

THE FUTURE CONSTRUCTOR















642
PLUS

MST

The MST 6 PLUS Series features a new interior design, reducing fatigue and maximizing operator performance, especially during long and demanding works.

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

The MST 6 PLUS Series has the highest breakout force in its class. Its robust chassis is designed and produced with the highest technology, providing it with the necessary strength.

 Specially designed reinforced boom provides top performance under demanding conditions.	 Additional impact-resistant hydraulic cylinder hidden behind the arm.	 Far-reaching telescopic arm(optional)	 Wear-resistant trencher buckets with varying capacities, suitable for excavating, loading and lifting jobs.
 Hydraulic boom lock, controlled from the cabin.	 New large-surface stabilizer legs.	 Ergonomic operator cab with ROPS and FOPS certification, in compliance with international standards.	 Fresh air intake vent and pollen filter.
 Strong and durable front loader bucket with a capacity of 1.2 m ³	 Non-metallic (polypropylene) fuel tank, offered as standard equipment, prevents tank erosion and protects fuel system.	 Long-life LED tail lights with high luminosity.	 100% differential lock on rear axle ensures maximum traction.



- Pilot-controlled front and rear joysticks.
- Radio-CD-MP3 music system.
- ISO Pattern Shifter. (Optional)
- Digital front cluster and ergonomic steering wheel.
- Extra storage area on the roof for operator comfort.
- Improved air conditioning and ventilation system. (Optional)
- Cool-box compartment for drinks. (Optional)
- Anti-fatigue operator seat with air suspension, suitable for long hours operating under heavy-duty conditions.
- Hydraulic boom lock

642 PLUS

ENGINE

Emissions Class	Stage V
Model	904J-E36TA Diesel Engine
Number of Cylinders	4 in line
Caliber x Stroke	98 x 120 mm
Displacement	3.6 l
Max. Power	100 HP (74,4 kW) @2400 rpm
Max. Torque	430 Nm @1500 rpm

- A reliable, fuel-efficient, low-maintenance diesel engine which uses the latest technology. Features high power and torque output, water cooling, a turbocharger and intercooling
- Complies with EU Stage V and U.S. EPA & CARB Tier 4 Final Emission Regulations

TRANSMISSION

Heavy-duty Auto PowerShift transmission
4 forward and 4 reverse gears
2 or 4-wheel drive switch
Max. Travel Speed 40 km/h
2.64 / 1 stall ratio converter
Safety system to prevent engine start while in gear for safe operation
Transmission lubricant cooling

LOADER PERFORMANCE

Loader Bucket Capacity	1,2 m ³
Bucket Breakout Force	7734 kgf
Arm Breakout Force	5905 kgf
Maximum Lifting Capacity	3500 kg

BRAKES

- Service Brake:** Oil bath, hydraulically operated, self-adjusting disc brakes located within the rear axle, with separate brake pedals for the left and right wheel.
- Parking Brake:** Hand lever-controlled mechanical brake, effective on the rear axle differential.

HYDRAULIC SYSTEM

High-efficiency, closed center hydraulic system with variable-flow piston pump, renewable flowsharing and regeneration featured (Flowcharging) valves.

Main Pump	2200 rpm
Flow	158,4 l/min @2200 rpm
Pressure	240 bar

- Anti-shock and anti-cavitation valves
- Axial piston pump for MST 6 Series Backhoe Loaders is used as standard equipment provides hydraulic power in an amount required by the user and operates with an efficiency of up to 95% with precise control independent from engine speeds.
- A substantial fuel economy is obtained during operation with the load sensing system in variable flow piston pumps
- 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 even in low engine speeds.
- Pilot-controlled front hydraulic joystick 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

ELECTRICAL SYSTEM

Voltage	12 V
Battery	135 amp/h (heavy duty)
Alternator	120 A

AXLES

Heavy-duty axles	
16" front axle rocking	
Outboard planetary reduction	
100% differential lock on rear axle	
Turning Circle (While Braking)	8,075 m
Turning Circle (Without Braking)	10 m

WEIGHT

Operating Weight With Telescopic Arm	9000 kg
Operating Weight With Standart Arm	8720 kg
*With full fuel tank, hydraulic and service fluids and 75 kg operator weight included	

FILLING CAPACITY

Engine Oil	10,5 l
Engine Cooling System	17 l
Fuel tank	140 l
Hydraulic Oil Tank	62 l
Total Hydraulic System Volume	145 l
DEF Tank	18 l
Transmission Lubrication	21 l
Front Axle Differential	7,5 l
Front Axle Heads	2 x 0,80 l
Rear Axle Differential	16 l
Rear Axle Heads	2 x 1,5 l

