

Crawler Excavator

OPERATING WEIGHT	7.5 t
NET ENGINE POWER	54 kW (73 hp)
BUCKET CAPACITIES	65 - 335 l
MAX. DIG DEPTH	4.25 m
MAX. REACH	7.26 m



CRAWLER EXCAVATOR TC75

Operating Data, Standard Equipment

Operating weight (monobloc boom) acc. to ISO 6016	7500 kg
Operating weight (circular boom) acc. to ISO 6016	7900 kg
Undercarriage (steel crawlers)	+ 250 kg
Transport dimensions:	
Monobloc boom / Circular boom (L x H)	6030 x 2720 / 5900 x 2720 mm
Total width with dozer blade	2330 mm
Total height (top of cab)	2720 mm
Ground clearance	410 mm
Uppercarriage tailswing	1175 mm
Uppercarriage frontswing (monobloc boom / circular boom)	2300 / 1650 mm
Working envelope 180° (monobloc boom / circular boom)	3475 / 2775 mm
Working envelope 360° (monobloc boom / circular boom)	4600 / 3300 mm
Bucket digging force acc. to ISO 6015 (monobloc boom)	53,200 N
Stick digging force acc. to ISO 6015 (monobloc boom / circular boom)	42,600 (47,300) N
Ground pressure (rubber crawlers)	0.31 daN/cm ²
Ground pressure (steel crawlers)	0.32 daN/cm ²



Specifications

Engine

Manufacturer, model	Deutz, BF 4M 2011
Type	4-cylinder diesel engine, COM II/EPA II
Combustion	4-stroke cycle, direct fuel injection
Net power rating at 2200 rpm (ISO 9249)	54 kW (73 hp)
Displacement	3108 cm ³
Max. torque	270 Nm at 1600 rpm
Cooling system	Oil cooling

Electrical system

Nominal voltage	12 Va
Battery	12 V / 105 Ah / 450 A
Generator	12 V / 55 Ah, three-phase current
Starter	12 V / 3.1 kW

Power Transmission

Hydrostatic travel drive with planetary reduction gears on sprocket drives. Multi-disc brake acting as parking brake, automatically bled. 2-stage variable displacement motor, full power shift.	
Travel speed, forward and reverse	0-2.7 / 5.2 km/h
Max. gradeability	> 60 %

Undercarriage

Maintenance-friendly B1 track-type undercarriage with triple grouser plates or rubber crawlers. Idler suspension with hydraulic crawler tensioning.	
Specifications for rubber / steel crawler chain	
Width	450 / max. 600 mm
Total length (sprocket - idler)	2200 / 2250 mm
Total length (undercarriage)	2850 mm

Dozer blade

Independent individual control of crawler chains, also counterwise.	
Width	2330 mm
Dozer cut below ground	390 mm
Dozer lift above ground	500 mm
Slope angle	35°

Steering

Independent individual control of crawler chains, also counterwise. Sensitive control provided by 2 pilot-operated hand levers combined with foot pedals. Full drawbar pull even when cornering.

Swing system

Hydrostatic drive with 2-stage planetary gear and axial piston fixed displacement motor, also acts as wear-resistant brake. In addition, automatically controlled spring-loaded multi-disc brake acting as parking brake.

Swing speed	0-10 rpm
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Fluid Capacities

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

Hydraulic system

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

Max. working pressure	280 bar
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Max. pump capacity	156 l/min
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The thermostatically controlled oil circuit ensures that the oil temperature is promptly reached and avoids overheating. Return filter installed in oil tank allows for eco-friendly replacement of filter elements.

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

Max. working pressure	230 bar
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Max. pump capacity	68 l/min
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Control circuit for work attachments:

Max. working pressure	up to 280 bar
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Max. pump capacity, adjustable	100 l/min
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Two servo-assisted joystick controls (ISO) for excavator operations.

Knickmatik®

Lateral parallel adjustment of boom arrangement at full digging depth.

Angle of articulation / lateral adjustment left	73° / 810 mm
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Angle of articulation / lateral adjustment right	55° / 950 mm
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Cab

Spacious, sound-insulated full-vision steel cab, FOPS* (acc. to ISO 3449) certified. Safety glass windows, thermo windows tinted in green. Skylight window, tinted. Panoramic rear window. Front window supported by pneumatic springs, lockable for ventilation and slidable under cab roof. Windshield washer system. Storage box. Radio pre-installation. Left-hand outside rear-view mirror.

Cab heating with windshield defroster through oil heat exchanger and 3-speed fan, ventilating mode in summer.

Fabric-covered, hydraulically cushioned driver's seat with armrests, height, tilt and weight adjustments. Safety belt.

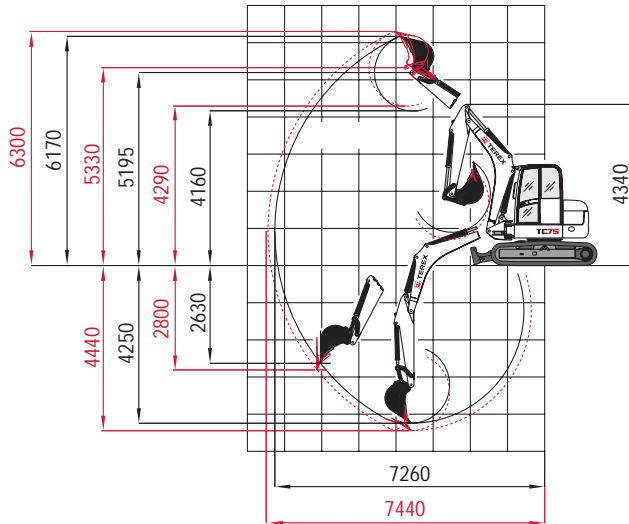
Instrument panel on the right hand side of the operator's seat with visual & acoustic warning device, hour-meter, instrument cluster with large fuel gauge.

