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

**TC16-2**
**SPECIFICATIONS**

**ENGINE**
Manufacturer, model: Kubota, D722 Tier 4 Final
Type: 3-cylinder diesel engine
Bore x stroke: 67 x 68 mm
Displacement: 719 cm³
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, 1st gear: 2.2 kph
Travel speed, 2nd gear (optional): 4.2 kph
Forwards and backwards respectively. Manual switching via button on dozer lever.

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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
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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): 1460 mm
Number of rollers per side: 3
Track width: 760 – 1110 mm
Gradesability: max. 60%
Drawbar pull 1st 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: 55° / 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, 1st 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, 1st 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): 2921 mm
Total length (travel position): 3653 mm
Total height (top of canopy/cab): 2273 mm / 2291 mm
Total height (travel position): 2315 mm
Total height (top of canopy/cab): 990 – 1340 mm
Total length (undercarriage): 980 mm
Total width (undercarriage): 1295 mm
Total length (undercarriage): 1190 mm
Total width (undercarriage): 1255 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.**: 2220 / 2460* mm
Leading 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/cm²

* 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:
  - @ 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, slideable 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
WORKING RANGES & DIMENSIONS: MONOBLOC BOOM

DIMENSIONS

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

Fig. 3:
Transport position - trailer transport

Fig. 4:
Working envelope

Standard dipperstick 950 mm
Extended dipperstick 1150 mm (option)
LIFTING CAPACITIES

<table>
<thead>
<tr>
<th>Bucket hinge height</th>
<th>Dipperstick 850 mm</th>
<th>Load radius from center of ring gear</th>
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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

<table>
<thead>
<tr>
<th>Bucket, QAS</th>
<th>250 mm wide, capacity 21 l, 27 kg</th>
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<tbody>
<tr>
<td>Bucket, QAS</td>
<td>300 mm wide, capacity 26 l, 30 kg</td>
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<tr>
<td>Bucket, QAS</td>
<td>400 mm wide, capacity 37 l, 35 kg</td>
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<tr>
<td>Bucket, QAS</td>
<td>500 mm wide, capacity 48 l, 41 kg</td>
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<tr>
<td>Bucket, QAS</td>
<td>600 mm wide, capacity 59 l, 46 kg</td>
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<tr>
<td>Bucket, QAS</td>
<td>1000 mm wide, capacity 91 l, 79 kg</td>
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<tr>
<td>Swing bucket, QAS</td>
<td>1000 mm wide, capacity 49 l, 79 kg</td>
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</tbody>
</table>

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 (930 – 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
Hose-rupture / load-retaining valves for boom and dipperstick cylinders
Quick couplings for control circuit for work attachments (hammer hydraulics) incl. open return
Quick couplings for 2nd additional control circuit
Fast / slow switch on dozer blade lever

CAB
Rain guard
FOPS - skylight guard
Lighting package: Cab-mounted working floodlight front right and rear right, boom-mounted working floodlight, yellow beacon
Fire extinguisher, ABC powder 2 kg

OPERATOR’S STAND
Operator’s seat (standard version), textile cover

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)
Immobilizer, transponder key
Special colour options
Further optional equipment available on request

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