



TEREX®

TC16-2

MINI EXCAVATOR



The machine shown may include optional equipment.

Specifications

| | |
|------------------|-------------------|
| Operating weight | 1650 kg |
| Engine power | 10.4 kW (14.1 HP) |
| Bucket capacity | 21 – 91 l |
| Digging depth | 2.26 / 2.46 m |
| Reach | 3.76 / 3.96 m |

Features

- ▶ Extra-wide blade for dozer applications
- ▶ Top-mounted boom cylinders for perfect protection of cylinders and larger range of application
- ▶ Comfort cab with excellent visibility (canopy as option)
- ▶ Knickmatik® allows for working closely along walls
- ▶ Wide range of proven working tools

WORKS FOR YOU.™

SPECIFICATIONS

ENGINE

| | |
|---|---------------------------|
| Manufacturer, model | Kubota, D722 Tier 4 final |
| Type | 3-cylinder diesel engine |
| Bore x stroke | 67 x 68 mm |
| Displacement | 719 cm ³ |
| Power rating acc. to ISO 14396 @ 2500 rpm | 10.4 kW (14.1 HP) |
| Torque max. @ 2000 rpm | 43.5 Nm |
| Air filter with safety cartridge and maintenance switch | |
| Cold-starting aid | Glow plugs |

ELECTRICAL SYSTEM

| | |
|------------------|---|
| Nominal voltage | 12 V |
| Battery | 12 V / 44 Ah |
| Generator | 12 V / 40 A |
| Starter | 1.4 kW |
| Lighting system: | 1 working floodlight front left on the cab / canopy (auxiliary headlamps optional) |

TRANSMISSION

Single-stage hydrostatic travel drive with axial piston variable displacement motor and reduction gear, fully enclosed. "Straight-Travel" function. Travel brake valves for downhill travel

| | |
|---|---------|
| Travel speed, 1 st gear | 2.2 kph |
| Travel speed, 2 nd gear (optional) | 4.2 kph |

Forwards and backwards respectively. Manual switching via button on dozer lever.

UNDERCARRIAGE

Torsion-proof welded design. Mechanically retractable/extendable undercarriage provided as standard. Maintenance-free crawler-type undercarriage. Idler suspension with hydraulic crawler-chain tensioning. Sliding plate at the top

| | |
|---|---------------|
| Range of adjustment, outside edge of crawler chains | 990 - 1340 mm |
| Width rubber tracks (short pitch) | 230 mm |
| Total length (undercarriage) | 1490 mm |
| Number of rollers per side | 3 |
| Track width | 760 - 1110 mm |
| Gradeability | max. 60% |
| Drawbar pull 1 st speed range | 1300 daN |

DOZER BLADE

Independent of drive train, sensitive control via separate hand lever

| | |
|-------------------------|---------------|
| Width x height | 1340 x 235 mm |
| Dozer cut below ground | 160 mm |
| Dozer lift above ground | 200 mm |
| Slope angle | 25° |

STEERING

Independent individual control of crawler chains, also counterwise. Sensitive actuation via manual levers, combined with pedals, foot rest on pedal console

SWING SYSTEM

| | |
|------------------------------|-----------|
| Internally toothed ring gear | |
| Swing speed | 0 - 9 rpm |

SWING BRAKE

Hydrostatic drive, also acts as wear-resistant brake. Additional spring-loaded multi-disc brake. Considered as transport security



FLUID CAPACITIES

| | |
|------------------------------------|------|
| Fuel tank | 27 l |
| Hydraulic system (incl. tank 21 l) | 26 l |

KNICKMATIK®

Lateral parallel adjustment of boom arrangement at full dig depth

| | |
|--|--------------|
| Angle of articulation / lateral adjustment left | 59° / 411 mm |
| Angle of articulation / lateral adjustment right | 60° / 503 mm |

