

Bulldozer Transmission System

This transmission system is designed for bulldozers. It includes a torque converter and F3-R3 transmission.



Overview

TSY130B Bulldozer Performance

The TSY130B is a robust bulldozer engineered for demanding earthmoving tasks, featuring a powerful 95.5KW engine and a reliable hydraulic system. Designed for efficiency and durability, it offers a 3.3 cubic meter blade capacity and significant pulling force of 104KN. This machine balances power with precision, making it suitable for a variety of construction and site preparation applications.

Engine & Performance

Engine Specifications

95.5 KW

Rated Power

674 N.m

Max Torque

8.27 L

Displacement

Engine Details

Parameter	Value
Type	Water-cooled, inline, 4-stroke, direct injection, turbocharged
Rated Speed	1900 rpm
Cylinder Number	6
Min Fuel Consumption	<228g/KWh

Dimensions & Capacity

Physical Dimensions

Dimension	Value
Length	4685mm (standard) / 5839mm (with ripper)
Width	3510mm
Height (to exhaust)	2630mm
Height (to cab)	3005mm
Ground Clearance	320mm

Operational Metrics

14900 kg

Operating Weight

3.3 m³

Blade Capacity

104 KN

Pulling Force

Hydraulic System

Hydraulic Performance

Component	Flow Rate	Displacement
Working Pump	180 L/min	80 ml/r
Transmission Pump	77.1 L/min	40 ml/r
Steering Pump	54.4 L/min	28 ml/r

Working Equipment

Blade Specifications

- Blade Width: 3410mm (3510mm with end bits)
- Blade Height: 970mm
- Max Tilt Adjustment: 400mm
- Max Lifting Height: 930mm
- Max Cutting Depth: 590mm
- Cutting Angle: 55°

Transmission & Undercarriage

Undercarriage Configuration

- Type: Swing type, equalizer bar suspended structure
- Carrier Rollers: 2 per side
- Track Rollers: 6 per side
- Track Shoe Width: 700mm
- Ground Pressure: 0.035 Mpa

Transmission System

Torque Converter (1-stage, 1-phase, 3-element), Planetary Gear Transmission (F3-R3), Spiral Bevel Gear Main Drive