



ZOOMLION

BG2000G

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

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BG2000G 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 、 Main technical features

BG2000G 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. The engine system adopts international well-know brands produced by caterpillar with powerful, power up to 433KW, advanced technology, reliable performance, it meets the strict exhaust standard of American Environment Protection Administration (EPA) and European III emission standards, and equipped with full electronic motor management system to detect the engine parameters under a variety

of operating conditions, display and alarm, and control electronic throttle; Meanwhile, It implement diesel engine automatic control under power limit load through sending the signal to travel drive controller. In addition, 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. Using the new milling system, the performance of collect scrap 、 discharge scrap is better, high milling 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. Design of large awnings embodies humanistic care and comfortable operation.

9. 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: BG2000G
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)		2,000
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 C15
	Cooling type	Water
	Number of cylinders	6
	Rated output (kW)	433
	Speed (rpm)	2100
	Displacement (L)	15.2
	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	Tare weight (kg)	30500
	Operational weight (kg)	35000
Tracks Units	Front tracks (mm)	1,840×305×676

	Back tracks (mm)	1,840×305×676
Tank capacities	Fuel tank (L)	1300
	Hydraulic oil tank (L)	380
	Water tank (L)	3000
Electrical system voltage (V)		24
Conveying system	Discharge conveyor belt width (mm)	800
	Primary conveyor belt width (mm)	800
	Theoretical discharge performance (m ³ /h)	350
Shipping dimensions/ weight	Dimensions of machine L×W×H (mm)	7847×2844×3300
	Dimensions of discharge conveyor L×W×H (mm)	8,550×1,400×1,250
	Weight of machine (kg)	28450
	Weight of discharge conveyor (kg)	2270

IV、 The main configuration

No.	Name	Model	Number	Manufacturer	Origin
1	Engine	C15	1	CAT	USA
3	Clutch	314H	1	WPT	USA
4	Cutter	RP06	166	KENNAMETAL	USA
5	Tool apron	TH06	148	EVERPAD	Taiwan
6	Milling drum deceleration machine	F130	1	O&K	Germany
7	Travel deceleration machine	IFT017T3	4	INFINITY	China
8	Pump and motor			SAUER	USA
9	Valve			EATON	USA
10	Redirector			EATON	USA
11	Hydraulic connector			PARKER	Germany
12	Hydraulic colloidal hose			PARKER	Germany
13	Electronic component			SCHNEIDER	France
14	Depth controller			MOBA	Germany
15	Meter			IFM	Germany

V、Hydraulic System Configuration

No.	Name	Model	Number	Manufacturer	Origin
1	Travel pump	90-R-075-KP	1	SAUER	USA
2	Conveyor pump	90-L-055-KP	1	SAUER	USA
3	Isobarically pump	JR-L-045B-PC-19	1	SAUER	USA
4	Double-gear pump	PGP517B	1	PARKER	USA
5	Travel variable motor	H1B060	4	SAUER	USA
6	Fan motor	M50-A-D2-Q0-M2-SV-F	1	LEDUC	France
7	Belt motor	OMT400; OMT315	2	DANFOSS	Denmark
8	Electromagnetic valve	KDG4V 3S 33C15N M U H5 60	2	EATON	Germany
9	Valve		17	EATON	Germany
10	Balance valve		5	EATON	Germany
11	Reducing valve		9	EATON	Germany
12	Overfall valve		3	EATON	Germany
13	Combination ball valve	KHB	1	HYDAC	Germany
14	High pressure filter	DF BN/HC	1	HYDAC	Germany
15	Pressure gage		6	STUAFF	Germany
16	Combination of oil return filter	RKM	1	HYDAC	Germany
17	Hydraulic return filter	RFM	1	HYDAC	Germany
18	Filter	ELFP5G10W2.0	1	HYDAC	Germany
19	The energy store device	SBO210(30bar)	1	HYDAC	Germany

20	Redirector	401-3135-59	2	EATON	USA
21	Bypass-valve	X1.255.40.000.1B	1	BEHR	Germany
22	Hydraulic joint		450	PARKER	USA
23	Hydraulic colloidal hose		180	PARKER	USA
24	Lower pressure water pump	9303C-HM2C	1	HYPRO	USA
25	High pressure water pump	BZ320CS	1	HIMORE	china

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			IFM	Germany
5	Controlling panel control button			SCHNEIDER	France
6	Relay			HELLA	Germany
7	Display meter			IFM	Germany
8	Water level sensor	XML-B010A2911	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



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