

CRAWLER EXCAVATOR



Specifications

| | |
|------------------|--------------------|
| Operating weight | 11,300 – 12,500 kg |
| Engine power | 85 kW(116 hp) |
| Bucket capacity | 149 – 477 l |
| Dig depth | 4.32 – 4.91 m |
| Reach | 7.99 – 8.65 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 along walls
- ▶ Wide range of proven working tools

WORKS FOR YOU.™

SPECIFICATIONS

ENGINE

| | |
|---|--|
| Manufacturer, model | Deutz, TCD3.6 L4 |
| Type | 4-cylinder turbo diesel engine with intercooler, EU Stage III B / Tier4i |
| Combustion | 4-stroke cycle, Common Rail injection |
| Displacement | 3600 cm ³ |
| Net power rating at 2000 rpm (ISO 9249) | 85 kW (116 hp) |
| Torque | 400 Nm at 1600 rpm |
| Cooling system | Water |

ELECTRICAL SYSTEM

| | |
|-----------------|---------------|
| Nominal voltage | 12 V |
| Battery | 12 V / 135 Ah |
| Generator | 14 V / 95 Ah |
| Starter | 12 V / 4.0 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 | 0-2.7 / 5.4 kph |
| Gradeability | > 60 % |
| Drawbar pull 1 st /2 nd speed range | 8358 / 4253 daN |

UNDERCARRIAGE

Maintenance-friendly B4 track-type undercarriage with triple grouser plates or rubber crawlers. Idle suspension with hydraulic crawler-chain tensioning.

| | |
|--|-------------------|
| Width rubber crawlers / steel crawlers | 500 / max. 800 mm |
| Total length (sprocket - idler) | 2628 / 2608 mm |
| Total length (undercarriage) | 3345 mm |

DOZER BLADE

| | |
|--|---------------|
| Independent of drive train, sensitive control via separate hand lever. | |
| Width x height | 2500 x 510 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 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, spring-loaded multi-disc brake acting as parking brake.

| | |
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| Swing speed | 0 – 10 rpm |
|-------------|------------|

KNICKMATIK®

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| Lateral parallel adjustment of boom arrangement at full dig depth. | |
| Angle of articulation / lateral adjustment left | 65° / 855 mm |
| Angle of articulation / lateral adjustment right | 56° / 995 mm |

FLUID CAPACITIES

| | |
|-------------------------------|-------|
| Fuel tank | 240 l |
| Hydraulic system (incl. tank) | 230 l |



OPERATING DATA, STANDARD EQUIPMENT

| | |
|--|------------------------------|
| Operating weight (monobloc boom) acc. to ISO 6016 | 11,500 kg |
| Operating weight (two-piece articulated boom "TPA") acc. to ISO 6016 | 11,300 kg |
| Undercarriage (steel crawlers) 500 mm | +310 kg |
| Transport dimensions: Monobloc boom / TPA boom (L x H) | 7350 x 2700 / 6820 x 2700 mm |
| Total width with dozer blade | 2500 mm |
| Total height (top of cab) | 2870 mm |
| Ground clearance | 420 mm |
| Uppercarriage tailswing | 1600 mm |
| Uppercarriage frontswing (monobloc boom) | 2660 mm |
| Working envelope 180° (monobloc boom) | 4260 mm |
| Working envelope 360° (monobloc boom) | 5320 mm |
| Bucket digging force acc. to ISO 6015 (monobloc boom) | 81,500 N |
| Ripping force acc. to ISO 6015 (monobloc boom / TPA boom) | 61,000 N |
| Ground pressure (rubber crawlers) | 0.40 daN/cm ² |
| Ground pressure (steel crawlers) | 0.41 daN/cm ² |

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. pump capacity | 190 l/min |
| Working pressure, max. | 350 bar |

The thermostatically controlled oil circuit ensures that the oil temperature is promptly reached and avoids overheating. Hydraulically actuated reversible fan. Return filter installed in oil tank allows for eco-friendly replacement of filter elements.

| | |
|--|----------------|
| Dual gear pump for all positioning movements, pivoting of uppercarriage and for hydrostatic fan. | |
| Pump capacity, max. | 76 + 38 l/min |
| Working pressure, max. | 230 bar |
| Control circuit for work attachments (proportionally operated): | |
| Pump capacity, adjustable up to max. | 20 – 100 l/min |
| Working pressure, max. | 350 bar |
| Two servo-assisted joystick controls (ISO) for excavator operations. | |

CAB

Spacious, sound-insulated full-vision steel cab (ROPS certified). Sliding window in cab door. Safety glass windows, thermo windows tinted in green. Skylight thermo window, bronze 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 front window defroster by coolant heat exchanger with stepless fan. Fresh air and recirculating air filters.

