge of crawlers)290 minTotal length (undercarriage)1.490 minTotal length (undercarriage)1.490 minTotal length (undercarriage)1.340 x 235 minDisper adjustment (outre realing ensitive control via hand levers200 minMatter adjustive of outral adjustment is the site sensitive control via hand levers combinedStope angle201 Cmin*Mith	Engine	
Combustion 4-stroke, swill 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 Water Electrical system 12 V/740 Starter 12 V/740 Starter 12 V/740 Starter 12 V/740 Starter 0-2.4 km/h Max. gradeability 60% Drawbar pull 1,160 daN Undercarriage 0-2.4 km/h Max. gradeability 60% Drawbar pull 1,160 daN Undercarriage 1,30 nm Total length (sprocket - idler) 1,400 nm Stope angle 25° Stope angle 25° Max gradeability 0.60 nm Drawbar pull 1,400 x235 nm Total length (sprocket - idler) 1,30 nm Total length (sprock	Manufacturer, model	Mitsubishi, L3E
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 Water Electrical system 12 V Battery 12 V/74 Ah Generator 12 V/74 Ah Generator 12 V/74 Ah Starter 12 V/74 Ah Max. gradeability 0.60 An Max.gradeability 0.61 An Max.gradeability 0.62 An month Max.gradeability 0.62 An month Max.gradeability 0.61 An Dispectrality erucates/extendable undercarriage. Idler suspension with hydraulic crawler-chain tension. Mechanically retractable/extendable undercarriage. Total length (sprocket - idler) 1.430 nm Total length (sprocket - idler) 1.490 nm <	Type 3-cylinder	diesel engine, EPA/Tier 4 Final (2008)
Displacement 952 cm ³ Max. torque 55 Nm @ 2100 rpm Cooling system Water Electrical system Water Electrical system 12 V Battery 12 V/74 Ah Generator 02 V/74 Mh Starter 02 V/74 Mh Maintenance-free drive with axial piston variable displacement motor and reduction gear, fully enclosed Diravbar pull 1,60 dah Uddrecarriage 0-24 km/h Maintenance-free crawlers/ pueleccarriage	Combustion	4-stroke, swirl chamber injection
Max. torque 55 Nm @ 2100 rpm Cooling system Water Electrical system 12V Battery 12V/74 Ah Generator 12 V/74 Ah Generator 12 V/74 Ah Generator 12 V/74 Ah Starier 12 V/74 Ah Max. travel drive with adal 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 Ordercarriage 990-1,340 mm Width rubber crawlers / steel crawlers) 990-1,340 mm Vidth rubber crawlers / steel crawlers) 990-1,340 mm Total length (undercarriage) 1,490 mm Total length (undercarriage) 1,490 mm Oczer blade 100 com Independent of drive train, sensitive control via hand lever. 100 com Width x height 1,340 x 235 mm Ozer cut below ground / Dozer lift above ground 160 / 200 mm Stope angle 25' Steering 1440 mm Hydrostatic drive, also acts as wear-restistant br	Net power rating at 2,250 rpm (ISO 9249)	13.1 kW (17.8 hp)
Cooling system Water Electrical system 12V Nominal voltage 12V Battery 12V/74 Ah Generator 12V/17.kW Power Transmission 12V/17.kW 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 00 % Drawbar pull 1,160 dat Undercarriage 990-1,340 mm Width ubber crawlers / steel crawlers 230 mm Total length (sprocket - idler) 1,130 mm Total length (undercarriage) 1,400 x235 mm Dozer Diade 160/200 mm Stope angle 25° Stope angle 25° Stope angle 25° Stope angle 25° Stope angle 0-10 min ¹ Hydrostatic drive, also acts as wear-restistant brake. Internally toothed ring gear. Swing speed 0-10 min ¹ Krickmatik* 20° / 370 mm Angle of articulation / lateral adjustment left 60° / 370 mm <	Displacement	952 cm ³
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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 right 60° / 370 mm Angle of articulation / lateral adjustment right 60° / 100 mm Fuel tank 301	Total length (sprocket - idler)	1,130 mm
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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 501	Swing speed	0-10 min ⁻¹
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Angle of articulation / lateral adjustment right 60° / 510 mm Fluid Capacities Fuel tank 301	Lateral parallel adjustment of boom arrangement at full digging depth.	
Fluid Capacities Fuel tank 301	Angle of articulation / lateral adjustment left	60° / 370 mm
Fuel tank 30 I	Angle of articulation / lateral adjustment right	60° / 510 mm
	Fluid Capacities	
Hydraulic system (tank 25 l) 35 l	Fuel tank	30
	Hydraulic system (tank 25 l)	35

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 pov division (LUDV) for all work functions and travel drive. Simultaneous inde	
Max. working pressure	165 bar
Max. pump capacity	31.5 + 18 l/mir
Tank-immersed return filter with electric contamination indicator, full fi provided as standard. Boom, dipperstick and articulated cylinders with sides, bucket retract function with one-side end-position damping.	·
Onen voture provided as standard All functions can be activated property	Secolly The same contract in the

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.

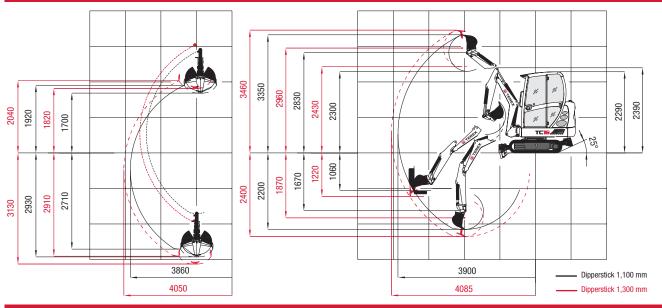
Fabric-covered, mechanically cushioned driver's seat with armrests, height, tilt and weight adjustments. Lap seat belt.

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 FEC-directive 2000/14							

*with dipperstick 1,300 mm (optional)

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

Working ranges: Monobloc boom



Lifting capacities

Bucket hir	Bucket hinge height Load radius from center of ring gear																
Dipperstick	(1,100 mm		1.5	i m		2.0 m				2.5 m				3.0 m			
		UE		UR		UE		UR		UE		UR		UE		ι	JR
		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	-	-	-	-
	Т	-	-	-	-	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
	Т	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
	Т	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
	т	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

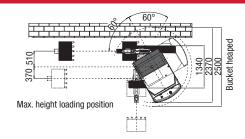
Bucket hir	nge height	eight Load radius from center of ring gear															
Dipperstick	1,300 mm		1.5	m		2.0 m					2.	5 m		3.0 m			
		U	E	U	R	UE		UR		UE		UR		UE		UR	
		End	Side	End	Side	End	End Side End Side		Side	End	Side	End Side		End	Side	End	Side
2.0 m	S	-	-	-	-	-	-	-	-	0.45	0.46	0.45	0.29	0.35	0.32	0.35	0.22
	Т	-	-	-	-	-	-	-	-	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
	Т	-	-	-	-	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
	т	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
	Т	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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