

CRAWLER EXCAVATOR



Specifications

Operating weight	16,535 lbs (7,500 kg)
Engine power	73 HP (54 kW)
Bucket capacity	3.1-10.8 ft ³ (87-305 l)
Dig depth	13' 11" (4.25 m)
Reach	23' 10" (7.26 m)

Features

- ▶ Short-tail machine
- ▶ Extra-wide blade for dozer applications
- ▶ Flexibility in daily work by task-specific adjustment of the boom systems
- ▶ Comfort cab with perfect all-round visibility
- ▶ Increased productivity thanks to load sensing hydraulics
- ▶ Knickmatik® allows for working closely alongside walls
- ▶ Wide range of proven working tools

WORKS FOR YOU.™

SPECIFICATIONS

OPERATING DATA, STANDARD EQUIPMENT

Operating weight (monobloc boom) acc. to ISO 6016	16,538 lbs (7,500 kg)
Operating weight (circular boom) acc. to ISO 6016	17,416 lbs (7,900 kg)
Undercarriage (steel crawlers) 20" (500 mm wide)	+551 lbs (250 kg)
Transport dimensions: MB / CB (L x H)	19' 9" x 8' 11" / 19' 4" x 8' 11" (6,030 x 2,720 / 5,900 x 2,720 mm)
Total width with dozer blade	7' 8" (2,330 mm)
Total height (top of cab)	8' 11" (2,720 mm)
Ground Clearance	16.4" (410 mm)
Uppercarriage tailswing	3' 10" (1,175 mm)
Uppercarriage frontswing (monobloc boom / circular boom)	7' 6" / 5' 5" (2,300 / 1,650 mm)
Working envelope 180° (monobloc boom / circular boom)	11' 4" / 9' 1" (3,475 / 2,775 mm)
Working envelope 360° (monobloc boom / circular boom)	15' 1" / 10' 10" (4,600 / 3,300 mm)
Bucket digging force acc. to ISO 6015 (monobloc boom)	11,960 lbf (53,200 N)
Stick digging force acc. to ISO 6015 (monobloc b. / circular b.)	9,577 / 10,634 lbf (42,600 / 47,300 N)
Ground pressure (rubber crawlers)	4.5 psi (0.31 daN/cm ²)
Ground pressure (steel crawlers)	4.6 psi (0.32 daN/cm ²)

ENGINE

Manufacturer, model	Deutz, TD 2011 L04W
Type	4-cylinder diesel engine, Tier 3 (2008)
Combustion	4-stroke cycle, direct fuel injection
Displacement	220 in ³ (3,600 cm ³)
Net power rating at 2,200 rpm (SAE J 1349)	73 HP (54 kW)
Torque	119 lbf ft (270 Nm) @ 1,600 rpm
Cooling system	Water

ELECTRICAL SYSTEM

Nominal voltage	12 V
Battery	12 V / 105 Ah
Generator	12 V / 95 A
Starter	12 V / 3.1 hp (2.3 kW)

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.

2 speed ranges:

Travel speed, forward and reverse	0-1.7 / 3.2 mph (0-2.7 / 5.2 km/h)
Gradeability	> 60 %
Drawbar pull 1st / 2nd speed range	14,790 / 7,387 lbf (6,579 / 3,282 daN)

UNDERCARRIAGE

Maintenance-friendly B1 track-type undercarriage with triple grouser plates or rubber crawlers. Idler suspension with hydraulic crawler track tensioning.

Width rubber crawlers / steel crawlers	18" / max. 24" (450 / max. 600 mm)
Total length (sprocket - idler)	7' 3" / 7' 5" (2,200 / 2,250 mm)
Total length (undercarriage)	9' 4" (2,850 mm)

DOZER BLADE

Independent of drive train, sensitive control via separate hand lever.

Width x height	7' 8" x 20" (2,330 x 496 mm)
Dozer cut below ground	15" (390 mm)
Dozer lift above ground	20" (500 mm)
Slope angle	35°

STEERING

Independent, individual control of crawler chains, also counterwise. Sensitive control provided by 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 0-10 rpm

KNICKMATIK®

Lateral parallel adjustment of boom arrangement at full digging depth.

Angle of articulation / lateral adjustment left 63° / 32" (810 mm)

Angle of articulation / lateral adjustment right 65° / 37" (950 mm)

FLUID CAPACITIES

Fuel tank	34 gal (130 l)
Hydraulic system (incl. tank 16 gal (60 l))	37 gal (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.

