

WHEELED EXCAVATOR

ZT150

ZT150 Wheeled Excavator

Product Technology & Selection Manual

A 12,800 kg wheeled excavator with a 0.5 m³ stated bucket capacity, Cummins power, enclosed cab and front dozer blade.

12,800 KG

0.5 m³ • 35 km/h



MANUAL MAP

Contents

Product facts, structure, configuration and selection

03

Technical Specifications

Core product and configuration data

04

Dimensions & Working Range

Overall dimensions and working range

05

Machine Overview

Complete machine views and component details

06

Major Machine Assemblies

Visible assemblies and product structure

07

Power, Hydraulics & Wheeled Mobility — 1/3

Power, hydraulic and mobility architecture

08

Power, Hydraulics & Wheeled Mobility — 2/3

Power, hydraulic and mobility architecture

09

Power, Hydraulics & Wheeled Mobility — 3/3

Power, hydraulic and mobility architecture

10

Application Fit

Application contexts and selection focus

11

Selection Summary

Configuration and application checklist

KEY PRODUCT DATA

OPERATING WEIGHT

12,800 kg

BUCKET CAPACITY

0.5 m³

MAXIMUM TRAVEL SPEED

35 km/h

Product code EXC-1786005722159650

Technical Specifications

Core product and configuration data

OPERATING WEIGHT

12,800 kg

BUCKET CAPACITY

0.5 m³

BUCKET DIGGING FORCE

62.5 kN

MAXIMUM TRAVEL SPEED

35 km/h

GROUP	SPECIFICATION	VALUE
Machine	Operating weight	12,800 kg
	Fuel tank capacity	210 L
Work Tool	Bucket capacity	0.5 m³
Engine	Engine brand	Cummins
	Engine rated power	96 kW
Hydraulics	Hydraulic oil tank capacity	130 L
Travel	Maximum travel speed	35 km/h
	Swing speed	12.5 rpm
Performance	Bucket digging force	62.5 kN
	Arm digging force	85 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 the stated 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	7,232 mm	Compare the overall envelope with routes and staging space.
Overall width	2,500 mm	Compare with gates, lanes and available access width.
Overall height	3,428 mm	Compare with available overhead clearance.
Rear swing radius	2,278 mm	Review rear clearance within the work area.
Wheel track	1,942 mm	Use with access-width and stance requirements.
Wheelbase	2,650 mm	Review wheelbase against maneuvering needs.
Maximum digging height	8,334 mm	Compare with the required above-ground work envelope.
Maximum dumping height	6,190 mm	Compare with the required discharge height.
Maximum digging depth	4,600 mm	Compare with the required excavation depth.
Maximum digging radius	7,722 mm	Compare with the required horizontal work envelope.

05 — MACHINE OVERVIEW

Machine Overview

Complete machine profile and component details

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

**Complete front view**

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

**Complete right-rear view**

Right-rear view showing the upper housing and wheeled undercarriage.

**Complete rear view**

Rear view showing the upper housing and wheel stance.

Major Machine Assemblies

Main assemblies and their functional roles



NO.	ASSEMBLY	ROLE
01	Digging Bucket	Front work tool shown for excavation and material placement.
02	Bucket Linkage	Pinned linkage connecting the bucket to the dipper arm.
03	Dipper Arm	Positions the bucket across the stated working envelope.
04	Boom and Hydraulic Group	Carries the primary lift-and-reach structure and visible hydraulic routing.
05	Enclosed Operator Cab	Enclosed operating position with visible machine interfaces.
06	Rear Engine Hood	Rear upper housing for the installed power package.
07	Wheeled Undercarriage	Four-wheel mobile base supporting the upper structure and front blade.

