

COMPACT CRAWLER EXCAVATOR

EXC001-18PRO

Excavator PRO

Product Technology & Selection Manual

A 1,800 kg crawler excavator with a Kubota D722 diesel engine, hydraulic pilot operation, rubber tracks and an included 400 mm toothed bucket.

1,800 KG

10.2 kW • 0.04 m³



MANUAL MAP

Contents

Product facts, structure, configuration and selection

03

Technical Specifications

Core product and configuration data

04

Dimensions & Working Range

Overall dimensions and working range

05

Machine Overview

Complete machine views and component details

06

Major Machine Assemblies

Visible assemblies and product structure

07

Power, Hydraulics & Crawler Mobility

Power, hydraulic and mobility architecture

08

Operator Station & Interfaces

Open operator station and visible control interfaces

09

Standard & Optional Configuration

Standard and optional configuration boundary

10

Application Fit

Application contexts and selection focus

11

Optional Attachment Range 1

Optional work tools and their intended functions

12

Optional Attachment Range 2

Optional work tools and their intended functions

13

Attachment Selection Guide

Task-to-tool compatibility checkpoints

14

Selection Summary

Configuration and application checklist

Product code EXC25OLD181

Technical Specifications

Core product and configuration data

OPERATING WEIGHT

1,800 kg

RATED POWER

10.2 kW

BUCKET CAPACITY

0.04 m³

OVERALL WIDTH

1,110 mm

GROUP	SPECIFICATION	VALUE
machine	Operating weight	1,800 kg
engine	Standard engine	Kubota D722 diesel engine
	Rated power	10.2 kW
controls	Control type	Hydraulic pilot operation
undercarriage	Track type	Rubber tracks
operator	Operator station	Open operator station with roof
work_tool	Included work tool	Included 400 mm toothed bucket
	Bucket capacity	0.04 m³
supplied_items	Included items	Tool box and filter set
options	Machine options	Telescopic undercarriage; steel tracks; cabin
color	Standard colors	Red / Yellow / Blue
	Custom colors	Supported

Dimensions & Working Range

Overall dimensions and working envelope



DIMENSION / RANGE	VALUE	SELECTION RELEVANCE
Overall length	3,300 mm	Assess the overall machine footprint and approach space.
Overall width	1,110 mm	Check gates, paths and restricted access points.
Overall height	2,250 mm	Check overhead and doorway clearance.
Maximum digging height	3,310 mm	Compare with the required above-ground work envelope.
Maximum dumping height	2,370 mm	Compare with the intended placement or receiving height.
Maximum digging depth	2,120 mm	Compare with the required trench or excavation depth.
Maximum digging radius	3,640 mm	Compare with the required horizontal work envelope.

Machine Overview

Complete machine profile and component details

The articulated boom, stick, hydraulic cylinders and toothed bucket form the front work group. Rubber tracks and the front dozer blade support the compact-site tasks illustrated in this manual.



Boom assembly

Boom plate, pivot points and routed lines at the front work group.



Boom base pivot

Visible boom-base pin and bracket interface above the upper carriage.