Pump capacity, max. 41 gpm (156 l/min)

Working pressure, max. 4,060 psi (280 bar)

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.

Pump capacity, max. 18 gal (68 l/min)

Working pressure, max. 3,335 psi (230 bar)

Control circuit for work attachments:

Pump capacity, adjustable up to max. 26.4 gpm (100 l/min)

Working pressure, max. 4,060 psi (280 bar)

Two servo-assisted joystick controls (ISO) for excavator operations.

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 compartment. Preparation for radio installation. Left-hand outside rear-view mirror.

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

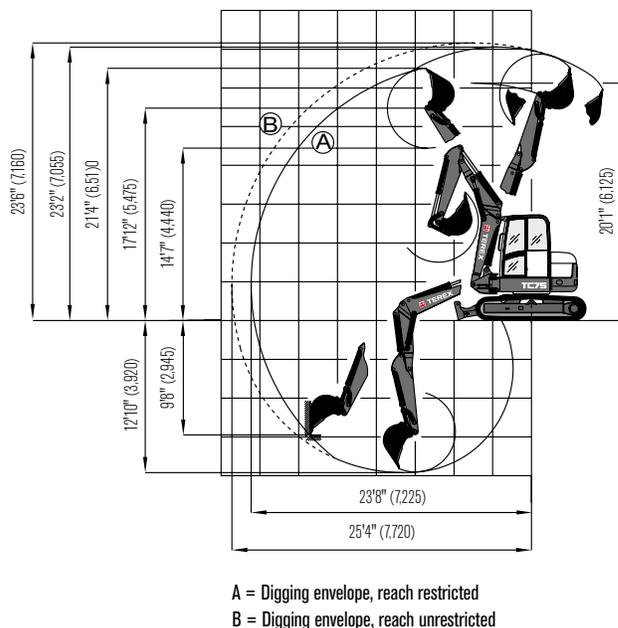
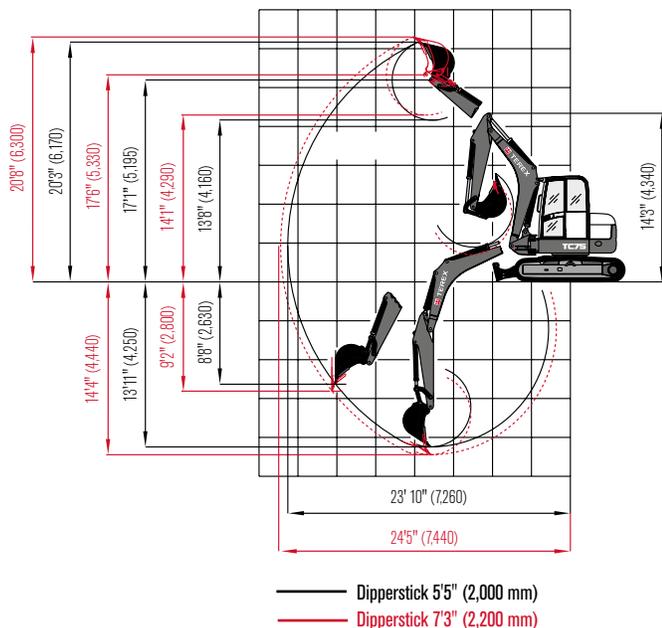
Operator's seat MSG 85 (comfort version) hydraulic damping, adjustable armrests, height, tilt and weight adjustments. Lap belt.

Instrument panel on the right hand side of the operator's seat with visual & acoustic warning device, hour-meter and safety module.

Working flood lights Halogen H-3.

Sound level values in compliance with EC-directives.

*FOPS-approved only with skylight guard (optional)



