

Crawler Excavator

OPERATING WEIGHT	12.5 t
NET ENGINE POWER	69 kW (94 hp)
BUCKET CAPACITIES	130 - 450 l
MAX. DIG DEPTH	4.33 m
MAX. REACH	7.94 m



CRAWLER EXCAVATOR TC125

Operating Data, Standard Equipment

Operating weight (monobloc boom) acc. to ISO 6016	12,500 kg
Operating weight (three-piece articulated boom "TPA") acc. to ISO 6016	12,800 kg
Undercarriage (steel crawlers) 500 mm	+ 310 kg
Transport dimensions:	
Monobloc boom / Three-piece articulated boom ("TPA") (L x H)	7260 x 2880 mm
Total width with dozer blade	2500 mm
Total height (top of cab)	2870 mm
Ground clearance	420 mm
Uppercarriage tailswing	1370 mm
Uppercarriage frontswing (monobloc boom)	2620 mm
Working envelope 180° (monobloc boom)	3920 mm
Working envelope 360° (monobloc boom)	5240 mm
Bucket digging force acc. to ISO 6015 (monobloc boom)	81,500 N
Ripping force acc. to ISO 6015 (monobloc boom / "TPA")	61,000 N
Ground pressure (rubber crawlers)	0.43 daN/cm ²
Ground pressure (steel crawlers)	0.44 daN/cm ²



Specifications

Engine

Manufacturer, model	Deutz, BF 4M 2012
Type	4-cylinder diesel engine, COM II/EPA II
Combustion	4-stroke cycle, direct fuel injection
Net power rating at 2100 rpm (ISO 9249)	69 kW (94 hp)
Displacement	4038 cm ³
Max. torque	385 Nm at 1400 rpm
Cooling system	Water

Electrical system

Nominal voltage	12 V
Battery	12 V / 135 Ah / 600 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 / 5.4 km/h
Max. gradeability	> 60 %

Undercarriage

Maintenance-friendly B4 track-type undercarriage with triple grouser plates or rubber crawlers. Idler suspension with hydraulic crawler tensioning.	
Specifications for rubber / steel crawler chain:	
Width	500 / max. 800 mm
Total length (sprocket - idler)	2628 / 2608 mm
Total length (undercarriage)	3345 mm

Dozer blade

Independent individual control of crawler chains, also counterwise.	
Width	2500 mm
Dozer cut below ground	400 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 at shifts in direction.

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	0-9 rpm

Fluid Capacities

Fuel tank	190 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	350 bar
Max. pump capacity	158 l/min

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.

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

Max. working pressure	230 bar
Max. pump capacity	41+36 l/min

Control circuit for work attachments:

Max. working pressure	up to 350 bar
Max. pump capacity, adjustable	100 l/min
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	65° / 855 mm
Angle of articulation / lateral adjustment right	56° / 995 mm

Cab

Spacious, sound-insulated full-vision steel cab, FOPS* (acc. to ISO 3449) certified. Safety glass windows, thermo windows tinted in green. Sky-light 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 coolant 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.

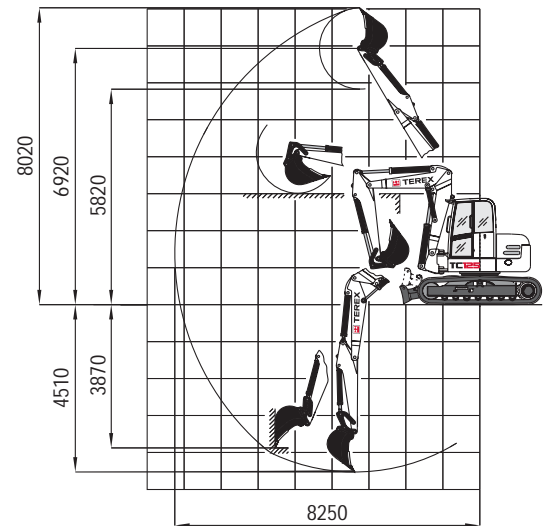
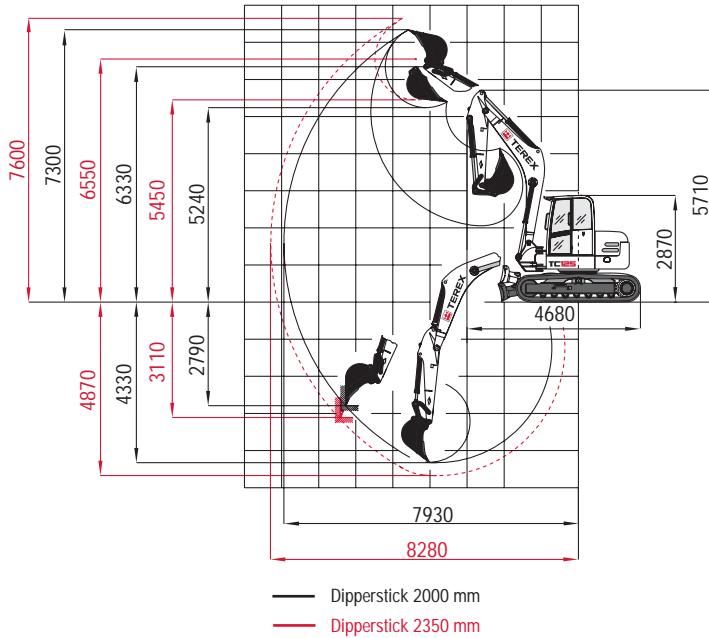
Working flood lights Halogen H-3.

