

WHEELED EXCAVATOR

ZT75W

ZT75W Wheeled Excavator

Product Technology & Selection Manual

A 6,245 kg wheeled excavator with a 0.27 m³ bucket, Yanmar engine, enclosed cab and 25 km/h maximum travel speed.

6,245 KG

0.27 m³ • 25 km/h



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KEY PRODUCT DATA

OPERATING WEIGHT

6,245 kg

BUCKET CAPACITY

0.27 m³

MAXIMUM TRAVEL SPEED

25 km/h

Product code EXC-1786005634104342

Technical Specifications

Core product and configuration data

OPERATING WEIGHT

6,245 kg

BUCKET CAPACITY

0.27 m³

BUCKET DIGGING FORCE

28 kN

MAXIMUM TRAVEL SPEED

25 km/h

GROUP	SPECIFICATION	VALUE
Machine	Operating weight	6,245 kg
	Fuel tank capacity	124 L
Work Tool	Bucket capacity	0.27 m³
Engine	Engine brand	Yanmar
Hydraulics	Hydraulic oil tank capacity	110 L
Travel	Maximum travel speed	25 km/h
	Swing speed	8 rpm
Performance	Bucket digging force	28 kN
	Arm digging force	35 kN
Configuration	Travel chassis	Wheeled chassis
	Operator environment	Enclosed operator cab
	Front support	Front dozer blade

01 Machine scale

Use operating weight and bucket capacity as the first task-size comparison.

02 Mobility basis

Use travel speed and wheel geometry to screen route and site access.

03 Work output

Compare the stated bucket and arm digging forces with intended material conditions.

Dimensions & Working Range

Overall dimensions and working envelope



DIMENSION / RANGE	VALUE	SELECTION RELEVANCE
Overall length	6,180 mm	Compare the overall envelope with routes and staging space.
Overall width	2,110 mm	Compare with gates, lanes and available access width.
Overall height	2,882 mm	Compare with available overhead clearance.
Rear swing radius	2,420 mm	Review rear clearance within the work area.
Wheel track	1,685 mm	Use with access-width and stance requirements.
Wheelbase	2,100 mm	Review wheelbase against maneuvering needs.
Maximum digging height	6,518 mm	Compare with the required above-ground work envelope.
Maximum dumping height	4,700 mm	Compare with the required discharge height.
Maximum digging depth	3,500 mm	Compare with the required excavation depth.
Maximum digging radius	6,410 mm	Compare with the required horizontal work envelope.

Machine Overview

Complete machine profile and component details

Complementary complete views show the enclosed cab, articulated work group, wheeled chassis and front dozer blade.



Complete front view

Front view showing the bucket, boom, cab and wheel stance.



Complete left-rear view

Left-rear view showing the upper housing and wheeled chassis.



Complete right-front view

Right-front view showing the work group, enclosed cab and wheel stance.

Major Machine Assemblies

Main assemblies and their functional roles



NO.	ASSEMBLY	ROLE
01	Grapple Work Tool	Illustrated front tool for controlled material handling and sorting.
02	Grapple Linkage	Pinned interface between the illustrated grapple and dipper arm.
03	Dipper Arm	Positions the illustrated work tool through the work envelope.
04	Main Boom	Carries the primary lift and reach work group.
05	Enclosed Operator Cab	Enclosed seat and visible control environment.
06	Upper Machinery Housing	Rear upper housing for the installed machinery group.
07	Wheeled Chassis	Four-wheel lower structure and travel base.

