

COMPACT CRAWLER EXCAVATOR

EXC001-12PRO

Excavator PRO

Product Technology & Selection Manual

A compact 1.2-ton crawler excavator for trenching, planting, courtyard renovation and residential drainage work.

1,200 kg OPERATING WEIGHT

Load-sensing hydraulics • Rubber tracks • 400 mm toothed bucket



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Product code EXC25OLD121

Technical Specifications

Machine and system data at a glance

OPERATING WEIGHT

1200 kg

RATED POWER

7.6 kW

STANDARD BUCKET

400 mm

TRAVEL MODES

HIGH / LOW

MACHINE & POWER		SPECIFICATION	
Display name		Excavator PRO	
Model		EXC001-12PRO	
Operating weight		1200 kg	
Standard engine		Koop 192 diesel engine	
Rated power		7.6 kW	
Control type		Mechanical controls	
Track type		Rubber track	
Operator station		Open canopy	
Standard bucket		400 mm toothed bucket	
Front equipment		Dozer blade	

SYSTEM & SUPPLY		SPECIFICATION	
Hydraulic architecture		Load-sensing hydraulic system	
Travel selection		High / low travel speed	
Digging group		Boom, dipper, cylinders and bucket	
Ground support		Twin-track undercarriage	
Included service item		One filter set	
Included tool item		One tool box	
Standard colours		Blue / Yellow / Red	
Custom colour		Supported	
Engine families		Diesel / gasoline	
Cab alternatives		No optional cab listed	
Attachment provision		17 listed optional tools	

POWER PACKAGE		FUEL FAMILY	RATING	CONFIGURATION ROLE
Koop 192 diesel engine		Diesel	7.6 kW	Standard
KOOP 192F		Diesel	7 kW	Optional
Briggs & Stratton 420 cc		Gasoline	13.5 hp	Optional

Machine Envelope & Working Range

Declared dimensions, bucket capacity and digging geometry

OVERALL LENGTH

2790 mm

OVERALL WIDTH

850 mm

OVERALL HEIGHT

1990 mm

BUCKET CAPACITY

0.022 m³



COMPLETE RIGHT-SIDE VIEW

WORKING RANGE	VALUE
Maximum digging height	2775 mm
Maximum dumping height	1835 mm
Maximum digging depth	1670 mm
Maximum digging radius	3075 mm

SELECTION USE

Use the 850 mm machine width for access screening, the 1990 mm height for clearance planning and the listed digging values when matching the excavator to trench geometry and material placement.

CONFIGURATION CHECK Verify the ordered attachment and optional configuration against actual site access and working-clearance requirements.

05 — MACHINE OVERVIEW

External Form & Product Details

One complete machine view supported by non-repeating details

The articulated boom, dipper and toothed bucket form the digging group; the rubber-track undercarriage and front blade support positioning, backfilling and light grading.



COMPLETE FRONT-LEFT VIEW



WORK EQUIPMENT

Boom base pivot

Pinned articulation at the base of the front work group.



BUCKET LINKAGE

Pinned digging-group geometry

Bucket connection and linkage geometry shown in detail.



POWER ENCLOSURE

Rear ventilation grille

Ventilated rear enclosure serving the engine-side area.

Major Machine Assemblies

Seven visible groups indexed to the product structural diagram



NO.	ASSEMBLY	ROLE
01	Boom and dipper assembly	Carries the digging tool and transmits hydraulic motion
02	Toothed digging bucket	Soil engagement, digging and material pickup
03	Cylinder and hose group	Hydraulic movement for the front work group
04	Canopy and seat assembly	Open operator station with direct work-area visibility
05	Rear engine hood	Encloses the visible engine-side area
06	Upper slewing frame	Connects work group, station and rear enclosure
07	Tracks and dozer blade	Travel, ground contact, grading and backfill support

FUNCTIONAL GROUP	ASSEMBLIES	SELECTION VALUE
Digging group	01–03	Defines excavation, bucket motion and hydraulic articulation
Control station	04	Open sight lines with centralized mechanical controls
Upper structure	05–06	Encloses equipment and connects to the slewing center
Ground support	07	Track contact, travel, grading and compact positioning

The numbered groups provide a consistent guide for product recognition, configuration review and attachment planning.

07 — SYSTEMS

Power & Hydraulic Architecture

System identity and visible machine interfaces

**POWER PACKAGE**

Standard Koop 192 diesel engine rated at 7.6 kW within the rear equipment enclosure.

**LOAD-SENSING HYDRAULICS**

Routed hoses and cylinders transmit controlled motion to the articulated work group.

**CRAWLER MOBILITY**

Rubber tracks and high / low travel selection support compact site positioning.

