

Mini Excavator

OPERATING WEIGHT	2.85 t
NET ENGINE POWER	19.0 kW (25.8 hp)
BUCKET CAPACITIES	32 - 110 l
MAX. DIG DEPTH	2.8 m
MAX. REACH	4.8 m



MINI EXCAVATOR TC29

Operating Data, Standard Equipment

Transport weight (incl. bucket)	2850 kg
Operating weight acc. to ISO 6016 (incl. operator)	2925 kg
Total length (travel position)	3100 mm
Total length (trailer transport position)	4677 mm
Total height (travel position)	3000 mm
Total width	1400 mm
Uppercarriage tailswing	1300 mm
Uppercarriage frontswing	1525 mm
Working envelope 180° / 360°	2800 / 3050 mm
Ground clearance	270 mm
Bucket digging force (ISO 6015)	21,300 N
Stick digging force (ISO 6015)	13,600 (11,900*) N
Ground pressure (rubber crawlers)	0.27 daN/cm ²
Ground pressure (steel crawlers)	0.28 daN/cm ²

*with dipperstick 1550 mm (optional)

Specifications

Engine

Manufacturer, model	Mitsubishi, S4L
Type	4-cylinder diesel engine, EPA/Tier 2
Combustion	4-stroke, swirl chamber injection
Net power rating at 2000 rpm (ISO 9249)	19.0 kW (25.8 hp)
Displacement	1500 cm ³
Max. torque	88 Nm at 1600 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 / 4.7 km/h
Max. gradeability	60 %
Drawbar pull 1 st / 2 nd speed range	2800 / 1100 daN

Undercarriage

Maintenance-free crawler-type undercarriage. Idler suspension with hydraulic crawler tensioning.	
Width rubber crawlers / steel crawlers	300 mm
Tread width	1100 mm
Total length (sprocket - idler)	1390 mm
Total length (undercarriage)	1830 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")	1410 x 330 mm
Dozer cut below ground	285 / 296 mm
Dozer lift above ground	206 / 406 mm
Slope angle	22° / 28°
Slope balance	9,2° / 8,1°

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 rpm

Fluid Capacities

Fuel tank	52 l
Hydraulic system (tank 71 l)	85 l



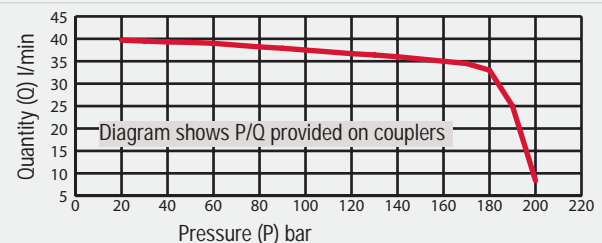
Hydraulic system

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	210 bar
Max. pump capacity	99 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.

Control circuit for work attachments (standard):



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.

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

Cab

Spacious full-vision steel cab (free spaces in compliance with EN 23411), ROPS (acc. to ISO 3471) 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.

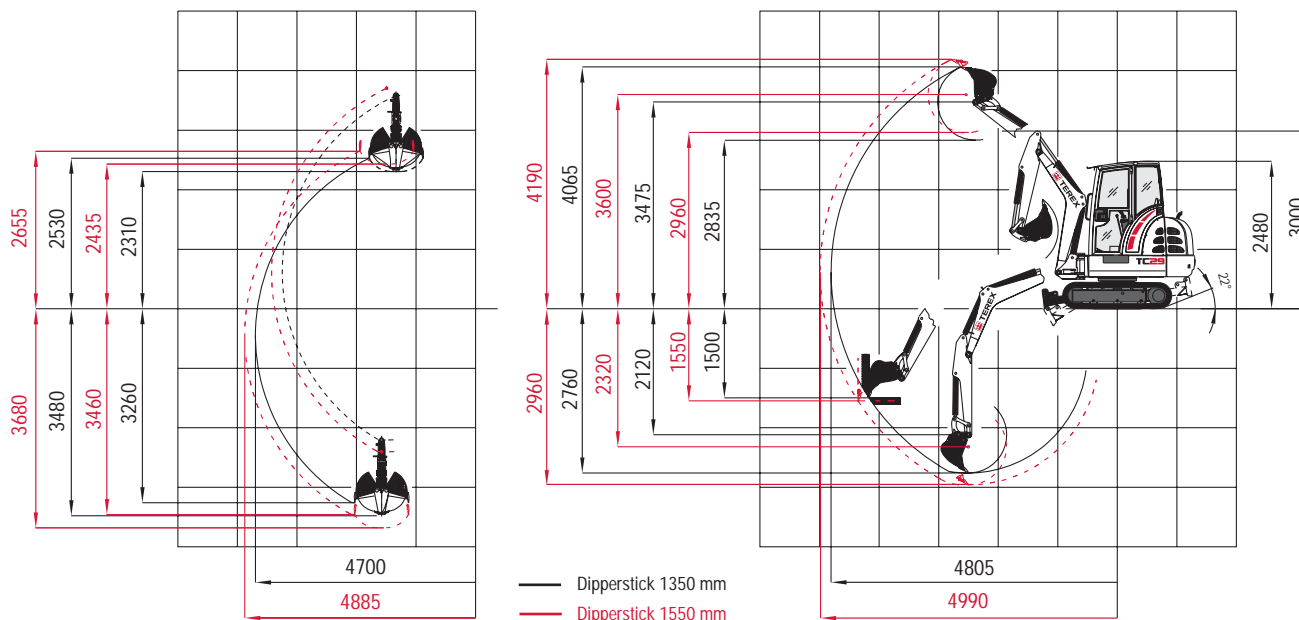
Fabric-covered, hydraulically cushioned driver's seat with armrests, height, tilt and weight adjustments. Safety belt.

