

Compact Crawler Excavator

OPERATING WEIGHT	12,458 - 13,140 lbs (5,650 - 5960 kg)
NET ENGINE POWER	51.5 hp (37.9 kW)
MAX DIG DEPTH	12' 3" (3.8 m)
MAX REACH	21' 0" (6.4 m)



COMPACT CRAWLER EXCAVATOR
TC60

Operating Data, Standard Equipment

Operating weight (rubber crawlers)	12,458 lbs (5,650 kg)
Operating weight (steel crawlers)	13,140 lbs (5,960 kg)
Overall length (travel position)	12' 3" (3.8 m)
Overall height (travel position)	13' 3" (4 m)
Total length (trailer transport position)	19' 1" (5.8 m)
Total height (top of cab)	8' 7" (2.7 m)
Total width (uppercarriage)	5' 8" (1.8 m)
Total width (undercarriage)	6' 5" (2 m)
Ground clearance	14" (360 mm)
Uppercarriage tailswing	2.5" (64 mm)
Working envelope (180°)	10' 2" (3.1 m)
Working envelope (360°)	13' 5" (4.1 m)
Bucket digging force (SAE J 1179)*	9,000 lbs (40,000 N)
Stick digging force (SAE J 1179)*	6,345 lbs (28,200 N)
Ground pressure (rubber crawlers)	7 psi (0.29 daN/cm ²)
Ground pressure (steel crawlers)	7 psi (0.31 daN/cm ²)

*Standard equipment, may vary with different bucket.

Specifications

Engine

Manufacturer, model	Mitsubishi
Type	4-cylinder diesel engine
Combustion	4-stroke, swirl chamber injection
Displacement	153 in ³ (2.5 L)
Net power rating at 2,400 rpm (SAE J 1349)	51.5 hp (37.9 kW)
Cooling system	Water

Electrical System

Nominal voltage	12 V
Battery	12 V / 74 Ah

Power Transmission

Two-stage hydrostatic travel drive with axial piston variable displacement motor and reduction gear, fully enclosed. "Straight Travel" function. Brake valve for downhill drive.

Travel speed forward/reverse	0 – 1.9 mph (0 – 3.0 km/h) 0 – 3.2 mph (0 – 5.2 km/h)
Gradeability	> 60%
Drawbar pull	9,270/5,440 lbf (41/24 kN)

Undercarriage

Maintenance-friendly crawler-type undercarriage with triple grouser plates or rubber crawlers. Idler suspension with hydraulic crawler tensioning.

Rubber crawlers/steel crawlers	16" (400 mm)
Tread width	5' 2" (1.6 m)
Undercarriage length (sprocket - idler -/total)	6' 8" / 8' 4" (2.1/2.6 m)

Dozer Blade

Independent from drive train, sensitive control via hand lever.

Width x height	6' 5" x 18" (2.0 x 0.4 m)
Dozer cut below ground	14" (360 mm)
Dozer cut above ground	17" (430 mm)
Slope angle	35°
Slope balance	8°

Steering

Independent, individual control of crawlers, also counterwise via 2-circuit hydraulic system. Sensitive control via hand levers combined with foot pedals. Pedal console serves as foot rest. During high gear maneuvers, there is an automatic downshift to 1st speed range at full steering force.

Swing System

Hydrostatic drive with axial piston motor and reduction gear. Internally toothed ring gear.

Swing speed of uppercarriage	0 – 9.5 rpm
Swing brake: Hydrostatic drive, also provides dynamic braking. Additional, spring-loaded multi-disc brake automatically acting when the swing control lever is in neutral position.	



Hydraulic System

Working hydraulics: Summation-controlled dual piston variable displacement pump for all work movements and travel drive, 1 gear pump for slewing and dozer blade and 1 pump for pilot pressure. 3 simultaneous movements possible

Maximum working pressure	3,553 psi up to (245 bar)
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Pump capacities	16.5 + 16.5 + 11.4 +2.2 gpm (62.4 + 62.4 + 43.2 + 8.4 Lpm)
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Return filter with electronic contamination indicator and full-flow filtration. Hydraulic oil cooler provided as standard. Boom and dipperstick cylinders with end-position damping on both sides: "bucket retract" function with end-of-stroke damper - "bucket dump" function without end-of-stroke damper. Additional control circuit for work attachments (e.g. clamshell grab, swing bucket, hammer) provided as standard.

Auxiliary hydraulics:

Maximum working pressure	3,045 psi (210 bar)
Pump capacity, pressure-controlled	16.4 gpm (62 Lpm)

Open return as standard. All functions can be activated proportionally. Two servo-assisted, four-way control levers for excavator operations. Shut-off of all functions when dismantling the machine.