OPERATING DATA, STANDARD EQUIPMENT

| | |
|---|--------------------------|
| Operating weight according to ISO 6016: Cab with 400 mm bucket, quick-attach system, 1 st additional control circuit, rubber tracks, including driver, full fuel tank | 1650 kg |
| Operating weight according to ISO 6016: Canopy with 400 mm bucket, quick-attach system, 1 st additional control circuit, rubber tracks, including driver, full fuel tank | 1570 kg |
| Transport weight: Cab, tank half full, with quick-attach system, w/out bucket | 1525 kg |
| Transport weight: Canopy, tank half full, with quick-attach system, w/out bucket | 1445 kg |
| Total length (travel position) | 2621 mm |
| Total length (trailer transport position) | 3653 mm |
| Total height (top of canopy/cab) | 2273 mm / 2291 mm |
| Total height (travel position) | 2315 mm |
| Total width (undercarriage) | 990 - 1340 mm |
| Total width of uppercarriage | 980 mm |
| Uppercarriage tail swing | 1090 mm |
| Uppercarriage front swing | 1295 mm |
| Working envelope, bucket heaped (also with 600 mm bucket): | |
| 180° | 2388 mm |
| 360° | 2596 mm |
| Swing clearance | 443 mm |
| Reach max.** | 3760 / 3958* mm |
| Digging depth max.** | 2260 / 2460* mm |
| Loading height approx.** | 2280 / 2430* mm |
| Highest reachable height** | 3340 / 3483* mm |
| Bucket rotation angle | 187° |
| Bucket digging force acc. to ISO 6015 | 16,590 N |
| Stick digging force acc. to ISO 6015 | 9750 / 8570* N |
| Specific ground pressure: | |
| Excavator cpl. | 0.26 daN/cm ² |

* with dipperstick 1150 mm (optional)

** Dimensions apply to machine standing on level ground, but can be increased by tilting the machine using the blade.

HYDRAULIC SYSTEM

| | |
|---|----------|
| Pump capacity, max. | 33 l/min |
| Working pressure | 220 bar |
| Dual gear pump | |
| LS-control and load independent flow distribution (LIFD) for all working movements and travel drive | |
| Simultaneous independent control of all functions | |
| All excavator movements servo-controlled, ISO | |
| All functions are proportionally controllable | |
| Hydraulic oil cooler | |
| Full flow filtration through return filter | |
| Cylinders for boom, dipper arm and articulation with end position damping at both ends | |
| Bucket retract function with end-position damping | |
| Safety shutdown activated by exit barrier | |
| Additional control circuit as standard, control via foot pedal | |
| Additional control circuit with bypass for pressure-reduced return quantity | |
| Hydraulic power to the couplings: | |
| Pump capacity (pressure-controlled) | |
| @ 145 bar | 33 lpm |
| @ 220 bar | 21 lpm |
| Max. working pressure | 220 bar |

CAB (STANDARD)

Spacious, sound-insulated full-vision steel cab, FOPS*** (acc. to ISO 3449), ROPS and TOPS (acc. to ISO 12117) certified

Very good all-round visibility, lean vertical support members

Safety glass

Front window supported by pneumatic springs, slidable under cab roof

Fixed window part without frame which obstructs the forward view

Door with large access on left hand side

Foldable console on left hand side for large entry access

Right door as emergency exit

Matching locks of hood, ignition and tank cap

Central connector for electrical cable

Wiper washer with wiper for windscreen

Interior light, coat hook

Operator's seat (standard version), imitation leather:

Longitudinal and back tilt adjustment

Continuous weight adjustment as per operators weight

Safety belt

Armrests height adjustable without tools

Cables for radio installation kit

Preparation for antenna

Large storage compartment under the operator's seat

Heating (water) with 2-speed fan and 4 adjustable exhaust nozzles

Temperature controller in cab

Storage pocket behind the operator's seat

Storage compartment for mobile phone (near 12V outlet)

1 left-hand outside rear-view mirror, foldable in front of windshield

1 working floodlight front left as standard

Display, fuel gauge, hour meter and warning lights

Fuse box easily accessible from outside of the cab

Very good ergonomics

Ergonomically arranged dozer blade lever

Fast / slow switch on dozer blade lever (optional)

