

THE HARD WORKER



THE MACHINE FOR THE MOST DEMANDING WORKS





AN ERGONOMIC, COMFORTABLE CAB DELIVERS MAXIMUM EFFICIENCY

The MST 6 Series boasts a newly designed cab to help reduce fatigue and keep operator performance at its most efficient, especially during those long, demanding jobs.

HIGH PRODUCTIVITY AND FUEL EFFICIENCY WITH OPTIONAL PISTON TYPE PUMP AND **FLOW SHARING VALVES**

The new MST 6 Series backhoe loaders come with an optional hydraulic piston pump which allows the loadsensitive system to provide the hydraulic power as much as the operator needs, and guarantees precise control and efficiency at every engine speed.

The flow sharing valves which accompany with the piston type pump remove operator limitations and allow multiple movements simultaneously (boom, arm and bucket) for maximum control

To ensure the highest levels of operator comfort and efficiency, a pilot-controlled front loader joystick option is available with the machines that have piston type pump.

A STRONG, DURABLE DESIGN PROVIDES TOP PERFORMANCE EVEN UNDER THE MOST STRENUOUS WORKING CONDITIONS

The MST 6 Series heavy-duty front and rear axles provide high load-bearing capacity and promise top performance under the toughest of conditions.

The MST 6 Series boasts the highest breakout force in its class and its, powerful chassis has been designed and produced with highest technology to be the robust foundation of the machine, helping it to withstand whatever the job throws at it.

EFFICIENT AND ECONOMICAL



The 100 HP PERKINS diesel engine has been specifically designed for backhoe loader applications and has a volume of 4.4 liters. Its turbocharger and aftercooler mean that high torque can be achieved even at low rpm, allowing the engine to run with increased power and efficiency.

This highly efficient, economical engine is also environmentally friendly as it meets all the Vehicle Emission Standards. The result? Maximum efficiency without damaging the environment

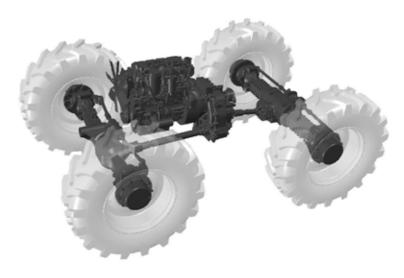
TRANSMISSION

The Auto PowerShift transmission is one of the main components which provide the MST 6 Series with its incredible power. The heavy-duty gearbox includes 4 forward and 4 reverse gears, and has Autoshift capability. The transmission and engine work together in perfect harmony, which means fuel consumption is kept to a minimum.

The gearbox performs seamless automatic gear changes and offers a 4-wheel drive feature while on the job. This feature is automatically disabled in 3rd and 4th gear to maximize fuel economy.

With the flow sharing valves which accompany with the piston pump, operator limitations are eliminated and multiple parts (boom, arm and bucket) can be moved simultaneously for maximum control, not limited by the operators' capabilities.

Anti-cavitation valves integrated into the system prevent inertia load damage to the hydraulic system, and allow the boom and arm to move faster.



HYDRAULIC SYSTEM

A powerful and efficient hydraulic system with high flow capacity achieves top performance, especially when under heavy loads.

New MST 6 Series backhoe loaders with the optional hydraulic piston pump feature use a load-sensitive system to provide the operator with all the hydraulic power required, guaranteeing precise control and efficiency at every engine speed.

In machines with closed centered and variable displacement pumped hydraulic systems, when hydraulic power is not required it's simply not produced, reducing unnecessary power loss. This means more power can be sent to the drivetrain, resulting in better performance when loading and driving.

This highly efficient closed-center piston pump hydraulic system means the pump always provides exactly the right amount of hydraulic power required, cutting down on unnecessary fuel consumption.

AXLES

The heavy-duty axles used in the MST 6 Series provide high load-carrying capability and are integral to the machine'srobust, sturdy construction.

The **LSD (limited slip differential)** on the rear axle is able to deliver different levels of torque to the left and right wheels, which reduces the risk of skidding and provides maximum traction, even on challenging worksites and slippery surfaces with this uniquie function not onlytires' lifetime are being extended but also fuel efficiency and work cyle times are being improved.



MAXIMUM COMFORT AND EFFICIENCY



The new MST 6 Series has top performance at the core of its design. The front loader boasts the highest breakout force in its class. Furthermore, the pin height and truck approach distance values are able to meet the needs of the operator in the best way possible.

The positioning of the ergonomic joystick-type loader control lever ensures maximum comfort for the machine operator. Piston pump models come with a pilot-controlled front loader joystick option, allowing for precise control which won't put strain on the operator.

