



MATERIAL HANDLING MADE SUPER EFFICIENT

**4 WHEEL DRIVE TOUGH RIDER
WITH MULTI-DISCHARGE CAPABILITIES**



Tough Rider is Universal's most rugged Tough Rider that is designed to withstand the extreme conditions at construction sites. It is one of the most efficient solutions for handling and shifting material across sites. With over 1000 machines efficiently serving in varied extreme conditions worldwide, these Tough Rider have certainly gained the trust of many satisfied customers.

These Tough Rider are furnished with a powerful 23.4 BHP engines and have a 4 X 4 transmission giving them enough power to ride across the steepest paths and extreme terrains. Their power steering offers effortless navigation. These machines have sturdy hand-brakes and a safety hood that ensures complete operator safety at any given time. Universal has designed two unique multi-purpose buckets for carrying any kind of loads across sites.

These tough riders have highly effective shock absorbers that can withstand any troughs and tremors. Universal has gone even to the extents of designing special tyres that give the tough rider a better grip. These machines come in three capacity variants and commonly used to carry loads like scrap, concrete, bricks and in some cases even a small batch of labourers. And the biggest advantage of the tough rider is that it requires lowest maintenance.

Salient features

- Most efficient solution for carrying loads across sites
- Over 1000 machines worldwide
- 23.4 BHP engine
- 4 X 4 transmission
- Power steering for effortless navigation
- Multi-purpose bucket for carrying any load
- Specially designed tyres
- Requires low maintenance



STURDY HAND BRAKES
FOR OPERATOR'S SAFETY



EFFORTLESS STEERING
FOR EASY NAVIGATION



SMART DESIGN
FOR EASY MOVEABLE BUCKETS



UNIQUELY DESIGNED
MULTI PURPOSE BUCKETS



POWERFUL HEADLIGHTS FOR
USE IN ANY CONDITION



HEAVY DUTY BUMPERS



HIGHLY EFFECTIVE
SHOCK ABSORBER



ROBUST ENGINE WITH COVER
FOR RIGOROUS APPLICATION



SPECIALLY DESIGNED TYRES
FOR BETTER GRIP



‘A four wheel drive for towing and dumping function with excellent capability to ride smoothly on any tough terrain. Also, an advanced flexible design for multiple applications.’

* Tough rider is permitted to use only in site premise and not on road.

FEATURES OF TOUGH RIDER

| DESCRIPTIONModel 2 TON | | MODEL 2.5 TON |
|-------------------------------|---|---|
| Engine | M&M in-line, water cooled, 4 strzoke 2 cylinder diesel engine 23.4 BHP @ 2400 RPM BS III CEV Emission certified | M&M in-line, water cooled, 4 stroke 2 cylinder diesel engine 23.4 BHP @ 2400 RPM BS III CEV Emission certified |
| Gear Box | M&M 2 speed constant reduction 4+1 | M&M 2 speed constant reduction 4+1 |
| Clutch | Dry type single disc | Dry type single disc |
| Transmission | 4 wheel drive with mechanical transmission | 4 wheel drive with mechanical transmission |
| Differential | Fully floating beam type with fixed front and steerable rear differential | Fully floating beam type with fixed front and steerable rear differential |
| Brakes | Service brake: Hydraulic, foot operated, acting on all four wheels. Front drum brake and rear disc brake. Parking brake: mechanical, hand operated acting on front wheels | Service brake: Hydraulic, foot operated, acting on all four wheels. Front drum brake and rear disc brake. Parking brake: mechanical, hand operated acting on front wheels |
| Hydraulic System | Operated with engine mounted hyd. Gear pump controlled by hand operated double acting value to discharge bucket | Operated with engine mounted hyd. Gear pump controlled by hand operated double acting value to discharge bucket |
| Fuel and hyd. oil capacity | Fuel tank : made in MS with 45 litre. Capacity Oil tank : made in MS with 30 litre. Capacity | Fuel tank : made in MS with 45 litre. Capacity Oil tank : made in MS with 30 litre. Capacity |
| Electrical System | Battery: 12 Volt 60 Ah for engine ignition, lighting & singling system as per ARAI standards | Battery: 12 Volt 60 Ah for engine ignition, lighting & singling system as per ARAI standards |
| Tyres | Wheel rim: 55 J x 15 H 2. Tyres: 7.00 x 15, 8PR | Wheel rim: 55 J x 15 H 2. Tyres: 7.00 x 15, 8PR |
| Discharge Height | 0.6 Mtr | 0.6 mtr |
| Dimension (L x W x H) | 3700 x 1740 x 2150 | 3700 x 1740 x 2150 |
| Weight | 1600 Kg | 1650 Kg |

