

# MKM 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



## THE HIGHLY FUEL EFFICIENT, POWERFUL & VERSATILE TRACTOR:

The MKM NST series tractors now comes with an all New MKM series of engines, that are more fuel efficient and offer much more torque. These engines with only 1900 rated rpm (2100 rated rpm in 275 DI, 575 DI & 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 38 to 50 HP
- 10 % back up torque
- 8F/2R speeds with option of full constant mesh transmission
- BOW TYPE FRONT AXLE
- Unclutter operating platform
- Best in class lift capacity

### 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, three cylinder engines with a high displacement and rated at only 1900 rpm (2100 rated rpm in 275DI, 575 DI & 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 585 DI and 595 DI 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 optional 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	275DI - NST	575DI - NST	585DI - NST	595DI - NST
<b>ENGINE</b>				
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	Four Stroke, Turbo, Direct Injection, Water Cooled, Diesel Engine
Cylinders	3	4	4	4
Engine HP @ rpm	38HP @ 2100	45HP @ 1900	50HP @ 2100	50HP @ 2100
Displacement cubic [cc]	2048	2730	2979	2524
<b>ELECTRICAL</b>				
Battery Capacity	12 V, 88 AH	12 V, 88 AH	12 V, 88 AH	12 V, 88 AH
Alternator	12 V, 11 AH	12 V, 11AH	12 V, 11 AH	12 V, 11 AH
<b>CLUTCH</b>				
Type	Single	Dual Clutch	Dual Clutch	Dual Clutch
<b>TRANSMISSION</b>				
Type	Slidingmesh	Constantmesh	Constantmesh	Constantmesh
Number of Gears / Speeds	8 Forward, 2 Reverse	8 Forward, 2 Reverse	8 Forward, 2 Reverse	8 Forward, 2 Reverse
<b>STEERING</b>				
Type	Mechanical	Mechanical	Power Steering	Hydrostatic Steering
<b>BRAKES</b>				
Type	Dry Disc Brakes	Wet Disc Brakes	Wet Disc Brakes	Wet Disc Brakes
<b>HYDRAULIC SYSTEM</b>				
Type	Live Hydraulics With Position & Draft Control	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	Cat II With Check Chains
Lift Capacity [Kg.]	1200	1485	1600	1650
<b>PTO</b>				
Type	-	-	-	-
PTO RPM (engine rpm)	573 @ 1900	540 @ 1900	550 @ 2100	550 @ 2100
PTO HP	34	40	44	44
<b>OPERATING WEIGHT</b>				
Total [Kg.]	1945	2030	2025	2025
<b>DIMENSIONS with Ag Tires</b>				
Overall Length Inches [mm]	3760	3570	2172	2172
Overall Width Inches [mm]	1705	1765	1358	1358
<b>TIRES Sizes and Options</b>				
Ag (Front / Rear)	6.0 X 16 13.6 X 28	6.0 X 16 13.6 X 28	6.0 X 16 14.9 X 28	6.0 X 16 14.9 X 28