

Engineering built smarter. Solutions built to last.

Tuboshu delivers innovative, sustainable engineering built for Africa. Backed by decades of expertise, we design adaptive, high-performance solutions that solve real operational challenges. Our commitment to quality drives every project, supported by a trusted network for maintenance, technical assistance, and ongoing after-sales service.

Elevate Your Power

The logo for Tuboshu, featuring the word "TUBOSHU" in a bold, black, sans-serif font. The letter "U" is stylized with a small orange square at its top right corner.

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Certain specification(s) are based on engineering calculations and are not actual measurements. Specification(s) are provided for comparison purposes only and are subject to change without notice. Specification(s) for your individual Tuboshu equipment will vary based on normal variations in design, manufacturing, operating conditions, and other factors. Pictures of Develon units may show other than standard equipment.

TUBOSHU



BULLDOZER

7

TD320-S

TECHNICAL SPECIFICATION

CHARACTERISTICS

Manufacturer	TUBOSHU
Model	TD320-S
Configuration Number	TUSIGY320UK

ENGINE

Manufacturer	Cummins
Model	NTA855-C360S10
Type	Turbocharged, Aftercooled,Four- Stroke
Rated Power	257kW@2000 rpm
Max. Torque	1440N.m@2000rpm
Number of Cylinders-Bore×Stroke	6-139.7×152.4mm
Starting Method	Electric - 24V / 11kw
Min. Fuel Compensation Ratio	245g/kw.h

TRANSMISSION SYSTEM

Torque Converter	3-elements, single-stage, single-phase
Transmission	Planetary gear, multiple-disc clutch, hydraulic actuated, forced lubrication by gear pump, 3 forward and 3 reverse speeds.
Bevel Gear	Helical bevel gear, Splash lubricated
Steering Clutch	Wet, Multiple disc, Spring loaded, hydraulically released
Steering Brake	Wet band Brake operated with hydraulic booster
Final Drive	Double reduction, splash lubricated

TRAVEL SPEED (km/h)

	1st	2nd	3rd
Forward	3.6	6.6	11.5
Reverse	4.4	7.8	13.5

HYDRAULIC SYSTEM

Working Pressure	14 Mpa
Working Flow	2000 rpm / 355 L/Min
Pump	GearPump

UNDERCARRIAGE

Sprocket	Segmented
Number of track rollers(each side)	7(5Single/2double)
Track Tension	Hydraulic-adjusted

Floating seals are used in all sprockets, track rollers, carrier rollers and front idlers

WORK EQUIPMENT

Blade Type	Straight Tilt Blade	Angle Blade	Semi U Blade
Blade Width	4150mm	5000mm	4130mm
Blade height	1610mm	1140mm	1710mm
Max. Drop Below Ground	560mm	630mm	560mm
Max. Tilt	1000mm	500mm	1000mm
Blade Capacity	10m ³	6m ³	11.9m ³

TRACK

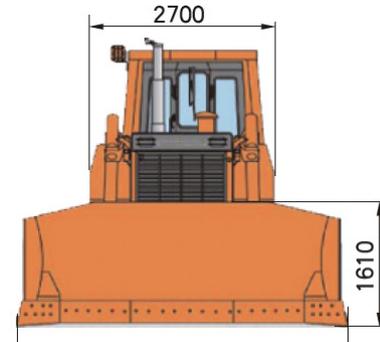
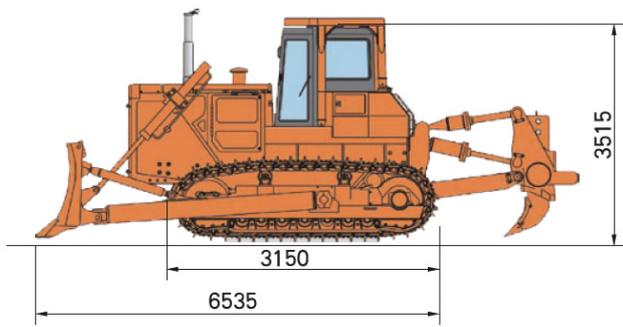
Type	Sealed, single grouser
Track Pitch	228.6mm
Track Width	560mm
# of Track Shoes on Each Side	41
Length of Track on Ground	3150mm
Ground Clearance	500mm
Track Gauge	2140mm

RIPPER

Type	Single Shank / Three Shanks
Max. Dig Below Ground	470/543mm
Max. Lift Above Ground	965/883mm

Weight

No Ripper	37.2
Single Shank Ripper	41.3
Three Shank Ripper	41.6



Engine

- Pulse exhaust manifold for improving performance and emission. With a high torque reserve and a low speed under the maximum torque condition for a good adaptation.
- High quality cast iron and special designed valve guide for the seal performance and durability.
- Robust and precise balance design for crankshaft.
- Advanced turbocharger and air-air after cooler technology.
- 4 valves per cylinder for high power and low fuel consumption.

Hydraulic Torque Converter

- TD320-S torque converter is of 3-element, 1-stage, 1-phase, centripetal turbine type with simple structure but good technology. It provides high power efficiency, great penetration, big capacity and less loss when the turbine idles.
- TD320-S hydraulic torque converter is a newly developed product with the improvement made to the material, process and layout based on introduced Japan Komatsu technology. It features simple architecture, easy maintenance, low noise, excellent reliability.

Transmission

- This machine is equipped with transmission of planetary gear and rotary lockup multi-disc clutch. hydraulically engaged and force lubricated. Forward 3 speeds and reverse 3 speeds can be gained by actuating hydraulic control valve

Final Drive

- We, as the first domestic company, master the technology in the manufacturing tip relief, crowned gear which features heavy load capacity, stable drive and long life.