



# HR 32 Crawler Excavator

Power and state-of-  
the-art engineering

Operating weight 7-8 t  
Engine output 53 kW (72 HP)  
Bucket capacities 65-335 l



HR 32 - The machine illustrated may include non-standard equipment



# Technical data

## Engine

Manufacturer	Deutz KHD BF 4 M 1012 E
Type	4-cylinder, turbocharged diesel engine, EPA
Combustion	4-stroke, direct injection
Displacement	3200 cm <sup>3</sup>
Power rating acc. to ISO 9249 (DIN 70020) at 2000 rpm	53 kW (72 HP)
Cooling system	Water

## Electrical system

Nominal voltage	12 V
Battery	12 V / 105 Ah / 450 A

## Power transmission

Hydrostatic drive with reduction gear. Gear-integrated multi-disc brake acting as excavator and parking brake, automatically hydraulically bled; 2-stage variable displacement motor, full power shift.

2 speed ranges:

Travel speed forward / reverse	0-2.7 / 5.2 km/h
Gradability	> 60%
Drawbar pull	60.5 kN

## Dozer blade

Independent from drive train, sensitive control via hand lever, float position.

Width	2330 mm
Lift below ground	390 mm
Lift above ground	500 mm
Slope angle	35 deg.

## Undercarriage

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

Steel crawlers / rubber crawlers:

Width	450 mm
Total length (sprocket-idler)	2202 / 2247 mm
Total length	2850 mm

## Steering

Independent individual control of crawlers, also counter-wise. Sensitive servo-control via pilot-operated hand levers, combined with foot pedals.

## Swing system

Hydrostatic drive with 2-stage planetary gear and axial piston fixed displacement motor, also acting as low-maintenance brake. Additionally, an automatically controlled spring-loaded multi-disc brake acting as parking brake when the pilot control lever is in neutral position.

Swing speed	0-10 rpm
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## Hydraulic system

Working hydraulics: Axial piston pump with load-sensing, coupled with a load-independent flow division (LUDV). Simultaneous, independent control of all movements. Sensitive maneuvers irrespective of loads.

Max. pump capacity	142 l/min
Max. working pressure	280 bar

Dual gear pump for all positioning and swing movements. Pressure cut-off valve for sensitive and energy-saving swing movements.

Pump capacities	33+33 l/min
Max. working pressure	230 bar

Control circuit for work attachments:

Pump capacity, adjustable	adjustable
Working pressure	280 bar

Two servo-assisted four-way control levers for excavator operations.

## Operating data (with standard attachment)

Operating weight (monobloc boom) to ISO 6016	7500 kg
Operating weight (circular boom)	7900 kg
Undercarriage with steel crawlers	+ 250 kg
Overall length in travel position (monobloc boom)	4160 mm
Overall length in travel position (circular boom)	4170 mm
Transport dimensions:	
Monobloc boom (L x H)	6030 x 2720 mm
Circular boom (L x H)	6000 x 2720 mm
Overall height in travel position (monobloc boom)	4340 mm
Overall height in travel position (circular boom)	3920 mm
Total width with dozer blade	2330 mm
Height up to driver's cab	2720 mm
Tread width	1870 mm
Ground clearance	408 mm
Uppercarriage tailswing	1175 mm
Uppercarriage front swing (monobloc boom)	2300 mm
Uppercarriage front swing (circular boom)	1650 mm
Working envelope, 180°	3475 mm
Working envelope, 360°, (monobloc boom)	4600 mm
Working envelope, 360°, (circular boom)	3300 mm
Breakout force to DIN 24086 (monobloc boom)	53,200 N
Ripping force to DIN 24086 (monobloc boom)	42,600 N
Ripping force acc. to DIN 24086 (circular boom)	47,300 N
Specific ground pressure	0.31 daN/cm <sup>2</sup>

## Knickmatik®

Lateral parallel adjustment at full digging depth.

Angle of articulation / Lat. adj. to the left	63° / 815 mm
Angle of articulation / Lat. adj. to the right	65° / 950 mm

## Cab

Sound-insulated full-vision steel cab. Safety glass windows. Skylight. Cab heating through hot water heat exchanger with 3-setting fan and separate windshield defroster.

Hydraulically cushioned comfort seat with armrests; longitudinal, height and backrest adjustments. Operator control levers adjustable in longitudinal position. Instrument panel with safety module. Working floodlight Halogen H-3.