Terex 'Fingertip' control for additional control circuit on right joystick, including holding function for continuous operation (optional)

Yellow beacon, radio, immobilizer (anti-theft device), working floodlights prepared for optional installation

*** FOPS-approved only with skylight guard (optional)

CANOPY

Robust steel pipe construction. 4 support members for the best all-round visibility

1 working floodlight front left

FOPS (acc. to ISO 3449), ROPS and TOPS (acc. to ISO 12117) certified

Operator's seat (standard version), imitation leather:

Longitudinal and back tilt adjustment

Continuous weight adjustment as per operators weight

Safety belt

Large lockable storage compartment under the operator's seat

Storage pocket behind the operator's seat

Display, fuel gauge, hour meter and warning lights

Easy and quick change of canopy to cab and vice-versa (< 1 hour)

Yellow beacon, immobilizer (anti-theft device), working floodlights prepared for optional installation

Reduction weight canopy 80 kg

CRANE TRANSPORT

Crane lifting beam for cab and canopy

SOUND LEVEL VALUES

Noise emission ambience L_{WA} cab / canopy 93 / 93 dB (A)

Noise emission cab L_{PA} cab / canopy 80 / 80 dB (A)

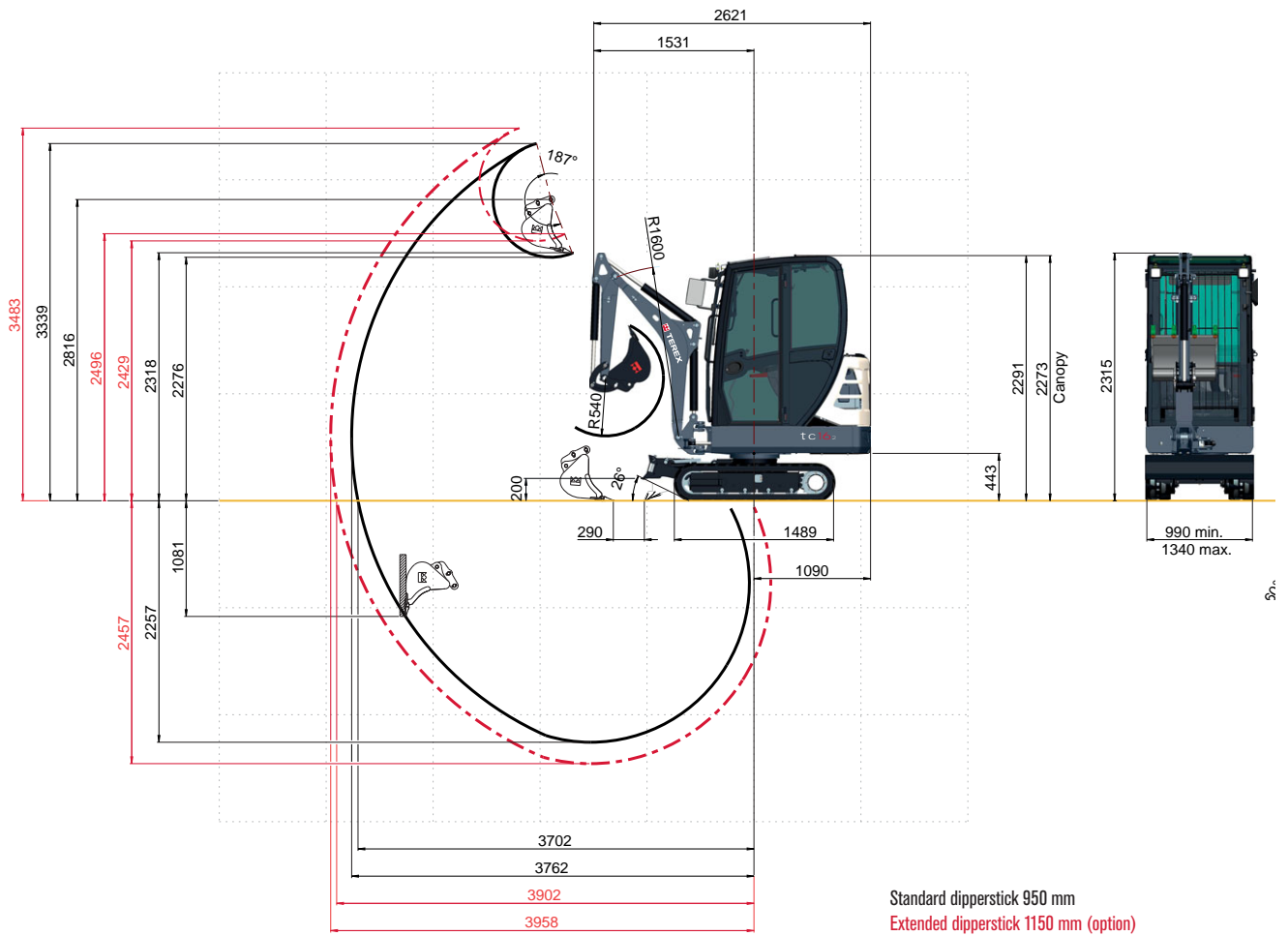
Sound level values measured in compliance with Directive 2000/14/EC and EN474

