

TATA HITACHI

Reliable solutions

TWL 3034

Efficient.



WHEEL LOADER

Gross Power : 101.5 PS (74 kW) @ 2300 rpm
Operating Weight : 10720 kg - 10800 kg
Bucket Capacity : 1.5 - 2.5 m³

MOST FUEL EFFICIENT WHEEL LOADER WITH **HYDROSTATIC DRIVE**



MORE PRODUCTIVITY

FUEL EFFICIENCY

Lesser Cycle Time

Higher Travel Speeds + Shorter Hydraulic Cycle time + Gearless operation

Easier Operation

Pilot Operated Single Lever

Higher Break-out Force

Z-Bar Linkage

Easier Operation

Articulation of 39° to each side



Advantages of Hydrostatic Drive Technology

- Elimination of Clutch & Transmission related Mechanical Losses.
- High tractive effort at low engine rpm
- Self Locking Braking System
- High torque available for startup
- Easy Maintenance.

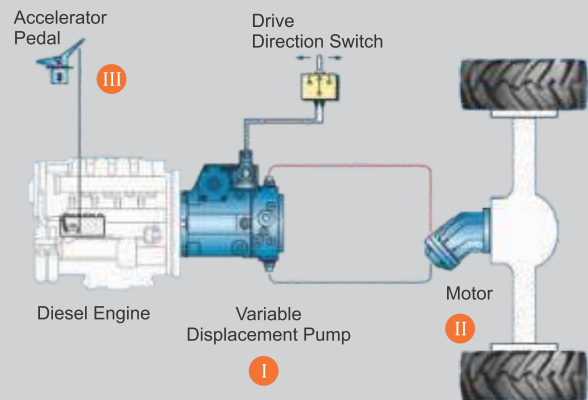
Self Cleaning Cyclonic Air Pre-Cleaner

Easy Maintenance

Rear Axle oscillation 24°

Better Stability

HYDROSTATIC TRANSMISSION



- I Hydraulic Pump converts mechanical power from engine into Hydraulic fluid flow.
- II Hydraulic fluid flow is directly converted back into mechanical power by motors on the machine axle – eliminating the need for a transmission.
- III Increase in engine rpm (pushing down the accelerator) results in an increase in hydraulic flow which increases speed.

Self locking braking system. Machine stops if foot is taken off the accelerator pedal, **increasing service brake life.**
Higher fuel efficiency because of lesser number of parts, thus reducing transmission losses.

AXLES



Limited slip differential does not allow the tyre stuck in slush to spin free

- Reduces tyre-wear
- Superior traction all the time
- Easier to get out of slushy conditions

PILOT OPERATED SINGLE LEVER



Operating the machine is easy - Single Control for bucket and arm.

High operator comfort & low fatigue.

Easy operation results in **shorter cycle times**

FUEL SAVINGS



SAVING OF INR 3 LAKHS PER YEAR IN FUEL

Easily saves 20% on fuel consumption as compared to traditional Hydrodynamic drive system

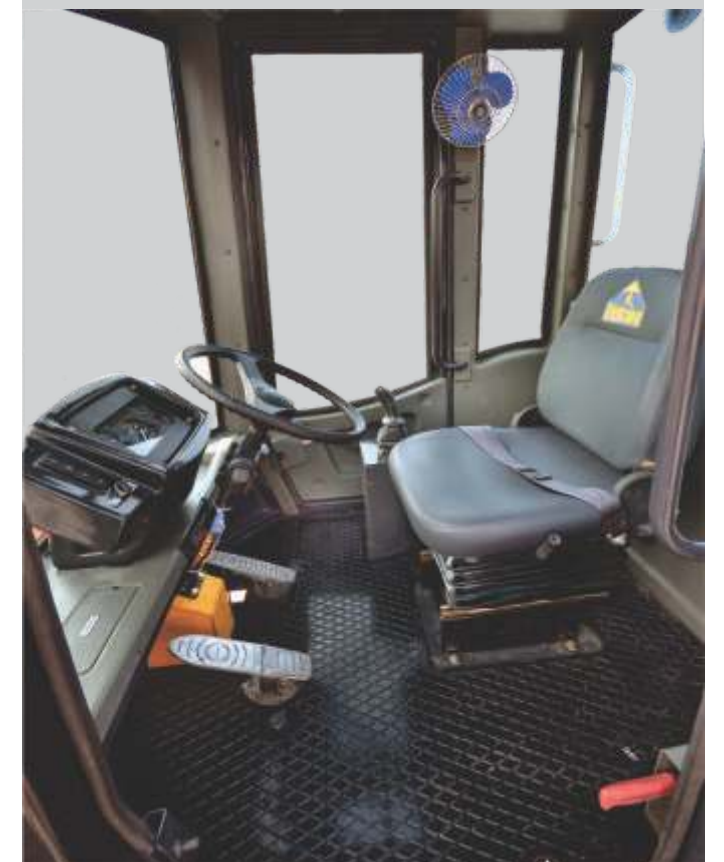
EASE OF MAINTENANCE



- Three-side & Ground level service access
- Aides in easy maintenance

CABIN

Comfortable & Spacious Cabin For The Operator



SPECIFICATION

ENGINE

Model TATA 497 TCIC
 Type 4-cycle water-cooled
 Aspiration Turbocharger and Charge air cooled
 No. of Cylinders 4
 Max. Power 101.5 PS (74kW) @ 2300 rpm
 Max Torque 370Nm @ 1400-1700
 Emission Norm BS-III
 Batteries 2 x 12V

TRAVEL DRIVE

Stepless Hydrostatic Travel Drive

Swash plate type variable displacement pump and two variable displacement axial piston motors in closed loop circuit. Direction of travel is reversed by changing the flow-direction of the variable displacement pump.