**BLADE ACTUATION**

The visible blade cylinder actuates the front dozer blade for support and grading tasks.

POWER OPTIONS

Standard Koop 192 — 7.6 kW • Optional KOOP 192F — 7 kW • Optional Briggs & Stratton — 420 cc / 13.5 hp

Operator & Ground Interface

Mechanical controls, open sight lines, blade and rubber-track carrier

OPERATOR CONTROL CONSOLE



Mechanical control levers

Direct lever layout at the open operator station.



Front dozer blade

Front-mounted edge for support, backfilling and light grading.



Twin-track stance

Front view of the rubber-track carrier and blade relationship.

Mechanical controls

Direct lever-based control layout

Open canopy

Clear sight lines around the work area

Rubber-track carrier

Stable ground contact for compact positioning

Standard & Optional Architecture

A clear boundary for product selection and written order definition

STANDARD CONFIGURATION	DESCRIPTION
Power	Koop 192 diesel engine — 7.6 kW
Hydraulics	Load-sensing hydraulic system
Travel	High / low travel speed
Controls	Mechanical controls
Ground contact	Rubber track
Operator station	Open canopy
Digging tool	400 mm toothed bucket
Front equipment	Dozer blade assembly
Machine class	1200 kg operating weight

OPTIONAL CONFIGURATION	SELECTION EFFECT
KOOP 192F — 7 kW	Alternative diesel power package
Briggs & Stratton — 420 cc / 13.5 hp	Alternative gasoline power package
Swing arm	Adds lateral working-position flexibility
Telescopic undercarriage	Changes access and stance requirements
Hydraulic oil cooler	Additional hydraulic thermal management
ROPS option	Specify the required protection level in the selected build
Hydraulic pilot controls	Alternative hydraulic control architecture

DECISION AREA	RELEVANT OPTION	QUESTION TO RESOLVE
Access geometry	Swing arm / Telescopic undercarriage	What width and lateral working position are required?
Hydraulic duty	Hydraulic oil cooler	What ambient conditions and duty cycle are expected?
Controls & protection	Hydraulic pilot controls / ROPS option	Which control architecture and protection specification are required?

SUPPLY-SCOPE DEFINITION

Standard product colours are blue, yellow and red, with custom colour support. The machine order should state the selected engine, control architecture, undercarriage, cooling option, protection option, attachment interface and required tools. One tool box and one filter set are listed with the standard product introduction.

Application Fit

Landscaping / gardens / private projects / small utilities / construction



FOUNDATION TRENCH



PARK PLANTING



COURTYARD RENOVATION



RESIDENTIAL DRAINAGE

APPLICATION	WHY THE CONFIGURATION FITS	SELECTION FOCUS
Foundation trenching	Articulated digging group and toothed bucket support controlled soil cutting	Trench geometry, soil and safe machine position
Park planting preparation	Crawler carrier and optional auger or bucket choices support planting work	Hole size, soil, attachment and access
Courtyard renovation	1200 kg class, rubber tracks and compact work group suit restricted areas	Entry path, ground bearing and spoil handling
Residential drainage	Digging, front-blade support and optional narrow bucket support trench work	Services, trench width and discharge plan

ACCESS

Route and clearance

Confirm entry, swing space and working position

GROUND

Support conditions

Confirm bearing capacity, edge distance and slope

TASK

Material and geometry

Match the bucket or attachment to the work

INTERFACE

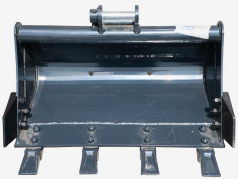
Hydraulic demand

Verify coupler, circuit and attachment compatibility

11 — ATTACHMENTS

Optional Attachment Range I

Digging, finishing, screening, boring and breaking tools

**Toothed Digging Bucket**

Firm-ground penetration and excavation

**Compact Digging Bucket**

General digging in restricted areas

**Narrow Digging Bucket**

Narrow trenches and service channels

**Ditch Cleaning Bucket**

Ditch-bottom finishing and loose material

**Hydraulic Tilt Bucket**

Slopes, ditches and fine grading

**Screening Bucket**

Separate fine soil from larger debris

**Clamshell Bucket**

Grab, transfer and discharge loose material

**Earth Auger**

Circular holes for planting and posts

**Hydraulic Breaker**

Localized breaking of hard material

All tools shown are optional. Confirm coupler geometry, pin dimensions and hydraulic requirements for the selected tool.

