

Compact Crawler Excavator

OPERATING WEIGHT	10,320 – 10,920 lbs (4,680 – 4,950 kg)
NET ENGINE POWER	47 hp (34.6 kW)
MAX DIG DEPTH	12' 10" (3.9 m)
MAX REACH	20' 4" (6.2 m)



COMPACT CRAWLER EXCAVATOR
TC48

Operating Data, Standard Equipment

Operating weight (rubber crawlers)	10,320 lbs (4,680 kg)
Operating weight (steel crawlers)	10,920 lbs (4,950 kg)
Overall length (travel position)	12' 0" (3.7 m)
Overall height (travel position)	12' 8" (3.9 m)
Total length (trailer transport position)	18' 2" (5.5 m)
Total height (top of cab)	8' 6" (2.6 m)
Total width (uppercarriage / undercarriage)	5' 3" / 6' 1" (1.6 / 1.9 m)
Uppercarriage tailswing	4' 8" (1.5 m)
Working envelope (180° / 360°)	10' 5" / 11' 4" (3.2 / 3.5 m)
Ground clearance	14" (360 mm)
Bucket digging force (SAE J 1179)*	6,885 lbs (30,600 N)
Stick digging force (SAE J 1179)*	5,940 lbs (26,400 N)
Ground pressure (rubber crawlers)	3.7 psi (0.26 daN/cm ²)
Ground pressure (steel crawlers)	3.8 psi (0.27 daN/cm ²)

*Standard equipment, may vary with different bucket and/or dipperstick.



Specifications

Engine

Manufacturer, model	Mitsubishi, S4 Q2-61 KL
Type	4-cylinder diesel engine
Combustion	4-stroke, swirl chamber injection
Net power rating at 2,200 rpm (SAE J 1349)	47 hp (34.6 kW)
Displacement	152 in ³ (2.5 L)
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.	
Brake valve for downhill drive. Travel speeds (forward and reverse): 1st speed range/2nd speed range 0-1.8/0-3.1 mph (0-2.9/0-5.0 km/h)	
Gradeability	60%
Drawbar pull, 1st / 2nd speed range	9,450/5,288 lbs (4,200/2,350 daN)
Travel motion alarm (acoustic signal) as standard fitting.	
"Straight Travel function" standard.	

Undercarriage

Maintenance-friendly crawler-type undercarriage. Idler suspension with hydraulic crawler tensioning.	
Rubber crawlers / steel crawlers	16" / 16" (400 / 400 mm)
Tread width	4' 8" (1.5 m)
Total length (sprocket - idler)	6' 3" (1.9 m)
Total length (undercarriage)	8' 0" (2.4 m)

Dozer Blade

Independent of drive train, sensitive control via hand lever.	
Width x height	73" x 16" (1860 x 400 mm)
Cut below ground	12" (307 mm)
Cut above ground	16" (402 mm)
Slope angle	35°
Slope balance	7.6°

Steering

Independent control of tracks via hand controls or foot pedals.	
Foot rests, left and right, on pedal console. During high gear maneuvers, there is an automatic down-shift 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	0 - 9.3 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: Tandem-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. Simultaneous independent control of all 3 movements.

Maximum working pressure	3,552 psi (245 bar)
Pump capacity	15+15+9.8+2.1 gpm (57+57+37+8 Lpm)

Tank-immersed return filter with electric contamination indicator, full flow filtration. Hydraulic oil radiator provided as standard. Boom, dipperstick and articulated cylinders with end-position damping on both sides, bucket retract function with one-side end-position damping. Two-way auxiliary control circuit for work attachments (e.g. clamshell grab, swing bucket, rock breaker) provided as standard.

Auxiliary hydraulics:

Maximum working pressure	3,045 psi (210 bar)
Flow	15 gpm (57 Lpm)

Additional two-way auxiliary circuit is available through a switch-over on the bucket circuit. Open (pressureless) returns as standard. All functions can be activated proportionally. Two servo-assisted joystick controls for excavator operations. Shut-off of all working functions when dismounting the machine.

A/B control pattern switch standard.