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}	94 dB (A)
Noise emission cab L_{PA}	80 dB (A)
Measured in dynamic measuring cycle acc. to EEC-directive 2000/14.	

*FOPS-approved only with skylight guard (optional)

Working ranges: Monobloc boom



Lifting capacities

Bucket hinge pin height		Load radius from center of ring gear									
		2.0 m		2.5 m		3.0 m		3.5 m		4.0 m	
Dipperstick 1600 mm		End	Side	End	Side	End	Side	End	Side	End	Side
2.0 m	S	-	-	0.83	0.68	0.78	0.54	0.66	0.39	-	-
	T	-	-	0.68	0.66	0.53	0.53	0.38	0.38	-	-
1.0 m	S	1.41	0.94	1.04	0.67	0.91	0.51	0.77	0.38	0.54	0.32
	T	0.85	0.93	0.67	0.66	0.45	0.49	0.36	0.37	0.30	0.31
0 m	S	1.35	0.81	0.98	0.58	0.75	0.48	0.62	0.37	0.52	0.32
	T	0.76	0.78	0.56	0.57	0.45	0.46	0.35	0.36	0.29	0.30
-1.0 m	S	1.04	0.88	0.85	0.52	0.68	0.46	0.45	0.37	-	-
	T	0.75	0.82	0.50	0.51	0.43	0.45	0.35	0.36	-	-

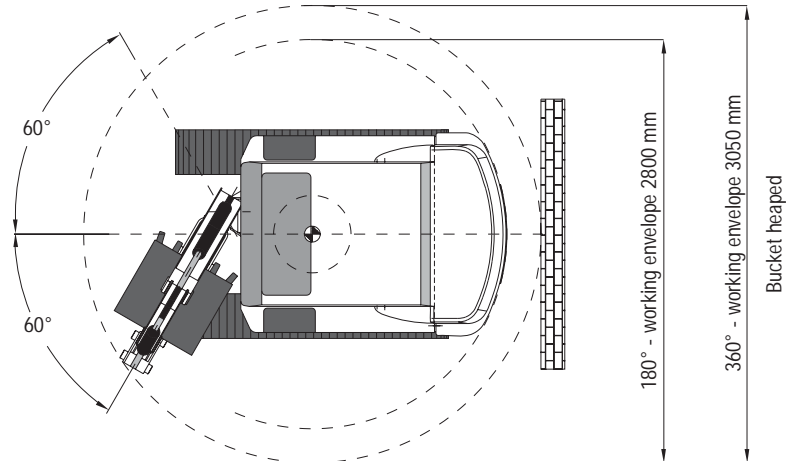
All values in tons (t) were determined acc. to ISO 10567 and include a stability factor of 1.33 or 87% of the hydraulic lifting capacity. All values were determined with quick-attach system but without bucket. In case of mounted-on work attachments, the deadweights of the work attachments must be deducted from the permissible payloads.

Working equipment: Rubber crawlers.

Abbreviations: S = Supported by blade, T = Traveling

Mini Excavator TC29

Dimensions



Working equipment: Monobloc boom with dipperstick 1350 mm

Max. height loading position

Options

Accessories

Mechanical quick-attach system for work tools (QAS)
Canopy with working floodlight (weight reduction: 80 kg)
Dipperstick 1550 mm
Steel crawlers, 300 mm wide
Luxury driver's seat, height-adjustable, with extra-high back rest, progressively adjustable to operator's weight, seating has tilt and lengthwise adjustment. Upward folding, tilt-adjustable comfort armrests.
FOPS-skylight guard
Cab-mounted working floodlight, front and rear
Boom-mounted working floodlight
Yellow beacon
Travel motion alarm (acoustic signal)
Crane loading wire-rope harness
Track shoes with "Felasto" tiles
Quick-change adapter for hydraulic hammer
Filling with biodegradable hydraulic oil, ester-based, VI 68
Anti-teft device (immobilizer)

Buckets

Bucket, with ejector (QAS)	250 mm / 45 l
Bucket, (QAS)	250 mm / 32 l
Bucket (QAS)	300 mm / 40 l
Bucket	400 mm / 56 l
Bucket (QAS)	400 mm / 38 l
Bucket (QAS)	500 mm / 73 l
Bucket	600 mm / 89 l*
Ditch-cleaning bucket (QAS)	1000 mm / 110 l*
Swing bucket, 2 x 45° (QAS)	1000 mm / 96 l*

Clamshell grabs

Type GL 1250 (QAS), grab swing brake	250 mm / 45 l
Type GL 1350 (QAS), grab swing brake	350 mm / 65 l
Type GL 1450 (QAS), grab swing brake	450 mm / 85 l*

*with dipperstick 1.550 mm up to a maximum of 1.6 t/m³

Further attachments available on request



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