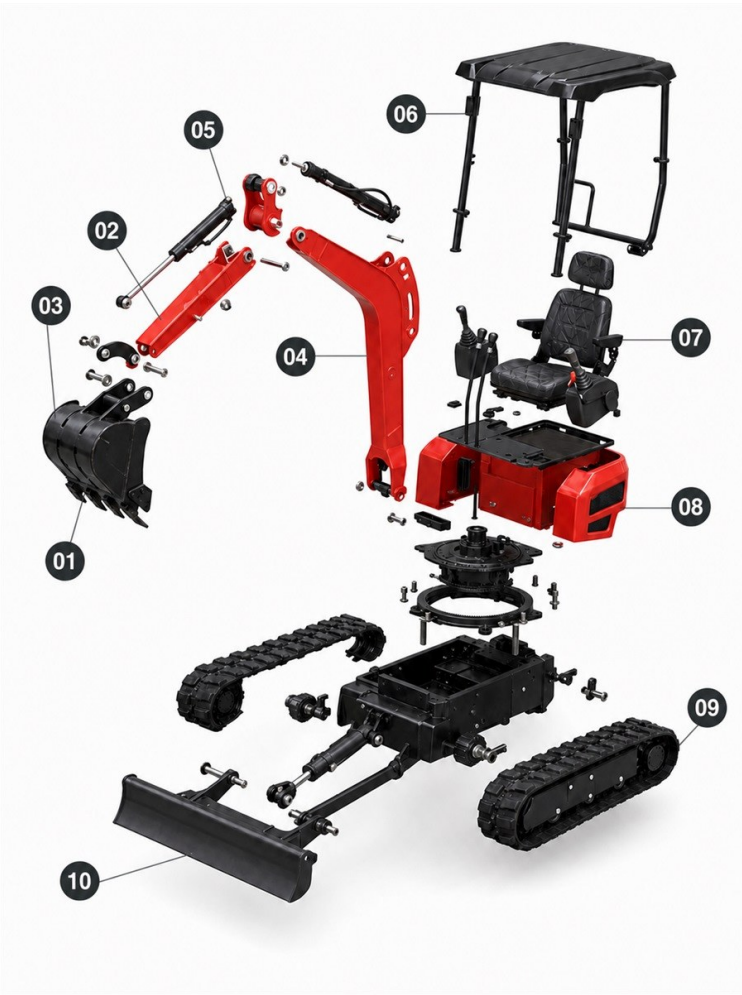


Digging bucket

Toothed digging bucket and linkage at the work end.

Major Machine Assemblies

Main assemblies and their functional roles



NO.	ASSEMBLY	ROLE
01	Bucket Assembly	Forms the soil-engaging work end for excavation and material pickup.
02	Dozer Blade Connection Mechanism	Connects the front blade with its visible actuation linkage.
03	Stick Cylinder	Moves the stick through extension and retraction within the front work group.
04	Boom Assembly	Carries the principal lifting structure between the upper carriage and work end.
05	Working-Device Hydraulic Cylinder	Provides hydraulic movement for the articulated front work group.
06	Canopy Assembly	Defines the roofed open operator station shown on the machine.
07	Seat & Control System	Combines the seat and hydraulic pilot control interfaces.
08	Upper-Carriage Slewing Platform	Carries the upper machine assemblies above the undercarriage.
09	Track Undercarriage Assembly	Provides crawler ground contact through the rubber-track configuration.
10	Dozer Blade	Provides the front blade edge for suitable grading and backfill work.

Power, Hydraulics & Crawler Mobility

Power, work-group and crawler details



POWER PACKAGE

Kubota D722 diesel engine

The standard power package is rated at 10.2 kW. The rear detail shows the vented engine-side enclosure.



HYDRAULIC WORK GROUP

Hydraulic pilot operation

Hydraulic pilot controls operate the machine; the component view shows routing along the front work group.



BLADE ACTUATION

Front dozer blade

The blade and its visible linkage support suitable leveling and backfill tasks.



CRAWLER GROUND CONTACT

Rubber-track undercarriage

The standard rubber-track configuration provides the crawler ground-contact interface.

Operator Station & Interfaces

Visible station and interface configuration

The standard configuration uses hydraulic pilot operation at a roofed open operator station. An enclosed cabin is listed separately as an option.



Front view

Front view showing the roofed open operator station above the blade.



Rear-left view

Rear-left view showing station access and the upper-carriage profile.

OPERATOR STATION

Roofed open configuration

CONTROL TYPE

Hydraulic pilot operation

CABIN OPTION

Specify separately if required

Standard & Optional Configuration

Base configuration and orderable choices

STANDARD CONFIGURATION	DESCRIPTION
Standard engine	Kubota D722 diesel engine
Rated power	10.2 kW
Control type	Hydraulic pilot operation
Track type	Rubber tracks
Operator station	Open operator station with roof
Included work tool	Included 400 mm toothed bucket
Bucket capacity	0.04 m³
Included items	Tool box and filter set
Standard colors	Red / Yellow / Blue

OPTIONAL CONFIGURATION	DESCRIPTION
Machine options	Telescopic undercarriage; steel tracks; cabin
Custom colors	Supported



DEFINE THE ORDER FROM THE BASE MACHINE

BASE MACHINE	Kubota D722, hydraulic pilot operation and rubber tracks
MACHINE OPTIONS	Telescopic undercarriage, steel tracks and cabin
COLOR CHOICE	Red, yellow or blue; custom colors supported

Optional undercarriage, cabin and color choices must be stated in the written order. Optional items are not presented as standard equipment.

