

## Crawler Excavator

OPERATING WEIGHT	5.65 t
NET ENGINE POWER	37.9 kW (51.5 hp)
BUCKET CAPACITIES	75 - 245 l
MAX. DIG DEPTH	3.8 m
MAX. REACH	6.4 m



# CRAWLER EXCAVATOR TC60

### Operating Data, Standard Equipment

Operating weight acc. to ISO 6016 (incl. operator)	5650 kg
Total length (trailer transport position)	max. 5810 / min. 5390 mm
Total width (Uppercarriage)	1780 mm
Total width (Undercarriage)	1980 mm
Uppercarriage tailswing	1050 mm
Working envelope 180° / 360°	3100 / 4100 mm
Ground clearance	360 mm
Bucket digging force (ISO 6015)	40,000 N
Stick digging force (ISO 6015)	28,200 N
Ground pressure (rubber crawlers)	0.29 daN/cm <sup>2</sup>
Ground pressure (steel crawlers)	0.31 daN/cm <sup>2</sup>

## Specifications

### Engine

Manufacturer, model	Mitsubishi, S4Q2
Type	4-cylinder diesel engine, COM II/EPA II
Combustion	4-stroke, swirl chamber injection
Net power rating at 2400 rpm (ISO 9249)	37.9 kW (51.5 hp)
Displacement	2505 cm <sup>3</sup>
Max. torque	138 Nm at 1600 rpm
Cooling system	Water

### Electrical system

Nominal voltage	12 V
Battery	12 V / 74 Ah / 680 A
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	0-3.0 / 5.2 km/h
Max. gradeability	> 60 %

### Undercarriage

Maintenance-free crawler-type undercarriage. Idler suspension with hydraulic crawler tensioning.	
Width rubber crawlers / steel crawlers	400 mm
Tread width	1580 mm
Total length (sprocket - idler)	2060 mm
Total length (undercarriage)	2570 mm

### Dozer blade

Independent of drive train, sensitive control via hand lever.	
Width x height	1990 x 446 mm
Dozer cut below ground	360 mm
Dozer lift above ground	430 mm
Slope angle	35°

### 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	0-9.5 rpm

### Fluid Capacities

Fuel tank	95 l
Hydraulic system (tank 72 l)	108 l



### Hydraulic system

Working hydraulics: Tandem-controlled dual piston variable displacement pump for all work movements and travel drive, 1 gear pump for swinging and dozer blade and 1 pump for pilot pressure. Simultaneous independent control of all movements.

Max. working pressure	245 bar
Max. pump capacity	2 x 62,4+43,2+8,4 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):

Max. working pressure	210 bar
Max. variable pump capacity, pressure-controlled	62 l/min

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. Additional control circuit electrically operated with preselection of flow rate and impulse/continuous operation.

### Knickmatik®

Lateral parallel adjustment of boom arrangement at full digging depth.	
Angle of articulation / lateral adjustment left	60° / 710 mm
Angle of articulation / lateral adjustment right	60° / 850 mm

### Cab

Spacious, sound-insulated full-vision steel cab, FOPS\* (acc. to ISO 3449) and TOPS (acc. to ISO 12117) certified. 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 3-speed fan, ventilating mode in summer.

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

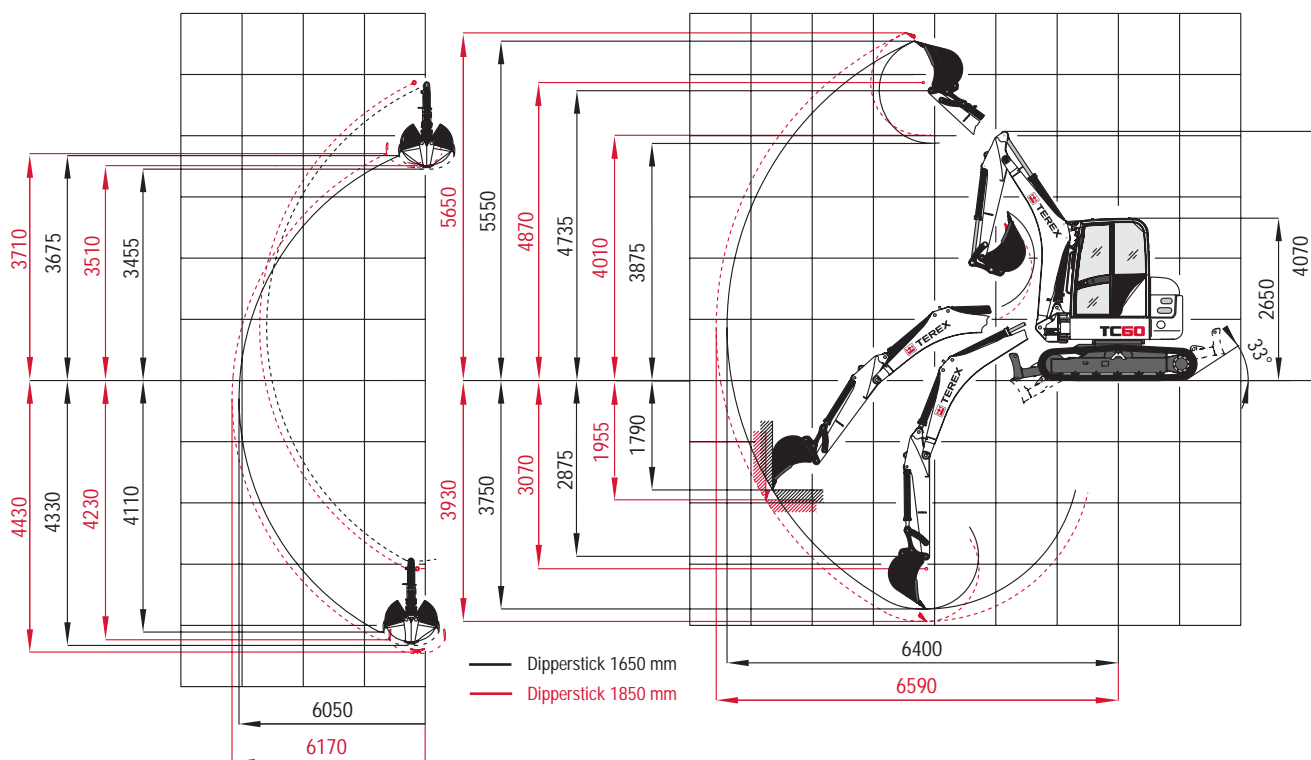
Instrument panel on the right hand side of the operator's seat with visual & acoustic warning device, hour-meter, instrument cluster with large fuel gauge.