VIBRATION VALUES

Effective values of acceleration for whole body less than 0.5 m/s²

Effective values of acceleration for hand-arm less than 2.5 m/s²

Vibration values in compliance with Directive 2006/42/EC and EN474



DIMENSIONS

Fig. 1, 2:
Excavation within the entire width of the machine

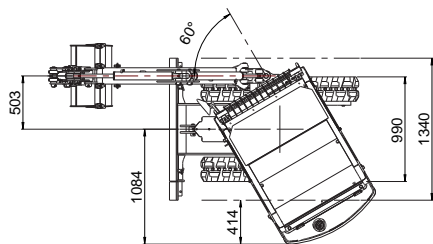


Fig. 3:
Transport position - trailer transport

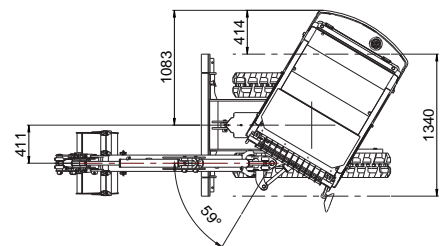
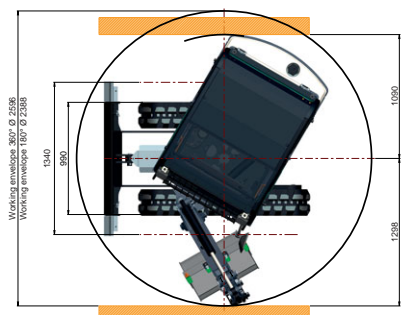
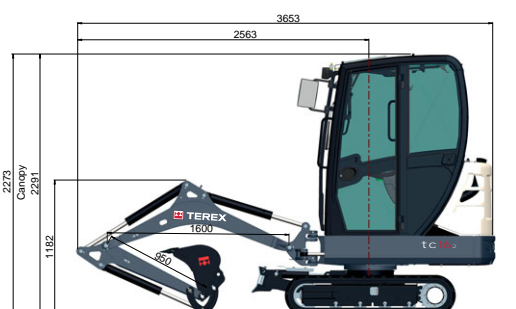




































