MAXIMUM EFFICIENCY WITH ERGONOMIC AND COMFORTABLE CAB
The new operator’s cab interior design of MST 6 series aims to maximize operator’s productivity in intensive and long working hours and minimize work-related fatigue during operations.

HIGH PRODUCTIVITY AND FUEL CONSUMPTION WITH PISTON TYPE PUMP AND FLOWSHARING VALVES (OPTIONAL)
With the piston type hydraulic pump used as an optional equipment in the new MST 6 Series backhoe loaders, the system generates hydraulic power in an amount needed by the operator in a load-sensitive way, so precise control is ensured in all engine speeds. Perfect control is ensured by enabling the machine to perform multiple actions (of the boom, arm, and bucket) simultaneously independent of operator’s skills thanks to the flowsharing valves including in piston type option.

When system does not require any more flow for backhoe, for minimum power loss the system just produces enough flow for the driving system, so that a better traction and low fuel consumption are achieved.

HIGH PERFORMANCE EVEN UNDER THE MOST CHALLENGING CONDITIONS WITH THE STRONG AND DURABLE STRUCTURE
The strong and durable chassis of MST 6 series which is specially designed as suitable for heavy duty applications and produced with advanced technology creates a durable platform for the machine even under the most challenging conditions. Its heavy duty type front and rear axles also have high bearing capacity and display high performance and durability even under the heaviest loads. In addition to the durable structure MST 6 series backhoe loaders also has the highest breakout force in its own class.
HYDRAULIC SYSTEM

With the piston type hydraulic pump used as an optional equipage in the new MST 6 Series backhoe loaders, the system generates hydraulic power in an amount needed by the operator in a load-sensitive way and very precise control is enabled in all engine speeds. Perfect control is ensured by enabling the machine to perform multiple actions (of the boom, arm and bucket) simultaneously independent of operator’s skills thanks to the flowsharing valves including in piston type option.

Thanks to this efficient hydraulic system with closed centered piston pump, the pump is always generating hydraulic power in an amount needed and prevents the machine from consuming fuel to an unnecessary extent.

Thanks to the anti-cavitation valves integrated in the system; the hydraulic system is prevented from being damaged in movements performed in direction of gravity and boom and arm movements are enabled to be faster.

GEARBOX

One of the other main characteristics which make MST 6 series powerful is the heavy duty type Auto Powershift gearbox with Auto shift feature that enables 4 forward and 4 reverse gears. Fuel consumption has been minimized by means of the perfect fit between the gearbox and the engine. This gearbox that makes gear shifts automatically and smoothly also has the feature of 4 wheels traction during operations. This characteristic is highly contributive to the fuel economy by ensuring the machine automatically switches off in 3rd and 4th gears.

AXLES

Heavy duty axles used in MST 6 Series have both high bearing capacity and come into prominence with their durable structure. The risk of skidding is minimized and maximum traction is ensured under most challenging field conditions and slippery grounds by providing different drive distribution between the right and left wheels thanks to the LSD (Limited-Slip Differential) feature existing in the rear axles.

ENGINE

PERKINS diesel engine with 100 HP power specially designed for loader backhoe applications, has a volume of 4.4-liters. High torque values are achieved even in low engine speeds thanks to the turbo and aftercooler features so that lower fuel consumption values may be achieved. This efficient and economic engine is at the same time an environment friendly engine with Tier 4i emission compatibility. It does not only provide maximum efficiency for operators but also take care of not damaging the environment.

EFFICIENT AND ECONOMIC
Wide angle of view, enhanced air nozzles which make less of an air-conditioning influence in every point, cooling cabinet, joystick controls of backhoe, mechanical suspension seat adjustable according to operator’s weight, the steering wheel with adjustable height and depth, double pedal brake system ensures a high operator comfort.

Maximum efficiency with ergonomic and comfortable Cab

Maximum comfort and operator productivity has been ensured with the new cab design with spacious interior volume, leader in its class, that has been fully renewed and improved in order to provide the best working environment for operators. The cab has panoramic front view for a safe and efficient operation.

Primary featured characteristics in the new MST 6 series operator cab:

• Steering wheel column with adjustable depth, height and angle
• Mechanical suspension operator seat that is suitable for heavy duty applications that relieves fatigue of the operator in intensive works
• Air suspension seat (optional)
• Improved air-conditioning system (Optional)
• Cool-box (optional)
• Music system compatible with radio-CD-MP3 player
• Excavator style backhoe joysticks
• Digital front display panel
• Hydraulic boom lock
• Safe cab construction having international ROPS / FOPS certificates
• ISO Patternshifter (optional)
• Hydraulic Sideshift (optional)
STRONG AND DURABLE

• The new MST 6 Series is designed as performance-oriented. It has the best breakout force values in its class on the front loader. Moreover, it meets the operator’s requirements in the best way in terms of pin height and approaching distances to truck values.

