

Zero Tail Swing Compact Crawler Excavator

OPERATING WEIGHT	8,047 lbs (3,650 kg)
NET ENGINE POWER	32.5 hp (23.8 kW)
MAX DIG DEPTH	11' 1" (3.38 m)
MAX REACH	18' 6" (5.67 m)



COMPACT CRAWLER EXCAVATOR
TC37

Operating Data, Standard Equipment

Operating weight (rubber crawlers)	8,047 lbs (3,650 kg)
Operating weight (steel crawlers)	8,326 lbs (3,776 kg)
Overall length (travel position)	10' 5" (3.2 m)
Overall length (trailer transport position)	15' 6" (4.7 m)
Total height (travel position)	10' 2" (3.4 m)
Total height (top of cab)	8' 2" (2.5 m)
Total width	5' 8" (1.8 m)
Uppercarriage tailswing	2' 10" (0.9 m)
Undercarriage frontswing	6' 1" (1.9 m)
Working envelope (180°/ 360°)	9' 1" / 12' 2" (2.8 / 3.7 m)
Ground clearance	12" (300 mm)
Bucket force (SAE J 1179)*	5,535 lbs (24,600 N)
Stick force (SAE J 1179)*	3,645 lbs (16,200 N)
Ground pressure (rubber crawlers)	4.1 psi (0.29 daN/cm ²)
Ground pressure (steel crawlers)	4.2 psi (0.30 daN/cm ²)

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

Specifications

Engine	
Manufacturer, model	Mitsubishi, S4L2
Type	4-cylinder diesel engine, Tier II
Combustion	4-stroke cycle, swirl chamber injection
Net power rating at 2,100 rpm (SAE J1349)	32.5 hp (23.8 kW)
Torque at 1,500 rpm	77 lb (105 Nm)
Displacement	105 in ³ (1.76 m ³)
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. Brake valve.	
Travel speed, forward/reverse	0 - 1.7/2.9 mph (0 - 2.7/4.6 km/h)
Gradeability	60%
Drawbar pull (low speed/high speed)	6,975/3,600 lbs (3,100/1,600 daN)
Travel motion alarm (acoustic signal) as standard.	

Undercarriage	
Maintenance-friendly crawler-type undercarriage. Idler suspension with hydraulic crawler tensioning.	
Rubber crawlers / steel crawlers	12" (300 mm)
Total length (sprocket-idler)	5' 6" (1.7 m)
Total length (undercarriage)	7' 1" (2.2 m)

Dozer Blade	
Independent of drive train, sensitive control via hand lever.	
Width x height	69" x 14" (1,760 x 360 mm)
Cut below ground	12" (298 mm)
Lift above ground	18" (447 mm) Slope angle 35°

Steering	
Independent control of tracks via hand controls or foot pedals.	

Swing System	
Hydrostatic drive with axial piston motor and reduction gear. Additional uppercarriage holding brake engaged with the engine switched off and by operating the multi-function lever (push-button). Internally toothed ring gear.	
Swing speed	0 - 10 rpm
Swing brake: The hydrostatic swing drive acts as a low-wear swing brake. Additional spring-loaded multi-disc brake automatically acting when the swing control lever is in neutral position.	



Hydraulic System

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

Maximum working pressure	3,625 psi (250 bar)
Variable pump capacity	25 gpm (95 Lpm)

Boom, dipperstick and articulated cylinders with end-position damping on both sides, bucket retract function with one-side end-position damping. Additional control circuit for work attachments provided as standard.

Auxiliary hydraulics:

Maximum working pressure	3,045 psi (210 bar)
Hydraulic power	12 gpm (45 Lpm) at 2,755 psi (190 bar) 11 gpm (40 Lpm) at 3,045 psi (210 bar)

Open return as standard. All functions can be activated proportionally. Two servo-assisted four-way control levers for excavator operations. Operator activated shut-off when leaving cab.

Knickmatik®

Boom offset to provide lateral parallel adjustment at full digging depth.	
Angle of artic./ lateral adjustment left	50°/ 26" (50°/ 660 mm)
Angle of artic./ lateral adjustment right	70°/ 29" (70°/ 740 mm)

Cab (Optional)

Spacious, full-vision steel cab (free spaces in compliance with EN 23411). TOPS certified. Safety glass windows, thermo windows tinted in green. Skylight thermo window. Panoramic rear window. Front window supported by pneumatic springs, lockable for ventilation and slideable under cab roof. Windshield washer system. Storage box. Instrument panel to the right of the driver's seat with visual and acoustic warning device. Left-hand outside rearview 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 height-adjustable armrests, height, tilt and weight adjustments, lap belt.