Fig. 4:
Working envelope



LIFTING CAPACITIES

| Bucket hinge height | | Load radius from center of ring gear | | | | | | | | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dipperstick 950 mm | | 1.5 m | | | | 2.0 m | | | | 2.5 m | | | | 3.0 m | | | | 3.25 m | | | |
| | | UR | UE | UR | UE | UR | UE | UR | UE | UR | UE | UR | UE | UR | UE | UR | UE | UR | UE | UR | UE |
| | |  |  |  |  |  |  |  |  |  | | | | | | | | | | | |
| 2.0 m |  | - | - | - | - | 0.57 | 0.57 | 0.45 | 0.45 | 0.36 | 0.36 | 0.26 | 0.36 | 0.33 | 0.33 | 0.21 | 0.29 | - | - | - | - |
| |  | - | - | - | - | 0.44 | 0.44 | 0.44 | 0.44 | 0.33 | 0.33 | 0.26 | 0.36 | 0.20 | 0.20 | 0.20 | 0.29 | - | - | - | - |
| 1.0 m |  | 0.80 | 0.80 | 0.50 | 0.86 | 0.53 | 0.53 | 0.35 | 0.57 | 0.43 | 0.43 | 0.24 | 0.36 | 0.35 | 0.35 | 0.18 | 0.27 | 0.32 | 0.32 | 0.17 | 0.24 |
| |  | 0.76 | 0.76 | 0.48 | 0.86 | 0.50 | 0.50 | 0.34 | 0.57 | 0.30 | 0.30 | 0.24 | 0.35 | 0.23 | 0.23 | 0.18 | 0.26 | 0.21 | 0.21 | 0.16 | 0.23 |
| 0.0 m |  | 0.90 | 0.90 | 0.47 | 0.64 | 0.62 | 0.62 | 0.30 | 0.45 | 0.44 | 0.44 | 0.23 | 0.34 | 0.32 | 0.32 | 0.18 | 0.26 | 0.28 | 0.28 | 0.17 | 0.29 |
| |  | 0.57 | 0.57 | 0.44 | 0.64 | 0.39 | 0.45 | 0.30 | 0.44 | 0.29 | 0.29 | 0.22 | 0.33 | 0.22 | 0.22 | 0.17 | 0.26 | 0.21 | 0.21 | 0.16 | 0.23 |
| -0.75 m |  | 0.68 | 0.68 | 0.41 | 0.79 | 0.50 | 0.50 | 0.29 | 0.51 | 0.35 | 0.35 | 0.22 | 0.37 | 0.26 | 0.23 | 0.18 | 0.23 | - | - | - | - |
| |  | 0.56 | 0.56 | 0.39 | 0.77 | 0.38 | 0.39 | 0.29 | 0.51 | 0.28 | 0.28 | 0.21 | 0.37 | 0.26 | 0.23 | 0.17 | 0.23 | - | - | - | - |

| Bucket hinge height | | Load radius from center of ring gear | | | | | | | | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dipperstick 1150 mm | | 1.5 m | | | | 2.0 m | | | | 2.5 m | | | | 3.0 m | | | | 3.25 m | | | |
| | | UR | UE | UR | UE | UR | UE | UR | UE | UR | UE | UR | UE | UR | UE | UR | UE | UR | UE | UR | UE |
| | |  |  |  |  |  |  |  |  |  | | | | | | | | | | | |
| 2.0 m |  | - | - | - | - | - | - | - | - | 0.29 | 0.29 | 0.23 | 0.28 | 0.33 | 0.33 | 0.20 | 0.31 | - | - | - | - |
| |  | - | - | - | - | - | - | - | - | 0.28 | 0.28 | 0.23 | 0.28 | 0.23 | 0.23 | 0.20 | 0.31 | - | - | - | - |
| 1.0 m |  | 0.77 | 0.77 | 0.49 | 0.75 | 0.46 | 0.46 | 0.44 | 0.45 | 0.38 | 0.38 | 0.26 | 0.38 | 0.33 | 0.33 | 0.19 | 0.26 | - | - | - | - |
| |  | 0.56 | 0.56 | 0.49 | 0.75 | 0.42 | 0.42 | 0.44 | 0.45 | 0.30 | 0.30 | 0.26 | 0.38 | 0.23 | 0.23 | 0.19 | 0.26 | - | - | - | - |
| 0.0 m |  | 0.85 | 0.85 | 0.50 | 0.68 | 0.60 | 0.60 | 0.34 | 0.46 | 0.44 | 0.44 | 0.24 | 0.33 | 0.32 | 0.32 | 0.19 | 0.26 | 0.25 | 0.25 | 0.17 | 0.24 |
| |  | 0.54 | 0.54 | 0.49 | 0.68 | 0.38 | 0.38 | 0.34 | 0.45 | 0.29 | 0.29 | 0.24 | 0.32 | 0.21 | 0.21 | 0.19 | 0.24 | 0.18 | 0.18 | 0.16 | 0.24 |
| -0.75 m |  | 0.70 | 0.70 | 0.45 | 0.76 | 0.54 | 0.54 | 0.32 | 0.52 | 0.38 | 0.38 | 0.24 | 0.38 | 0.23 | 0.23 | 0.19 | 0.25 | - | - | - | - |
| |  | 0.52 | 0.52 | 0.44 | 0.72 | 0.38 | 0.38 | 0.32 | 0.52 | 0.26 | 0.26 | 0.23 | 0.38 | 0.23 | 0.23 | 0.19 | 0.24 | - | - | - | - |

