



MST110CR

360° Rotating Carrier

Specifications		
MODEL	MST110CR	
	IMPERIAL	METRIC
PERFORMANCE		
Maximum Payload	24,251 lbs	11,000 kg
Loading Capacity (Struck/Heaped)	5.7 / 8.1 yd³	4.36 / 6.17 m³
Travel Speed (High/Low)	7.3 / 4.7 mph	11.8 / 7.6 km/h
Ground Pressure (Empty/Loaded)	5.1 / 8.7 psi	35.4 / 59.7 kPa
MACHINE DIMENSION & WEIGHT		
Operating Weight	35,274 lbs	16,000 kg
Overall Length	19' 8"	6,000 mm
Overall Width	9' 9"	2,980 mm
Overall Height	10' 8"	3,250 mm
Min. Ground Clearance	22"	570 mm
Crawler Width	31"	800 mm
DUMP BED (INNER)		
Dump Bed Style	Scoop End	
Length×Width×Height	10' 0" × 9' 0" × 2' 1"	3,050 × 2,750 × 635 mm
ENGINE		
Name	CAT C7.1	
Nominal Output	253 HP / 2,200 rpm	186 kW / 2,200 rpm
FUEL USED		
	Diesel	
TANK CAPACITY		
Fuel Tank Capacity	87.2 gal (US)	330 ℓ
Hydraulic Oil Tank Capacity	40.7 gal (US)	154 ℓ
DEF Tank Capacity	8.5 gal (US)	32 ℓ
Emission Standard	Tier4 Final / EU Stage V	

● Specifications are subject to modify without notice

Dimensions		
A	6,000 mm	19' 8"
B	3,800 mm	12' 6"
C	1,190 mm	3' 11"
D	2,770 mm	9' 1"
E	5,450 mm	17' 10"
F	1,685 mm	5' 6"
G	45°	
H	26°	
I	3,150 mm	10' 4"
J	3,250 mm	10' 8"
K (inside dimension)	635 mm	2' 1"
L	60°	
M (inside dimension)	2,750 mm	9' 0"
N	3,400 mm	11' 2"
O	3,720 mm	12' 5"
P (inside dimension)	3,050 mm	10' 0"
Q	800 mm	31"
R	2,980 mm	9' 9"
S	2,180 mm	7' 2"
T	570 mm	22"



- Auto Deceleration
- Anti Stall Function
- Hardox® In My Body certified dump bed
- Electric Control Joystick

CAT C7.1 Engine Tier 4 Final/EU Stage V

Significantly reduces emissions of PM (particulate matter) and NOx (nitrogen oxides), contributing to environmental protection.

Environmental performance

Adoption of the latest clean engine! "Caterpillar C7.1"

Equipped with a clean engine that meets the world's strictest Stage V standards.

"Auto decel function"

When the travel control lever, swing lever, etc. are placed in neutral for a certain period of time, the engine speed is automatically lowered.

This reduces excess fuel consumption and CO₂ emissions, and also reduces noise when the vehicle is stationary.

stageV

eco

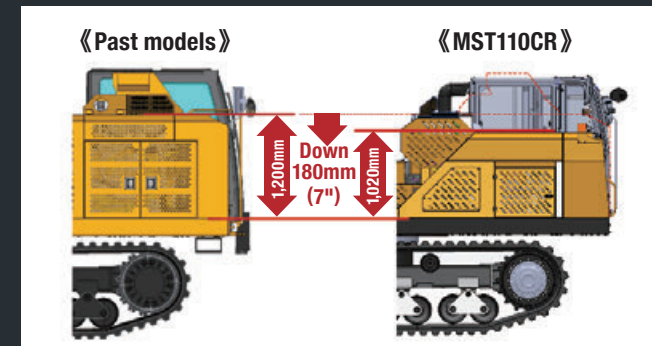
Improved functionality

Equipped with "anti-stall function"

When the load on the engine becomes large, such as during loading, running uphill, or turning, the hydraulic equipment automatically senses the load and adjusts the flow rate to prevent engine stall.

Significant improvement at right side of machine visibility!

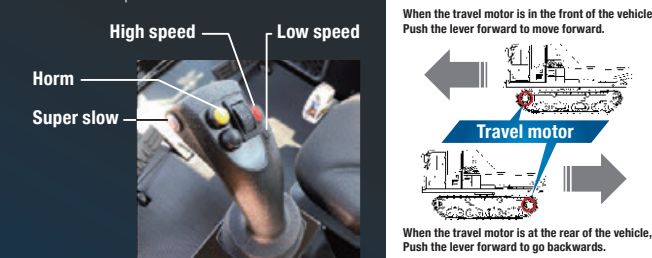
Compared to the similar model MST-2200VDR, the placement of the engine after-treatment device has been optimized to reduce the height of the engine cover. The area you can see directly has increased, allowing you to work more safely than before.



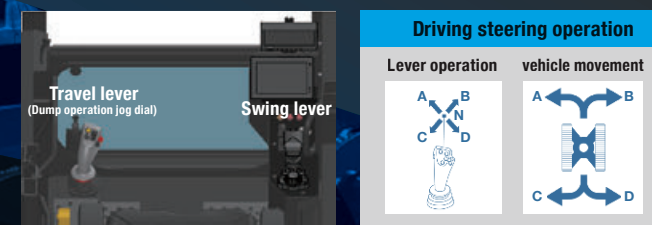
"Electronically controlled joystick lever"

In conventional hydraulic pilot systems with two levers, the direction of lever movement and the vehicle's travel direction can vary depending on the position of the travel motor.

