



OPERATING WEIGHT	3.5 t
ENGINE OUTPUT	22 kW (29.9 HP)
BUCKET CAPACITY	63-181 l
MAX. DIG DEPTH	3.4 m
MAX. REACH	5.5 m



Mini Excavator TC35

Technical data

Engine	
Manufacturer, model	Mitsubishi, S4L2
Type	4-cylinder diesel engine, EPA/Tier 4 Interim (2008)
Combustion	4-stroke, swirl chamber injection
Net power rating at 2,100 rpm (ISO 9249)	22 kW (29.9 hp)
Displacement	1,758 cm ³
Max. torque	104 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 / 2.0 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 / 4.6 km/h
Max. gradeability	60 %
Drawbar pull 1 st / 2 nd speed range	3,100 / 1,600 daN
Undercarriage	
Maintenance-free crawler-type undercarriage. Idler suspension with hydraulic crawler tensioning.	
Width rubber crawlers / steel crawlers	300 mm
Tread width	1,200 mm
Total length (sprocket - idler)	1,555 mm
Total length (undercarriage)	1,996 mm
Dozer blade	
Dozer blade available in "standard" and "extra-long" version, independent of drive train, sensitive control via hand lever.	
Width x height ("standard" / "extra-long")	1,510 x 360 mm
Dozer cut below ground	320 / 298 mm
Dozer lift above ground	202 / 447 mm
Slope angle	22° / 31°
Slope balance	9,7° / 7,7°
Steering	
Independent, individual control of crawlers, also counterwise via 2-circuit hydraulic system. 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	0-10.5 min ⁻¹
Knickmatik®	
Lateral parallel adjustment of boom arrangement at full digging depth.	
Angle of articulation / lateral adjustment left	60° / 445 mm
Angle of articulation / lateral adjustment right	60° / 595 mm
Fluid Capacities	
Fuel tank	52 l
Hydraulic system (tank 71 l)	85 l

Operating data, standard equipment

Transport weight (incl. bucket)	3,500 kg
Operating weight acc. to ISO 6016 (incl. operator)	3,575 kg
Total length (travel position)	3,285 mm
Total length (trailer transport position)	5,150 mm
Total height (travel position)	3,500 mm
Total width	1,500 mm
Uppercarriage tailswing	1,350 mm
Uppercarriage frontswing	1,600 mm
Working envelope 180° / 360°	2,970 / 3,200 mm
Ground clearance	300 mm
Bucket digging force (ISO 6015)	24,600 N
Stick digging force (ISO 6015)	16,200 (14,900*) N
Ground pressure (rubber crawlers)	0.31 daN/cm ²
Ground pressure (steel crawlers)	0.32 daN/cm ²

Hydraulic system

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

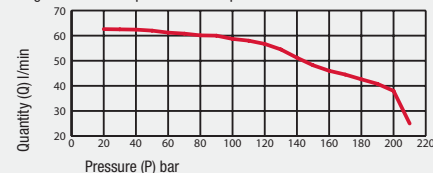
Max. working pressure 250 bar
Max. pump capacity 95 l/min

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} 95 dB (A)

Noise emission cab L_{PA} 76 dB (A)