The **RTD (Return To Dig)** switch on the front loader lever allows for automatic loading. The front bucket will operate automatically through a defined range of movement, so the operator can carry out repetitive work with ease.

The front loader lever also features controllers which allow the openingclaw front loader bucket to be controlled proportionally. This means that operators can work with maximum efficiency when using the front loader.

POWERFUL FRONT LOADER

The optional Quick Hitch on the front hydraulic arm lets users mount a range of attachments quickly and easily, minimizing drops in productivity.



The MST 6 Series powerful, heavyduty front loader can take on the most demanding tasks. The opening-claw front loader bucket is manufactured from abrasionresistant **HARDOX** steel, and has a volume of **1.2 m**³. This provides a loading capability which is about 10% greater than that the competitoes.



POWERFUL AND ROBUST

This newly designed backhoe series brings together increased excavation performance and delicate precision.

A sturdy steel construction lets the MST 6 Series tackle even the toughest jobs with ease.

The extendable boom optional reaches farther and deeper than ever before.

With the optional piston pump, multiple simultaneous movements (boom, arm, bucket, telescopic) are no longer restricted to the capabilities of the operator, and can be executed using less fuel.

A hydraulic boom lock comes as standard on the new MST 6 Series machines. This lock is controlled via a button within the cab.

Backhoe joysticks allow the operator to control the machine with total precision, but without using excess power. These joysticks have been ergonomically positioned within the cab for ease of use and are adjustable.

The optional ISO Pattern Shifter (control diverter) prioritizes the preferences of the operator and allows the backhoe controllers to switch between the use of SAE or ISO standards at the touch of a button within the cab. This feature means that operators can easily switch between standard and inverted joystick control.





The backhoe bucket can be mounted to two different points on the backhoe arm. This allows the operator to change the pin position as needed, and work with more power (P) or more speed (S).

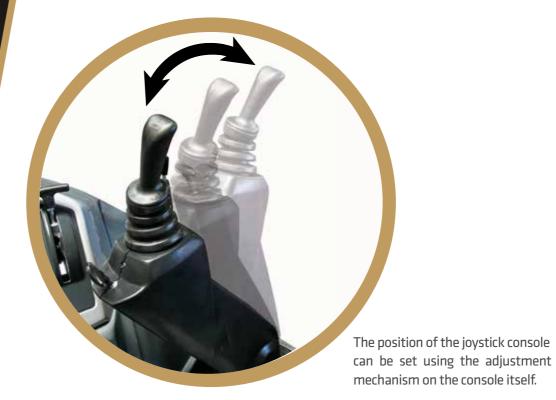


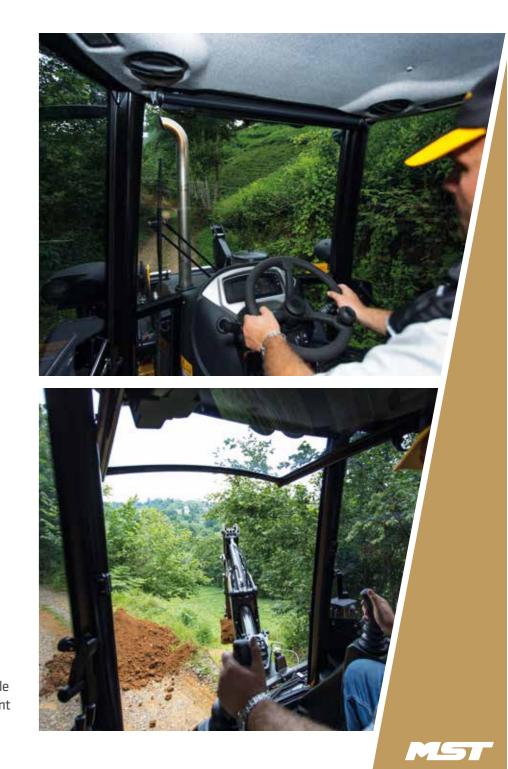
SPACIOUS INTERIOR ENHANCED ERGONOMICS

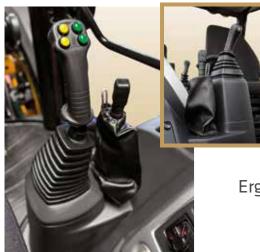
COMFORTABLE and USER-FRIENDLY

The new cab has been redesigned from the ground up to provide the machine operator with the best possible working environment and to allow for maximum efficiency. This class-leading cab boasts a panoramic field of vision, enhanced ergonomics and a spacious interior.

