

WHEELED EXCAVATOR

SJ95-9M

SJ95-9M Wheeled Excavator

Product Technology & Selection Manual

A wheeled excavator with a 0.30 m³ bucket, 58.8 kW rated power, 49 kN bucket digging force and a stated 35–40 km/h maximum travel-speed range.

58.8 KW AT 2,400 RPM

0.30 m³ • 49 kN



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

Work Group & Wheeled Mobility

Power, hydraulic and mobility architecture

08

Operator Cab & Visible Interfaces

Operator environment and visible control interfaces

09

Application Fit

Application contexts and selection focus

10

Optional Attachment Range 1

Optional work tools and their intended functions

11

Optional Attachment Range 2

Optional work tools and their intended functions

12

Attachment Selection Guide

Task-to-tool compatibility checkpoints

13

Selection Summary

Configuration and application checklist

KEY PRODUCT DATA

RATED POWER / SPEED

58.8 kW at 2,400 rpm

BUCKET CAPACITY

0.30 m³

BUCKET DIGGING FORCE

49 kN

Product code EXC-1785901481851971

Technical Specifications

Core product and configuration data

RATED POWER / SPEED

58.8 kW at 2,400 rpm

MAXIMUM TRAVEL SPEED

35–40 km/h

BUCKET DIGGING FORCE

49 kN

BUCKET CAPACITY

0.30 m³

GROUP	SPECIFICATION	VALUE
Work Tool	Bucket capacity	0.30 m³
	Boom length	3,650 mm
	Arm length	2,000 mm
Engine	Engine model	4100
	Engine brand	Dongfanghong
	Engine type	Water-cooled / turbocharged
	Rated power / speed	58.8 kW at 2,400 rpm
	Maximum torque / speed	245 N·m at 1,610 rpm
Hydraulics	Hydraulic oil tank capacity	110 L
Machine	Fuel tank capacity	130 L
Travel	Maximum travel speed	35–40 km/h
	Swing speed	12 rpm
Performance	Bucket digging force	49 kN
	Arm digging force	40 kN
	Maximum tractive force	62 kN
Controls	Parking brake type	Air-off type
	Service brake type	Air brake

Dimensions & Working Range

Overall dimensions and working envelope



DIMENSION / RANGE	VALUE	SELECTION RELEVANCE
Overall length — stowed	6,504 mm	Compare the stowed envelope with route length and available staging space.
Overall width	2,150 mm	Compare with gates, lanes and the available access width.
Overall height — stowed	2,748 mm	Compare the stowed envelope with overhead clearance.
Turntable width	2,000 mm	Review upper-structure width against available swing space.
Counterweight ground clearance	948 mm	Review rear-body clearance against surface transitions.
Minimum ground clearance	240 mm	Compare with local obstacles and surface changes.
Rear swing radius	2,054 mm	Review rear clearance within the intended work area.
Wheel track	1,670 mm	Use with access-width and stance requirements.
Wheelbase	2,400 mm	Review the stated wheelbase against maneuvering needs.
Maximum digging height	6,736 mm	Compare with the required above-ground work envelope.
Maximum digging depth	4,364 mm	Compare with the required excavation depth.
Maximum digging reach	6,547 mm	Compare with the required horizontal work envelope.
Minimum turning radius	2,288 mm	Review against the intended route and worksite turning space.

Machine Overview

Complete machine profile and component details

Complementary complete views show the enclosed cab, boom-and-bucket work group, four-wheel undercarriage, upper housing and rear blade.



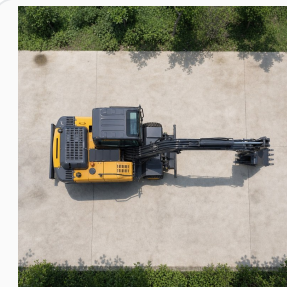
Complete front view

Front view showing bucket, work group, cab and wheel stance.



Complete left-rear view

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



Complete top view

Top view showing the machine footprint, boom alignment, cab and four-wheel layout.

