

Power and state-ofthe-art engineering

HR 14 Mini Excavator

Operating weight 2.85 t Engine output 20.5 kW (28 HP) Bucket capacities 40-110 I





Engine

Manufacturer	Mitsubishi
Туре	4-cylinder diesel engine, EPA
Combustion	4-stroke, swirl chamber type
Power rating acc. to ISO 9	249 (DIN 70 020)
at 2200 rpm	20.5 kW (28 HP)
Displacement	1500 cm 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. "Straight Travel" function. Brake valve for downhill drive.

Travel speeds, forward and reverse	0-2.7 / 0-4.6 km/h
Max. gradability	60 %
Drawbar pull, 1 st / 2 nd speed range	2600 / 1100 daN

Crawler gear

Maintenance-free crawler-type undercarriage. Idler suspension with hydraulic crawler tensioning.

Width rubber crawlers / steel crawlers	300 mm
Tread width	1100 mm
Total length (sprocket - idler)	1390 mm
Total length (undercarriage)	1830 mm

Dozer blade

Dozer blade available in "standard" and "extra-long" version (referring to distance crawler - dozer blade), independent of drive train, sensitive control via hand lever.

Width x height ("standard" / "extra-long	") 1410 x 325 mm
Dozer cut below ground	285 mm / 296 mm
Dozer cut above ground	206 mm / 406 mm
Slope angle	22 deg. / 28 deg.
Slope balance	9.2 deg. / 8.1 deg.

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. 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

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	210 bar
Variable pump capacity max.	99 l/min
Return line filter with electric contamination indi	cator. Com-
pact hydraulic oil radiator provided as standard.	Boom, dip-

perstick 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.

Max. working pressure	210 bar
Hydraulic power	40 l/min @ 120 bar
	33 l/min @ 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.

Operating data, standard equipment

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Operating weight (rubber / steel crawle	er) 2850 / 2940 kg
Total length, travel position	3100 mm
Total length (trailer transport position)	4700 mm
Total height, travel position	3000 mm
Total height up to top edge of cab	2480 mm
Total width, uppercarriage	1360 mm
Total width, undercarriage	1400 mm
Uppercarriage tailswing	1300 mm
Working envelope, 180° / 360°	2800 / 3050 mm
Ground clearance	270 mm
Breakout force acc. to DIN 24086	21,300 N
Ripping force acc. to DIN 24086	13,600 (11,900*) N
Specific ground pressure (rubber)	0.27 daN/cm ²
Specific ground pressure (steel)	0.28 daN/cm ²

Knickmatik®

Lateral parallel adjustment of boom arrangement at full digging depth.

Angle of articulation / Lat. adj. to the left 60° / 445 mmAngle of articulation / Lat. adj. to the right 60° / 595 mm

Cab

Spacious, sound-insulated full-vision steel cab (free spaces acc. to EN 23411). ROPS (acc. to ISO 3471), FOPS** (acc. to ISO 3449) and TOPS (acc. to ISO 12117) certified, with two equally large doors. Safety glass windows, thermo windows tinted in green. Skylight thermo window. Front window supported by pneumatic springs, lockable in place for ventilation and slidable 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, ventilating mode in summer. Fabric-covered, hydraulically cushioned operator's seat with height-adjustable armrests, height, tilt and weight adjustments, lap belt. Working floodlight Halogen H-3. Noise emission ambience L^{WA} 97 dB (A) Noise emission cab L_{pA} 80 dB (A) Measured in dynamic measuring cycle acc. to EEC-directive 2000/14/EG.