The angle of the newly designed, pilot-controlled backhoe joysticks can be adjusted depending on the type of excavator being used and on the preferences of the operator. This ensures operator comfort and helps maintain precise control, even during the longest and most testing of jobs.







Pilot-controlled front loader joystick (optional)

Ergonomic joystick-type front loader lever



Radio-CD-MP3 music system ISO Pattern Shifter (control diverter) **(optional)** Hydraulic boom lock



Digital front cluster and ergonomic steering wheel



Steering column's height, depth and angle can be adjusted

Improved air conditioning and ventilation system **(optional)** Cool-box compartment for drinks **(optional)**

Operator seat with anti-fatigue with air suspension for heavy-duty use over extended periods.











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Strong and durable front loader bucket with a capacity of 1.2 m³.



Non-metallic polypropylene (PP) fuel tank, offered as standard, prevents tank erosion and fuel system contamination.

MST



Long-life LED rear stop-lights with high luminosity.

WITH YOU ALL THE WAY

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AN EXTENSIVE SERVICE and REPLACEMENT PART NETWORK

With authorized dealers in all over the world, we serve our customers quickly and effectively.

Replacement parts for MST backhoe loaders are readily available, meaning yours will be with you as soon as possible, so you can get back to work in no time at all.

HASSLE-FREE MAINTENANCE

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The easy-to-open battery box is positioned under the cab steps for ease of access, making any necessary maintenance or replacements quick and efficient.

All lubrication points on the boom and arm have been positioned to allow easy access. This means the operator spends less time when carrying out periodic lubrication.

The fuse box is positioned inside the cab for easy access, while also being protected against dirt and moisture. Fuses are located behind a quick-open maintenance hatch.

The hosing set on the new 6 Series now comes in multiple sections, allowing for faster maintenance and servicing, while reducing the cost of replacement parts.



YOU'RE OUR TOP PRIORITY







SAFETY FIRST

The operator cab is ROPS and FOPS certified.

The rear boom can be kept stable with the hydraulic boom lock.

The rear stabilization legs feature a large surface area and guarantee stability, even on uneven surfaces.

High-powered working ligths ensure safe working conditions at night.

Safe braking is maintained during any potential engine issues, even if the engine fails completely.

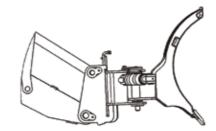
Seatbelts are integrated with the air-suspension operator seat for safety on the job or on the road.





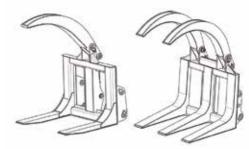
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OPTIONAL ATTACHMENTS



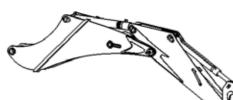
Grading Blade

Rotating grading blade which can be mounted to the arm quickly and easily.



MST

Single and Double Log Grapplers Hydraulic single and double log grapplers allow logs of any size to be lifted and stacked.



Hydraulic Auger

The hydraulic auger is one example of the excavation attachments which can be mounted to the rear arm.

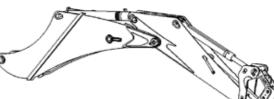


Allows for fast and easy excavation attachment changes. Mechanical options available.



The hydraulic side-shifter is controlled from the cab and can slide the excavation set to the right or left. Can be fixed at the desired point.

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Hydraulic Hammers

Hydraulic hammers are perfectly suited to the backhoe loader group. High-quality seals ensure that there is no loss of nitrogen pressure within the hammer, providing continuous highpowered impact.



Emissions class	Stage III-A (Tier 3)	Stage III-B (Tier 4i)
Model	1104D - 44TA Diesel Engine	1204E - 44TA Diesel Engine
Number of Cylinders	4 inline	4 inline
Caliber x Stroke	105 x 127 mm	105 x 127 mm
Displacement	4.400 cc	4.400 cc
Max. Power	74.5 kW, 100 hp (@2200 rpm)	74.5 kW, 100 hp (@2200 rpm)
Max. Torque	410 Nm (@1400 rpm)	450 Nm (@1400 rpm)

• A reliable, fuel-efficient, low-maintenance diesel engine which uses the latest technology. Features high power and torque output, water cooling,

a turbocharcher and intercooling • Complies with EU Stage III-A/III-B and US EPA Tier 3/4i emission regulations

Highly efficient tandem gear pump open-center hydraulic system (standard) Closed-center hydraulic system with optional variable flow piston pump, and flow sharing valves