Control

Stepless control through accelerator pedal. The FNR (Forward-Reverse) lever is used to control, forward and reverse travel and the speed selector is used to select the travel speed range

POWER TRAIN

Transmission Electro-Hydraulically controlled hydrostatic transmission
 Speed Selector Range I 0 to 13.42 kmph
 Speed Selector Range II 0 to 34.62 kmph

AXLE

Drive System Four-wheel drive system
 Front Planetary drive type axle, fixed rigid to front frame
 Rear Planetary drive type axle, fixed to rear frame by an oscillating pin
 Rear Axle Oscillation Angle Total 24° (+12°, -12°)
 Only Front is LSD Planetary reduction in the wheel hub. Self locking limited slip-type differential

TYRES

Standard Four, 14.00 x 25-20 PR

BRAKES

Service Brakes

Self adjusting wet type disc brakes integrated in wheel hub acts on all 4 wheels

Self locking of the hydrostatic travel drive.

Parking Brake Spring Applied Hydraulically released at front axle.

STEERING SYSTEM

Type Articulated frame steering
 Steering mechanism Fully hydraulic power steering
 Steering angle Each direction 39°; Total 78°
 Relief Pressure 175 bar

HYDRAULIC SYSTEM

Arm and bucket are controlled by pilot operated lever

Main Pump Load sensing variable displacement axial piston pump
 Main pump Flow Rate 138 lpm @ 2300 rpm
 Relief pressure setting 250 bar
 Boost Pump Gear Pump, 45lpm @ 2300rpm

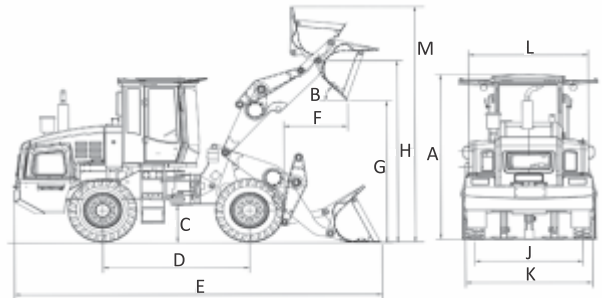
Hydraulic cycle time

Lift arm rise 5.2
 Lift arm lower 0.9
 Bucket dump 3.6
 Total 9.7 secs

SERVICE REFILL CAPACITIES

Fuel Tank 130 Ltrs
 Engine Coolant 22 Ltrs
 Engine Oil 7 Ltrs
 Front Axle 17 Ltrs
 Rear Axle 17.5 Ltrs
 Hydraulic Tank 130 Ltrs
 Hydraulic System 180 Ltrs

DIMENSIONS



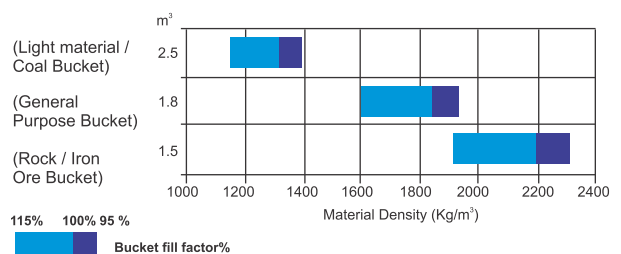
Particulars		Bucket Capacity		
		STD Bucket 1.8 cu.m	HD Bucket 1.5 cu.m	Coal/LD Bucket 2.5 cu.m
Height of cab top	A mm	3352	3352	3352
Dump Angle	B deg	45	45	45
Ground Clearance	C mm	470	470	470
Wheel Base	D mm	2840	2840	2840
Overall Length	E mm	7040	6940	7257
Reach at max dump height	F mm	1112	1041	1265
Dump Height	G mm	2940	3011	2787
Height of bucket arm hinge	H mm	3719	3719	3719
Wheel tread	J mm	2034	2034	2034
Basic machine width	K mm	2428	2428	2428
Overall machine width	L mm	2250	2250	2250
Overall operating height	M mm	4466	4362	4680
Turning radius of outer wheel		5345	5345	5345
Turning radius of outer tip of bucket		5719	5683	5812

OPERATING DATA

Rated payload 3375 kg
 Breakout force 10543 kg
 Tipping load (Straight) 7440 kg
 Tipping load (40° Articulated) 6320 kg

Weight	Unladen (kg)	Laden (kg)
Front axle load	4310	10795
Rear axle load	6290	3180
Total weight	10600	13975

BUCKET SELECTION CHART



The Specifications are subject to change without prior notice. The Machine depicted may vary from the actual Machine Please contact our nearest office for latest specifications. Accessories shown here are not part of the standard equipment Performance of the machine may vary with site and operating conditions encountered

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