STEERING

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

BACKHOE PERFORMANCE

	TB Extended	TB Retacted
Rear Bucket Capacity	0,17m ³	0,17m ³
Bucket Breakout Force	6424 kgf	6424 kgf
Arm Breakout Force	2506 kgf	3461 kgf
Max. Lifting Capacity (Telescopic Boom)	750 kg	1250 kg

TIRES

Front Tires	405/70-20" (12 PR)
Rear Tires	16.9 - 28 (14 PR)

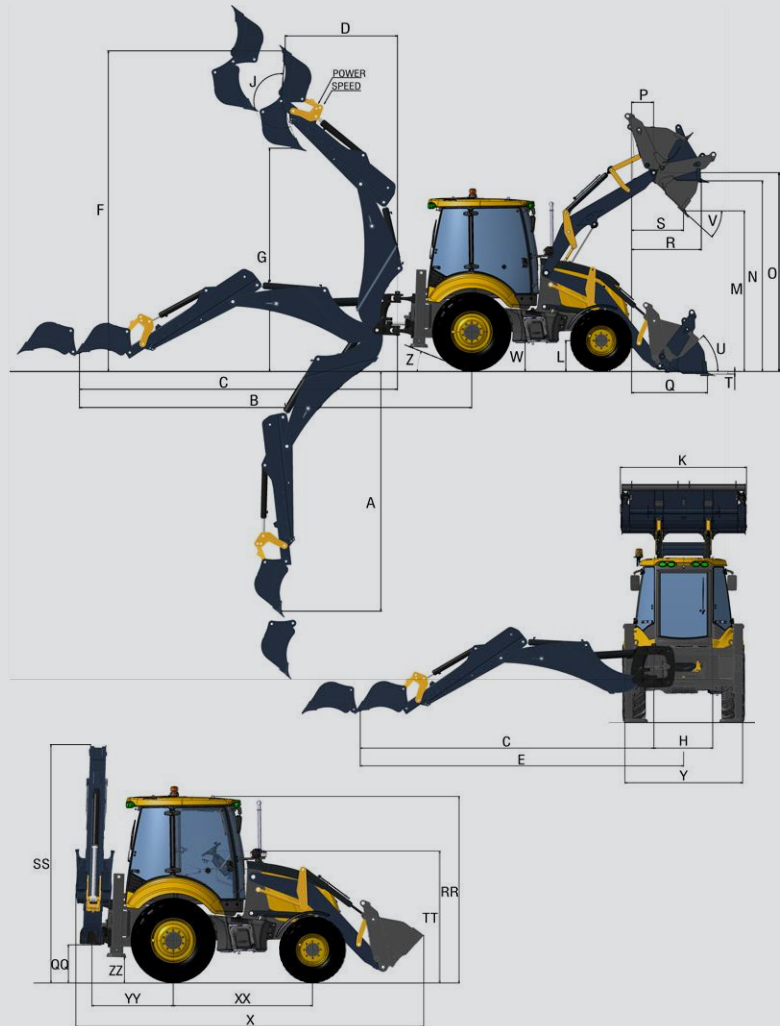


642 PLUS



DIMENSIONS

	Fixed dipper	TB Extended	TB Retracted	
A	SAE Maximum dig depth (mm)	4075	5350	4255
A	Maximum dig depth (mm)	4575	5850	4755
B	Reach - ground level to rear wheel centre (mm)	6866	8027	7026
C	Reach - ground level to slew centre (mm)	5480	6641	5640
D	Reach - at full high to slew centre (mm)	1727	2776	1936
E	Side reach -to centre line of machine (mm)	6005	7149	6147
F	SAE operating height (mm)	5509	6347	5653
G	Max loaderover height (mm)	3764	4623	3912
J	Bucket Rotation (°)	205		
K	Shovel Width (mm)	2400		
Y	Rear frame width (mm)	2250		
SS	Total travel clearance (mm)	3838		
QQ	Kingpost clearance (mm)	542		
Z	Departure angle (°)	19		
ZZ	Stabilizer feet clearance (mm)	338		
YY	Slew centre to rear axle centre distance (mm)	1388		
XX	Axle centreline distance (mm)	2237		
X	Total travel length (mm)	5740		
TT	Steering wheel centre height (mm)	2057		
RR	Cab roof height (mm)	3071		
P	Pin forward reach (mm)	377		
S	Reach at full height fully dumped (mm)	900		
R	Max. reach at full height (mm)	1124		
V	Dump angle (°)	43		
M	Dump height (mm)	2800		
N	Load over height (mm)	3328		
O	Loader hinge pin height	3481		
U	Roll back at ground (°)	44		
T	Dig depth (mm)	124		
Q	Reach at ground (toe plate horizontal) (mm)	1317		
H	Total kingpost travel (mm)	1125		
W	Rear wheel centre to ground (mm)	643		
L	Front wheel centre to ground (mm)	496		



MST

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