Application Fit

Application context and selection checkpoints

**APPLICATION SCENE****Farmland irrigation channel**

The machine is shown opening an irrigation channel across farmland. Confirm soil conditions and the required channel geometry.

**APPLICATION SCENE****Municipal planting pits**

The machine is shown excavating planting pits in municipal green space. Confirm access and the intended pit envelope.

**APPLICATION SCENE****Courtyard soil loading**

The machine is shown loading soil during residential courtyard work. Confirm access width and the intended receiving vehicle.

**APPLICATION SCENE****Warehouse-side utility trench**

The machine is shown cutting a utility trench beside warehouse access. Confirm underground services and trench requirements.

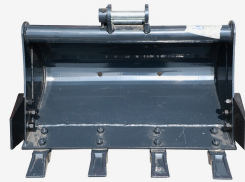
11 — ATTACHMENTS

Optional Attachment Range 1

Optional work tools; confirm fitment in writing

**Screening Bucket**

The slotted bucket separates finer soil from larger stones and debris during loading and sorting.

**Toothed Digging Bucket**

The toothed cutting edge penetrates firm ground for digging and material pickup.

**Clamshell Bucket**

Opening jaws grip loose soil and bulk material for controlled pickup and placement.

**Compact Digging Bucket**

A compact shell supports general digging and soil handling where working space is limited.

**Ditch Cleaning Bucket**

The wide smooth-edge profile grades trench floors and clears loose material.

**Earth Auger**

The spiral tool opens round holes for planting, posts and similar ground preparation.

**Hydraulic Breaker**

The hydraulic impact tool applies concentrated blows to suitable hard material.

**Hydraulic Quick Coupler**

Hydraulic locking supports efficient tool changes when correctly fitted.

**Hydraulic Thumb**

The powered jaw holds material against the bucket for controlled handling.

Confirm mounting geometry, mass and hydraulic requirements before an attachment is included in the written order.

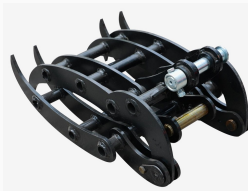
12 — ATTACHMENTS

Optional Attachment Range 2

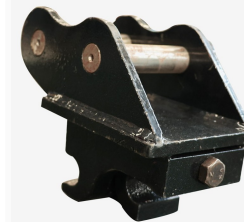
Optional work tools; confirm fitment in writing

**Hydraulic Tilt Bucket**

Hydraulic tilt changes the bucket angle for shaping slopes and grading.

**Log Grapple**

Curved gripping arms secure logs and branches for controlled handling.

**Mechanical Quick Coupler**

A mechanical locking body supports attachment changes without a hydraulic locking circuit.

**Mechanical Thumb**

The fixed opposing jaw holds irregular material against the bucket during handling.

**Narrow Digging Bucket**

The narrow profile cuts compact trenches and channels with limited disturbed width.

**Pallet Forks**

Twin fork tines support suitable palletized or bundled loads for site handling.

**Rake Attachment**

Spaced tines gather roots, branches and loose debris while finer soil can pass through.

**Ripper Attachment**

A reinforced tooth loosens compacted ground, roots and hard layers before excavation.

Confirm mounting geometry, mass and hydraulic requirements before an attachment is included in the written order.

