



ZOOMLION

BG2100B

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

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BG2100B Road Milling Machine



I 、 The standard of design and manufacture

It meet the GB/T 25643-2010 road construction and maintenance of mechanical equipment road milling machine and the Q/QKAM103011-2003 road milling machine which is drafted by ZOOMLION co., LTD.

II 、 The main technical characteristics

BG2100B road milling machine have reached the international advanced level in the machine configuration, performance parameters, reliability, intelligence and so on. The mainly characteristics in the following aspects:

1. Electro-hydraulic proportional control technology, sensor technology and microprocessor control technology are introduced into milling machine design, which makes the electromechanical integration reach a quite high level and improves the milling machine performance and reliability.

2. BG2100B road milling machine adopts the caterpillar six-cylinder diesel engine, it meets the strict exhaust standard of American Environment Protection Administration (EPA) and European III emission standards, the engine is equipped with full electronic motor management system, it is powerful with horsepower of 630HP/470kW. The power is transmitted via a fly-wheel with compact structure, reliable transmission and high production efficiency; at the same time it adopts inter-cooled turbocharged, the inflation water tank to preheat and start apace machine; so it can satisfy the requirement of construction in the plateau.

3. Milling drum adopts simulation optimization design, reasonably arrange tools, milling effect is well , cutting edges are neat and scraper flat is clean; Cutting tool adopt the KPF301 preloading knife system, it is easily to dismantle, durable and high efficiency.

4. Milling depth control system based on CAN bus, with high performance

microprocessor as the core, hydraulic actuators and sensors with negative feedback closed loop control system, so it achieves adaptive control with milling depth, paleness and gradient in a variety of conditions to ensure the quality of the road milling.

5. Travel system adopts the hydraulic motor driven independently drive , it is four crawler running mechanism with infinitely adjustable-speed, it can realize independently or combined turn for front and rear track steering, while it uses high-performance microprocessor and electro-hydraulic proportional control technology to control milling machine travel drive, and the FGR and GLR are introduced into system, which can efficiently implement milling machines drive control and diesel engine automatic control of power limit load under various conditions, it better solve the protection of control problems that the milling machine traveling speed and working resistance under rated power.

6. Reasonable design of sprinkler system and the large capacity water tank, greatly extended the continuous operation time, improve the reliability, service life of the machine and production efficiency.

7. Belt conveying system is a closed structure, operators can choose discharging belt fold or unfold; collecting belt increased the polyurethane wear-resisting material insulation device, the belt service life is longer.

8. It adopts the man-machine interface, digital display and monitoring, and introduces the fault self-diagnosis system, so operation and maintenance are more convenient, safe and reliable.

III、Main technical Parameters

Machine model		Model: BG2100B
Work environment		The height above sea level: $\leq 3,000\text{m}$ Environment temperature: $-20 \sim 40^{\circ}\text{C}$ Relative humidity: $\leq 95\%$
Max. milling width (mm)		2,100
Milling depth (mm)		0 ~ 320
Milling drum	Tool spacing (mm)	15
	Number of cutting tools (mm)	164
	Cutting circle diameter (mm)	1060
	Drum tilt max (°)	5
Engine	Manufacturer	CAT
	Model	CAT C18
	Cooling type	Water
	Number of cylinders	6
	Rated output (kW)	470
	Speed (rpm)	2100
	Displacement (L)	18.1
	Engine emission standards	Euro III
Speed	Work speed (m/min)	0 ~ 30
	Traveling speed (km/h)	0 ~ 4.5
	Theoretical climb ability (%)	80
	Min. ground clearance (mm)	325
Weights/Load	Front axle load (kg)	20,400
	Rear axle load (kg)	17,400
	Tare weight (kg)	32,800