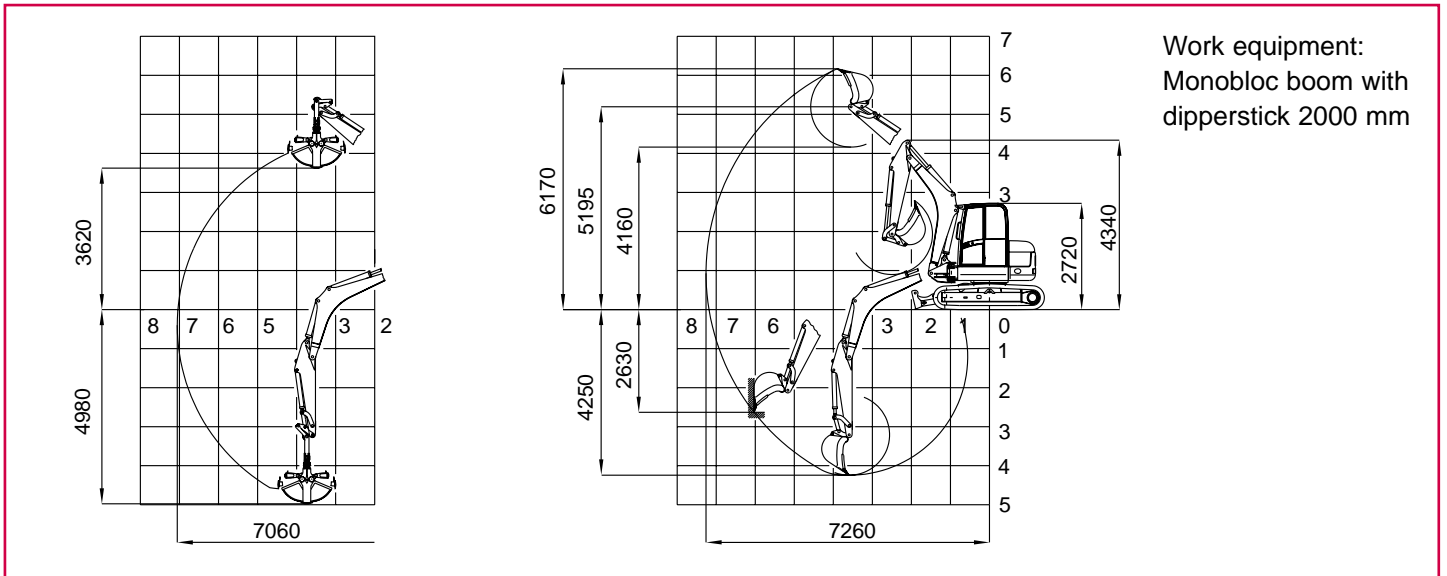
Noise emission ambient $L_{WA}$	97 dB (A)
Noise emission cab $L_{pA}$	74 dB (A)
Determined according to EEC-directive 86/662.	

## Fluid capacities

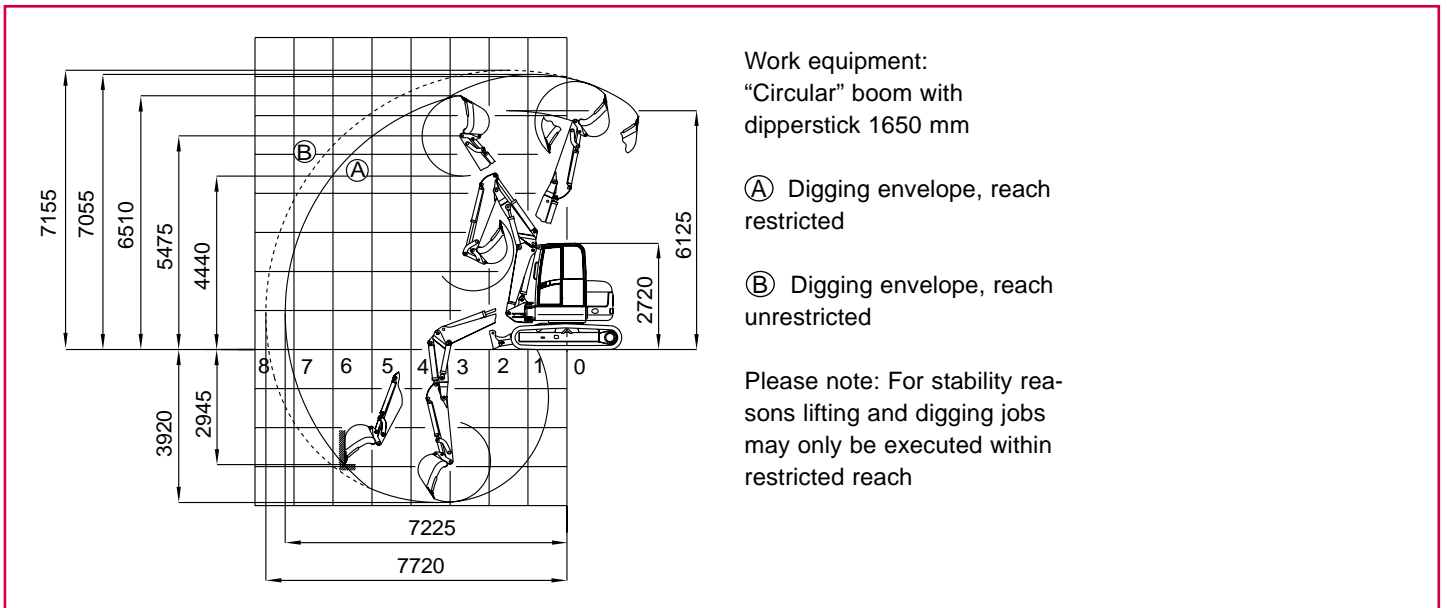
Fuel tank	130 l
Hydraulic system (incl. tank)	140 l