Knickmatik®

Lateral parallel adjustment of boom arrangement at full digging depth.	
Angle of artic./ lateral adjustment left	75°/ 20" (75°/ 515 mm)
Angle of artic./ lateral adjustment right	55°/ 28" (55°/ 705 mm)

Cab

Spacious, sound-insulated full-vision steel cab with two equally large doors. TOPS certified. Safety glass windows. Thermo windows tinted in green. Skylight thermo window. Front window supported by pneumatic springs, lockable in place for ventilation and slideable under cab roof. Windshield washer. Glove box. Instrument panel on the right side of the operator's seat with visual and acoustic warning device. Left-hand outside rear-view mirror. Cab heating with windshield defroster through coolant heat exchanger and 2-setting fan and ventilating mode in summer. Fabric-covered, hydraulically cushioned operator's seat with height-adjustable armrests, height, tilt and weight adjustments and lap belt.

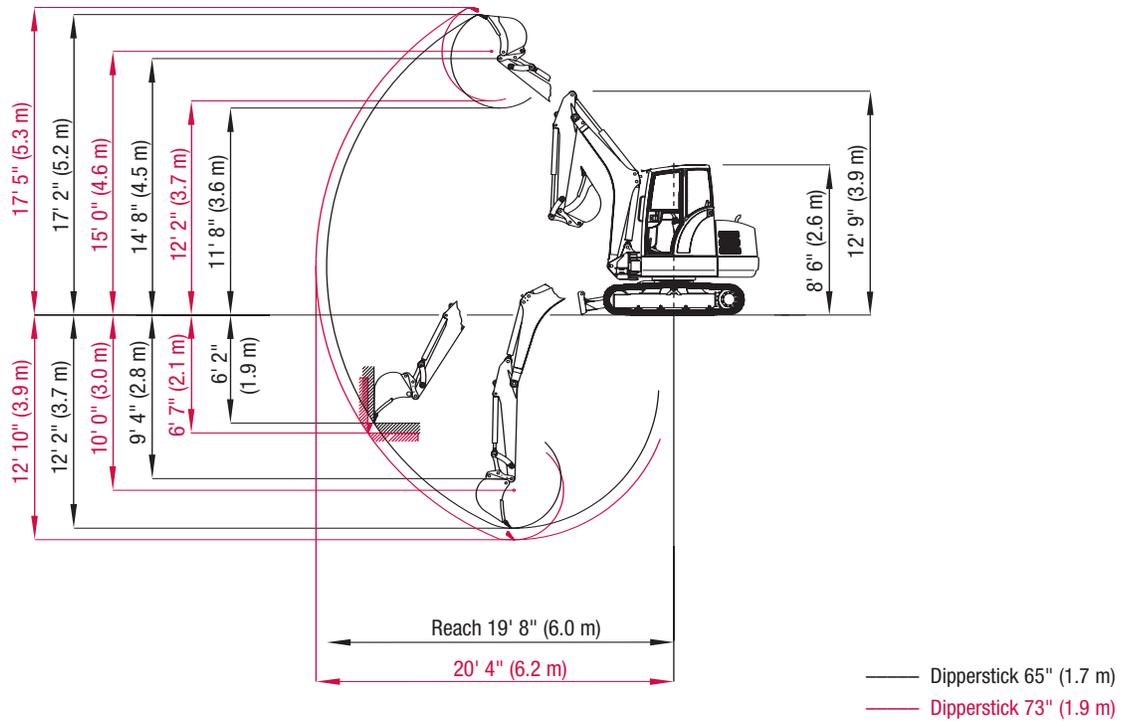
Working floodlight Halogen H-3.

Noise emission ambience LWA / Noise emission cab LpA	97/74 dB (A)
Measured in dynamic measuring cycle (EEC-directive 86/662).	

Fluid Capacities

Fuel tank	15.9 gal (60 L)
Hydraulic system (tank 19 gal / 72 L)	27 gal (102 L)

Working Ranges & Dimensions



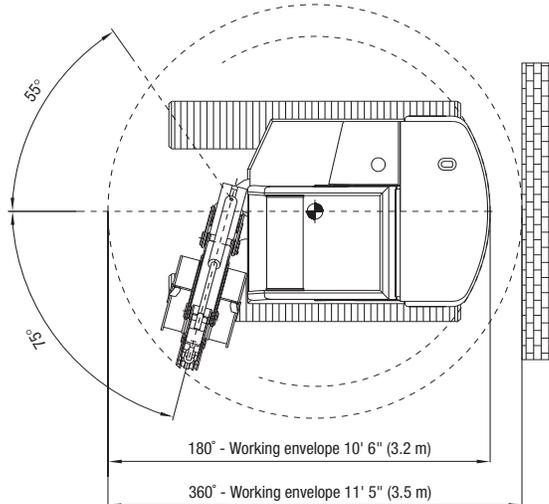
Lifting Capacities: 65" (1.7 m) Dipperstick

