

COMPACT CRAWLER EXCAVATOR

EXC001-30PRO

Excavator PRO

Product Technology & Selection Manual

A 3,000 kg compact crawler excavator with a Kubota D1703 diesel engine, 18.2 kW rated power, load-sensing hydraulics, hydraulic pilot operation and rubber-track ground contact.

3000 KG

18.2 kW • 430 mm



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Product code EXC25OLD301

Technical Specifications

Core product and configuration data

OPERATING WEIGHT

3000 kg

RATED POWER

18.2 kW

OVERALL WIDTH

1550 mm

STANDARD BUCKET WIDTH

430 mm

GROUP	SPECIFICATION	VALUE
Machine	Operating weight	3000 kg
Engine	Standard engine	Kubota D1703 diesel engine
	Rated power	18.2 kW
	Engine type	Diesel engine
Options	Listed engine choices	Kubota D1703 18.2 kW
	Optional cab configurations	Yes
	Optional configuration	Steel tracks; Cabin; AC
Hydraulics	Hydraulic system	Load-sensing hydraulic system
Travel	Travel speed modes	High / Low
Controls	Control type	Hydraulic pilot operation
Undercarriage	Track type	Rubber track
Operator Station	Operator station	Roofed open operator station
Work Tool	Standard bucket width	430 mm
Included Items	Included items	Tool box; set of filters
Color	Standard colors	Blue; Yellow; Red
	Custom colors	Yes

Dimensions & Working Range

Overall dimensions and working envelope



DIMENSION / RANGE	VALUE	SELECTION RELEVANCE
Overall length	4300 mm	Assess the total machine footprint and approach space.
Overall width	1550 mm	Check gates, paths and restricted access points.
Overall height	2350 mm	Check overhead and doorway clearance.
Maximum digging height	4600 mm	Compare with the required above-ground work envelope.
Maximum dumping height	3175 mm	Compare with the intended placement or receiving height.
Maximum digging depth	2880 mm	Compare with the required trench or excavation depth.
Maximum digging radius	4965 mm	Compare with the required horizontal work envelope.

05 — MACHINE OVERVIEW

Machine Overview

Complete machine profile and component details

The complete machine profile combines an articulated front work group, toothed digging bucket, roofed open operator station, crawler undercarriage and front dozer blade.



Boom cylinder

Visible boom cylinder and routed hydraulic connections.



Digging bucket

Close view of the toothed digging bucket and linkage geometry.

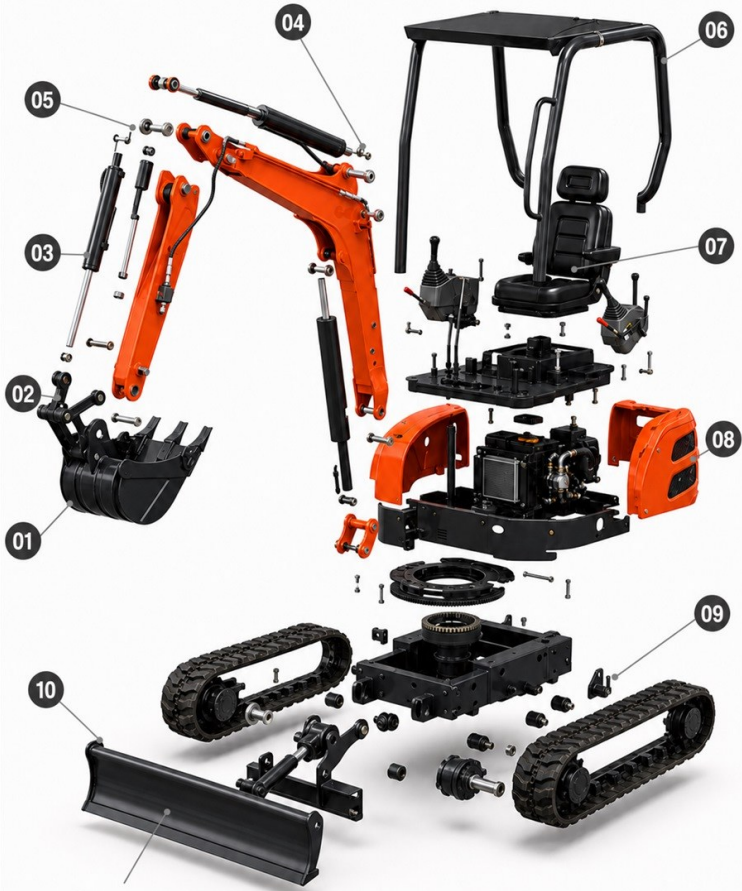


Rear cooling grille

Rear-side enclosure and visible cooling grille.

Major Machine Assemblies

Main assemblies and their functional roles



NO.	ASSEMBLY	ROLE
01	Digging Bucket	Number 01 identifies the toothed soil-engaging bucket body.
02	Bucket Linkage	Number 02 identifies the visible linkage between the bucket and front work group.
03	Lower Work-Group Cylinder	Number 03 identifies the lower hydraulic cylinder shown beside the front work group.
04	Upper Cylinder Joint	Number 04 identifies the upper hydraulic-cylinder joint hardware visible in the exploded view.
05	Front-Group Pivot Hardware	Number 05 identifies the visible pivot pin and retaining hardware at the front work group.
06	Roof Frame	Number 06 identifies the roof frame surrounding the open operator station.
07	Seat and Control Modules	Number 07 identifies the operator seat and the adjacent control modules.
08	Side Enclosure Panels	Number 08 identifies the removable side panels surrounding the power enclosure.
09	Crawler-Frame Hardware	Number 09 identifies the visible mounting hardware beside the lower crawler frame.
10	Dozer Blade Assembly	Number 10 identifies the front blade and its mounting linkage.