Sound level values in compliance with EC-directives.

*FOPS-approved only with skylight guard (optional)

Working range: Monobloc boom

Working range: "TPA"



Lifting capacities

Bucket hinge pin height		Load radius from center of ring gear									
		3.2 m		4.0 m		5.0 m		6.0 m		6.6 m	
Dipperstick 2000 mm		End	Side	End	Side	End	Side	End	Side	End	Side
3.0 m	S	4.80	2.06	3.58	3.36	3.02	2.28	2.78	1.70	2.68	1.48
	T	3.15	-	3.53	3.28	2.32	2.26	2.03	1.69	1.37	1.46
1.5 m	S	7.19	3.90	5.32	2.86	3.90	2.03	3.25	1.60	2.93	1.36
	T	4.66	3.83	3.53	2.07	2.60	2.07	1.98	1.62	1.65	1.33
0 m	S	7.30	4.02	5.91	2.65	4.53	1.98	2.87	1.51	3.20	1.32
	T	4.70	3.92	3.21	2.59	2.41	1.95	1.14	1.48	1.64	1.30
-0.5 m	S	6.84	3.67	6.37	2.74	4.40	1.95	3.69	1.52	3.37	1.37
	T	4.45	3.62	3.26	2.61	2.43	1.91	1.17	1.50	1.57	1.34

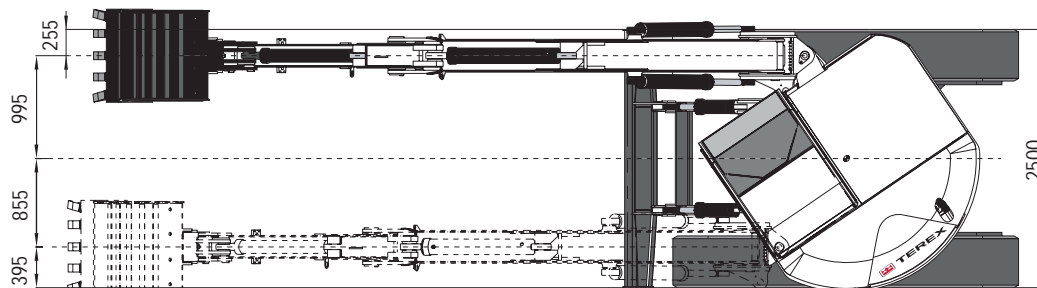
All values in tons (t) were determined acc. to ISO 10567 and include a stability factor of 1.33 or 87% of the hydraulic lifting capacity. All values were determined with quick-attach system but without bucket. In case of mounted-on work attachments, the deadweights of the work attachments must be deducted 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, monobloc boom, dipperstick 2000 mm.

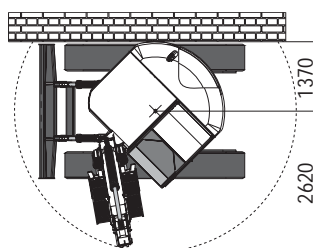
Abbreviations: S = Supported by blade, T = Traveling

Crawler Excavator TC125

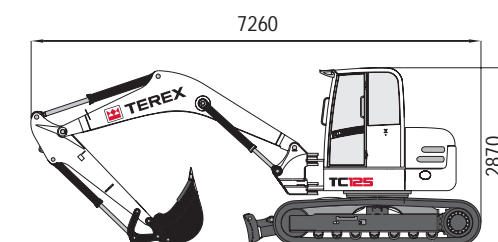
Dimensions: Excavation within the entire width of the machine



Dimensions: Working envelope



Dimensions: transport position



Options

Crawler-Chain Options

- Rubber crawlers, 500 mm wide
- Steel crawlers, 500, 600, 700 resp. 800 mm wide

Boom Options

- Monobloc boom, with extended dipperstick 2350 mm
- Three-piece articulated boom "TPA", dipperstick 2000 mm

Accessories

- Quick-change adapter for hydraulic hammer operation
- Open return
- Hose-rupture safety valve for dipperstick cylinder
- 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
- Filling with biodegradable hydraulic oil, ester-based, VI 68

Buckets

Bucket, tapered (QAS)	350 mm / 130 l
Bucket, tapered (QAS)	450 mm / 175 l
Bucket, with ejector (QAS)	350 mm / 145 l
Bucket, with ejector (QAS)	450 mm / 200 l
Bucket (QAS)	600 mm / 250 l
Bucket (QAS)	800 mm / 330 l
Bucket (QAS)	900 mm / 410 l
Bucket (QAS)	1000 mm / 450 l
Ditch-cleaning bucket (QAS)	1500 mm / 300 l
Swing bucket, 2 x 40° (QAS)	1500 mm / 345 l
Swing bucket, 2 x 40°	1800 mm / 450 l

Clamshell grabs

Type GM 3325 (QAS), grab swing brake	325 mm / 150 l
Type GM 3400 (QAS), grab swing brake	400 mm / 200 l
Type GM 3500 (QAS), grab swing brake	500 mm / 250 l
Type GM 3600 (QAS), grab swing brake	600 mm / 325 l

Further attachments available on request



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