	Operational weight (kg)	37,800
Tracks Units	Front tracks (mm)	1995×305×676
	Back tracks (mm)	1995×305×676
Tank capacities	Fuel tank (L)	1550
	Hydraulic oil tank (L)	330
	Water tank (L)	3,500
Electrical system voltage (V)		24
Conveying system	Discharge conveyor belt width (mm)	1000
	Primary conveyor belt width (mm)	1000
	Theoretical discharge performance (m ³ /h)	525
Shipping dimensions/ weight	Dimensions of machine L×W×H (mm)	8270×2830×3350
	Dimensions of discharge conveyor L×W×H (mm)	8550×1600×1300
	Weight of machine (kg)	30,450
	Weight of discharge conveyor (kg)	2,350

IV、The main configuration

No.	Name	Model	Number	Manufacturer	Origin
1	Engine	CAT C18	1	CAT	USA
2	Splitter gearbox		1	STIEBEL	Germany
3	Clutch	HFF314	1	TRANSFLUID	Italy
4	Cutter	RP06	164	KENNAMETAL	USA
5	Tool apron	KPF303	146	KENNAMETAL	USA
6	Milling drum deceleration machine	F130	1	O&K	Germany
7	Travel deceleration machine		4	O&K	Germany
8	Supported wheel	VA1843A	16	BERCO	Italy
9	Pump and motor			SAUER	USA
10	Valve			REXROT	Germany
11	Hydraulic connector			PARKER	Germany
12	Hydraulic colloidal hose			PARKER	Germany
13	Electronic component			SCHNEIDER	France
14	Depth controller	MATIC		MOBA	Germany
15	Meter			VDO	Germany

V、Hydraulic System Configuration

No.	Name	Model	Number	Manufacturer	Origin
1	Travel pump	H1P078RA	1	SAUER	USA
2	Conveyor pump	H1P045RA	1	SAUER	USA
3	Isobarically pump	JR-R-045B	1	SAUER	USA
4	Double-gear pump	PRN-033/8	1	PARKER	USA
5	Travel variable motor	H1B060	4	SAUER	USA
6	Fan motor	A2FM56/61W	1	REXROT	Germany
7	Belt motor	OMT400; OMT315	2	DANFOSS	Denmark
8	Electromagnetic valve	4WRA6W15	2	REXROT	Germany
9	Valve		17	REXROT	Germany
10	Balance valve		4	REXROT	Germany
11	Reducing valve		10	REXROT	Germany
12	Overfall valve		5	REXROT	Germany
13	Combination ball valve	KHB	1	HYDAC	Germany
14	High pressure filter	DF BN	1	HYDAC	Germany
15	Pressure gage		6	STAUFF	Germany
16	Combination of oil return filter	RKM BN	1	HYDAC	Germany
17	Hydraulic return filter	RFM BN	1	HYDAC	Germany
18	Filter	ELFP5G10	1	HYDAC	Germany
19	The energy store device	SBO210-0.75E1	1	HYDAC	Germany

20	Bypass-valve	X1.255.40.000	1	BEHR	Germany
21	Hydraulic joint		540	PARKER	Germany
22	Hydraulic colloidal hose		210	PARKER	USA
23	High pressure water syringe	PW4000A-1	1	SPRING	USA
24	Lower pressure water pump	9303C-HM2C	1	HYPRO	USA
25	High pressure water pump	HPW	1	GENSCO	Finland

VI、Electrical System Configuration

No.	Name	Model	Number	Manufacturer	Origin
1	Electronic motor management system			CAT	USA
2	Travel drive control		1	SAUER	USA
3	Milling depth control			MOBA	Germany
4	Belt speed control			REXROTH	Germany
5	Controlling panel control button			SCHNEIDER	France
6	Relay, floodlight			HELLA	Germany
7	Display meter, oil level sensor			VDO	Germany
8	Water level sensor	NR60-W1CL01B	3	ETA	Germany
9	Terminal			WAGO	Germany
10	Screening cable、control cable			LAPP	Germany
11	Operating handle	V64.1-02RP-X	1	CAVOTEC	Germany
12	Outer control box			RS	UK

The logo for ZOOMLION, featuring the word "ZOOMLION" in a bold, dark blue, sans-serif font. The text is centered within a light green rectangular background that has a diagonal cut on its right side.

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