Power, Hydraulics & Wheeled Mobility — 1/3

Visible product components with stated technical data



OPERATOR VISIBILITY

Driver's field of vision

OPERATOR STATION	Enclosed cab
OVERALL HEIGHT	3,428 mm
MODEL	ZT150



WHEELED MOBILITY

Industrial tire

TRAVEL CHASSIS	Wheeled chassis
TRAVEL SPEED	35 km/h
WHEEL TRACK	1,942 mm



WORK TOOL

Digging bucket

BUCKET CAPACITY	0.5 m³
BUCKET FORCE	62.5 kN
OPERATING WEIGHT	12,800 kg



PINNED LINKAGE

Bucket connection structure

BUCKET CAPACITY	0.5 m³
BUCKET FORCE	62.5 kN
ARM FORCE	85 kN

Power, Hydraulics & Wheeled Mobility — 2/3

Visible product components with stated technical data



CYLINDER GROUP

Arm cylinder

ARM FORCE	85 kN
DIGGING DEPTH	4,600 mm
DIGGING RADIUS	7,722 mm



CYLINDER GROUP

Boom cylinder

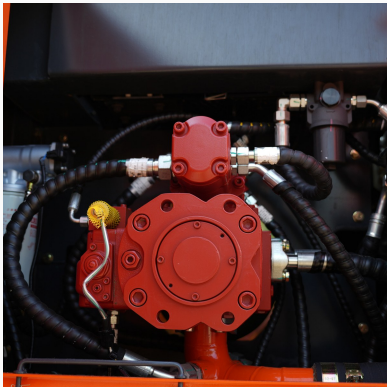
DIGGING HEIGHT	8,334 mm
DUMPING HEIGHT	6,190 mm
ARM FORCE	85 kN



HYDRAULIC ROUTING

Hydraulic piping

HYDRAULIC TANK	130 L
BUCKET FORCE	62.5 kN
ARM FORCE	85 kN



HYDRAULIC UNIT

Hydraulic pump unit

HYDRAULIC TANK	130 L
RATED POWER	96 kW
BUCKET FORCE	62.5 kN

Power, Hydraulics & Wheeled Mobility — 3/3

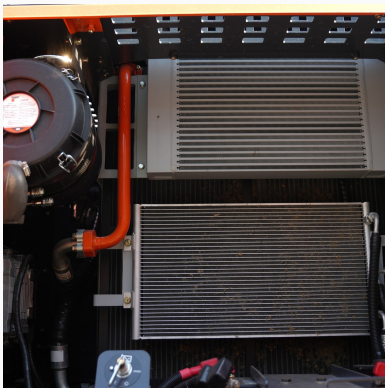
Visible product components with stated technical data



FRONT SUPPORT

Bulldozer blade

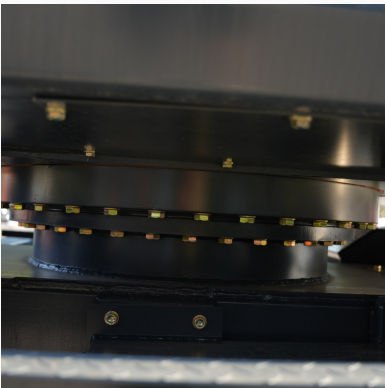
CONFIGURATION	Front blade
OVERALL WIDTH	2,500 mm
OPERATING WEIGHT	12,800 kg



POWER PACKAGE

Engine compartment

ENGINE BRAND	Cummins
RATED POWER	96 kW
FUEL TANK	210 L



UPPER STRUCTURE

Slewing bearing

SWING SPEED	12.5 rpm
OPERATING WEIGHT	12,800 kg
REAR SWING	2,278 mm



OPERATOR STATION

Seat suspension

OPERATOR STATION	Enclosed cab
OVERALL HEIGHT	3,428 mm
MODEL	ZT150

Application Fit

Application context and selection checkpoints



APPLICATION CONTEXT

Controlled Utility Trench Excavation

Depth, radius and access

Compare the stated excavation depth, radius and machine width with the planned trench geometry and access route.



APPLICATION CONTEXT

Foundation Edge Soil Shaping

Clearance, capacity and reach

Review rear swing clearance, bucket capacity and working radius against the prepared foundation-edge work area.



APPLICATION CONTEXT

Organized Soil Stockpile Management

Height, capacity and force

Compare the stated dumping height, bucket capacity and digging-force values with the intended soil-handling task.



APPLICATION CONTEXT

Roadside Drainage Swale Shaping

Route access and positioning

Review overall width, travel speed and front blade configuration against roadside positioning and shaping needs.

Selection Summary

A practical product-configuration checklist

DECISION FACTOR	PRODUCT BASIS	USE IN SELECTION
Machine and bucket	12,800 kg; 0.5 m³	Compare machine size and bucket capacity with task demand.
Engine basis	Cummins; 96 kW	Review the stated engine brand and rated power for the intended duty.
Overall envelope	7,232 × 2,500 × 3,428 mm	Compare with routes, gates, staging and overhead clearance.
Working range	4,600 / 7,722 / 8,334 / 6,190 mm	Compare depth, radius, height and dumping height with the task.
Mobility	35 km/h; 1,942 mm wheel track	Review stated site mobility and wheel stance.
Work force	62.5 kN bucket; 85 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 ZT150

- 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 support excavation, soil handling and roadside-task review.
- 4

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