EASCOUTiA

COMPACT CRAWLER EXCAVATOR

EXC001-25PRO

Excavator PRO

Product Technology & Selection Manual

A 2,500 kg compact crawler excavator with a Yanmar 3TNV80F diesel engine, variable-displacement hydraulics, hydraulic pilot operation and a telescopic rubber-track chassis.

2,500 KG

15.2 kW • 430 mm

MANUAL MAP

Contents

Product facts, structure, configuration and selection

Product code EXC25OLD251

03 — PRODUCT DATA

Technical Specifications

Core product and configuration data

OPERATING WEIGHT	RATED POWER	OVERALL WIDTH	STANDARD BUCKET WIDTH
2,500 kg	15.2 kW	1,300 mm	430 mm

GROUP	SPECIFICATION	VALUE
Machine	Operating weight	2,500 kg
Engine	Standard engine	Yanmar 3TNV80F diesel engine
	Rated power	15.2 kW
	Engine type	Diesel engine
Options	Listed engine choices	Yanmar 3TNV80F 15.2 kW; Kubota D1105 14.0 kW
	Optional cab configurations	Yes
	Optional configuration	Steel tracks; Cabin; AC
Hydraulics	Hydraulic system	Variable displacement hydraulic pump
Travel	Travel speed modes	High / Low
Controls	Control type	Hydraulic pilot operation
Undercarriage	Chassis	Telescopic chassis
	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

04 — DIMENSIONS

Dimensions & Working Range

Overall dimensions and working envelope

DIMENSION / RANGE	VALUE	SELECTION RELEVANCE
Overall length	2,945 mm	Assess the total machine footprint and approach space.
Overall width	1,300 mm	Check gates, paths and restricted access points.
Overall height	2,190 mm	Check overhead and doorway clearance.
Maximum digging height	3,280 mm	Compare with the required above-ground work envelope.
Maximum dumping height	2,360 mm	Compare with the intended placement or receiving height.
Maximum digging depth	2,430 mm	Compare with the required trench or excavation depth.
Maximum digging radius	4,150 mm	Compare with the required horizontal work envelope.

05 — MACHINE OVERVIEW

Machine Overview

Complete machine profile and component details

The current machine configuration combines an articulated boom-and-stick work group, toothed digging bucket, telescopic crawler chassis, roofed open station and front dozer blade.

Boom base pivot

Visible boom-base pivot and adjacent hydraulic actuation components.

Bucket linkage

Visible bucket linkage and mounting geometry.

Digging bucket

Close view of the toothed digging bucket and linkage.

06 — STRUCTURE

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	Bucket Connection Mechanism	Links the bucket with the stick-end actuation group.
03	Stick Assembly	Extends the front work group between the boom and bucket.
04	Boom Assembly	Carries and positions the articulated front work group.
05	Hydraulic Cylinders and Pipelines	Provide visible actuation and routed hydraulic connections for the work group.
06	Canopy Assembly	Defines the roof above the open operator station.
07	Seat and Control System	Combines the operator seat and hydraulic pilot interfaces.

07 — SYSTEMS

Power, Hydraulics & Crawler Mobility

Power, work-group and crawler details

POWER PACKAGE

Yanmar 3TNV80F diesel engine

The standard engine is rated at 15.2 kW; the image identifies the rear engine hood and ventilation area.

HYDRAULIC ARCHITECTURE

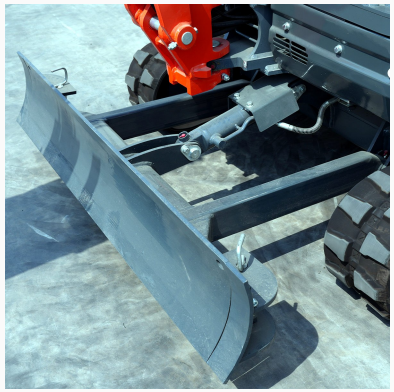
Variable-displacement pump

The confirmed hydraulic system uses a variable displacement pump with hydraulic pilot operation.

CRAWLER MOBILITY

High / Low travel modes

High and Low travel modes pair with a telescopic chassis and rubber-track ground contact.



FRONT WORK SUPPORT

Boom, cylinders and dozer blade

Visible front-work components provide the machine structure used across the listed site applications.

08 — OPERATOR STATION

Operator Station and Interfaces

Visible station and interface configuration

The confirmed station entry is Roof, shown as a roofed open operator station. A cabin is separately listed as optional, with AC included among available choices.