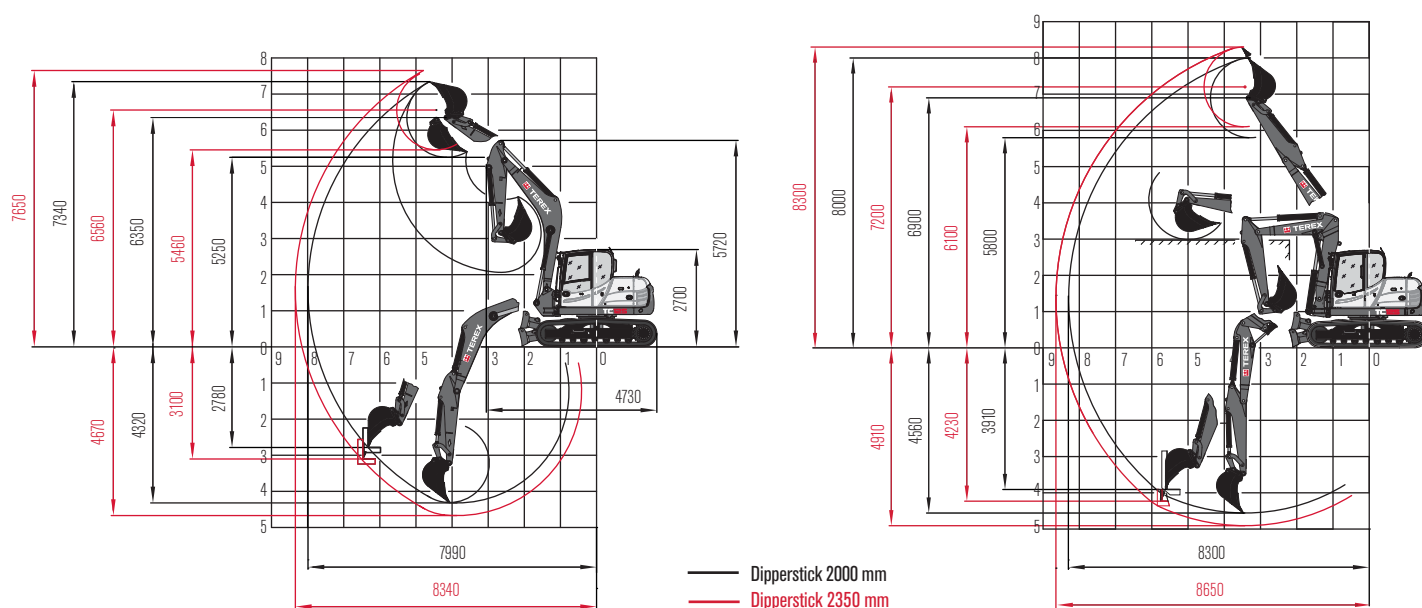
Operator's seat MSG 85 (comfort version), hydraulic damping, extra-high backrest, tilt-adjustable armrests, longitudinal-horizontal suspension, mechanical lumbar support. Lap belt.

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

Working floodlights Halogen H-3.

Sound level values in compliance with EC-directives.

WORKING RANGES & DIMENSIONS: MONOBLOC BOOM / TPA BOOM



LIFTING CAPACITIES

| Bucket hinge height Dipperstick 2000 mm | | Load radius from center of ring gear | | | | | | | | | |
|--|---|--------------------------------------|------|-------|------|-------|------|-------|------|-------|------|
| | | 3.0 m | | 4.0 m | | 5.0 m | | 6.0 m | | 6.6 m | |
| | | End | Side | End | Side | End | Side | End | Side | End | Side |
| 3.0 m | S | - | - | 3.20 | 3.00 | 2.60 | 1.90 | 2.40 | 1.40 | 2.20 | 1.10 |
| | T | - | - | 2.90 | 2.50 | 2.10 | 1.80 | 1.70 | 1.30 | 1.30 | 1.00 |
| 1.5 m | S | - | - | 5.40 | 2.40 | 3.50 | 1.80 | 2.80 | 1.30 | 2.50 | 1.00 |
| | T | - | - | 3.00 | 2.20 | 2.10 | 1.60 | 1.60 | 1.20 | 1.20 | 1.00 |
| 0 m | S | 7.40 | 4.10 | 5.60 | 2.30 | 4.00 | 1.60 | 2.70 | 1.30 | 2.70 | 1.10 |
| | T | 5.70 | 4.00 | 2.80 | 2.10 | 2.00 | 1.50 | 1.50 | 1.10 | 1.20 | 1.00 |
| - 0.9 m | S | - | - | 5.80 | 2.30 | 4.00 | 1.60 | 3.10 | 1.30 | 2.90 | 1.20 |
| | T | - | - | 2.90 | 2.10 | 2.00 | 1.50 | 1.50 | 1.20 | 1.40 | 1.10 |

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 operating loads.

