

MINI EXCAVATOR



The machine shown may include optional equipment.

Specifications

Operating weight 3570 kg

Engine power 22.8 kW (31.0 HP)

Bucket capacity 54 - 191 I

Digging depth 3.33 / 3.53 m

Reach 5.39 / 5.57 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)
- Increased productivity thanks to load sensing hydraulics
- ▶ Knickmatik® allows for working closely along walls
- ▶ Wide range of proven working tools

SPECIFICATIONS

ENGINE

Manufacturer, model	Kubota, D1803 M-DI, EU Stage IIIA
Туре	3-cylinder diesel engine
Combustion	4-stroke cycle with direct fuel injection (DI)
Bore x stroke	87 x 102 mm
Displacement	1826 cm ³
Power rating acc. to ISO 14396 @ 2200 rpm	22.8 kW (31.0 HP)
Torque max. @ 1400 rpm	114 Nm
Air filter with safety cartridge and maintenance switch	
Cold-starting aid	Glow plugs

ELECTRICAL SYSTEM

Nominal voltage	12 V
Battery	12 V / 71 Ah
Generator	12 V / 40 A
Starter	2.0 kW
Lighting system:	1 work light front left on the cab / canopy (auxiliary headlamps optional)

TRANSMISSION

Two-stage hydrostatic travel drive with axial piston variable displacement motor and reduction gear, fully enclosed. Automatic change-over between speed range I and II. "Straight-Trave!" function. Brake valve for downhill drive. Manual switching via button on dozer lever

Travel speed, forward and reverse 0 – 2.4/4.2 kph

UNDERCARRIAGE

Torsion-proof welded design. Crawler unit carriers in sloped design for dirt outlet. Maintenance-free crawler-type undercarriage. Idler suspension with hydraulic crawler-chain tensioning. Support roller at the top

Width rubber tracks	300 mm
Total length (undercarriage)	2090 mm
Number of rollers per side	4 at the bottom, 1 on top
Track width	1200 mm
Gradeability	max. 60%
Drawbar pull 1st / 2nd speed range	3560 / 2110 daN

STEERING

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

DOZER BLADE

1500 x 360 mm
300 mm
430 mm
35°

SWING SYSTEM

internally geared fing 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

. 2012 0111 11011120	
Fuel tank	68 I
Hydraulic system (incl. tank 28 I)	45 I

KNICKMATIK®

Lateral parallel adjustment of boom arrangement at full dig depth	
Angle of articulation / lateral adjustment left	57° / 400 mm
Angle of articulation / lateral adjustment right	60° / 570 mm

OPERATING DATA, STANDARD EQUIPMENT

OPERATING DATA, STANDARD EQU	IIPMENT
Operating weight according to ISO 6016: Cab with 400 mm bucket, quick-attach	
rubber tracks, including driver, full fuel tank	3570 kg
Operating weight according to ISO 6016: Canopy with 400 mm bucket, quick-atta	
rubber tracks, including driver, full fuel tank	3490 kg
Transport weight: Cab, tank half full, with quick-attach system, w/out bucket	3360 kg
Transport weight: Canopy, tank half full, with quick-attach system, w/out bucket	3280 kg
Total length (travel position)	3150 mm
Total length (trailer transport position)	5004 mm
Total height (top of canopy/cab)	2482 / 2500 mm
Total height (travel position)	3570 mm
Total width (undercarriage)	1500 mm
Total width of uppercarriage	1500 mm
Uppercarriage tail swing	1295 mm
Uppercarriage front swing	1595 mm
Working envelope, bucket heaped (also with 600 mm bucket):	
180°	2890 mm
360°	3190 mm
Swing clearance	550 mm
Reach max.**	5395 / 5575* mm
Digging depth max.**	3335 /3535* mm
Loading height approx.**	3200 / 3300* mm
Highest reachable height**	4675 / 4775* mm
Bucket rotation angle	187°
Bucket digging force acc. to ISO 6015	25,700 N
Stick digging force acc. to ISO 6015	15,700 N
Specific ground pressure:	
Excavator cpl. with rubber crawlers	0.29 daN/cm²
* with dipperstick 1800 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. 103 l/min Working pressure 250 bar