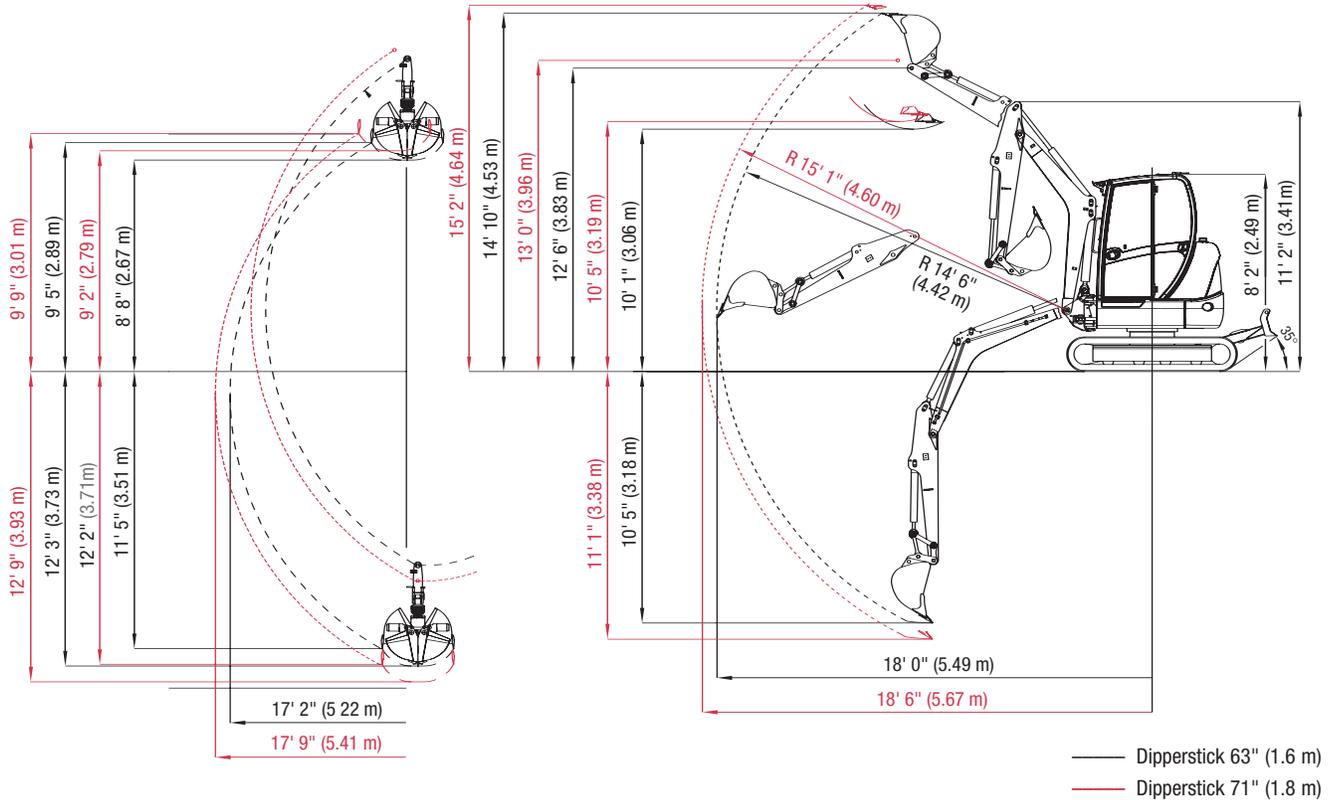
Working floodlight Halogen H-3.

Noise emission ambience LWA	97 dB (A)
Noise emission cab LpA	80 dB (A)

Fluid Capacities

Fuel tank	17 gal (65 L)
Hydraulic system (including tank)	18 gal (70 L)

Working Ranges & Dimensions



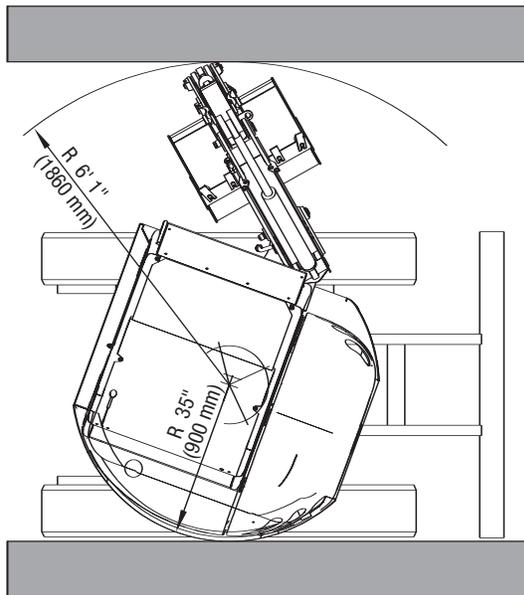
Lifting Capacities: 63" (1.6 m) Dipperstick