Working flood lights Halogen H-3.

Sound level values in compliance with EC-directives..

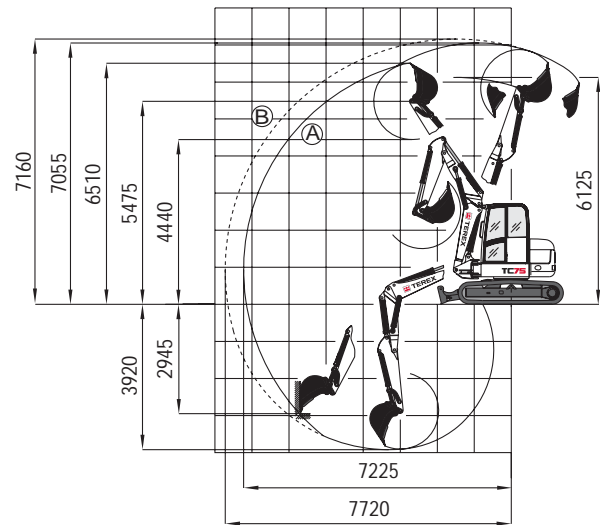
*FOPS-approved only with skylight guard (optional)

Working range: Monobloc boom



— Dipperstick 2000 mm
— Dipperstick 2200 mm

Working range: Circular boom



A = Digging envelope, reach restricted
B = Digging envelope, reach unrestricted

Lifting capacities

Bucket hinge pin height		Load radius from center of ring gear															
		3.0 m				4.0 m				5.0 m				6.0 m			
		MA		CI		MA		CI		MA		CI		MA		CI	
	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	
3.0 m	S	-	-	-	-	2.52	1.53	2.40	1.61	1.96	1.00	2.10	1.04	-	-	-	-
	T	-	-	-	-	1.65	1.50	2.04	1.55	1.13	0.99	1.33	0.99	-	-	-	-
1.5 m	S	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
	T	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	S	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
	T	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	S	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
	T	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

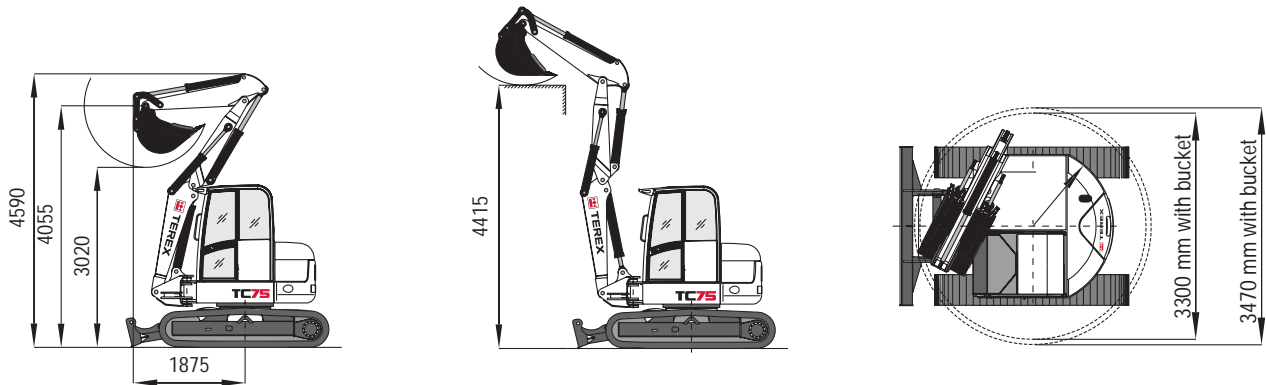
All values in tons (t) were determined acc. to ISO 10567 and include a stability factor of 1.33 or 87% of the hydraulic lifting capacity. All values were determined with quick-attach system but without bucket. In case of mounted-on work attachments, the deadweights of the work attachments must be deducted from the permissible payloads. When used for load hook applications, excavators must be equipped with hose-rupture valves and overload warning device in compliance with EN 474-5.

Working equipment: Rubber crawlers.

Abbreviations: S = Supported by blade, T = Traveling; MA = Monobloc boom, dipperstick 2000 mm; CI = Circular boom, dipperstick 1650 mm

Crawler Excavator TC75

Dimensions: Circular boom



Options

Clamshell grabs

- Rubber crawlers, 450 mm wide
- Steel crawlers, 300, 400, 500 resp. 600 mm wide

Boom Options

- Monobloc boom, with extended dipperstick 2.200 mm
- Circular boom, dipperstick 1650 mm

Accessories

- Quick-change adapter for several attachments
- Open return
- Independent diesel heating with timer
- Air-cushioned driver's seat with seat heating
- FOPS-skylight guard
- Cab-mounted working floodlight, front and rear
- Boom-mounted working floodlight
- Yellow beacon
- Electrical tank refilling pump
- Air conditioning
- Hydraulic boom height limitation
- Filling with biodegradable hydraulic oil, ester-based, VI 68

Buckets

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

Clamshell grabs

Type GM 2325 (QAS), grab swing brake	325 mm / 150 l
Type GM 2400 (QAS), grab swing brake	400 mm / 200 l
Type GM 2500 (QAS), grab swing brake	500 mm / 250 l

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

Further attachments available on request



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