Power, Work Group & Wheeled Mobility 1

Visible product components with stated technical data



ELECTRICAL INTERFACE

Charging port

ENGINE	Yanmar
HYDRAULIC TANK	110 L
FUEL TANK	124 L



WORK GROUP

Boom structure

MAX DIGGING HEIGHT	6,518 mm
MAX DIGGING DEPTH	3,500 mm
ARM FORCE	35 kN



WORK-TOOL INTERFACE

Bucket thumb clamp

BUCKET CAPACITY	0.27 m³
BUCKET FORCE	28 kN
MAX DIGGING RADIUS	6,410 mm



FRONT SUPPORT

Dozer blade

CONFIGURATION	Front blade
OVERALL WIDTH	2,110 mm
OPERATING WEIGHT	6,245 kg

Power, Work Group & Wheeled Mobility 2

Visible product components with stated technical data



ARM GROUP

Arm cylinder

ARM FORCE	35 kN
DIGGING RADIUS	6,410 mm
DIGGING HEIGHT	6,518 mm



HYDRAULIC GROUP

Hydraulic cylinder

BUCKET FORCE	28 kN
ARM FORCE	35 kN
HYDRAULIC TANK	110 L



WORK LIGHTING

Lighting fixture

OPERATOR STATION	Enclosed cab
OVERALL HEIGHT	2,882 mm
MACHINE MASS	6,245 kg



OPERATOR INTERFACE

Operator switch

OPERATOR STATION	Enclosed cab
ENGINE	Yanmar
TRAVEL SPEED	25 km/h

Operator Station & Interfaces

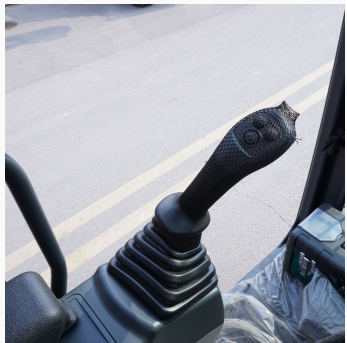
Visible station and interface configuration

Visible station details show the steering interface, operator seat and working-control lever fitted inside the enclosed cab.



Operator seat

Visible operator seat inside the enclosed cab.



Working-control lever

Visible working-control lever at the operator station.

STEERING

Visible steering interface for wheeled travel.

OPERATOR SEAT

Visible seated operating position inside the enclosed cab.

WORK CONTROLS

Visible working-control lever at the operator station.

Application Fit

Application context and selection checkpoints



APPLICATION CONTEXT

Controlled Utility Trench Excavation

Depth and horizontal envelope

Compare the 3,500 mm digging depth and 6,410 mm radius with the required corridor and trench profile.



APPLICATION CONTEXT

Foundation-Edge Soil Shaping

Access and rear clearance

Review overall width, rear swing radius and working range against edge access and available maneuvering space.



APPLICATION CONTEXT

Municipal Drainage Spoil Loading

Capacity and discharge height

Compare bucket capacity and maximum dumping height with the intended spoil and receiving area.



APPLICATION CONTEXT

Material Stockpile Loading

Capacity, reach and support

Review bucket capacity, digging radius and front blade configuration against the stockpile work area.

Selection Summary

A practical product-configuration checklist

DECISION FACTOR	PRODUCT BASIS	USE IN SELECTION
Machine and bucket	6,245 kg; 0.27 m³	Compare machine size and bucket capacity with task demand.
Engine basis	Yanmar diesel engine	Review the stated engine brand for the intended duty.
Overall envelope	6,180 × 2,110 × 2,882 mm	Compare with routes, gates, staging and overhead clearance.
Working range	3,500 / 6,410 / 6,518 / 4,700 mm	Compare depth, radius, height and dumping height with the task.
Mobility	25 km/h; 1,685 mm wheel track	Review stated site mobility and wheel stance.
Work force	28 kN bucket; 35 kN arm	Compare stated digging-force values with intended material conditions.



CONFIGURE IN FOUR DECISIONS

- 01

Check access
Compare the complete envelope and rear swing radius with the intended route and work area.
- 02

Check work range
Review depth, radius, height and dumping height against the required work envelope.
- 03

Check output
Review bucket capacity and digging-force data against the intended duty.
- 04

Confirm configuration
Confirm the selected machine, cab and work-tool scope in the written order.

WHY SELECT ZT75W

- 1

Machine, bucket and digging-force data provide a direct technical comparison basis.
- 2

Dimensions and working-range values support route and site screening.
- 3

Four product application scenes provide task-specific visual context.
- 4

Wheeled travel and an enclosed cab support mobile site configuration review.