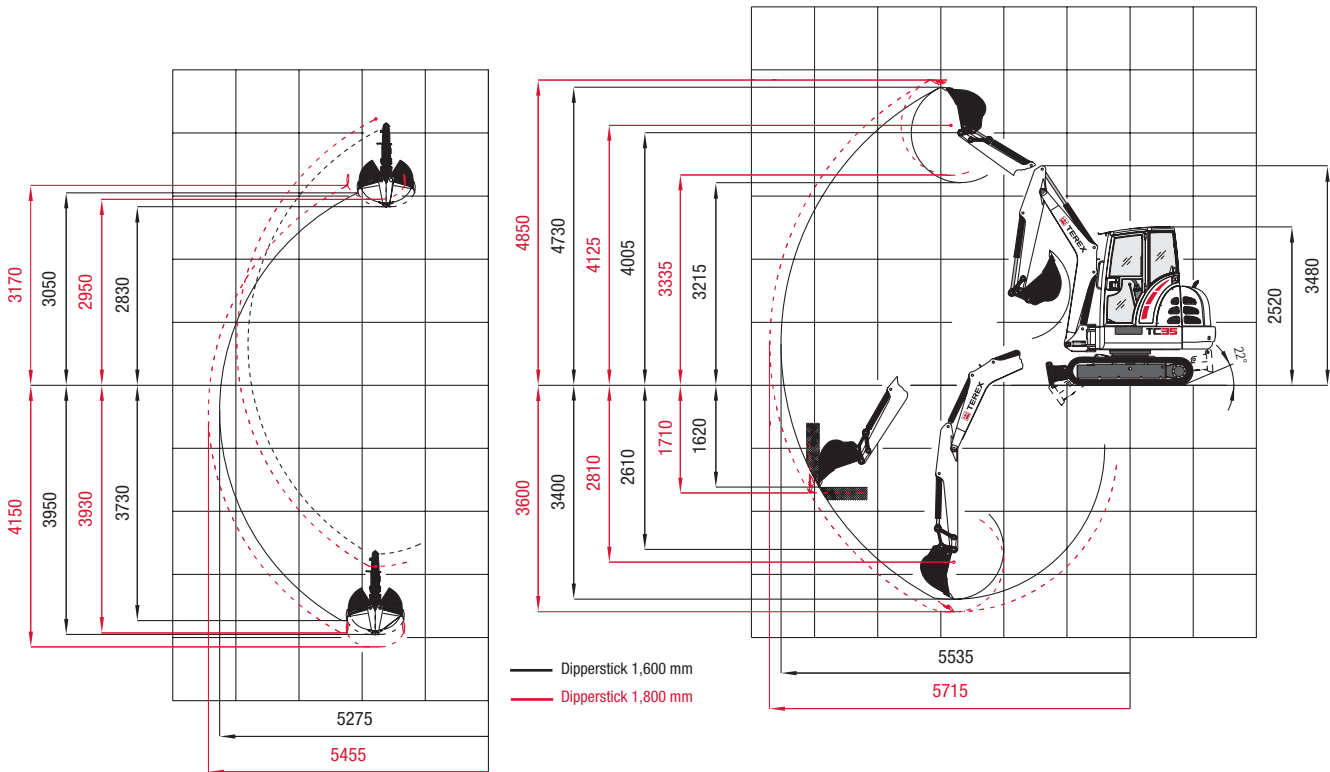
Measured in dynamic measuring cycle acc. to EEC-directive 2000/14.

*with dipperstick 1,800 mm (optional)

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

Mini Excavator TC35

Working ranges: Monobloc boom



Lifting capacities

Bucket hinge height		Load radius from center of ring gear											
Dipperstick 1,600 mm		2.0 m		2.5 m		3.0 m		3.5 m		4.0 m		4.5 m	
		End	Side	End	Side	End	Side	End	Side	End	Side	End	Side
2.0 m	S	-	-	1.10	1.07	1.03	0.82	0.98	0.63	0.91	0.51	0.82	0.42
	T	-	-	1.07	1.00	0.95	0.78	0.82	0.60	0.55	0.49	0.42	0.39
1.0 m	S	2.53	1.35	1.86	0.98	1.39	0.76	1.15	0.60	0.96	0.48	0.83	0.40
	T	1.45	1.27	1.01	0.93	0.79	0.72	0.59	0.57	0.48	0.46	0.40	0.38
0 m	S	2.00	1.11	1.90	0.90	1.44	0.71	1.14	0.57	0.93	0.47	0.76	0.39
	T	1.15	1.07	0.90	0.84	0.71	0.67	0.56	0.54	0.49	0.44	0.41	0.38
-1.0 m	S	1.25	1.20	1.44	0.82	1.18	0.65	1.04	0.54	0.81	0.47	-	-
	T	1.08	1.05	0.81	0.77	0.59	0.61	0.57	0.52	0.51	0.43	-	-

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.

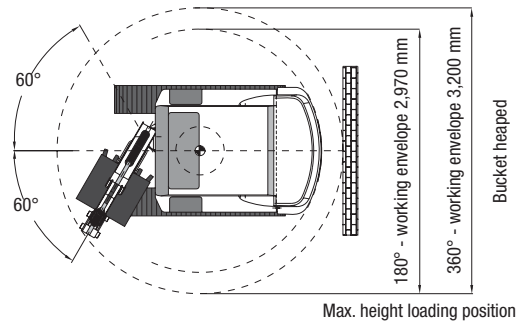
Working equipment: Rubber crawlers.

Abbreviations: S = Supported by blade, T = Traveling

Dimensions

Working equipment:

Monobloc boom with dipperstick 1,600 mm



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