Unit: x 1,000 lbs (Metric tons)	Load radius from the center of the ring gear									
	8' 2" (2.5 m)		9' 10" (3.0 m)		11' 5" (3.5 m)		13' 1" (4.0 m)		16' 5" (5.0 m)	
Bucket hinge pin height	End	Side	End	Side	End	Side	End	Side	End	Side
6' 7" (2.0 m)										
Supported by blade	—	—	2.53 (1.15)	1.76 (0.80)	2.13 (0.97)	1.41 (0.64)	2.05 (0.93)	1.10 (0.50)	1.89 (0.86)	0.81 (0.37)
Traveling	—	—	2.16 (0.98)	1.74 (0.79)	1.72 (0.78)	1.36 (0.62)	1.36 (0.62)	1.06 (0.48)	1.12 (0.51)	0.86 (0.39)
3' 3" (1.0 m)										
Supported by blade	4.20 (1.91)	2.31 (1.05)	3.17 (1.44)	1.72 (0.78)	2.64 (1.20)	1.34 (0.61)	2.27 (1.03)	1.06 (0.48)	1.91 (0.87)	0.88 (0.40)
Traveling	4.07 (1.85)	2.24 (1.02)	2.05 (0.93)	1.67 (0.76)	1.63 (0.74)	1.30 (0.59)	1.32 (0.60)	1.03 (0.47)	1.10 (0.50)	0.86 (0.39)
0										
Supported by blade	4.49 (2.04)	2.09 (0.95)	3.54 (1.61)	1.56 (0.71)	2.68 (1.22)	1.23 (0.56)	2.16 (0.98)	1.01 (0.46)	1.76 (0.80)	0.8 (0.38)
Traveling	4.40 (2.00)	2.02 (0.92)	1.89 (0.86)	1.54 (0.70)	1.50 (0.68)	1.21 (0.55)	1.25 (0.57)	0.99 (0.45)	1.08 (0.49)	0.81 (0.37)

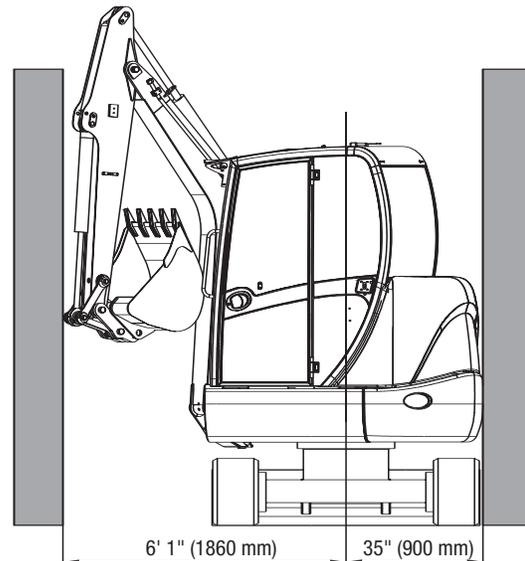
All values in lbs x 1,000 resp. metric tons, were determined in compliance with ISO 10567 and include a stability factor of 1.33 or 87% of the hydraulic lifting capacity. All values were determined with quick-attach system but without bucket. In case of mounted-on work attachments, the deadweights of the work attachments must be deducted from the permissible payloads.
 Work equipment: rubber crawlers.

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Working Envelope / Top View



Work equipment: 63" (1.6 m) dipperstick



Attachments / Accessories

Optional Accessories

Mechanical quick-coupler system for work tools (QMH)
Enclosed cab
Luxury driver's seat, height-adjustable, extra-high back rest, progressively adjustable to driver's weight, seating with tilt and lengthwise adjustments.
Dipperstick 71" (1.8 m)
Cab-mounted working floodlight (front and rear)
Boom-mounted working floodlight
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)
10" (250 mm) H.D. Bucket	1.4	40
12" (300 mm) H.D. Bucket	1.6	45
16" (400 mm) H.D. Bucket	2.5	70
18" (450 mm) H.D. Bucket	2.8	80
20" (500 mm) H.D. Bucket	3.4	96
24" (600 mm) H.D. Bucket	4.0	113
36" (900 mm) Ditch-cleaning Bucket	6.4	181

Hydraulic Hammer

Sound-insulated. Tools: Moil point and chisel



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