

NST 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

FUEL EFFICIENT AND VERSATILE TRACTORS

The NST series tractors now comes with an all New series of engines, that are more fuel efficient and offer much more torque. These engines with only 1900 rated rpm (2100 rated rpm in 595 DI) offers ample traction needed during tough jobs.

The efficient transmission ensures that most of the Engine Power is available at the Drawbar and Axles making these tractors for efficient farming operations.

The innovative "Bow Type" front axles ensure more stability. The design adopted makes these tractors more stable, reducing the incidences of Front end lifting.

Key Features:

- 4 Cylinder water-cooled engine ranging from 42 to 50 HP
- 10 % back up torque
- 8F/2R speeds with option of full constant mesh transmission.
- Bow Type Front Axle
- Uncluttered operating platform
- Air Trailer Brakes

Ideal For:

- Agriculture - primary and secondary tillage
- Livestock operations
- Crop Protection
- Mowing
- Haulage
- Loader applications



THE POWERFUL, HIGH DISPLACEMENT, HIGH TORQUE ENGINE

These direct injection, four cylinder engines with rated rpm at 1900 rpm (2100 rated rpm in 595 DI), provide excellent torque characteristics, fuel efficiency and durability. The unique LLA technology employed in these engines optimally regulate the fuel injection according to changing load and rpm giving high fuel savings. The smooth running diesel engine with lower rated rpm means less wear and tear for longer engine life. The engine provides highest rated torque in its category, delivering an abundant supply of power while tilling with heavy implements or pulling loaded trailers up steep hills. These engines also produce cleaner emissions & conforms to BS IIIA norms.

HEAVY DUTY FRONT AXLE:

Made of heavy-duty steel, the new design "Bow type" front axles are employed for added stability and control. Comfortable ride is ensured by providing sufficient axle oscillation that allows the tractor to counter uneven terrain. With a tight steering angle, getting in and out of confined areas is easy. These tractors are also available with Hydrostatic (Power) steering that would reduce the steering efforts considerably.

HEAVY DUTY TRANSMISSION:

The heavy duty transmission with 8 forward and 2 reverse speeds is extremely easy to operate. Designed to match the impressive power and torque characteristics of the engine, the transmission incorporates very wide gears offering great strength. These transmissions are designed to be extremely efficient, with most of the engine HP available at the axles. This ensures that the tractor delivers high levels of Drawbar Power; higher productivity with minimal slippage making them ideal for draft applications such as deep puddling, cultivation and harrowing.

HIGH LIFT HYDRAULICS

The live powerful hydraulics boasts a maximum lift capacity as high as 1650 Kgs. in 595 DI to handle the heaviest of implements. These tractors employ heavy and sturdy 3-Point Linkage to ensure stability and safety. The standard draft control feature adds to the ease of operation when using ground engaging implements.



COMFORTABLE OPERATOR PLATFORM & CONTROLS:

The low effort diaphragm clutch is a simple, reliable unit designed for long lasting performance and smooth engagements. Dual clutch provided as an option, is available on 475DI, 575DI & 595DI and offers a reverse live PTO. A fully enclosed & sealed housing with large sized multiple discs are used in brakes on either side, so that a large frictional area is available for efficient braking of these tractors, even while hauling large loads. These tractors are available with oil cooled brakes (wet discs brakes) which keeps the discs cool resulting in much longer disc life. These tractors with the long clutch housing offer a very wide passage that makes entry and exit very easy. All control levers are ergonomically placed and the hydraulics levers have been raised for an easy access. The uncluttered, comfortable & roomy operator area facilitates long hours of driving.



TRACTOR SPECIFICATIONS

TRACTOR	475 DI	575 DI	595 DI
ENGINE			
Type	Four Stroke, Direct Injection, Water Cooled, Diesel Engine	Four Stroke, Direct Injection, Water Cooled, Diesel Engine	Four Stroke, Turbo, Direct Injection, Water Cooled, Diesel Engine
Cylinders	4	4	4
Engine HP @ rpm	42 HP @ 1900	45 HP @ 1900	50 HP @ 2100
Displacement cubic (cc)	2730	2730	2524
ELECTRICAL			
Battery Capacity	12 V, 88 AH	12 V, 88 AH	12 V, 88 AH
Alternator	12 V, 11 AH	12 V, 11 AH	12 V, 11 AH
CLUTCH			
Type	Dual Clutch	Dual Clutch	Dual Clutch
TRANSMISSION			
Type	Full Constant Mesh	Full Constant Mesh (Optional - Partial Constantmesh)	Full Constant Mesh
Number of Gears / Speeds	8 Forward, 2 Reverse	8 Forward, 2 Reverse	8 Forward, 2 Reverse
STEERING			
Type	Hydrostatic Power Steering	Hydrostatic Power Steering	Hydrostatic Power Steering
BRAKES			
Type	Wet Brakes	Wet Brakes	Wet Brakes
HYDRAULIC SYSTEM			
Type	Live Hydraulics With Position & Draft Control	Live Hydraulics With Position & Draft Control	Live Hydraulics With Position & Draft Control
3-Point Linkage	Cat II With Check Chains	Cat II With Check Chains	Cat II With Check Chains
Lift Capacity (Kg.)	1500 Kg	1485 Kg	1650 Kg
PTO			
Type	STD Independent	STD Independent	STD Independent
PTO RPM (engine rpm)	540 @ 1900	540 @ 1900	550 @ 2100
PTO HP	35 HP	40 HP	44 HP
OPERATING WEIGHT			
Total (Kg.)	1927	2030	2055
DIMENSIONS with Ag Tires			
Overall Length Inches (mm)	3510	3570	2172
Overall Width Inches (mm)	1705	1765	1358
TIRES Sizes and Options			
Ag (Front / Rear)	6.0 X 16 12.4 X 28	6.0 X 16 13.6 X 28	6.0 X 16 12.4 X 28