Single-stage, load-sensing controlled variable displacement axial piston 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

Powerful 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

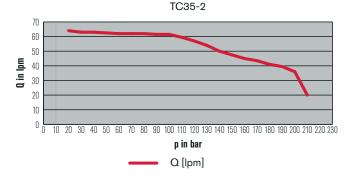
Additional control circuit as standard: Terex 'Fingertip' control (electro proportional) for additional control circuit for work attachments on right joystick, including holding function for continuous operation, actuation via rollers

Additional control circuit with bypass for pressure-reduced return quantity

Hydraulic power to the couplings (additional control circuit 1):

Pump capacity (pressure-controlled)	
up to approx. 100 bar	62 lpm
@ 210 bar	20 lpm
Max. working pressure	210 bar
Diagram shows D/O provided on counters:	

p/Q characteristic curve for additional control circuit 1



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

Sliding window on right-hand side

Matching locks of hood and ignition

Central connector for electrical cable

Wiper washer with wiper for windscreen

Sun visor, 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

Preparation for antenna, loudspeakers and radio

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

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:

Safety belt

Large 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 cab to canopy and vice-versa

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 95 / 95 dB (A) Noise emission cab L_{va} cab / canopy 78 / 79 dB (A)

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

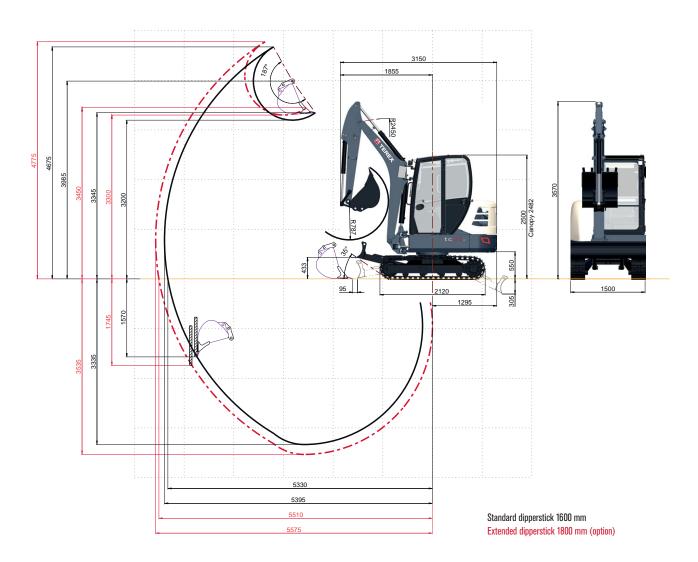
VIBRATION VALUES

Effective values of acceleration for whole body

Effective values of acceleration for hand-arm

less than 0.5 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

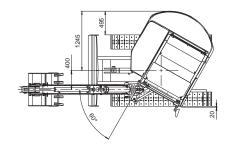
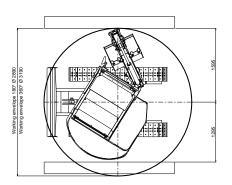
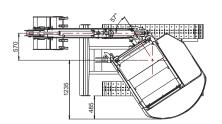


Fig. 3: Working envelope





LIFTING CAPACITIES

Bucket hinge height		Load radius from center of ring gear											
Dipperstick 1600 mm		2.0 m		2.5 m		3.0 m		3.5 m		4.0 m		4.5 m	
		Ü	#	Ů	-	Ů	"	ď	#	Ü	"	ď	#
0.0	12	-	-	-	-	1.03	0.98	0.96	0.66	0.89	0.55	-	-
2.0 m	1/1	-	-	-	-	0.96	0.97	0.90	0.64	0.80	0.53	-	-
1.0 m	13	-	1.40	1.77	1.01	1.33	0.79	1.09	0.63	0.91	0.51	0.76	0.43
1.0 m	1/1	-	1.35	1.64	0.98	1.22	0.77	0.97	0.61	0.77	0.50	0.64	0.42
0.0 m	13	-	1.30	1.81	0.93	1.39	0.74	1.11	0.60	0.89	0.49	0.72	0.41
0.0 M	1/1	-	1.23	1.57	0.90	1.18	0.71	0.94	0.58	0.75	0.48	0.64	0.39

