



TEREX

HR14

Compact Crawler Excavator

OPERATING WEIGHT	6,285 – 6,480 lbs (2,850 – 2,940 kg)
NET ENGINE POWER	28 hp (20.5 kW)
MAX DIG DEPTH	9' 7" (2.9 m)
MAX REACH	16' 4" (4.99 m)



COMPACT CRAWLER EXCAVATOR
HR14

Operating Data, Standard Equipment

Operating weight (rubber crawlers)	6,285 lbs (2,850 kg)
Operating weight (steel crawlers)	6,480 lbs (2,940 kg)
Total length (travel position)	10' 2" (3.1 m)
Total length (trailer transport position)	15' 5" (4.7 m)
Total height (travel position)	9' 8" (2.9 m)
Total height (top of cab)	8' 2" (2.5 m)
Total width (uppercarriage)	4' 5" (1.4 m)
Total width (undercarriage)	4' 6" (1.4 m)
Uppercarriage tailswing	4' 3" (1.3 m)
Working envelope (180° / 360°)	9' 2" / 10' 0" (2.8 / 3.1 m)
Ground clearance	11" (270 mm)
Bucket digging force (SAE J 1179)*	4,795 lbs (21,300 N)
Stick digging force (SAE J 1179)*	3,060 lbs (13,600 N)
Ground pressure (rubber crawlers)	3.8 psi (0.27 daN/cm ²)
Ground pressure (steel crawlers)	3.9 psi (0.28 daN/cm ²)

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

Specifications

Engine	
Manufacturer, model	Mitsubishi, S 4L
Type	4-cylinder diesel engine
Combustion	4-stroke, swirl chamber injection
Net power rating at 2,200 rpm (SAE J 1349)	28 hp (20.5 kW)
Displacement	91 in ³ (1.5 L)
Cooling system	Water

Electrical System	
Nominal voltage	12 V
Battery	12 V / 72 Ah

Power Transmission	
Two-stage hydrostatic travel drive with axial piston variable displacement motor and reduction gear (fully enclosed). Brake valve for downhill drive.	
Travel speeds, forward and reverse	0-1.7 / 2.9 mph (0-2.7 / 4.6 km/h)
Gradeability	60%
Drawbar pull, 1st speed range	6,300 lbs (2,800 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"/12" (300 / 300 mm)
Tread width	3' 6" (1.1 m)
Total length (sprocket - idler)	4' 6" (1.4 m)
Total length (undercarriage)	6' 0" (1.8 m)

Dozer Blade	
Dozer blade available in "standard" and "extra-long" version (referring to distance crawler - dozer blade), independent of drive train, and sensitive control via hand lever.	
Width x height	56" x 13" (1,410 x 330 mm)
Cut below ground (standard/extra-long)	11"/12" (285 / 296 mm)
Lift above ground (standard/extra-long)	8"/16" (206 / 406 mm)
Slope angle (standard/extra-long)	22° / 28°
Slope balance (standard/extra-long)	9.2° / 8.1°

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

Swing System	
Hydrostatic drive. Internally toothed ring gear.	
Swing speed	0 - 10 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.	



Quick Attach	
Mechanical quick attach for easy and fast exchange of attachments as standard.	

