



Al-Barghash Tower Prince Turkey Street Al Khobar Saudi Arabia

MOMAC KOTAI

MOTOR GRADER KG220

As manufacturer, **KOTAI** has right to constantly upgrade and improve our products without informing to customers. The pictures in literatures are for reference only, the detailed specifications are subject to real products.



# MOTOR GRADER

KG220



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KEY FEAUTURES

01 POWER SYSTEM

Adopting the Shangchai 7H series electronically controlled common rail engine and SCR+DPF post-treatment technology, the engine achieves full national V emissions; This engine has the characteristics of small displacement and sufficient torque reserve. While meeting performance requirements, it reduces engine speed, vibration noise, fuel consumption, and is more environmentally friendly.

03 TRANSMISSION

Choose Hangzhou Gear Electro Hydraulic Control Power Shift Transmission, single handle operation; The forward 6-speed and backward 3-speed design optimizes power matching and carefully sets the driving speed for each gear considering various working conditions, ensuring a perfect unity of strong traction and the most suitable driving speed under various operating conditions, resulting in higher work efficiency; The perfect combination of an electro-hydraulic control gearbox and a diesel electronic control engine ensures both strong traction and high driving speed.

02 HYDRAULIC SYSTEM

A single gear oil pump is used to supply oil to two control valves through a diversion valve, and the rotary oil circuit is combined, which ensures the speed of each action and reduces the energy consumption of the entire system. Hydraulic locks are installed on multiple circuits such as the lifting device, side swing, frame hinge, and front wheel side swing to achieve precise control of actions.

04 STRUCTURE

The box shaped cross section beams of the front and rear frames with variable cross-sections and the A-shaped U-shaped variable cross-section traction frame, while ensuring strength, control the structural dimensions and create convenient conditions for the design of the motion relationship of the working device; Due to its compact structure and small weight, it is also advantageous for the design of the overall bridge load distribution.

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KEY FEAUTURES

05 CABIN

The central electrical control box and LCD instrument panel are selected in the cab to create a friendly human-machine interaction; The main electrical components are concentrated in the central electrical control box, and the position of the electric control box is arranged reasonably to make the whole machine inspection and maintenance more convenient; The whole machine is integrated into the Beidou navigation system, which can remotely monitor the operating parameters and positioning of the whole machine, providing users with remote guidance and services.

06 HUMANIZED DESIGN

The application of ergonomics in appearance design has comprehensively improved the overall appearance, cab, interior, and other aspects of the machine, resulting in a beautiful, rugged, and three-dimensional appearance; The integral front glass provides a large field of view; Optimized the air conditioning duct to make the operating environment more comfortable; Integrated adjustable control panel, injection molded shell, novel and generous appearance, good overall rigidity.



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TECHNICAL PARAMETER

COMPONENT	ITEM	DESCRIPTION
01 OVERALL DIMENSION	Length	9250 mm
	Width	2600 mm
	Height	3420 mm
	Wheel base	6100 mm
	Tread	2120 mm
02 ENGINE	Model	Shangchai SC11CB220G2B1
	Type	Dircet injection / Turbocharged / Water cooling
	Rated power	162kW@2000 rpm
	Max. torque	844N.m@1400 rpm
03 TRANSMISSION SYSTEM	Traveling speed [forward]	6.9 / 11.8 / 15.5 / 26.2 / 32.6 / 50.9
	Traveling speed [reverse]	6.9 / 15.5 / 32.6
04 MOLDBOARD	Dimensions	4320*580*20mm

COMPONENT	ITEM	DESCRIPTION
05 HYDRAULIC SYSTEM	System pressure	17.5 MPa
	Flow rate at engine rated speed	154 L/min
06 STEERING SYSTEM	Max.turning range	±49°
	Frame articulation	±26°
	Min. turning radius	7400 mm
	System pressure	16 MPa
07 AXLES	Flow rate at engine rated speed	55 L/min
	Front axle	Ground clearance 610 mm and oscillation angle ±16°
	Wheel lean angle	±17°
08 TANDEM DRIVE	Rear axle	Full-floating rear axle with NO-SPIN differential
	Tandem oscillation	13° forward and reverse
	Final driving	Spiral bevel gear,single stage reduction
09 BRAKES	Tandem drive	Double row roller-chains
	Service brake	Hydraulic brake system, drum brake
	Parking brake	Flexible shaft control actuated inner-expanding brake

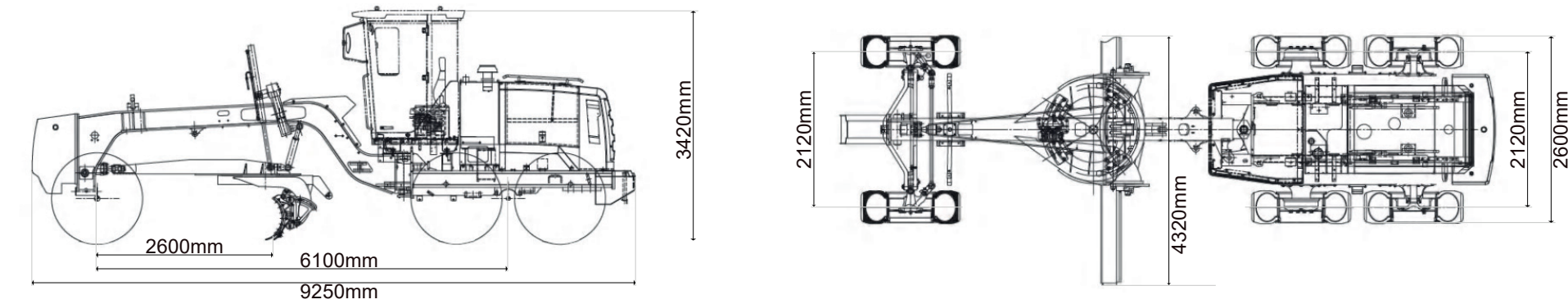




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TECHNICAL PARAMETER

COMPONENT	ITEM	DESCRIPTION
10	BLADE RANGE	
11	TYRE	



OPTIONAL CONFIGURATION



Scarifier



Ripper



Front blade



Rops fops



Automatic leveling device



Tyre size 13.00-24-12PR G-2

PRODUCT PHOTOS | MOTOR GRADER KG220