Working flood lights Halogen H-3.

Sound level values in compliance with EC-directives.

\*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		3.0 m		4.0 m		5.0 m		5.4 m	
Dipperstick 1650 mm		End	Side	End	Side	End	Side	End	Side	End	Side
3.0 m	S	-	-	-	-	1.44	0.98	-	-	-	-
	T	-	-	-	-	1.13	0.91	-	-	-	-
1.5 m	S	2.99	2.05	2.33	1.52	1.72	0.94	1.35	0.65	1.20	0.57
	T	2.26	1.92	1.80	1.41	1.13	0.89	0.78	0.61	0.68	0.53
0 m	S	-	-	2.93	1.27	1.89	0.83	1.31	0.59	1.08	0.52
	T	-	-	1.88	1.20	1.07	0.79	0.86	0.55	0.76	0.48
-0.7 m	S	2.70	1.67	2.60	1.20	1.72	0.77	1.19	0.58	1.00	0.54
	T	1.65	1.53	1.58	1.15	1.03	0.76	0.74	0.56	0.65	0.51

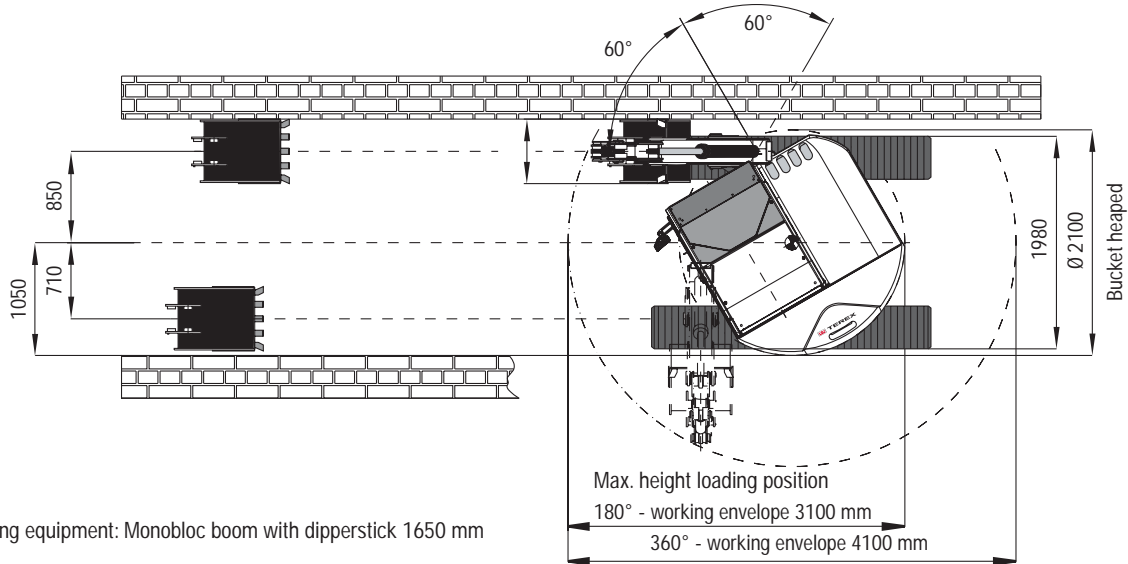
All values in tons (t) were determined acc. to ISO 10567 and include a stability factor of 1.33 or 87% of the hydraulic lifting capacity. All values were determined with quick-attach system but without bucket. In case of mounted-on work attachments, the deadweights of the work attachments must be deducted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

Working equipment: Rubber crawlers, monobloc boom, dipperstick 1650 mm.

Abbreviations: S = Supported by blade, T = Traveling

# Crawler Excavator TC60

## Dimensions



## Options

### Accessories

Mechanical quick-attach system for work tools (QAS)
Dipperstick 1850 mm
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)
Open return
Track shoes with "Felasto" tiles for steel crawlers
Quick-change adapter for hydraulic hammer
Filling with biodegradable hydraulic oil, ester-based, VI 68
Anti-teft device (immobilizer)

### Buckets

Bucket, tapered (QAS)	300 mm / 80 l
Bucket, with ejector (QAS)	300 mm / 75 l
Bucket, tapered (QAS)	400 mm / 115 l
Bucket, with ejector (QAS)	400 mm / 110 l
Bucket (QAS)	500 mm / 150 l
Bucket (QAS)	600 mm / 180 l
Bucket (QAS)	750 mm / 245 l
Ditch-cleaning bucket (QAS)	1250 mm / 170 l
Swing bucket, 2 x 45° (QAS)	1250 mm / 180 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
Type GL 1600 (QAS), grab swing brake	600 mm / 115 l

Further attachments available on request



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