Machines are highly customisable for various application.

UTILITY

Concrete Carrying



Multiple Use



Towing Arrangement



HIGH DISCHARGE TOUGH RIDER

| DESCRIPTION | 1.5 TON HIGH DISCHARGE |
|----------------------------|--|
| Engine | M&M in-line, water cooled, 4 stroke 2 cylinder diesel engine 23.4 BHP @ 2400 RPM BS III CEV Emission certified |
| Gear Box | M&M 2 speed constant reduction 4+1 |
| Clutch | Dry type single disc |
| Transmission | 4 wheel drive with mechanical transmission |
| Differential | Fully floating beam type with fixed front and steerable rear differential |
| Brakes | Service brake: Hydraulic, foot operated, acting on all four wheels. Front drum brake and rear disc brake. Parking brake: mechanical, hand operated acting on front wheels |
| Hydraulic System | Operated with engine mounted hyd. Gear pump controlled by hand operated double acting valve to discharge bucket |
| Fuel and hyd. oil capacity | Fuel tank : made in MS with 45 litre. Capacity Oil tank : made in MS with 30 litre. Capacity |
| Electrical System | Battery: 12 Volt 60 Ah for engine ignition, lighting & singling system as per ARAI standards |
| Tyres | Wheel rim: 55 J x 15 H 2.Tyres: 7.00 x 15, 8PR |
| Discharge Height | 3 Mtr |
| Dimension (L x W x H) | 4320 x 2150 x 3150 |
| Weight | 1750 Kg |



ON SITE APPLICATION



WWW

WORLD-CLASS. HIGH-TECH. END-TO-END.

UNIVERSAL CONSTRUCTION EQUIPMENTS SOLUTIONS.

- 75+ Offices Pan-India
- Export to over 45 Countries
- Three Manufacturing Plants at Pune, Satara and Rudrapur
- India's Largest Portfolio of over 50 Concrete Equipments
- India's only Concrete Equipments Company with R&D Facility recognized by The Govt. of India
- India's only Concrete Equipments Company with Robotics Manufacturing Facility
- In-House Training Center approved by CIDC

WORLD-CLASS SOLUTIONS ACROSS 11 CATEGORIES

| | | | | | | | | | | |
|--------------------|-------------------|-------------------|------------------------------------|----------------------|-----------------|--------------------------|-------------------------------|---------------------------------|----------------------------------|-----------------------------------|
| BATCHING PLANTS | CONCRETE PUMPS | TRANSIT MIXERS | VERTICAL HANDLING EQUIPMENTS | REVERSIBLE MIXERS | MINI DUMPERS | CONCRETING EQUIPMENTS | BLOCK MAKING EQUIPMENTS | BAR PROCESSING EQUIPMENTS | SAND PROCESSING EQUIPMENTS | EARTH COMPACTING EQUIPMENTS |
|--------------------|-------------------|-------------------|------------------------------------|----------------------|-----------------|--------------------------|-------------------------------|---------------------------------|----------------------------------|-----------------------------------|

UNIVERSAL

MAKE POSSIBLE



UNIVERSAL SALES CORPORATION LARGEST SELLING CONSTRUCTION EQUIPMENT

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