Bucket hinge height		Load radius from center of ring gear											
Dipperstick 1800 mm		2.0 m		2.5 m		3.0 m		3.5 m		4.0 m		4.5 m	
		Ü	#	Ü		Ü		Ü	#	Ü		Ü	#
2.0 m	112	-	-	-	-	0.93	0.88	0.91	0.67	0.89	0.55	0.83	0.45
2.0 M	1/1	-	-	-	-	0.86	0.87	0.85	0.66	0.80	0.53	0.67	0.44
1.0 m	12	-	1.37	1.77	1.01	1.34	0.77	1.11	0.62	0.94	0.50	0.82	0.41
1.0 m	1/1	-	1.35	1.67	0.99	1.24	0.75	0.94	0.59	0.79	0.49	0.66	0.40
0.0 m	112	-	1.20	1.97	0.91	1.52	0.72	1.21	0.58	0.99	0.47	0.82	0.40
0.0 111	1/1	-	1.16	1.60	0.89	1.26	0.69	0.97	0.56	0.80	0.47	0.67	0.42

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

WORK ATTACHMENTS

BUCKETS

Bucket, QAS	300 mm wide, capacity 54 l, 67 kg
Bucket, QAS	400 mm wide, capacity 78 l, 78 kg
Bucket, QAS	500 mm wide, capacity 103 l, 89 kg
Bucket, QAS	600 mm wide, capacity 129 I, 98 kg
Bucket, QAS	700 mm wide, capacity 155 l, 109 kg
Ditch-cleaning bucket, QAS	1000 mm wide, capacity 145 l, 135 kg
Ditch-cleaning bucket, QAS	1300 mm wide, capacity 191 l, 164 kg
Swing bucket, QAS	1000 mm wide, capacity 145 l, 194 kg
Swing bucket, QAS	1300 mm wide, capacity 191 l, 228 kg

GRABS

Clamshell grab GL 1250, grab swing brake	set of shells 250 mm wide, capacity 45 l
Clamshell grab GL 1350, grab swing brake	set of shells 350 mm wide, capacity 65 I
Clamshell grab GL 1450, grab swing brake	set of shells 450 mm wide, capacity 85 l
Clamshell grab GL 1600, grab swing brake	set of shells 600 mm wide, capacity 115 I
Eigetor	

OTHER WORK ATTACHMENTS

Cutting unit
Quick-change adapter for hydraulic hammer
Bolt-on load hook for bucket rod



OPTIONAL EQUIPMENT

BOOM OPTIONS

Monobloc boom, with extended dipperstick 1800 mm

HYDRAULIC SYSTEM

Terex 'Fingertip' control (electro proportional)
for 2nd additional control circuit for work attachments on left joystick, actuation via rollers (boom with standard dipperstick)

Quick couplings for work attachments

Quick couplings for supplementary set

Quick couplings for supplementary set

Biodegradable hydraulic oil / ester-based HLP 68

"Clamshell grab opening/closing"

(Panolin)

OPERATOR'S STAND

Hose-rupture / load-retaining valve for boom

Operator's seat (comfort version), hydraulic damping, extra-high backrest, longitudinal-horizontal suspension, mechanical lumbar support

dipperstick

Hose-rupture / load-retaining valve for

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

CAB

Rain guard

Lighting package: Cab-mounted working flood-light front right and rear right, boom-mounted working floodlight, yellow beacon

Fire extinguisher, ABC powder 2 kg

Back-up alarm, signal-horn (can be switched off)

Guard for front window

OTHER OPTIONAL EQUIPMENT

Mechanical quick-attach system

Quick-attach system, mechanical
(genuine Lehnhoff system), type MSO3

Crane loading wire-rope harness

Electric refueling pump

Special colour options
Canopy with working floodlight
(weight reduction: 80 kg)

Immobilizer

Safety package: hose-rupture / load-retaining

Safety package: hose-rupture / load-retaining valves for boom and dipperstick cylinders, fire extinguisher, immobilizer, motion alarm

Battery master switch

Further optional equipment available on request

www.terex.com/construction

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