The new model detects the direction of the vehicle and always moves in the direction in which the lever is pushed, making it easier to operate.



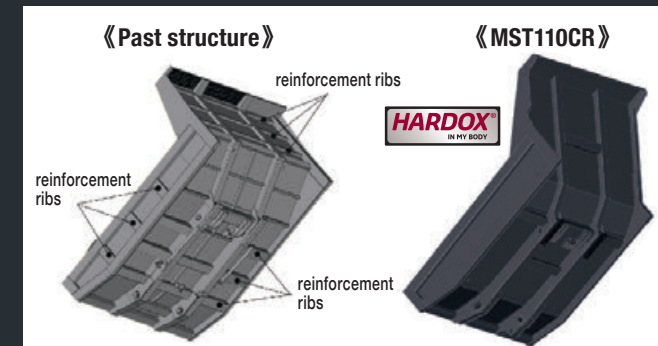
Realizes comfortable driving operation



The dump bed now lasts even longer! (Comparison of our similar models)

Although the maximum loading capacity is 11 tons, we have adopted a wear-resistant steel plate, HARDOX, at the front of the inside of the dump bed, and the structure of the dump bed has been revised from the ground up, greatly improving the durability of the dump bed.

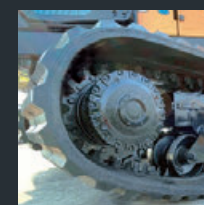
External damage caused by bucket claws is also reduced, contributing to lower running costs. In addition, it has been certified as "HARDOX IN MY BODY" by SSAB AB.



Increase of running speed

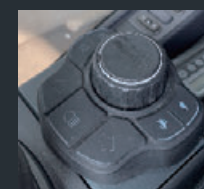
Following the proven HST system, the newly adopted hydraulic pump increases vehicle speed by 18% compared to the similar model.

This contributes to improving productivity.



"Multi-function switch"

The engine throttle and operation buttons, which were previously placed individually on the console, have been replaced with a "multi-function switch" that fits in the palm of your hand, making them easier to operate.



"Hold Grip"

A "hold grip" is equipped to support your body even when riding on uneven terrain.



"Super slow mode"

A "Super slow mode" allows you to drive with confidence when close to surrounding machinery during field work, when you need to make careful fine adjustments, such as when loading onto a truck or moving a vehicle to a pit.



Adoption of touch panel LCD monitor

The latest touch panel provides intuitive and easy-to-understand operation, and the screen is large and easy to read.

Improved safety and maintainability

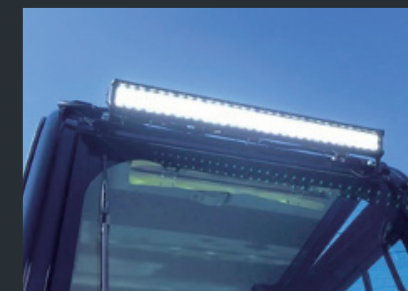
ROPS/FOPS cabin

Equipped with ROPS and FOPS cabin to protect the driver's seat in the event of a fall, ensuring a safe work space for the operator.



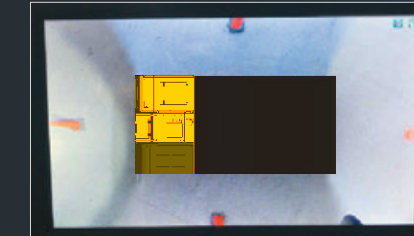
LED light

Equipped with an LED light with high illumination and long life. Visibility is improved even at night, making work safer.



3D 360 monitor

Omnidirectional cameras support the operator's blind spots, making work safer.



*Product image for illustration purposes only. Actual product may vary

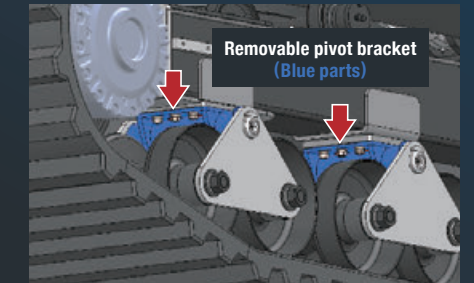
Lighter movable steps!

The movable aluminium step on the front of the vehicle, making it easier to set up.



Improved replaceability of undercarriage parts!

The area around the pivot shaft in the undercarriage, which is susceptible to loads from the ground, has been made removable to make it easier to replace.



New setting of dump lock pin

Locking structure of the dump lock has been changed from the conventional bar type to a pin type, and has been replaced in a straightforward position.

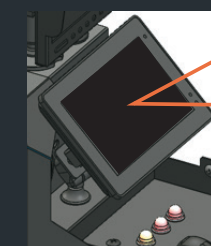


Equipped with overload prevention function

When the vehicle is stopped, press the "load measurement mode button" on the joystick, the loading platform will rise to a preset position, and the loaded mass will be estimated from the hydraulic pressure applied to the dump cylinder.

If the approximate result does not exceed the definite volume, "OK" will be displayed on the monitor, and if it has exceeded the definite volume, "OVER" and the approximate value of the measurement result will be displayed.

*The measurement results of this function are not compliant with the Measurement Law. This alerts the operator to overloading, and the measured value is only an estimate, so please use a truck scale for accurate measurements.



Monitor display (image)

Load measurement mode
Overload judgment
OK

Load measurement mode
Overload judgment
OVER
15,000kg