Major Machine Assemblies

Main assemblies and their functional roles



NO.	ASSEMBLY	ROLE
01	Main Boom Assembly	Carries the primary lift and reach work group.
02	Dipper Arm Assembly	Positions the bucket through the working envelope.
03	Bucket and Linkage	Ground-engaging tool and pinned linkage group.
04	Cab and Operator Station	Enclosed seat and visible control environment.
05	Engine Housing and Counterweight	Rear upper housing and counterweight group.
06	Slewing Turntable Deck	Upper structure support above the wheeled base.
07	Wheeled Chassis and Rear Blade	Four-wheel lower structure with rear blade.

Work Group & Wheeled Mobility

Product component details for product recognition



WORK GROUP

Boom structure and lift cylinder

BOOM LENGTH	3,650 mm
RATED POWER	58.8 kW
MAX DIGGING HEIGHT	6,736 mm



HYDRAULIC ACTUATION

Bucket cylinder and linkage

ARM LENGTH	2,000 mm
ARM DIGGING FORCE	40 kN
MAX DIGGING DEPTH	4,364 mm



WHEELED MOBILITY

Wheel-end linkage

TRAVEL SPEED	35–40 km/h
SERVICE BRAKE	Air brake
PARKING BRAKE	Air-off type



WORK TOOL

Toothed digging bucket

BUCKET CAPACITY	0.30 m³
BUCKET FORCE	49 kN
TRACTIVE FORCE	62 kN

Operator Cab & Visible Interfaces

Visible station and interface configuration

The photographs show the enclosed cab interior, right-side hand control, switch bank and foot-control area.



RIGHT-SIDE CONSOLE

Visible hand control and audio panel



Switch and pedal interface

Visible switch bank, steering-column area and foot controls.



Cab interior

Visible seat back, rear window, speakers and ventilation outlets.

SWITCH AND PEDAL AREA

Visible switch bank and foot controls

INTERIOR ENVIRONMENT

Visible seat, rear window, speakers and vents

Application Fit

Application context and selection checkpoints



LISTED APPLICATION

Municipal Drainage Trenching

Depth and reach

Compare the 4,364 mm digging depth and 6,547 mm digging reach with the required trench profile.



LISTED APPLICATION

Farm Irrigation Ditch Shaping

Capacity and force

Review bucket capacity, digging force and work envelope against the intended ditch section and soil.



LISTED APPLICATION

Utility Pipe Bedding Preparation

Access and maneuvering

Compare the overall width, minimum turning radius and digging reach with access and pipe-corridor constraints.



LISTED APPLICATION

Municipal Landscaping Earthwork

Clearance and task fit

Review ground clearance, turning geometry and bucket data against the intended surface and landscaping task.

10 — ATTACHMENTS

Optional Attachment Range 1

Optional work tools; confirm fitment in writing

**Clamshell Bucket**

Pick and place suitable loose material.

**Compact Digging Bucket**

Compact excavation and confined-slot work.

**Ditch Cleaning Bucket**

Shape and clean suitable drainage channels.

**Earth Auger**

Drill suitable holes in compatible ground.

**Hydraulic Breaker**

Break suitable concrete or rock material.

**Hydraulic Quick Coupler**

Hydraulic coupling interface for selected work tools.

**Hydraulic Thumb**

Retain suitable irregular material against a bucket.

**Hydraulic Tilt Bucket**

Controlled grading with a tilting bucket form.

**Log Grapple**

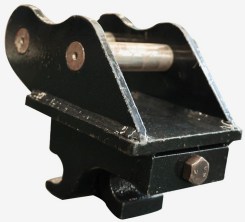
Grip and place suitable logs or irregular material.

Confirm mounting geometry, mass and hydraulic requirements before an attachment is included in the written order.

11 — ATTACHMENTS

Optional Attachment Range 2

Optional work tools; confirm fitment in writing



Mechanical Quick Coupler

Mechanical coupling interface for selected work tools.



Mechanical Thumb

Retain suitable material against a paired bucket.



Narrow Digging Bucket

Narrow trench and slot excavation.



Pallet Forks

Handle suitable palletized material for the selected task.



Rake Attachment

Gather and sort suitable surface material.