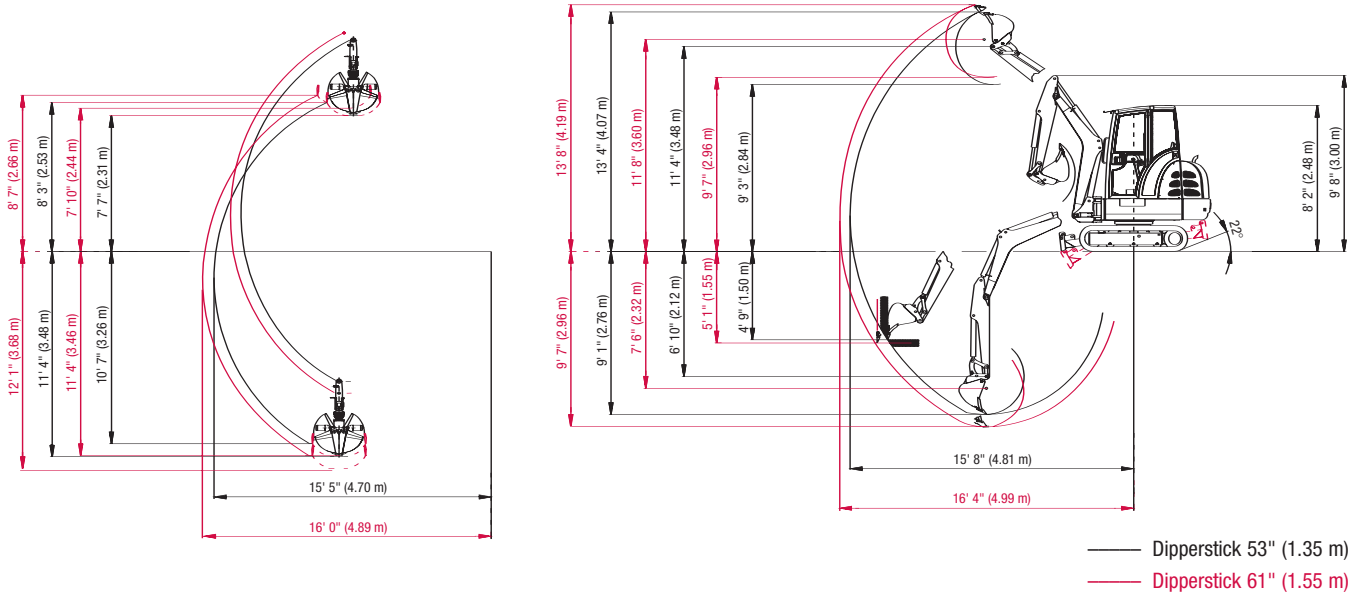
Hydraulic System	
LS-axial-piston variable displacement pump, load-sensing and load-independent flow division (LUDV) for all work functions and travel drive, 3 simultaneous movements possible.	
Working pressure	3,050 psi (210 bar)
Variable pump capacity maximum	26 gpm (99 Lpm)
Return line filter with electric contamination indicator. Compact 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.	
Additional control circuit for work attachments provided as standard.	
Maximum working pressure	3,050 psi (210 bar)
Hydraulic power	11 gpm (40 Lpm) @ 1,750 psi (120 bar) 9 gpm (33 Lpm) @ 2,600 psi (180 bar)
Open return as standard. All functions can be activated proportionally. Two servo-assisted four-way control levers for excavator operations. Safety cut-off of all functions as soon as driver leaves cab.	

Knickmatik®	
Lateral parallel adjustment of boom arrangement at full digging depth.	
Angle of artic./ lateral adjustment left	60°/ 18" (60°/ 445 mm)
Angle of artic./ lateral adjustment right	60°/ 23" (60°/ 595 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 / 79 dB (A)	

Fluid Capacities	
Fuel tank	13.7 gal (52 L)
Hydraulic system	22.5 gal (85 L)

Working Ranges & Dimensions: Monobloc Boom



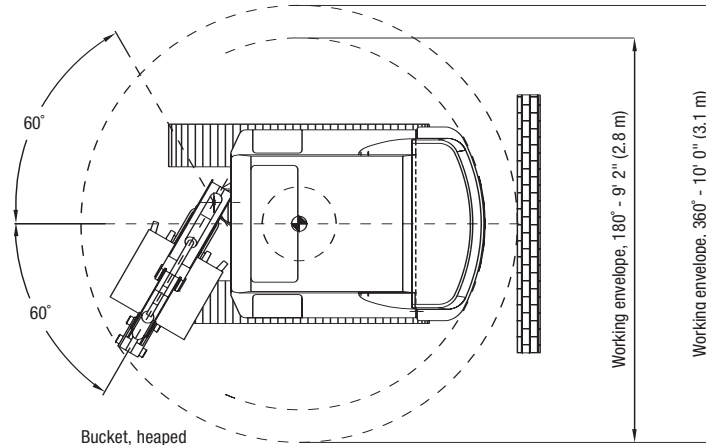
Lifting Capacities: 53" (1.35 m) Dipperstick