Power, Hydraulics & Crawler Mobility

Power, work-group and crawler details



POWER PACKAGE

Kubota D1703 diesel engine

The standard power package is rated at 18.2 kW; the image identifies the rear cooling grille and enclosure.



HYDRAULIC ARCHITECTURE

Load-sensing hydraulic system

The confirmed load-sensing system works with hydraulic pilot operation; the image shows boom actuation hardware.



OPERATOR INTERFACE

Foot-pedal control area

The image identifies the operator foot pedals and adjacent floor area at the roofed open station.



FRONT WORK SUPPORT

Dozer blade and work group

The front blade and articulated work group support the listed compact-site application contexts.

Operator Station and Interfaces

Visible station and interface configuration

The standard configuration is a roofed open operator station with hydraulic pilot operation. A cabin and air conditioning are listed separately as options.



Front station view

Front view showing machine width, blade and roofed open station.



Rear-left station view

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

OPERATOR STATION

Roofed open configuration

CONTROL TYPE

Hydraulic pilot operation

CABIN CHOICE

Optional; AC is listed

Standard & Optional Configuration

Base configuration and orderable choices

STANDARD CONFIGURATION	DESCRIPTION
Standard engine	Kubota D1703 diesel engine
Rated power	18.2 kW
Hydraulic system	Load-sensing hydraulic system
Travel speed modes	High / Low
Control type	Hydraulic pilot operation
Track type	Rubber track
Operator station	Roofed open operator station
Standard bucket width	430 mm
Included items	Tool box; set of filters

OPTIONAL CONFIGURATION	DESCRIPTION
Listed engine choices	Kubota D1703 18.2 kW
Optional cab configurations	Yes
Optional configuration	Steel tracks; Cabin; AC
Custom colors	Yes



DEFINE THE ORDER FROM THE BASE MACHINE

STANDARD POWER	Kubota D1703 diesel engine, 18.2 kW
STANDARD MOBILITY	High / Low travel with rubber tracks
ORDER CHOICES	Steel tracks, cabin, AC and color

State the selected cabin, air-conditioning, track and color choices in the written order.

Application Fit

Application context and selection checkpoints



RESTRICTED-AREA WORK

Bucket and blade control

The illustrated site shows the bucket and blade working inside a compact envelope. Check the 1,550 mm overall width and required approach space.



GARDEN RENEWAL

Controlled soil loading

The illustrated garden work pairs compact access with controlled soil handling. Check surface conditions and required reach before selection.



DRAINAGE WORK

Ditch cleaning with clear reach

Drainage and water-conservancy work requires comparison of ditch geometry with the 2,880 mm maximum digging depth and 4,965 mm radius.



UTILITY-ROUTE WORK

Precise trenching

Municipal and construction work can require controlled trench routing. Verify underground services, access and the complete work envelope.

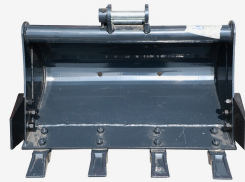
11 — ATTACHMENTS

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 supports digging and material pickup in suitable ground.

**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 supports trench-floor grading and loose-material clearing.

**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.

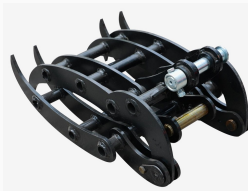
12 — ATTACHMENTS

Optional Attachment Range 2

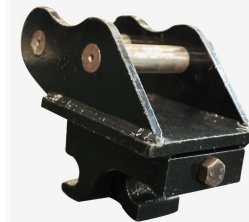
Optional work tools; confirm fitment in writing

**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 supports digging and material pickup in suitable ground.	Width, mounting geometry and written status versus the standard 430 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 supports trench-floor grading and loose-material clearing.	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	3,000 kg operating weight	Compare the machine class with the intended task and site constraints.
Overall envelope	4,300 x 1,550 x 2,350 mm	Check access width, overhead clearance and total machine footprint.
Working range	4,600 / 3,175 / 2,880 / 4,965 mm	Compare digging height, dumping height, digging depth and radius with the task.
Power package	Kubota D1703; 18.2 kW	Confirm the standard engine and rated power for the intended work.
Hydraulics and controls	Load-sensing system; hydraulic pilot	Confirm the hydraulic and control configuration for the selected task.
Crawler mobility	High / Low travel; rubber track	Compare travel-mode, access-width and ground-contact needs.
Standard bucket	430 mm width	Confirm the standard bucket against the intended material and cut width.
Order choices	Steel tracks, cabin, AC, color and 17 tools	Define every required option and attachment in writing before order confirmation.



CONFIGURE IN FIVE DECISIONS

- 01

Site access

Check the 1,550 mm width, 2,350 mm height and total approach space.
- 02

Task envelope

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

Power and hydraulics

Use the Kubota D1703, 18.2 kW and load-sensing system as the baseline.
- 04

Mobility and station

Confirm travel modes, track type and operator-station choice.
- 05

Options and tools

Specify cabin, AC, track, color and attachment choices in writing.

WHY SELECT EXC001-30PRO

- 1

3,000 kg operating weight with a 1,550 mm overall width.
- 2

Kubota D1703 standard engine rated at 18.2 kW.
- 3

Load-sensing hydraulics with hydraulic pilot operation.
- 4

High / Low travel modes with rubber-track ground contact.
- 5

Cabin, AC, steel-track, color and listed work-tool choices can be defined before ordering.