# Digging envelope

HR 32 Monobloc boom (All dimensions are based on undercarriage with rubber crawlers)

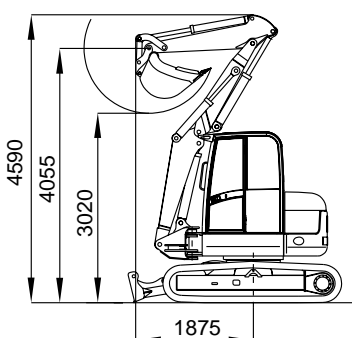


HR 32 "Circular" boom

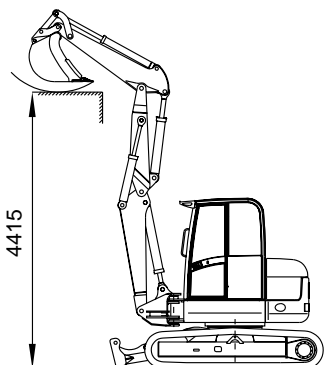


# Dimensions

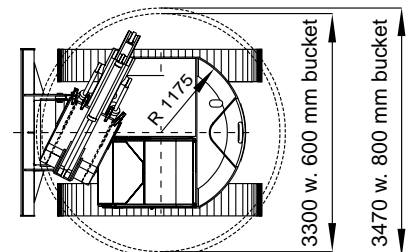
HR 32 "Circular" boom position



HR 32 "Circular" boom load-over height



HR 32 Top view circular boom



# Carrying capacity

## Load radius from the center of the ring gear

Bucket hinge pin height

		3.0 m				4.0 m				5.0 m				6.0 m			
		MB		CB		MB		CB		MB		CB		MB		CB	
		180°	90°	180°	90°	180°	90°	180°	90°	180°	90°	180°	90°	180°	90°	180°	90°
3.0 m	Supported by blade	–	–	–	–	2.52	1.53	2.40	1.61	1.96	1.00	2.10	1.04	–	–	–	–
	Traveling	–	–	–	–	1.65	1.50	2.04	1.55	1.13	0.99	1.33	0.99	–	–	–	–
1.5 m	Supported by blade	3.24	2.33	3.85	2.57	2.61	1.42	3.08	1.49	2.14	0.97	2.23	1.01	1.74	0.69	1.64	0.72
	Traveling	2.25	2.30	3.20	2.44	1.59	1.39	1.96	1.41	1.06	0.94	1.28	0.96	0.75	0.67	0.91	0.67
0 m	Supported by blade	5.30	1.80	5.23	2.07	3.18	1.28	2.92	1.27	2.26	0.90	2.03	0.92	1.65	0.68	1.37	0.68
	Traveling	2.20	1.80	2.67	1.96	1.41	1.23	1.61	1.20	0.99	0.87	1.14	0.87	0.73	0.65	0.83	0.64
– 1.0 m	Supported by blade	4.60	1.80	4.45	1.96	2.93	1.10	2.50	1.20	2.10	0.86	1.76	0.86	1.47	0.66	1.11	0.66
	Traveling	2.07	1.70	2.52	1.83	1.32	1.10	1.51	1.10	0.94	0.84	1.06	0.83	0.72	0.63	0.77	0.62

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. In each case, the smaller value is indicated. All values were determined with load hook. In the event of an attached bucket, the weight of the bucket 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 to EN 474-5. Working equipment: Rubber crawlers, monobloc boom, dipperstick 2000 mm; CB = Circular boom, dipperstick 1650 mm.

## Additional equipment

### Attachments (QAS)

Bucket, tapered	290 mm / 95 l
Bucket, tapered	350 mm / 115 l
Bucket, tapered	450 mm / 160 l
Bucket, with ejector	290 mm / 65 l
Bucket, with ejector	350 mm / 85 l
Bucket, with ejector	450 mm / 115 l
Bucket	600 mm / 240 l
Bucket	800 mm / 335 l
Cable-laying bucket	220 mm
Ditch-cleaning bucket	1250 mm / 150 l
Ditch-cleaning bucket	1500 mm / 270 l
Swing bucket, 2 x 40°	1250 mm / 200 l
Swing bucket, 2 x 40°	1250 mm / 260 l

### Clamshell grabs

GM 2325	325 mm / 135 l
GM 3400	400 mm / 170 l
GM 2500	500 mm / 220 l
GM 2600	600 mm / 260 l*

### Optional booms

Circular boom, dipperstick 1650 mm

### Crawler-type options

Steel crawlers, 450 mm wide

### Optional accessories

Additional control circuit for hydraulic hammer  
 Quick-change adapter for hydraulic hammer operation  
 Independent diesel heating with timer  
 Hose-rupture safety valves for intermediate boom/dipperstick  
 Electrical tank refueling pump  
 Filling with biodegradable hydraulic oil, ester-based VI 68  
 Air-cushioned driver's seat  
 Set of working floodlights (cab-mounted, front & rear)  
 Hydraulic boom height limitation

\* Attachments not permitted for every type of boom. Please inquire

Further attachments and accessories available on request  
 Subject to change without further notice