

# Mini Excavator



#### **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

## **SPECIFICATIONS**

## **ENGINE**

Manufacturer, model	Kubota, D722 Tier 4 final
Туре	3-cylinder diesel engine
Bore x stroke	67 x 68 mm
Displacement	719 cm <sup>3</sup>
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.

## **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 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 I
Hydraulic syste	m (incl. tank	21 I)		26 I

#### **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**

UPENAIING DAIA, SIANDAND EŲ	<b>UILIMIEM</b>
Operating weight according to ISO 6016: Cab with 400 mm bucket, quick-attact 1st additional control circuit, rubber tracks, including driver, full fuel tank	:h system, 1650 kg
Operating weight according to ISO 6016: Canopy with 400 mm bucket, quick-a	ŭ
1st additional control circuit, rubber tracks, including driver, full fuel tank	ttacii system, 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	ŭ
Total length (travel position)	2621 mm
Total length (trailer transport position)	3653 mm
	2273 mm / 2291mm
Total height (top of canopy/cab)	2213 IIIII 7 229 IIIIII 2315 mm
Total height (travel position)	2010
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):	0000
180° 360°	2388 mm 2596 mm
•••	443 mm
Swing clearance 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/cm²

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

\* with dipperstick 1150 mm (optional)



#### **HYDRAULIC SYSTEM**

Pump capacity, max.33 l/minWorking pressure220 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 instal-

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  $L_{vA}$  cab / canopy 80 / 80 dB (A)

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

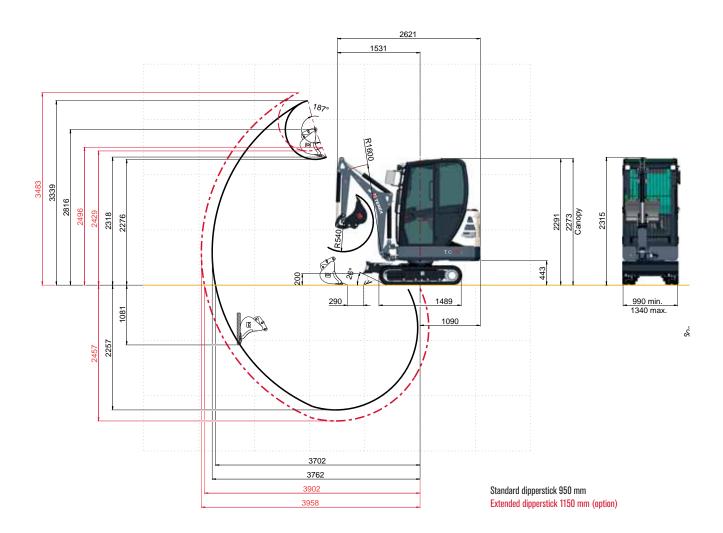
## VIBRATION VALUES

Effective values of acceleration for whole body

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

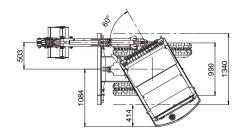
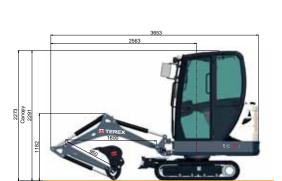


Fig. 3: Transport position - trailer transport



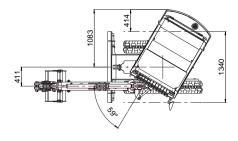
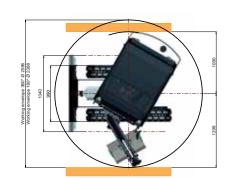


Fig. 4: Working envelope



## **LIFTING CAPACITIES**

Bucket hinge	e height								Load rad	center of ring gear											
Dipperstick 9	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
	ď		4		<u>+</u>		뤡	⇒	ď	•	렉	<b>‡</b>	ď	j	=	<b>‡</b>	ţ	•	=	<b>‡</b>	
0.0	11	-	-	-	-	0.57	0.57	0.45	0.45	0.36	0.36	0.26	0.36	0.33	0.33	0.21	0.29	-	-	-	-
2.0 m	1/1	-	-	-	-	0.44	0.44	0.44	0.44	0.33	0.33	0.26	0.36	0.20	0.20	0.20	0.29	-	-	-	-
4.0	1	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
1.0 m	1/1	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	1 D	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
0.0 m	1/1	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	112	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	-	-	-	-
-0.75 m	1/1	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 hing	e height					Load radius from cent										n center of ring gear								
Dipperstick 1	150 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			
	<b>₽</b> <del>=</del> □		٦	<b>₽</b>		⇒	·		4		·		<del></del>		ď		=							
0.0	1D	-	-	-	-	-	-	-	-	0.29	0.29	0.23	0.28	0.33	0.33	0.20	0.31	-	-	-	-			
2.0 m	1/1	-	-	-	-	-	-	-	-	0.28	0.28	0.23	0.28	0.23	0.23	0.20	0.31	-	-	-	-			
4.0	·B	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	-	-	-	-			
1.0 m	1/1	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	·B	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			
0.0 m	1/1	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	13	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	-	-	-	-			
-0.75 m	1/1	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 I, 27 kg
Bucket, QAS	300 mm wide, capacity 26 I, 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 I, 46 kg
Ditch-cleaning bucket, QAS	1000 mm wide, capacity 91 I, 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)

incl. second additional control circuit on left

ous operation, actuation via rollers

shell grab opening/closing"

dipperstick

joystick, including holding function for continu-

Biodegradable hydraulic oil / ester-based HLP 68

Supplementary set "Clamshell grab opening /

closing", without quick couplings, for standard

Quick couplings for supplementary set "Clam-

#### 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 Terex 'Fingertip' control (electro proportional) 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

Quick couplings for 2<sup>nd</sup> additional control circuit

Fast / slow switch on dozer blade lever

OPERATOR'S STAND

Operator's seat (standard version), textile cover

#### CAB

Rain guard

Lighting package: Cab-mounted working floodlight front right and rear right, boom-mounted

working floodlight, yellow beacon Fire extinguisher, ABC powder 2 kg FOPS - skylight guard

Radio set installation kit (speakers)

## OTHER OPTIONAL EQUIPMENT

Mechanical quick-attach system

Ouick-attach system, mechanical (genuine Lehnhoff system), type MSO1 or MSO3 Crane lifting gear

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

#### www.terex.com/construction

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