Unit: x 1,000 lbs (Metric tons)	Load radius from the center of the ring gear									
	6' 7" (2.0 m)		8' 2" (2.5 m)		9' 10" (3.0 m)		11' 6" (3.5 m)		13' 1" (4.0 m)	
Bucket hinge pin height	End	Side	End	Side	End	Side	End	Side	End	Side
6' 7" (2.0 m)										
Supported by blade	—	—	1.83 (0.83)	1.50 (0.68)	1.72 (0.78)	1.19(0.54)	1.45 (0.66)	0.86 (0.39)	—	—
Traveling	—	—	1.50 (0.68)	1.45 (0.66)	1.17 (0.53)	1.17 (0.53)	0.84 (0.38)	0.84 (0.38)	—	—
3' 3" (1.0 m)										
Supported by blade	3.10 (1.41)	2.07 (0.94)	2.29 (1.04)	1.47 (0.67)	2.00 (0.91)	1.12 (0.51)	1.69 (0.77)	0.84 (0.38)	1.19 (0.54)	0.70 (0.32)
Traveling	1.87 (0.85)	2.05 (0.93)	1.47 (0.67)	1.45 (0.66)	0.99 (0.45)	1.08 (0.49)	0.79 (0.36)	0.81 (0.37)	0.66 (0.30)	0.68 (0.31)
0										
Supported by blade	2.97 (1.35)	1.78 (0.81)	2.16 (0.98)	1.28 (0.58)	1.65 (0.75)	1.06 (0.48)	1.36 (0.62)	0.81 (0.37)	1.14 (0.52)	0.70 (0.32)
Traveling	1.67 (0.76)	1.72 (0.78)	1.23 (0.56)	1.25 (0.57)	0.99 (0.45)	1.01 (0.46)	0.77 (0.35)	0.79 (0.36)	0.64 (0.29)	0.66 (0.30)
-3' 3" (-1.0 m)										
Supported by blade	2.29 (1.04)	1.94 (0.88)	1.87 (0.85)	1.14 (0.52)	1.50 (0.68)	1.01 (0.46)	0.99 (0.45)	0.81 (0.37)	—	—
Traveling	1.65 (0.75)	1.80 (0.82)	1.10 (0.50)	1.12 (0.51)	0.95 (0.43)	0.99 (0.45)	0.77 (0.35)	0.79 (0.36)	—	—

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 53" (1.35 m).

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Working Envelope / Top View



Work equipment: Monobloc boom
with dipperstick 53" (1.3 m)

Optional Attachments / Accessories

Optional Accessories	
Luxury height-adjustable operator's seat with extra-high back rest progressively adjustable to operator's weight. Seating has tilt and lengthwise adjustment.	
Dipperstick	61" (1.6 m)
Cab-mounted working floodlight (front and rear)	
Boom-mounted working floodlight	
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)	

Optional Buckets		
	Width	Capacity
Bucket (QAS)	12" (300 mm)	1.40 ft ³ (40 L)
Bucket (QAS)	16" (400 mm)	1.96 ft ³ (56 L)
Bucket (QAS)	20" (500 mm)	2.56 ft ³ (73 L)
Bucket (QAS)	24" (600 mm)	3.12 ft ³ (89 L)
Ditch-cleaning bucket (QAS)	39" (1,000 mm)	3.90 ft ³ (110 L)
Swing bucket, 2 x 45° (QAS)	39" (1,000 mm)	3.36 ft ³ (96 L)

Clamshell Grabs		
	Width	Capacity
Type GL 1250 (QAS), grab swing brake	10" (250 mm)	1.6 ft ³ (45 L)
Type GL 1350 (QAS), grab swing brake	14" (350 mm)	2.0 ft ³ (65 L)
Type GL 1450 (QAS), grab swing brake	18" (450 mm)	3.0 ft ³ (85 L)
Type GL 1600 (QAS), grab swing brake	24" (600 mm)	4.1 ft ³ (115 L)

Hydraulic Hammer	
Sound-insulated. Tools: Moil point and chisel	



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