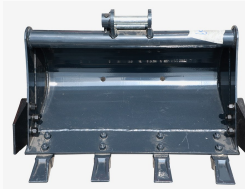
Ripper Attachment

Loosen suitable compacted ground before excavation.



Screening Bucket

Separate suitable loose material by the selected screen form.



Toothed Digging Bucket

General excavation with a toothed ground-engaging edge.

Confirm mounting geometry, mass and hydraulic requirements before an attachment is included in the written order.

Attachment Selection Guide

Choose by task, then verify interface requirements

ATTACHMENT	PRIMARY TASK	VERIFY
Clamshell Bucket	Pick and place suitable loose material.	Mounting geometry; hydraulic demand; written order scope
Compact Digging Bucket	Compact excavation and confined-slot work.	Bucket geometry; mounting interface; written order scope
Ditch Cleaning Bucket	Shape and clean suitable drainage channels.	Width; edge profile; mounting interface; written order scope
Earth Auger	Drill suitable holes in compatible ground.	Drive interface; diameter; ground condition; written order scope
Hydraulic Breaker	Break suitable concrete or rock material.	Hydraulic demand; mounting interface; hose scope
Hydraulic Quick Coupler	Hydraulic coupling interface for selected work tools.	Pin geometry; locking format; hydraulic circuit; written order scope
Hydraulic Thumb	Retain suitable irregular material against a bucket.	Mounting; hydraulic interface; bucket pairing; written order scope
Hydraulic Tilt Bucket	Controlled grading with a tilting bucket form.	Tilt circuit; width; mounting interface; written order scope
Log Grapple	Grip and place suitable logs or irregular material.	Hydraulic interface; mounting geometry; task limits; written order scope
Mechanical Quick Coupler	Mechanical coupling interface for selected work tools.	Pin geometry; locking format; listed tools; written order scope
Mechanical Thumb	Retain suitable material against a paired bucket.	Mounting geometry; bucket pairing; written order scope
Narrow Digging Bucket	Narrow trench and slot excavation.	Bucket width; mounting interface; written order scope
Pallet Forks	Handle suitable palletized material for the selected task.	Rated load data; load centre; mounting interface; written order scope
Rake Attachment	Gather and sort suitable surface material.	Mounting geometry; task material; written order scope
Ripper Attachment	Loosen suitable compacted ground before excavation.	Mounting geometry; ground condition; written order scope
Screening Bucket	Separate suitable loose material by the selected screen form.	Screen form; mounting interface; material; hydraulic demand
Toothed Digging Bucket	General excavation with a toothed ground-engaging edge.	Bucket geometry; mounting interface; written order scope

SELECTION RULE

Define task, interface, hydraulic demand and intended configuration before order confirmation.

Selection Summary

A practical product-configuration checklist

DECISION FACTOR	PRODUCT BASIS	USE IN SELECTION
Engine output	4100; 58.8 kW at 2,400 rpm; 245 N·m at 1,610 rpm	Use the stated engine identity and output for duty comparison.
Bucket and forces	0.30 m³; 49 kN bucket; 40 kN arm; 62 kN tractive	Compare capacity and stated forces with material and task demand.
Overall envelope	6,504 × 2,150 × 2,748 mm stowed	Compare with routes, gates and overhead clearance.
Working range	4,364 / 6,547 / 6,736 mm	Compare depth, reach and height with the intended task.
Turning geometry	2,054 mm rear radius; 2,288 mm minimum radius	Review against available maneuvering space.
Mobility	35–40 km/h; air service brake; air-off parking brake	Compare stated mobility and braking types with route needs.



CONFIGURE IN FOUR DECISIONS

- 01

Check access

Compare the stowed envelope and turning values with the intended route and work area.
- 02

Check work range

Review depth, reach and height against the required work envelope.
- 03

Check output

Review engine, bucket and force data against the intended duty.
- 04

Confirm work tools

Confirm mounting, hydraulic demand and written order scope for every selected attachment.

WHY SELECT SJ95-9M

- 1

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

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

Four current product application scenes support task-oriented review.
- 4

Seventeen listed attachment forms can be screened before interface and order confirmation.