LIFTING CAPACITIES

Bucket hinge height	Load radius from center of ring gear																
	4'11" (3.0 m)				13'1" (4.0 m)				16'5" (5.0 m)				19'8" (6.0 m)				
	MB		CB		MB		CB		MB		CB		MB		CB		
	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	
4'11" (3.0 m)	S	-	-	-	-	5.55 (2.52)	3.37 (1.53)	5.29 (2.40)	10.61 (1.61)	4.32 (1.96)	2.20 (1.00)	4.63 (2.10)	2.29 (1.04)	-	-	-	-
	T	-	-	-	-	3.31 (1.65)	3.31 (1.50)	4.50 (2.04)	3.42 (1.55)	2.49 (1.13)	2.18 (0.99)	2.93 (1.33)	2.18 (0.99)	-	-	-	-
4'11" (1.5 m)	S	7.14 (3.24)	5.14 (2.33)	8.49 (3.85)	5.67 (2.57)	5.75 (2.61)	3.13 (1.42)	6.79 (3.08)	3.28 (1.49)	4.72 (2.14)	2.14 (0.97)	4.92 (2.23)	2.23 (1.01)	3.83 (1.74)	1.52 (0.69)	3.62 (1.64)	1.59 (0.72)
	T	4.96 (2.25)	5.07 (2.30)	7.05 (3.20)	5.38 (2.44)	3.50 (1.59)	3.06 (1.39)	4.32 (1.96)	3.11 (1.41)	2.34 (1.06)	2.07 (0.94)	2.82 (1.28)	2.12 (0.96)	1.65 (0.75)	1.48 (0.67)	2.01 (0.91)	1.48 (0.67)
0 m	S	11.68 (5.30)	3.97 (1.80)	11.53 (5.23)	4.56 (2.07)	7.01 (3.18)	2.82 (1.28)	6.44 (2.92)	2.80 (1.27)	4.98 (2.26)	1.98 (0.90)	4.48 (2.03)	2.03 (0.92)	3.64 (1.65)	1.50 (0.68)	3.02 (1.37)	1.50 (0.68)
	T	4.85 (2.20)	3.97 (1.80)	5.89 (2.67)	4.32 (1.96)	3.11 (1.41)	2.71 (1.23)	3.55 (1.61)	2.65 (1.20)	2.18 (0.99)	1.92 (0.87)	2.51 (1.14)	1.92 (0.87)	1.61 (0.73)	1.43 (0.65)	1.83 (0.83)	1.41 (0.64)
-3'3" (-1.0 m)	S	10.14 (4.60)	3.97 (1.80)	9.81 (4.45)	4.32 (1.96)	6.46 (2.93)	2.42 (1.10)	5.51 (2.50)	2.65 (1.20)	4.63 (2.10)	1.89 (0.86)	3.88 (1.76)	1.90 (0.86)	3.24 (1.47)	1.46 (0.66)	2.45 (1.11)	1.46 (0.66)
	T	4.56 (2.07)	3.75 (1.70)	5.56 (2.52)	4.03 (1.83)	2.91 (1.32)	2.42 (1.10)	3.33 (1.51)	2.43 (1.10)	2.07 (0.94)	1.85 (0.84)	2.34 (1.06)	1.83 (0.83)	1.59 (0.72)	1.39 (0.63)	1.70 (0.77)	1.37 (0.62)

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. In each case, the smaller value is indicated. All values were determined with load hook. In the event of an attached bucket the difference weights bucket minus load hook 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.

Working equipment: Rubber crawlers.

Abbreviations: S = Supported by blade, T = Traveling; MA = Monobloc boom, dipperstick 7'3" (2,000 mm); CI = Circular boom, dipperstick 5'5" (1,650 mm)

DIMENSIONS

Fig. 1: Work equipment: Circular boom with dipperstick 5'5" (1,650 mm)

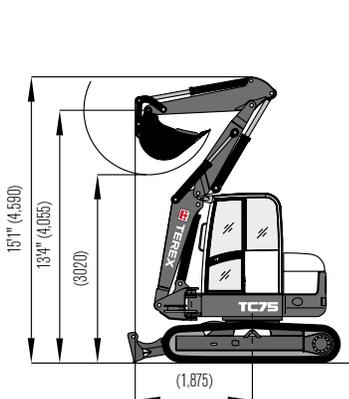
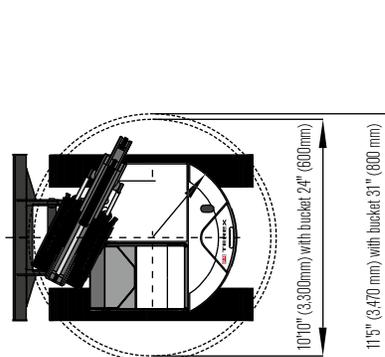


