

WHEELED EXCAVATOR

ZT85W

ZT85W Wheeled Excavator

Product Technology & Selection Manual

A 7,310 kg wheeled excavator with a 0.27 m³ bucket, Yanmar 4TNV98C engine, enclosed cab and 25 km/h maximum travel speed.

7,310 KG

0.27 m³ • 25 km/h



MANUAL MAP

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KEY PRODUCT DATA

OPERATING WEIGHT

7,310 kg

BUCKET CAPACITY

0.27 m³

MAXIMUM TRAVEL SPEED

25 km/h

Product code EXC-1786005659875840

Technical Specifications

Core product and configuration data

OPERATING WEIGHT

7,310 kg

BUCKET CAPACITY

0.27 m³

BUCKET DIGGING FORCE

33 kN

MAXIMUM TRAVEL SPEED

25 km/h

GROUP	SPECIFICATION	VALUE
Machine	Operating weight	7,310 kg
	Fuel tank capacity	124 L
Work Tool	Bucket capacity	0.27 m³
Engine	Engine model	4TNV98C
	Engine brand	Yanmar
	Engine rated power	46.2 kW
Hydraulics	Hydraulic oil tank capacity	110 L
Travel	Maximum travel speed	25 km/h
	Swing speed	9 rpm
Performance	Bucket digging force	33 kN
	Arm digging force	43 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

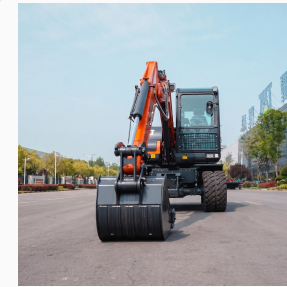


DIMENSION / RANGE	VALUE	SELECTION RELEVANCE
Overall length	6,400 mm	Compare the overall envelope with routes and staging space.
Overall width	2,220 mm	Compare with gates, lanes and available access width.
Overall height	2,840 mm	Compare with available overhead clearance.
Rear swing radius	2,430 mm	Review rear clearance within the work area.
Wheel track	1,685 mm	Use with access-width and stance requirements.
Wheelbase	2,385 mm	Review wheelbase against maneuvering needs.
Maximum digging height	6,650 mm	Compare with the required above-ground work envelope.
Maximum dumping height	4,780 mm	Compare with the required discharge height.
Maximum digging depth	3,996 mm	Compare with the required excavation depth.
Maximum digging radius	6,770 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.



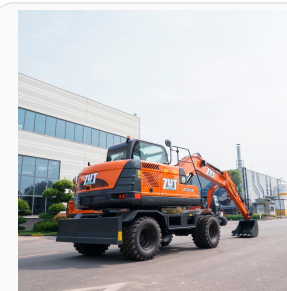
Complete front view

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-rear view

Right-rear view showing the upper housing, blade and wheel stance.

Major Machine Assemblies

Main assemblies and their functional roles



NO.	ASSEMBLY	ROLE
01	Digging Bucket	Illustrated front bucket for controlled soil cutting, lifting and placement.
02	Bucket Linkage	Pinned interface that joins the illustrated bucket to the dipper arm.
03	Dipper Arm	Positions the illustrated bucket 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



BOOM GROUP

Boom cylinder

MAX DIGGING HEIGHT	6,650 mm
MAX DIGGING DEPTH	3,996 mm
ARM FORCE	43 kN



WORK-TOOL INTERFACE

Bucket thumb clamp

BUCKET CAPACITY	0.27 m³
BUCKET FORCE	33 kN
MAX DIGGING RADIUS	6,770 mm



FRONT SUPPORT

Dozer blade

CONFIGURATION	Front blade
OVERALL WIDTH	2,220 mm
OPERATING WEIGHT	7,310 kg



CONTROL CONSOLE

Machine control interface

ENGINE MODEL	4TNV98C
RATED POWER	46.2 kW
TRAVEL SPEED	25 km/h

Power, Work Group & Wheeled Mobility 2

Visible product components with stated technical data



ARM GROUP

Arm cylinder

ARM FORCE	43 kN
DIGGING RADIUS	6,770 mm
DIGGING HEIGHT	6,650 mm



HYDRAULIC GROUP

Hydraulic cylinder

BUCKET FORCE	33 kN
ARM FORCE	43 kN
HYDRAULIC TANK	110 L



WORK LIGHTING

Lighting fixture

OPERATOR STATION	Enclosed cab
OVERALL HEIGHT	2,840 mm
MACHINE MASS	7,310 kg



WORK CONTROLS

Working-control lever

OPERATOR STATION	Enclosed cab
SWING SPEED	9 rpm
ENGINE	Yanmar

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 3,996 mm digging depth and 6,770 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

Organized Soil Stockpile Management

Capacity, reach and support

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



APPLICATION CONTEXT

Roadside Drainage Swale Shaping

Access and controlled shaping

Compare overall width, bucket control and working range with the intended drainage profile.

Selection Summary

A practical product-configuration checklist

DECISION FACTOR	PRODUCT BASIS	USE IN SELECTION
Machine and bucket	7,310 kg; 0.27 m³	Compare machine size and bucket capacity with task demand.
Engine basis	Yanmar 4TNV98C; 46.2 kW	Review the stated engine model and rated power for the intended duty.
Overall envelope	6,400 × 2,220 × 2,840 mm	Compare with routes, gates, staging and overhead clearance.
Working range	3,996 / 6,770 / 6,650 / 4,780 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	33 kN bucket; 43 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 ZT85W

- 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.