

8600 SERIES



No. **1** Tractor
Company
in the World *



DEMING PRIZE
2003



JAPAN QUALITY MEDAL
2007

Mahindra
Tractors

*MSM Ltd. is the largest tractor company in the world, by volume

8600 SERIES

RELIABILITY. POWER. VERSATILE

These tractors are specially made for dry land farming & live stock, dairy applications. They come with tried & tested well known Perkins 4 Cylinder, turbo charged inter cooler engine and ZF transmission to offer a formidable combination of power & versatility.

These tractors have been designed to provide low-end Torque, comfort & convenience as they are equipped with power shuttle, automatic 4WD & an ergonomically designed Cabin. The tractors are so versatile that they permit a wide range of working speeds upto 42 km/hour & high lifting capacity of 5000 kgs.

Key Features:

- 4 Cylinder Turbocharged, intercooled engine - 110 HP
- 18.2 % back up torque
- 416 Nm Torque @ 1400 Rpm
- 16F / 16 R ZF Transmission
- Independent Four speed, Electro-hydraulic actuation, Mechanical control, [430 / 540 / 540e/ 1000]
- Heavy duty 4WD for heavier applications.
- Ergonomically designed Cabin
- High lift capacity - 5000 Kg.
- Working speeds of 1.86 to 42 km/hour

Ideal For:

- Dry land Farming
- Live Stock
- Dairy
- Haulage
- Hay & Forage



POWERFUL & EFFICIENT ENGINE

The Perkins 4 cylinder 1104D-44T turbocharged engines in these tractors offer an unmatched combination of power, fuel efficiency and reliability. They are designed to offer maximized torque levels as high as 307 Nm that ensures high productivity in both, PTO and draft applications.

EASY SHIFT & RUGGED TRANSMISSION

The ZF T-537 transmission provides smooth shifting on the move. The standard 16F+8R speeds maximize performance with a choice of speeds. It allows the tractor to work in a wide range of speeds from 1.86 to 42 km/hour. It comes with dry Dual Mechanically controlled clutch with large 11" (280 mm) Cerametallic plates for longer life.

ERGONOMICS & SUITABLE DIMENSIONS

The tractor dimensions are suitable to work in narrow areas. With the Centrally mounted foldable ROPS it can enter low height canopy & orchards. With sufficient ground clearance of 285 mm, it is suitable to work in uneven surfaces.

TRACTION SYSTEM

Tractor is designated as two wheel drive when engine power is transferred to two rear wheels only; and as four wheel drive when it is transferred to all four wheels. Tractors with four wheel drive system may also be used as two wheel drive when desired.

As engine power is transferred to all four wheels in four wheel drive, it is ensured that the tractor moves more easily on slippery surfaces by handling the ground with four tires. Slipping is reduced and service life of tires is increased when four wheel drive is activated for tires that slip with two wheel drive. Four wheel drive lever locking mechanism is activated with a lever in this models. It is performed electronically. Four wheel drive may be activated or deactivated at all gear ranges, at fixed and low speed that the tractor moves. Four wheel drive shall be activated so that you can obtain maximum efficiency from your tractor in rough terrain conditions.



HYDRAULICS, 3-POINT LINKAGE AND AUXILIARY REMOTE VALVES

Sturdy 3-point linkage Category II with ball ends is employed with the lift rods and stabilizers, Clevis type and drawbar, designed to allow easy operations. The Upper link comes with Hydraulic Cylinder with hook & is hydraulically-controlled. Side oscillation is avoided with the help of side struts. Hydraulic control panel is provided for position control, desired height locking, sensitivity setting, lowering lifting speed, vibration dampening.

The tractor comes with a standard 4 sets of remote auxiliary valves to work with different hydraulic implements. The hydraulics operate at a high pressure of 190Mpa & allows heavy loads upto 5000 kg to be lifted.

AUTOMATIC LIFTING SYSTEM

As a part of the hydraulic system, automatic lifting system allows to lift and lower the equipment while ploughing field without disturbing the position setting of the linkage arms on the hydraulic unit.

Automatic lifting system (ALS) may be controlled mechanically or electrically. The purpose of this system is to provide the same ploughing depth at every position in the field and to provide ease of use.

ALS is generally used to lift the equipment at the end of the groove while ploughing without changing the settings of hydraulic control levers, and to lower the equipment to the previous.

This is used to operate equipment such as trailer, loader, excavator and rotary plough etc.



TRACTOR SPECIFICATIONS

TRACTOR	86-110 P
ENGINE	
Type	Four Stoke,direct Injection, Turbo Charged, Inter Cooled Engine,
Cylinders	4
Engine HP @ rpm	110 @ 2200
Displacement cubic (cc)	4400
CLUTCH	
Type	Dual Clutch
TRANSMISSION	
Type	Synchromesh - Zf 557
Number of Gears / Speeds	16 F X 16 R
STEERING	
Type	Hydraulic Steering
BRAKES	
Type	Oil Immersed Brakes
HYDRAULIC SYSTEM	
Type	Open Centre Full Live Hydraulic With Position & Draft Controls
3-Point Linkage	CAT II With Stabilizer
Lift Capacity (Kg.)	5000
PTO	
Type	Independent Electro Hydraulic
PTO RPM (Engine rpm)	430-540- 750 (540E) - 1000 (750E)
PTO HP	93.5
OPERATING WEIGHT	
Total (Kg.)	4950
DIMENSIONS with Ag Tires	
Overall Length (mm)	4445
Overall Width (mm)	2030
TIRES Sizes and Options	
Standard Front	Front: 340/85 R24
Standard Rear	Rear: 460/85 R34