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)		11' 6" (3.5 m)		13' 1" (4.0 m)		14' 9" (4.5 m)		16' 5" (5.0 m)		
	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	
9' 10" (3.0 m)													
Supported by blade	-	-	-	-	2.77 (1.26)	2.09 (0.95)	2.77 (1.26)	1.65 (0.75)	2.64 (1.20)	1.36 (0.62)	-	-	
Traveling	-	-	-	-	1.76 (0.80)	2.02 (0.92)	1.30 (0.59)	1.61 (0.73)	1.12 (0.51)	1.30 (0.59)	-	-	
6' 7" (2.0 m)	4.18 (1.90)	3.92 (1.78)	3.76 (1.71)	2.51 (1.14)	3.32 (1.51)	2.02 (0.92)	2.99 (1.36)	1.56 (0.71)	2.66 (1.21)	1.36 (0.62)	2.37 (1.08)	1.12 (0.51)	
Traveling	2.07 (0.94)	3.23 (1.47)	2.00 (0.91)	2.44 (1.11)	1.50 (0.68)	1.91 (0.87)	1.36 (0.62)	1.50 (0.68)	1.23 (0.56)	1.30 (0.59)	0.99 (0.45)	1.10 (0.50)	
3' 3" (1.0 m)	6.75 (3.07)	2.97 (1.35)	4.99 (2.27)	2.38 (1.08)	3.96 (1.80)	1.89 (0.86)	3.30 (1.50)	1.56 (0.71)	2.79 (1.27)	1.28 (0.58)	2.42 (1.10)	1.14 (0.52)	
Traveling	2.82 (1.28)	2.90 (1.32)	2.11 (0.96)	2.29 (1.04)	1.58 (0.72)	1.83 (0.83)	1.39 (0.63)	1.50 (0.68)	1.10 (0.50)	1.23 (0.56)	1.01 (0.46)	1.12 (0.51)	
0	6.05 (2.75)	2.88 (1.31)	4.71 (2.14)	2.16 (0.98)	3.81 (1.73)	1.76 (0.80)	3.19 (1.45)	1.47 (0.67)	2.73 (1.24)	1.23 (0.56)	2.07 (0.94)	1.12 (0.51)	
Traveling	2.31 (1.05)	2.75 (1.25)	1.80 (0.82)	2.09 (0.95)	1.41 (0.64)	1.69 (0.77)	1.30 (0.59)	1.43 (0.65)	1.19 (0.54)	1.19 (0.54)	0.92 (0.42)	1.10 (0.50)	
-3' 3" (-1.0 m)	4.71 (2.14)	2.88 (1.31)	4.11 (1.87)	2.29 (1.04)	3.32 (1.51)	1.76 (0.80)	2.66 (1.21)	1.43 (0.65)	2.22 (1.01)	1.25 (0.57)	-	-	
Traveling	2.24 (1.02)	2.82 (1.28)	1.65 (0.75)	2.16 (0.98)	1.32 (0.60)	1.72 (0.78)	1.14 (0.52)	1.41 (0.64)	0.99 (0.45)	1.19 (0.54)	-	-	

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. 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. Work equipment: Rubber crawlers, dipperstick 65" (1.7 m).

Compact Crawler Excavator TC48

Working Envelope / Top View



Work equipment: 65" (1.7 m) dipperstick

Attachments / Accessories

Optional Accessories	
Mechanical quick-coupler system for work tools (QMH)	
Luxury height-adjustable operator's seat with extra-high back rest progressively adjustable to operator's weight. Seating has tilt and lengthwise adjustment.	
Dipperstick	73" (1.9 m)
Cab-mounted working floodlight (front and rear)	
Boom-mounted working floodlight	
Yellow beacon	
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	
Immobilizer (anti-theft device)	

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
36" (900 mm) H.D. Bucket	10.1	286
48" (1,220 mm) Ditch-cleaning Bucket	8.8	250
54" (1,370 mm) Ditch-cleaning Bucket	11.7	331
60" (1,525 mm) Ditch-cleaning Bucket	13.2	374
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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