• MST 6 series can overcome even the most difficult works with its durable and strong front loader. The front loader bucket’s openable jaw and surfaces exposing to friction are made of special HARDOX steel, the bucket has a capacity with the volume of 1.2 m³ and so has a loading capability that is approximately 10% more when compared to its competitors.

• The ergonomic loader joystick control with pilot control that is provided as an optional equipment is placed in the most suitable position in a way ensuring the maximum comfort to the operator.

• There are control buttons on the front loader control lever that proportionally control of jaw and return to dig (RTD) feature. By this way, the operator is enabled to obtain maximum efficiency while working with the front loader.

THERE IS NO DIFFICULT WORK BUT THERE IS MST 6 SERIES

• Newly designed fast and strong excavator group provides enhanced excavator performance and precise control together.

• It can easily overcome even the most difficult works with its durable and strong steel construction.

• A longer reach distance may be obtained with the extended boom.

• Multiple movements (boom, arm, bucket, telescopic) may be easily performed with lower fuel consumptions thanks to the piston pump option without depending on the operator’s capability.

• It enables working in different areas by using different attachments with optional additional hydraulic lines and quick coupler attachments.

• Hydraulic boom is provided standard in the new MST 6 series machines.

• As an optional equipment excavator style backhoe joysticks with pilot control enable operator controlling the machine precisely and without spending much more effort.

These controls are positioned in the cab ergonomically in the most appropriate place for use by the operator and they may be easily adjusted.
Technical Specifications MST 6 Series

**ENGINE**

- **Engine Data:**
  - Model: 4B5, 4B6 (Stage III-B) or 6B5, 6B6 (Tier 4i)
  - Bore: 115.4 mm
  - Stroke: 133.5 mm
  - Displacement: 4,540 cc
  - Maximum Power: 137 kW (225 hp)
  - Maximum Torque: 450 Nm

- **Fuel:**
  - Diesel: S2, S3, S4, S5, S6

- **Cooling System:**
  - Water: 32.9 liters
  - Oil: 1.9 liters

- **Starting Kit:**
  - For Cold Weather: 120 A Alternator 165 amperes/hour, heavy duty

- **Transmission:**
  - Gearbox: 3-speed, manual, 3rd gear for Hi/Lo speeds
  - Final Drive: 4-speed, manual
  - Clutch: Single plate

- **Hydraulic System:**
  - Main Pump: Optional variable displacement piston pump, Flow sharing valves, closed centered hydraulic system
  - Auxiliary Pump: 250 bar, 90 lt/min.
  - Safety Valve: Anti-shock and anti-cavitation valves

- **Backhoe Performance:**
  - Bucket Breakout Force: 375 kgf
  - Arm Breakout Force: 773 kgf

- **Dimensions:**
  - Overall Dimension: 6.4 m (21 ft)
  - Turning Diameter: 8.5 m (28 ft)

**STEERING WHEEL**

- Soft-Touch steer wheel

**LOADER PERFORMANCE**

- Radii of Rotation: 6.4 m (21 ft)
- Boom Length: 12 m (40 ft)
- Tipping Capacity: 10.5 m³

**FILLING CAPACITIES**

- Fuel: 105 liters
- Gearbox Oil: 2.6 liters
- Axle Oil: 13 liters
- Engine Oil: 8.5 liters
- Coolant: 22.1 liters

**BACKHOE PERFORMANCE**

- Boom Tipping Capacity: 375 kgf
- Bucket Tipping Capacity: 773 kgf
- Tipping Distance: 1.2 m

**DRIVING SPEEDS**

- 1st Gear: 6.1 m/h
- 2nd Gear: 10.1 m/h
- 3rd Gear: 15.4 m/h
- 4th Gear: 22.2 m/h

**TIRES**

- Front: 6.00-16
- Rear: 6.00-16

**WEIGHT**

- Standard Machine Weight: 8,634 kg
- Max Loading Weight: 13,142 kg

**DIMENSION**

- Front Arm Pin - Bumper Distance: 644 mm
- Overall Dimension: 6.4 m (21 ft)
- Turning Diameter: 8.5 m (28 ft)