Front station view

Front view showing the roof and control-area position.

Rear-left station view

Rear-left view showing the roofed open operator station.

OPERATOR STATION	CONTROL TYPE	CABIN CHOICE
Roofed open configuration	Hydraulic pilot operation	Optional; AC is listed

09 — CONFIGURATION

Standard & Optional Configuration

Base configuration and orderable choices

STANDARD CONFIGURATION	DESCRIPTION
Standard engine	Yanmar 3TNV80F diesel engine
Rated power	15.2 kW
Hydraulic system	Variable displacement hydraulic pump
Travel speed modes	High / Low
Control type	Hydraulic pilot operation
Chassis	Telescopic chassis
Track type	Rubber track
Operator station	Roofed open operator station
Standard bucket width	430 mm

OPTIONAL CONFIGURATION	DESCRIPTION
Listed engine choices	Yanmar 3TNV80F 15.2 kW; Kubota D1105 14.0 kW
Optional cab configurations	Yes
Optional configuration	Steel tracks; Cabin; AC
Custom colors	Yes

DEFINE THE ORDER FROM THE BASE MACHINE

STANDARD POWER	Yanmar 3TNV80F diesel engine, 15.2 kW
STANDARD MOBILITY	High / Low travel, telescopic chassis, rubber track
ORDER CHOICES	Engine, steel tracks, cabin, AC and color

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

10 — APPLICATIONS

Application Fit

Application context and selection checkpoints

AGRICULTURE AND DRAINAGE

Orchard drainage channel

Agricultural and forestry operations combine with drainage and water conservancy work. Check row access, soil conditions and the required channel depth.

MUNICIPAL MAINTENANCE

Park utility trench

Municipal maintenance can require compact trench access. Check the 1,300 mm width, underground services and the required work envelope.

CONSTRUCTION WORK

Courtyard foundation excavation

Construction work in confined access areas requires envelope checks against the 2,945 x 1,300 x 2,190 mm overall dimensions.

ROAD CONSTRUCTION

Rural road preparation

Road construction and loose-gravel preparation require a ground-condition check against the rubber-track configuration and intended task.

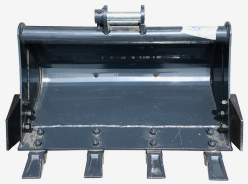
11 — ATTACHMENTS

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.

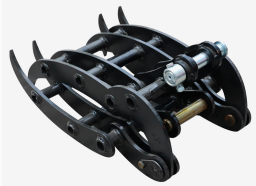
12 — ATTACHMENTS

Optional Attachment Range 2

Optional work tools; confirm fitment in writing

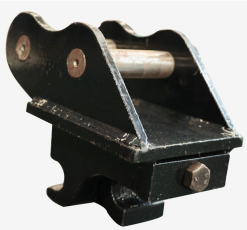
Hydraulic Tilt Bucket

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.

13 — SELECTION

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.

14 — DECISION

Selection Summary

A practical product-configuration checklist

DECISION FACTOR	PRODUCT BASIS	USE IN SELECTION
Machine class	2,500 kg operating weight	Compare the machine class with the intended task and site constraints.
Overall envelope	2,945 x 1,300 x 2,190 mm	Check access width, overhead clearance and the total machine footprint.
Working range	3,280 / 2,360 / 2,430 / 4,150 mm	Compare digging height, dumping height, digging depth and digging radius with the task.
Power package	Yanmar 3TNV80F; 15.2 kW	Confirm the standard engine and rated power for the intended work.
Hydraulics and controls	Variable displacement pump; hydraulic pilot	Confirm the hydraulic and control configuration for the selected task.
Crawler mobility	High / Low; telescopic chassis; 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	Engine, 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 1,300 mm width, 2,190 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 Yanmar 3TNV80F, 15.2 kW and variable-displacement pump as the baseline.

04 **Mobility and station** — Confirm travel modes, telescopic chassis, track type and operator-station choice.

05 **Options and tools** — Specify engine, cabin, AC, track, color and attachment choices in writing.

WHY SELECT EXC001-25PRO

1. 2,500 kg operating weight with a 1,300 mm overall width.
2. Yanmar 3TNV80F standard engine rated at 15.2 kW.
3. Variable displacement hydraulic pump and hydraulic pilot operation.
4. High / Low travel modes, telescopic chassis and rubber tracks.
5. Engine, cabin, AC, steel-track, color and listed work-tool choices can be defined before ordering.