Knickmatik®

Lateral parallel adjustment of boom arrangement at full digging depth.

Angle of artic./ lateral adjustment left	60° / 2' 3" (60° / 710 mm)
Angle of artic./ lateral adjustment right	60° / 2' 8" (60° / 850 mm)

Cab

Spacious, sound-insulated full-vision steel cab. Safety glass windows. Skylight thermo window, tinted. Panoramic rear window. Front window supported by pneumatic springs and slidable under cab roof. Windshield washer. Glove box. Radio installation kit. Left hand outside rear-view mirror.

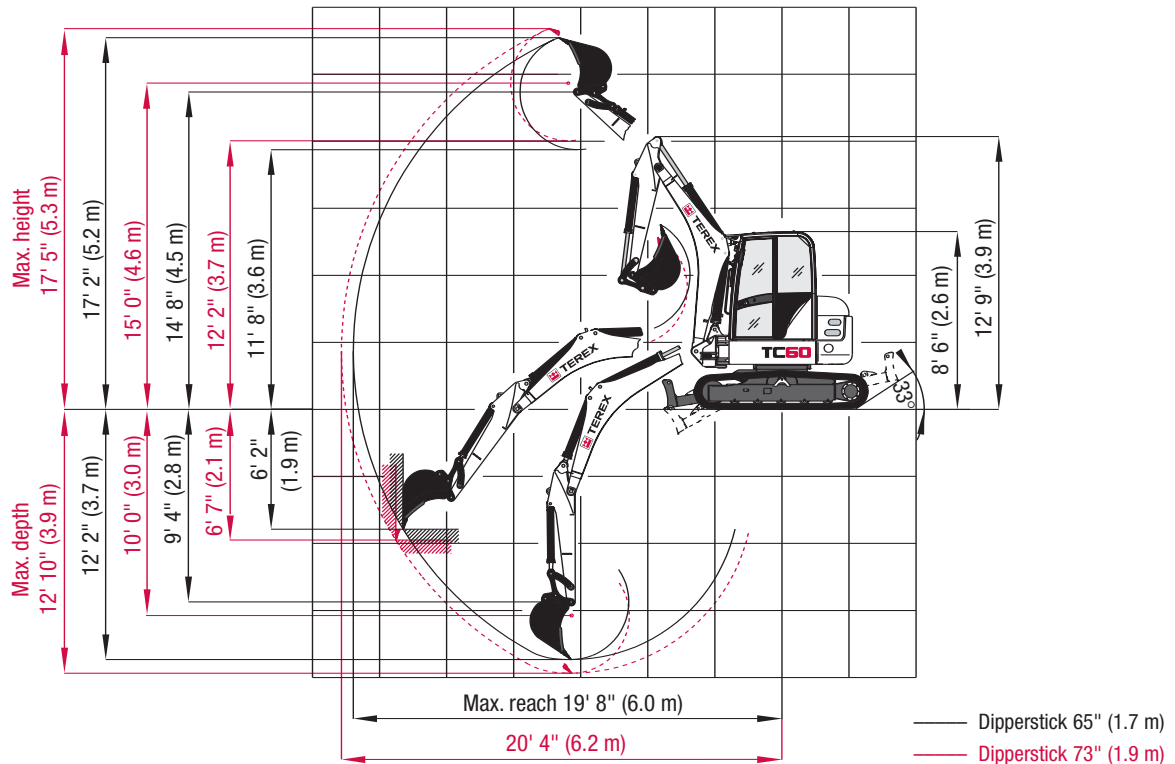
Noise emission cab	LpA 75 dB (A)
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Optional FOPS approved skylight guard available.

Fluid Capacities

Fuel tank	25 gal (95 L)
Hydraulic system (19.8 gal (75 L) tank)	28.5 gal (108 L)

Working Ranges & Dimensions



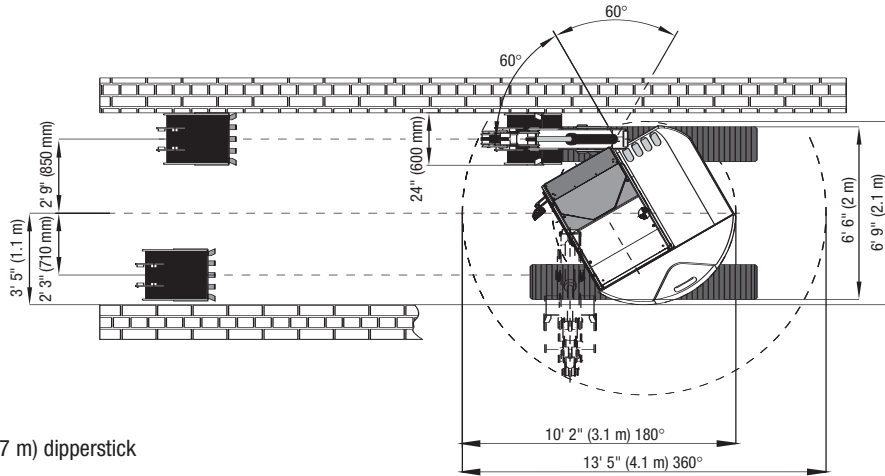
Lifting Capacities: 65" (1.7 m) Dipperstick