Fluid capacities

ruertank	5Z I
Hydraulic system (includes tank)	85 I

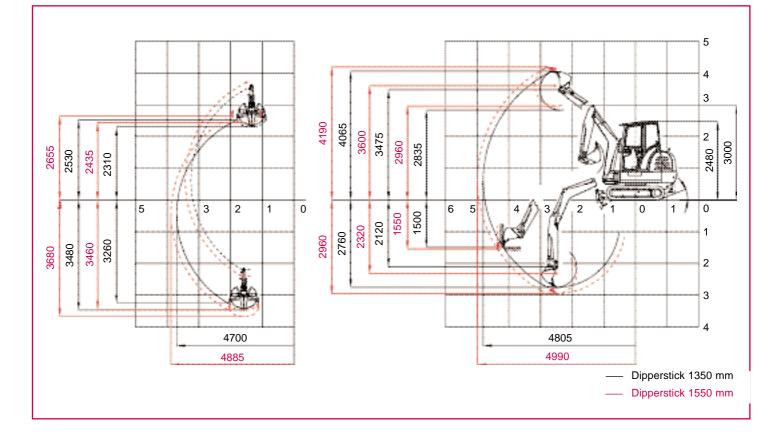
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* with dipperstick 1550 mm (optional)

** FOPS-approved only with skylight guard (optional)

Digging envelope

HR 14 Monobloc boom



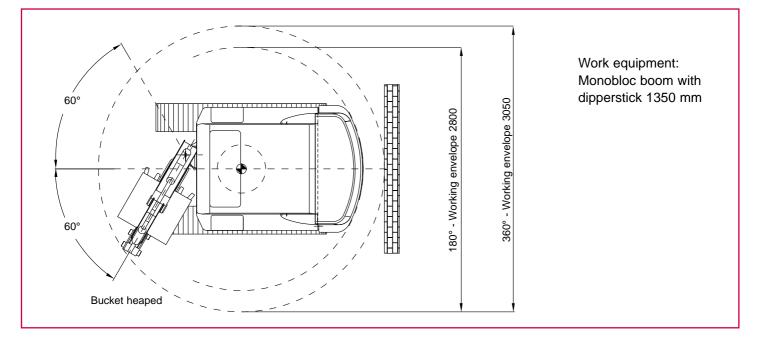
Carrying capacity

				Load	radius fr	om the	center o	of the rin	g gear		
Bucket hinge pin height Dipperstick 1350 mm		2.0 m	2.0 m		2.5 m		3.0 m		3.5 m		ı
		180°	90°	180°	90°	180°	90°	180°	90°	180°	90°
2.0 m	Supported by blade	-	-	0.83	0.68	0.78	0.54	0.66	0.39	-	-
	Traveling	-	-	0.68	0.66	0.53	0.53	0.38	0.38	-	-
1.0 m	Supported by blade	1.41	0.94	1.04	0.67	0.91	0.51	0.77	0.38	0.54	0.32
	Traveling	0.85	0.93	0.67	0.66	0.45	0.49	0.36	0.37	0.30	0.31
0 m	Supported by blade	1.35	0.81	0.98	0.58	0.75	0.48	0.62	0.37	0.52	0.32
	Traveling	0.76	0.78	0.56	0.57	0.45	0.46	0.35	0.36	0.29	0.30
- 1.0 m	Supported by blade	1.04	0.88	0.85	0.52	0.68	0.46	0.45	0.37	-	-
	Traveling	0.75	0.82	0.50	0.51	0.43	0.45	0.35	0.36	-	-

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.

Dimensions

HR 14 Top view / Working envelope



Additional equipment

Optional accessories

Mechanical quick-attach system for work tools (QAS) Canopy with working floodlight (weight reduction: 80 kg) Dipperstick 1550 mm

Luxury operator'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

Crane loading wire-rope harness

Track shoes with "Felasto" tiles

Quick-change adapter for hydraulic hammer

Travel motion alarm (acoustic signal)

Filling with biodegradable hydraulic oil, ester-based, VI 68 Immobilizer

Further accessories available on request

Buckets

Bucket (QAS)	300 mm / 40 l
Bucket (QAS)	400 mm / 56 l
Bucket (QAS)	500 mm / 73 l
Bucket (QAS)	600 mm / 89 l
Ditch-cleaning bucket (QAS)	1000 mm / 110 l
Swing bucket, 2 x 45 deg. (QAS)	1000 mm / 96 l

Clamshell grabs

Type GL 1250 (QAS), grab swing brake Type GL 1350 (QAS), grab swing brake Type GL 1450 (QAS), grab swing brake Type GL 1600 (QAS), grab swing brake

Further attachments available on request Subject to change without further notice

250 mm / 45 l 350 mm / 65 l 450 mm / 85 l 600 mm / 115 l

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