Working equipment: Rubber crawlers, monobloc boom

Abbreviations: S = Supported by blade, T = Traveling

DIMENSIONS

Fig. 1:
Working envelope

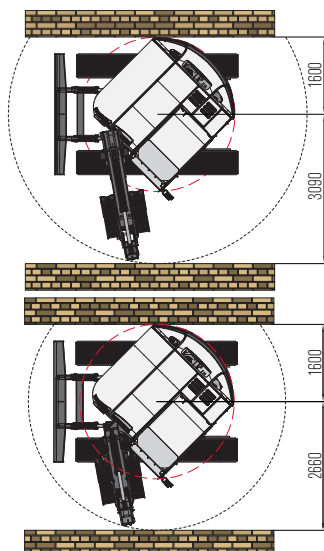
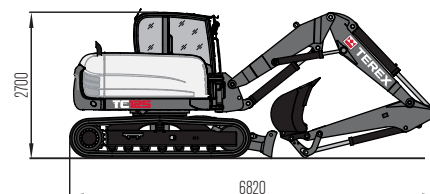
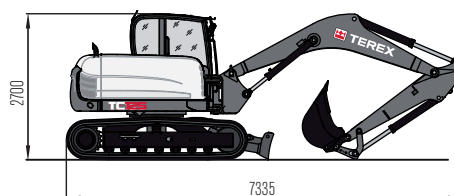


Fig. 3:
Transport position

Two-piece articulated boom



Monobloc boom



WORK ATTACHMENTS

BUCKETS

| | |
|----------------------------|------------------------------|
| Bucket, QAS | 400 mm wide, capacity 149 l |
| Bucket, QAS | 500 mm wide, capacity 200 l |
| Bucket, QAS | 600 mm wide, capacity 254 l |
| Bucket, QAS | 700 mm wide, capacity 308 l |
| Bucket, QAS | 800 mm wide, capacity 364 l |
| Bucket, QAS | 900 mm wide, capacity 421 l |
| Bucket, QAS | 1000 mm wide, capacity 477 l |
| Ditch-cleaning bucket, QAS | 1500 mm wide, capacity 371 l |
| Swing bucket, QAS | 1500 mm wide, capacity 371 l |
| Swing bucket, QAS | 1800 mm wide, capacity 430 l |

GRABS

| | |
|--|---|
| Clamshell grab GS 3325, grab swing brake | set of shells 325 mm wide, capacity 150 l |
| Clamshell grab GS 3400, grab swing brake | set of shells 400 mm wide, capacity 200 l |
| Clamshell grab GS 3500, grab swing brake | set of shells 500 mm wide, capacity 250 l |
| Clamshell grab GS 3600, grab swing brake | set of shells 600 mm wide, capacity 325 l |
| Ejector | |

OTHER WORK ATTACHMENTS

| | |
|---|---|
| Ripper tooth / QAS (1 tooth) | Rototilt RT30 |
| Hydraulic hammer | Quick-change adapter for hydraulic hammer |
| Augers | Bolt-on load hook for bucket rod |
| Load hook integrated in quick-attach system | |
| Further work attachments available on request | |

OPTIONAL EQUIPMENT

BOOM OPTIONS

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|--|
| TPA boom, with dipperstick 1850 mm |
| TPA boom, with dipperstick 2350 mm |
| Monobloc boom, with extended dipperstick 2000 mm |

CRAWLER CHAIN OPTIONS

| |
|---|
| Rubber crawler track, 500 mm wide |
| Rubber-coated steel crawler chain 'Roadliner', 500 mm wide. |
| Steel crawlers up to 800 mm wide |

OPTIONAL SUPPORT/DOZER SYSTEMS

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|---------------------------------------|
| Front dozer blade, extra-long version |
|---------------------------------------|

HYDRAULIC SYSTEM

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|--|---|
| Second control circuit (e.g. for sorting grab) | Biodegradable hydraulic oil / ester-based HLP 68 (Panolin) |
| Open return | Float position dozer blade |
| Terex 'Fingertip' control incl. second additional control circuit on left joystick | Terex 'Fingertip' control incl. third additional control circuit on left joystick |
| Conversion from ISO controls to Schaeff controls | Conversion from ISO controls to SAE controls |

DIESEL ENGINE

| |
|------------------------|
| Diesel particle filter |
|------------------------|

CAB

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|--|-----------------------------------|
| 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 | Sliding window on right-hand side |

DRIVER'S STAND

| | |
|--|-----------------------|
| Operator's seat MSG 95 (premium version), air damping, extra-high backrest and tilt-adjustable armrests, longitudinal-horizontal suspension, seat and backrest heating, pneumatic lumbar support | |
| Klimatronic | Thermoelectric cooler |

OTHER OPTIONAL EQUIPMENT

| | |
|---|---|
| Additional rear weight 480 kg | 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 |
| Engine-independent diesel heater with fresh air circulation and timer | Working floodlight, boom-mounted |
| Special coating / adhesive films | Further optional equipment available on request |

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Terex Compact Germany GmbH
Kraftwerkstr. 4
D-74564 Crailsheim
Tel: +49 (0)7951 / 9357-0
construction@terex.com
Fax: +49 (0)7951 / 9357-671
www.terex.com



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