Unit: x 1,000 lbs (Metric tons)	Load radius from the center of the ring gear									
Bucket hinge pin height	8' 2" (2.5 m)		9' 10" (3.0 m)		13' 1" (4.0 m)		14' 9" (4.5 m)		17' 8" (5.4 m)	
	End	Side	End	Side	End	Side	End	Side	End	Side
9' 10" (3.0 m)										
Supported by blade	-	-	-	-	3.17 (1.44)	2.16 (0.98)	-	-	-	-
Traveling	-	-	-	-	2.49(1.13)	2.00(0.91)	-	-	-	-
4' 11" (1.5 m)										
Supported by blade	6.59 (2.99)	4.51 (2.05)	5.13 (2.33)	3.35(1.52)	3.79 (1.72)	2.07 (0.94)	2.97 (1.35)	1.43 (0.65)	2.64 (1.20)	1.25 (0.57)
Traveling	4.98 (2.26)	4.23 (1.92)	3.96 (1.80)	3.10 (1.41)	2.49 (1.13)	1.96 (0.89)	1.71 (0.78)	1.34 (0.61)	1.49 (0.68)	1.16 (0.53)
0										
Supported by blade	-	-	6.45 (2.93)	2.79 (1.27)	4.16 (1.89)	1.83 (0.83)	2.88 (1.31)	1.30 (0.59)	2.38 (1.08)	1.14 (0.52)
Traveling	-	-	4.14 (1.88)	2.64 (1.20)	2.35 (1.07)	1.74 (0.79)	1.89 (0.86)	1.21 (0.55)	1.71 (0.76)	1.05 (0.48)
- 2' 4" (- 0.7 m)										
Supported by blade	5.95 (2.70)	3.68 (1.67)	5.73 (2.60)	2.64 (1.20)	3.79 (1.72)	1.69 (0.77)	2.62 (1.19)	1.27 (0.58)	2.20 (1.00)	1.19 (0.54)
Traveling	3.63 (1.65)	3.37(1.53)	3.48 (1.58)	2.53 (1.15)	2.27 (1.03)	1.67 (0.76)	1.63 (0.74)	1.23 (0.56)	1.44 (0.65)	1.12 (0.51)

The above loads (all values in lbs x 1,000 resp. metric tons) are in compliance with SAE J 1097. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity. In each case, the smaller value is indicated. All values were determined with load hook. In the event of an attached bucket the difference weights bucket minus load hook must be deducted from the permissible payloads. When used for crane operations, excavators must be equipped with hose-rupture safety valves and overload warning device. Working equipment: Rubber crawlers, dipperstick 65" (1.7 m).

Compact Crawler Excavator TC60

Working Envelope / Top View



Work equipment: 65" (1.7 m) dipperstick

Attachments / Accessories

Optional Accessories	
Mechanical quick-coupler system for work tools (QMH)	
Height adjustable luxury operator's seat with extra-high back rest, progressively adjustable to operator's weight seating has tilt and lengthwise adjustments.	
Dipperstick	65" (1.7 m)
Steel tracks with bolt on grouser plates	
FOPS skylight guard	
Cab mounted working floodlights (front and rear)	
Boom-mounted working floodlight	
Yellow beacon	
Air suspension seat	
Quick-change adapter for hydraulic hammer	
Catalyst muffler	
Biodegradable hydraulic oil, ester-based, VI 68	
Immobilizer (anti-theft device)	
Air conditioning for cab	

Bucket Options		
Pin-on Style / Quick Coupler	Capacity cu. ft.	(Liters)
12" (300 mm) H.D. Bucket	2.5	70
16" (400 mm) H.D. Bucket	3.4	96
18" (450 mm) H.D. Bucket	4.2	119
24" (600 mm) H.D. Bucket	6.0	170
30" (760 mm) H.D. Bucket	8.1	230
42" (1,066 mm) Ditch-cleaning Bucket	7.6	215
24" (600 mm) Tilt-Bucket (45 degree rotation)	4.0	113
36" (900 mm) Tilt-Bucket (45 degree rotation)	6.2	175

Hydraulic Hammer
Sound insulated. Tools: Moil point or chisel point

Further attachments available on request.



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