	Gear pump	Piston pump
Main pump	2200 rpm	2200 rpm
Flow	90 lt/dk	163 lt/min
Pressure	240 bar	240 bar
Auxiliary pump	2200 rpm	
Flow	65 lt/min	
Pressure	207 bar	

Anti-shock and anti-cavitation valves
On models featuring a gear pump, an electronically controlled "Unloader Valve" is provided, which disables the auxiliary pump while on the road or as the operator sees fit, preventing unnecessary power expenditure
Pilot-controlled front hydraulic joystick (optional) allows the operator to use the machine using less power

• Ergonomically positioned, pilot-controlled joystick-type Beko controls designed to control the backhoe group with minimal operator effort • Safety system to disable the hydraulic joysticks while driving • 10 micron oil filter

	Stage III-A (Tier 3)	Stage III-B (Tier 4i)	
Voltage	12 V	12 V	¥
Battery	135 amps hour heavy duty	165 amps hour heavy duty	ECTRIC
Alternator	85 A	120 A	EL

Service Brake: Oil bath, hydraulically operated, self-adjusting disc brakes located within the rear axle, with separate brake pedals for the left and right wheels

Parking Brake: Hand lever-controlled mechanical brake, effective on the rear axle differential

Hydraulic steering system	
Steering column's height, depth and angle can be adjusted	
Soft-Touch steering wheel	

Heavy-duty Auto PowerShift transmission	
4 forward and 4 reverse gears	Z
2 or 4-wheel drive switch	SIO
2.64 / 1 stall ratio converter	AIS:
Safety system to prevent engine start while in gear for safe operation	ANSA
Transmission lubricant cooling	R I

Engine oil	8,5 lt	
Engine cooling system	18 lt	
Fuel tank	140 lt	
Hydraulic lubrication tank	105 lt	
Transmission lubrication	20,5 lt	AC
Front axle differential	8,5 lt	AP
Front axle heads	2 x 0,8 lt	2
Rear axle differential	13 lt	
Rear axle heads	2 x 1,5 lt	E

Opening bucket capacity	1,2 m³	NCE
Bucket breakout force	7734 kgf	MAN
Arm breakout force	5905 kgf	DER FOR
Max. height lifting capacity	3500 kgf	LOA

	TB (Extended)	TB (Retacted)
Rear bucket capacity	0,17m³	0,17m³
Bucket breakout force	6424 kgf	6424 kgf
Arm breakout force	2506 kgf	3461 kgf
Max. lifting capacity (telescopic boom)	750 kg	1500 kg

At 2200 rpm	
1st gear	6,14 km/ hour
2nd gear	10,11 km/ hour
3rd gear	22,18 km/ hour
4th gear	41,93 km/ hour

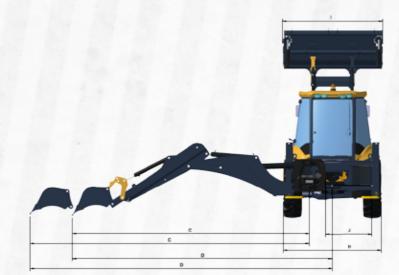
Heavy-duty axles	
16o front axle rocking	6
Outboard planetary reduction	LE
LSD (limited slip differential) on the rear axle	🚽

Turning radius (while braking)	9,8 m	
Turning radius (without braking)	11,1 m	
Turning radius of outermost point (with- out braking)	12,2 m	NING
Turning radius of outermost point (with- out braking)	13,1 m	TURN RADI

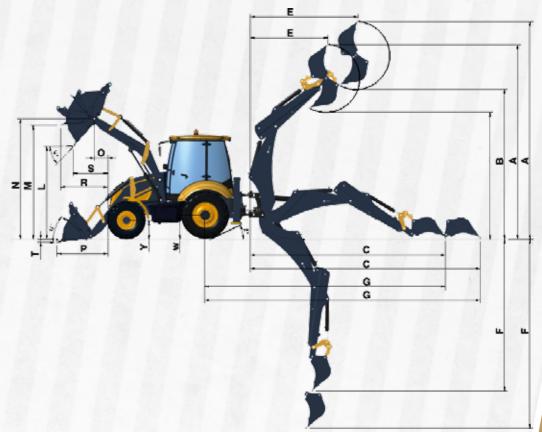
Font tires	16/70 - 20 (14 Layers)	
Rear tires	16.9 - 28 (14 Layers)	TIRES

weight (telescopic boom, 8840 kg hydraulic cylinder)