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 tracks

Abbreviations: UR = Undercarriage retracted, UE = Undercarriage extended

WORK ATTACHMENTS

BUCKETS

| | |
|----------------------------|------------------------------------|
| Bucket, QAS | 250 mm wide, capacity 21 l, 27 kg |
| Bucket, QAS | 300 mm wide, capacity 26 l, 30 kg |
| Bucket, QAS | 400 mm wide, capacity 37 l, 35 kg |
| Bucket, QAS | 500 mm wide, capacity 48 l, 41 kg |
| Bucket, QAS | 600 mm wide, capacity 59 l, 46 kg |
| Ditch-cleaning bucket, QAS | 1000 mm wide, capacity 91 l, 79 kg |
| Swing bucket, QAS | 1000 mm wide, capacity 49 l, 79 kg |

GRABS

| | |
|--|--|
| Clamshell grab GL 1250, grab swing brake | set of shells 250 mm wide, capacity 45 l |
| Ejector | |

OTHER WORK ATTACHMENTS

| | |
|----------------------------------|---|
| Hydraulic hammer | Cutting unit |
| Augers | Quick-change adapter for hydraulic hammer |
| Bolt-on load hook for bucket rod | Further work attachments available on request |

OPTIONAL EQUIPMENT

CRAWLER CHAIN OPTIONS

Rubber tracks (long pitch), 230 mm wide

UNDERCARRIAGE

Hydraulically retractable/extendable undercarriage (990 – 1340 mm)

BOOM

Monobloc boom, with extended dipperstick 1150 mm

TRANSMISSION

2nd gear, travel speed 0 – 4.2 kph

HYDRAULIC SYSTEM

| | |
|--|---|
| Terex 'Fingertip' control (electro proportional) for additional control circuit for work attachments on right joystick, including holding function for continuous operation, actuation via rollers | Terex 'Fingertip' control (electro proportional) incl. second additional control circuit on left joystick, including holding function for continuous operation, actuation via rollers |
| Hose-rupture / load-retaining valves for boom and dipperstick cylinders | Biodegradable hydraulic oil / ester-based HLP 68 (Panolin) |
| Quick couplings for control circuit for work attachments (hammer hydraulics) incl. open return | Supplementary set "Clamshell grab opening / closing", without quick couplings, for standard dipperstick |
| Quick couplings for 2 nd additional control circuit | Quick couplings for supplementary set "Clamshell grab opening/closing" |

Fast / slow switch on dozer blade lever

OPERATOR'S STAND

Operator's seat (standard version), textile cover

CAB

| | |
|---|---------------------------------------|
| Rain guard | FOPS - skylight guard |
| Lighting package: Cab-mounted working floodlight front right and rear right, boom-mounted working floodlight, yellow beacon | Radio set installation kit (speakers) |
| Fire extinguisher, ABC powder 2 kg | |

OTHER OPTIONAL EQUIPMENT

| | |
|--|---|
| Mechanical quick-attach system | Crane lifting gear |
| Quick-attach system, mechanical (genuine Lehnhoff system), type MS01 or MS03 | Safety package: hose-rupture / load-retaining valves for boom and dipperstick cylinders, fire extinguisher, immobilizer, motion alarm |
| Back-up alarm, signal-horn (can be switched off) | Special colour options |
| Immobilizer, transponder key | |
| Further optional equipment available on request | |

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