

MICRO CRAWLER EXCAVATOR

ZT20

Tailless micro crawler excavator

Product Technology & Selection Manual

A tailless micro crawler excavator with a stated operating weight of 2.2 tons, an open operator station, a Yanmar 3TNV80F engine, 15.2 kW power and a 0.068 m³ bucket.

2.2 TONS

15.2 kW • 0.068 m³



MANUAL MAP

Contents

Product facts, structure, configuration and selection

03

Technical Specifications

Core product and configuration data

06

Work Equipment & Crawler Systems

Power, hydraulic and mobility architecture

04

Dimensions & Working Range

Overall dimensions and working range

07

Application Fit

Application contexts and selection focus

05

Machine Overview

Complete machine views and component details

08

Selection Summary

Configuration and application checklist

KEY PRODUCT DATA

OPERATING WEIGHT / TONNAGE

2.2 tons

POWER

15.2 kW

STANDARD BUCKET CAPACITY

0.068 m³

Product code EXC-1786006004640777

Technical Specifications

Core product and configuration data

OPERATING WEIGHT / TONNAGE

2.2 tons

POWER

15.2 kW

TRAVEL SPEED

3.8 / 2.0 km/h

STANDARD BUCKET CAPACITY

0.068 m³

GROUP	SPECIFICATION	VALUE
Machine	Product type	Tailless track-type micro excavator
	Operating weight / tonnage	2.2 tons
	Track type	Rubber track
Operator Station	Operator station	Open operator station
Engine	Engine brand	Yanmar
	Engine model	3TNV80F
	Power	15.2 kW
	Engine displacement	1.267 L
	Rated speed	2,500 rpm
Capacity	Fuel tank capacity	20 L
	Hydraulic oil tank capacity	18 L
Performance	Travel speed	3.8 / 2.0 km/h
	Swing speed	9.5 rpm
	Bucket digging force	20 kN
Work Tool	Standard bucket capacity	0.068 m ³
Visual Observation	Visible machine groups	Open operator station; overhead frame and roof; boom cylinder and hoses; bucket and linkage; dozer blade; rubber-track undercarriage

Dimensions & Working Range

Overall dimensions and working envelope

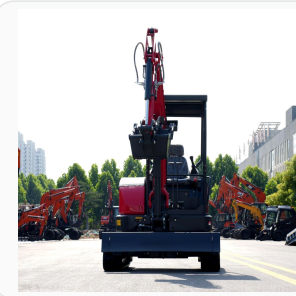


DIMENSION / RANGE	VALUE	SELECTION RELEVANCE
Transport length	4,100 mm	Compare with route length, staging and transport constraints.
Transport width	1,500 mm	Compare with gates, corridors and available access width.
Transport height	2,440 mm	Compare with overhead clearance and transport limits.
Maximum digging depth	2,410 mm	Compare with the required excavation depth.
Maximum digging radius	4,520 mm	Compare with the intended horizontal reach.
Maximum digging height	4,190 mm	Compare with the required work height and site clearance.
Maximum unloading height	2,880 mm	Compare with the intended discharge or loading interface.

Machine Overview

Complete machine profile and component details

The complete views show the tailless body form, open operator station with overhead frame and roof, boom and bucket group, front blade and rubber-track undercarriage.



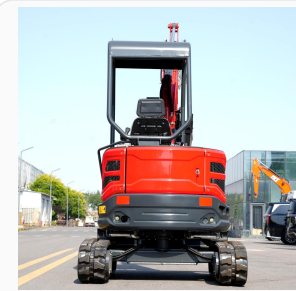
Complete front view

Front view showing blade, work equipment and open operator station.



Left-rear three-quarter view

Rear body, open operator station and work equipment viewed from the left rear.



Complete rear view

Rear profile showing the tailless body form and open operator station.

Work Equipment & Crawler Systems

Visible work-equipment and undercarriage groups



WORK EQUIPMENT

Boom cylinder and hoses

VISIBLE GROUP	Boom cylinder and hoses
MAX DIGGING DEPTH	2,410 mm
MAX DIGGING HEIGHT	4,190 mm



BUCKET GROUP

Bucket and linkage

VISIBLE GROUP	Bucket and linkage
DIGGING FORCE	20 kN
BUCKET CAPACITY	0.068 m³



FRONT BLADE

Blade and access width

VISIBLE GROUP	Dozer blade
TRANSPORT WIDTH	1,500 mm
OPERATING WEIGHT	2.2 tons



CRAWLER MOBILITY

Rubber-track undercarriage

TRACK TYPE	Rubber track
TRAVEL SPEED	3.8 / 2.0 km/h
SWING SPEED	9.5 rpm

Application Fit

Application context and selection checkpoints

**LISTED APPLICATION****Drainage Trench Digging****Depth and reach screen**

Compare the 2,410 mm maximum digging depth and 4,520 mm maximum digging radius with the required trench profile.

**LISTED APPLICATION****Landscape Edge Shaping****Access and surface**

Use the 1,500 mm transport width and 3.8 / 2.0 km/h travel-speed values when screening access and surface conditions.

**LISTED APPLICATION****Utility Corridor Excavation****Corridor and envelope**

Compare the 4,100 × 1,500 × 2,440 mm transport envelope with corridor access and available workspace.

**LISTED APPLICATION****Foundation Edge Cutting****Force and capacity**

Compare 20 kN bucket digging force and 0.068 m³ bucket capacity with the intended material and task.

Selection Summary

A practical product-configuration checklist

DECISION FACTOR	PRODUCT BASIS	USE IN SELECTION
Engine identity	Yanmar 3TNV80F	Confirm the specified engine identity for model comparison.
Rated output	15.2 kW at 2,500 rpm; 1.267 L	Use the stated power, speed and displacement for duty comparison.
Transport envelope	4,100 × 1,500 × 2,440 mm	Compare with routes, gates and available clearance.
Working range	2,410 / 4,520 / 4,190 / 2,880 mm	Compare depth, radius, height and unloading height with the task.
Mobility	Rubber track; 3.8 / 2.0 km/h; 9.5 rpm	Review track type, travel speed and swing speed for the site.
Work tool and mass	20 kN; 0.068 m³; 2.2 tons	Compare force, capacity and stated operating weight with task demand.



CONFIGURE IN FOUR DECISIONS

- 01

Check access

Compare the transport envelope with route and workspace limits.
- 02

Check work range

Review the stated digging and unloading envelope against the task.
- 03

Check output

Review engine identity, power, rated speed and displacement.
- 04

Check site fit

Compare travel speed, bucket data, mass and open-station layout.

WHY SELECT ZT20

- 1

Specified Yanmar engine, power and displacement data support direct comparison.
- 2

Seven unit-bearing dimension and working-range values support site screening.
- 3

Rubber-track, travel-speed and work-tool data define a practical selection screen.
- 4

Four listed application scenes provide task-specific visual context.