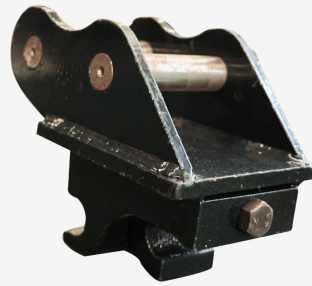
12 — ATTACHMENTS

Optional Attachment Range II

Tool-change, clamping, handling, clearing and ground-preparation tools

**Hydraulic Quick Coupler**

Hydraulic locking for faster tool changes

**Mechanical Quick Coupler**

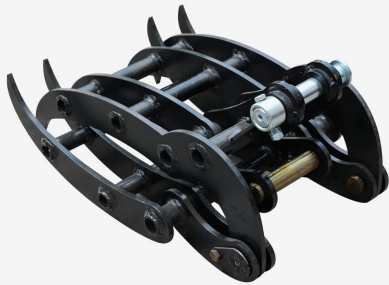
Mechanical tool-change interface

**Hydraulic Thumb**

Variable clamping against the bucket

**Mechanical Thumb**

Fixed-position clamping support

**Log Grapple**

Lift, sort and load logs or branches

**Pallet Forks**

Short-distance handling of palletized loads

**Rake Attachment**

Collect roots, branches and debris

**Ripper Attachment**

Loosen compacted soil and hard layers

Attachment supply, interface compatibility and auxiliary hydraulic provisions must be defined in the written order.

Attachment Selection Guide

Choose by task first, then verify interface and machine configuration

ATTACHMENT	PRIMARY TASK	VERIFY
Toothed Digging Bucket	Firm-ground digging	Pin/coupler
Compact Digging Bucket	General excavation	Width
Narrow Digging Bucket	Narrow trenching	Width/clearance
Ditch Cleaning Bucket	Finishing/cleaning	Width/material
Hydraulic Tilt Bucket	Slope shaping	Auxiliary hydraulics
Screening Bucket	Material separation	Load/interface
Clamshell Bucket	Loose material handling	Hydraulics/interface
Earth Auger	Circular boring	Drive and bit
Hydraulic Breaker	Hard-material breaking	Flow/pressure

ATTACHMENT	PRIMARY TASK	VERIFY
Hydraulic Quick Coupler	Faster tool change	Locking circuit
Mechanical Quick Coupler	Tool change	Pin geometry
Hydraulic Thumb	Variable clamping	Hydraulics/mount
Mechanical Thumb	Fixed clamping	Mount positions
Log Grapple	Logs and branches	Hydraulics/load
Pallet Forks	Pallet handling	Load and stability
Rake Attachment	Roots and debris	Width/teeth
Ripper Attachment	Hard soil loosening	Tooth/interface

DIGGING & FINISHING

Toothed, compact, narrow, ditch-cleaning and tilt buckets

Check width, geometry and auxiliary hydraulics.

HANDLING & CLAMPING

Clamshell, thumbs, log grapple and pallet forks

Check mass, mount, load and stability.

GROUND PROCESSING

Screening bucket, auger, breaker, rake and ripper

Check material, drive, flow and pressure.

TOOL-CHANGE INTERFACES

Hydraulic or mechanical quick coupler

Check pin geometry and locking method.

SELECTION RULE

Confirm attachment mass, mounting geometry, hydraulic demand and intended task before the machine configuration is finalized.

Selection Summary

A compact configuration built around task, system and attachment choice

DECISION FACTOR	PRODUCT SPECIFICATION	USE IN SELECTION
Machine class	1200 kg operating weight	Compact earthmoving and access-limited project sites
Power package	Koop 192 diesel engine; 7.6 kW	Standard engine selection
Hydraulic system	Load-sensing architecture	Coordinated front-work-group control
Travel selection	High / low travel speed	Positioning and travel-mode choice
Work tool	400 mm toothed bucket	Routine trenching and soil pickup
Ground interface	Rubber tracks and dozer blade	Travel contact, support, backfill and grading
Control station	Mechanical controls; open canopy	Simple visible configuration
Options	Swing arm, telescopic undercarriage, cooler, ROPS option, pilot controls	Match access, environment and control preference
Attachments	17 optional tools shown	Select by task and verify interface requirements
Listed supply items	Tool box and filter set	Confirm written supply scope in the order



CONFIGURE IN FIVE DECISIONS

- 01

Task definition

Define material, trench, loading, grading and handling duties.
- 02

Site access

Confirm the ordered machine envelope and actual work-area clearance.
- 03

Power & control

Select the engine family and mechanical or pilot-control path.
- 04

Machine options

Define swing, stance, cooling and protection requirements.
- 05

Attachment

Choose the task tool and verify interface and hydraulic demand.

WHY SELECT EXC001-12PRO

- 1

1200 kg operating class for compact earthmoving duties.
- 2

Load-sensing hydraulics and articulated digging group.
- 3

Rubber tracks, two travel modes and front blade support.
- 4

Seventeen listed attachments for multi-task planning.
- 5

Multiple engine, undercarriage and control options.