

# Bulldozer Transmission System

This bulldozer transmission system ensures efficient power transfer. It features a hydraulic torque converter and a power shift planetary gear transmission.



## Overview

### Heavy-Duty Earthmoving Capability

This heavy-duty bulldozer is engineered for demanding earthmoving and grading operations. Featuring a robust power system and a high-capacity semi-U blade, it delivers consistent performance in challenging environments. The advanced transmission and hydraulic systems ensure precise control and operational efficiency for professional construction projects.

## Performance Metrics

### Rated Power

|                              |                                   |
|------------------------------|-----------------------------------|
| <b>310 kW</b><br>Rated Power | <b>420 HP</b><br>Rated Horsepower |
|------------------------------|-----------------------------------|

|                         |                   |
|-------------------------|-------------------|
| <b>Operating Weight</b> | 49000 kg          |
| <b>Blade Capacity</b>   | 16 m <sup>3</sup> |

## Transmission System

### Transmission Configuration

- Hydraulic torque converter
- Power shift planetary gear transmission
- F3-R3 gear configuration
- Electro-hydraulic control

### Steering and Braking

| Component       | Type/Description  |
|-----------------|---|
| Steering Clutch | Wet, multi-plate, spring-compressed, hydraulic release, electro-hydraulic control |
| Steering Brake  | Floating band type, hydraulic assist, electro-hydraulic control                   |

## Undercarriage

### Track Specifications

| Feature         | Specification              |
|-----------------|----------------------------|
| Suspension      | K-type resilient structure |
| Carrier Rollers | 2 per side                 |
| Track Rollers   | 7 per side                 |
| Track Shoes     | 41 per side                |
| Shoe Width      | 610 mm                     |

## Dimensions

|                    |                          |
|--------------------|--------------------------|
| Overall Dimensions | 9630mm x 4300mm x 3955mm |
|--------------------|--------------------------|

## Hydraulic System

|                    |        |
|--------------------|--------|
| Operating Pressure | 21 MPa |
|--------------------|--------|