	TB (Extended)	TB (Retacted)
Norking height	6470	5790
Max. Loading Height (mm)	4493	3812
Straight extension distance (mm)	6687	5677
Machine to central axle distance (mm)	7264	6273
.oading distance (mm)	3127	2198
SAE maximum digging depth (mm)	5514	4292
Maximum digging depth (provided by manufacturer) (mm)	6014	4792
Extension distance from rear axle (mm)	8020	7034
Rear frame base width (mm)	23	315
Bucket width (mm)	24	100
Total kingpost travel (mm)	1	111
Bucket rotation (o)	2	05
Dumping height (mm)	26	528
.oading height (mm)	32	277
Pin height (mm)	34	482
Front arm pin to damper distance (mm)	4	43
Bucket claw to damper distance (mm)	14	481
Bucket claw to damper distance at max. height (mm)	14	40
Dumping distance (mm)	10	012
Digging depth	1	18
Roll back angle (o)	4	43
Dumping angle (o)	4	16
Rear wheel axle ground clearance (mm)	6	43
otal travel length (mm)	62	228
Front wheel axle ground clearance (mm)	6	43
Departure angle (o)	2	28
Kingpost clearence	6	39
Dperator cab roof height (mm)	30)85
fotal travel height (mm)	38	326
Steering center ground clearance (mm)	21	167
Vheelbase (mm)	22	287
Slew center to rear axle center distance (mm)	13	862
Stabilezer feet clearence (mm)	4	40



TECHNICAL SPECIFICATIONS





MST



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Hydraulic steering system
Steering column's height, depth and angle can be adjusted
Soft-Touch steering wheel

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4 forward and 4 reverse gears	
2 or 4-wheel drive switch	
2.64 / 1 stall ratio converter	
Safety system to prevent engine start while in gear for safe operation	
Transmission lubricant cooling	

8,5 lt	
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140 lt	
105 lt	
20,5 lt	AC
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2 x 1,5 lt	נ ו
13 lt	
2 x 1,5 lt	E
	18 lt 140 lt 105 lt 20,5 lt 8,5 lt 2 x 1,5 lt 13 lt

Opening bucket capacity	1,2 m ³	Ľ
Bucket breakout force	7734 kgf	MANI
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	TB (Extended)	TB (Retacted)
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At 2200 rpm	
1st gear	6,14 km/ hour
2nd gear	10,11 km/ hour
3rd gear	22,18 km/ hour
4th gear	41,93 km/ hour

Heavy-duty axles	
16o front axle rocking	6
Outboard planetary reduction	E
LSD (limited slip differential) on the rear axle	F

Turning radius (while braking)	8.4 m	
Turning radius (without braking)	9.85 m	
Turning radius of outermost point (without braking)	10.15 m	URNING
Turning radius of outermost point (without braking)	11.45 m	TURN RADI

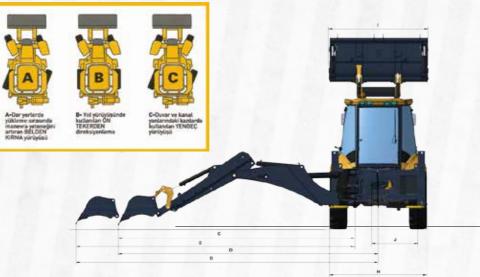
Font tires	16.9 - 28 (12 Layers)	
Rear tires	16.9 – 28 (12 Layers)	TIRES

Standard machine operating		
weight (telescopic boom,	9200 kg	5
hydraulic cylinder)		E
		3



YY S ZZ S

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Maximum digging depth (provided by manufacturer) (mm)	6014	4792
Extension distance from rear axle (mm)	8020	7034
Rear frame base width (mm)	2315	
Bucket width (mm)	2400	
otal kingpost travel (mm)	1111	
Bucket rotation (o)	205	
Dumping height (mm)	2628	
.oading height (mm)	3277	
Pin height (mm)	3482	
Front arm pin to damper distance (mm)	443	
Bucket claw to damper distance (mm)	1481	
Bucket claw to damper distance at max. height (mm)	1440	
Dumping distance (mm)	1012	
Digging depth	118	
Roll back angle (o)	43	
Dumping angle (o)	46	
Rear wheel axle ground clearance (mm)	46 643	
otal travel length (mm)	6228	
ront wheel axle ground clearance (mm)	643	
Departure angle (o)	28	
Kingpost clearence	639	
Dperator cab roof height (mm)	3085	
otal travel height (mm)	3826	
Steering center ground clearance (mm)	2167	
Vheelbase (mm)	2287	
ilew center to rear axle center distance (mm)	1362	
Stabilezer feet clearence (mm)	440	



TECHNICAL SPECIFICATIONS



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FACTORY ADRESS

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