Fig. 2: Circular boom - dump height



Fig. 3: Circular boom - working envelope



WORK ATTACHMENTS

BUCKETS

Bucket, QAS, light material, without teeth	12" (300 mm) wide, capacity 3.1 ft ³ (87 l)
Bucket, QAS, light material, without teeth	16" (400 mm) wide, capacity 4.48 ft ³ (127 l)
Bucket, QAS, light material, without teeth	24" (600 mm) wide, capacity 7.29 ft ³ (212 l)
Bucket, QAS	12" (300 mm) wide, capacity 3.07 ft ³ (87 l)
Bucket, QAS	16" (400 mm) wide, capacity 4.48 ft ³ (127 l)
Bucket, QAS	20" (500 mm) wide, capacity 5.97 ft ³ (169 l)
Bucket, QAS	24" (600 mm) wide, capacity 7.29 ft ³ (212 l)
Bucket, QAS	31" (800 mm) wide, capacity 10.7 ft ³ (303 l)
Ditch-cleaning bucket, QAS	49" (1250 mm) wide, capacity 8.86 ft ³ (251 l)
Ditch-cleaning bucket, QAS	59" (1500 mm) wide, capacity 10.8 ft ³ (305 l)
Swing bucket, QAS	24" (1500 mm) wide, capacity 10.8 ft ³ (305 l)

OPTIONAL EQUIPMENT

BOOM OPTIONS

Monobloc boom, with extended dipperstick 6'7" (2,000 mm)
Circular boom, with dipperstick 5'5" (1,650 mm)

CRAWLER CHAIN OPTIONS

Rubber crawler track, 18" (450 mm) wide
Steel crawler track, 24" (600 mm) wide
Rubber-coated steel crawler chain 'Roadliner', 18" (450 mm) wide.

OPTIONAL SUPPORT/DOZER SYSTEMS

Front dozer blade, 8'2" (2,480) mm wide
Front dozer blade, extra-long version

HYDRAULIC SYSTEM

Second control circuit (e.g. for sorting grab)	Third and fourth control circuit
Open return	Conversion kit from ISO controls to Schaeff controls
Float position dozer blade	A/B control pattern switch
Hose-rupture / load-retaining valve for monobloc boom	Hose-rupture / load-retaining valve for dipperstick (monobloc boom)
Hose-rupture / load-retaining valve for circular boom	Hose-rupture / load-retaining valve for intermediate boom and dipperstick (circular boom)
Hose-rupture / load-retaining valve for extended dipperstick (monobloc boom)	Biodegradable hydraulic oil / ester-based HLP 68 (Panolin)
Hydraulic boom height limitation, monobloc boom	Hydraulic boom height limitation, circular boom

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Terex Construction 8800 Rostin Road, Southaven, MS 38671 USA
Tel +1 (888) 90-TEREX www.terex.com



GRABS

Clamshell grab GM 2325, grab swing brake	set of shells 13" (325 mm) wide, capacity 5.3 ft ³ (150 l)
Clamshell grab GM 2400, grab swing brake	set of shells 16" (400 mm) wide, capacity 7.06 ft ³ (200 l)
Clamshell grab GM 2500, grab swing brake	set of shells 20" (500 mm) wide, capacity 8.83 ft ³ (250 l)
Ejector	

OTHER WORK ATTACHMENTS

Ripper tooth / QAS (1 tooth)	Cutting unit
Hydraulic hammer	Quick-change adapter for hydraulic hammer
Auger	Bolt-on load hook for bucket rod
Load hook integrated in quick-attach system	
Further work attachments available on request	

DIESEL ENGINE

Diesel exhaust cleaner	Catalyst
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CAB

Lighting package: 1 double beam working floodlight - cab-mounted rear center, 1 working floodlight cab-mounted - front right	FOPS - skylight guard
Additional boom-mounted working floodlight	Radio set installation kit
Yellow beacon	Automatic idling system

OPERATOR'S STAND

Operator's seat MSG 95 (premium version) air damping, extra-high backrest, longitudinal-horizontal suspension, seat and backrest heating

OTHER OPTIONAL EQUIPMENT

Air-conditioning	Anti-theft device (immobilizer)
Quick-attach system, mechanical (genuine Lehnhoff system), type MS08	Quick-attach system, hydraulic (genuine Lehnhoff system), type HS08
Hydraulic installation for quick-attach system	Electrical refueling pump
Rear fog lamp	Engine-independent diesel heater with fresh air circulation and timer
Special coating / adhesive films	Additional rear weight, 505 lbs (229 kg)
Further optional equipment available on request	

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