Attachment Selection Guide

Choose by task, then verify interface requirements

ATTACHMENT	PRIMARY TASK	VERIFY
Screening Bucket	The slotted bucket separates finer soil from larger stones and debris during loading and sorting.	Mounting geometry, load, material and delivery scope
Toothed Digging Bucket	The toothed cutting edge penetrates firm ground for digging and material pickup.	Width, mounting geometry and written status versus the standard 400 mm bucket
Clamshell Bucket	Opening jaws grip loose soil and bulk material for controlled pickup and placement.	Mounting geometry, hydraulic demand, material and delivery scope
Compact Digging Bucket	A compact shell supports general digging and soil handling where working space is limited.	Width, mounting geometry, clearance and delivery scope
Ditch Cleaning Bucket	The wide smooth-edge profile grades trench floors and clears loose material.	Width, mounting geometry, material and delivery scope
Earth Auger	The spiral tool opens round holes for planting, posts and similar ground preparation.	Drive interface, hydraulic demand, bit choice and delivery scope
Hydraulic Breaker	The hydraulic impact tool applies concentrated blows to suitable hard material.	Flow, pressure, mounting geometry and delivery scope
Hydraulic Quick Coupler	Hydraulic locking supports efficient tool changes when correctly fitted.	Hydraulic circuit, locking method, pin geometry and delivery scope
Hydraulic Thumb	The powered jaw holds material against the bucket for controlled handling.	Hydraulic demand, mounting positions, bucket geometry and delivery scope
Hydraulic Tilt Bucket	Hydraulic tilt changes the bucket angle for shaping slopes and grading.	Hydraulic demand, mounting geometry, width and delivery scope
Log Grapple	Curved gripping arms secure logs and branches for controlled handling.	Mounting geometry, hydraulic demand, load and delivery scope
Mechanical Quick Coupler	A mechanical locking body supports attachment changes without a hydraulic locking circuit.	Pin geometry, locking method and delivery scope
Mechanical Thumb	The fixed opposing jaw holds irregular material against the bucket during handling.	Mounting positions, bucket geometry and delivery scope
Narrow Digging Bucket	The narrow profile cuts compact trenches and channels with limited disturbed width.	Mounting geometry, width, clearance and delivery scope
Pallet Forks	Twin fork tines support suitable palletized or bundled loads for site handling.	Mounting geometry, rated load, stability and delivery scope
Rake Attachment	Spaced tines gather roots, branches and loose debris while finer soil can pass through.	Mounting geometry, width, material and delivery scope
Ripper Attachment	A reinforced tooth loosens compacted ground, roots and hard layers before excavation.	Mounting geometry, material condition and delivery scope

SELECTION RULE

Define task, interface, hydraulic demand and intended configuration before order confirmation.

Selection Summary

A practical product-configuration checklist

DECISION FACTOR	PRODUCT BASIS	USE IN SELECTION
Machine class	1,800 kg operating weight	Compare the machine class with the intended task and site constraints.
Overall envelope	3,300 × 1,110 × 2,250 mm	Check access width, overhead clearance and the total machine footprint.
Working range	3,310 / 2,370 / 2,120 / 3,640 mm	Compare digging height, dumping height, digging depth and digging radius with the task.
Standard work tool	400 mm toothed bucket; 0.04 m³	Confirm the standard bucket against the intended material and excavation width.
Ground and station	Rubber tracks; roofed open operator station	Confirm the ground-contact and operator-station configuration for the site.
Power and controls	Kubota D722; 10.2 kW; hydraulic pilot operation	Confirm the standard power and control configuration for the intended work.
Machine options	Telescopic undercarriage, steel tracks and cabin	Define every required machine option explicitly before order confirmation.
Attachments	17 optional work tools	Confirm interface, hydraulic demand and delivery scope in writing.



CONFIGURE IN FIVE DECISIONS

- 01

Site access

Check the 1,110 mm width, 2,250 mm height and total approach space.
- 02

Task envelope

Match the four working-range values with the intended work geometry.
- 03

Power and controls

Use the Kubota D722 and hydraulic pilot operation as the standard baseline.
- 04

Machine options

Specify the required undercarriage, cabin and color choices in writing.
- 05

Attachment choice

Select by task and confirm interface, hydraulic demand and delivery scope.

WHY SELECT EXC001-18PRO

- 1

1,800 kg crawler configuration with rubber tracks.
- 2

Kubota D722 diesel power package rated at 10.2 kW.
- 3

Overall dimensions and four working-range values support site-fit comparison.
- 4

Hydraulic pilot operation at a roofed open operator station.
- 5

Machine options and optional work tools can be defined before ordering.