

# SPECIFICATION SHEET

ENGINE MODEL : ***D1703-E2BG-CHN-1***

*Used for 15kVA generator*

ENGINE CODE NUMBER: ***1G982-12000***

DIMENSION DRAWING NUMBER: G976-00000

**KUBOTA CORPORATION**

**KUBOTA Engine(Shanghai) Co.,LTD.**

**ENGINE ENGINEERING DEPARTMENT**

ITEMS	UNIT	SPECIFICATIONS
Engine Model		D1703-E2BG-CHN-1
发动机型号		
Engine Code Number		1G982-12000
发动机编号		
Type		Vertical, water-cooled, 4-cycle diesel engine
型式		直列, 水冷, 4 冲程柴油机
Number of cylinder		3
气缸数		
Cylinder Bore	mm	87
缸径		
Stroke	mm	92.4
行程		
Combustion type		Spherical Type (E-TVCS)
燃烧室型式		球形非直喷式
Total Displacement	L	1.647
排量		
Brake Horse Power	kW/rpm	18.1/1800 (24.6/1800) / 15.1/1500(20.5/1500)
(Stand-by ) 备用功率	(PS/rpm)	
Brake Horse Power	kW/rpm	15.0 /1800 (20.4/1800) / 12.8/1500(17.4/1500)
(Continuous ) 持续功率	(PS/rpm)	
Firing Order		1-2-3
气缸工作顺序		
Direction of Rotation		Counter-Clockwise (Viewed from Flywheel Side)
旋转方向		逆时针 (从飞轮侧看)
Injection Pump		Bosch Type
喷油泵		博世
Fuel Injection Pressure	MPa (kgf/cm <sup>2</sup> )	13.73 (140)
喷油压力		
Fuel Injection Timing	deg.	17.0 Before T.D.C (p)
喷射正时		上止点前 17度
Compression Ratio		23.0
压缩比		
Governor Type		All Speed Mechanical Governor
调速器		全程式机械调速器
Fuel Oil		Diesel Fuel No.2-D(ASTM D975)
燃油		柴油 No.2-D(ASTM D975)
Starting System		Cell Starter (with glow plug)
起动系统		起动电机 (带预热塞)
Starter Output	V-kW	12 - 1.4
起动电机		

ITEMS	UNIT	SPECIFICATIONS
Alternator Output	V - A	12 - 40
发电机		
Cooling System		Pressurized Radiator, Forced Circulation with water pump
冷却系统		加压散热器, 强制循环水泵
Lubricating System		Forced Lubricating by Trochoid Pump
润滑系统		强制润滑式
Lubrication Oil		Class CF lubricating oil as per API classification is recommended
润滑油		推荐API CF级
Lub.Oil Capacity	L	7.6
润滑油容量		
Dimensions (L x W x H)	mm	608.4x548.3x642.8
尺寸 (长 x 宽 x 高)		
Emission Regulation		China Off Road GB II
排放法规		中国非道路机械 II阶段
Intake Resistance	kPa(mmAq)	≤ 1.96 (200)
进气阻力		
Back Pressure	kPa(mmHg)	≤ 7.07 (53)
排气背压		
Ho(Heat Rejection to coolant)	kcal/h	14500 (1500rpm), 16600 (1800rpm)
冷却水带走热量		
Combustion Air Requirements ( 25°C and 750mmHg)	m <sup>3</sup> /min	1.08 ( 1500rpm ) , 1.29 ( 1800rpm )
进气量 (25°C, 大气压750mmHg条件)		
Exhaust Gas Volume ( 25°C and 750mmHg)	m <sup>3</sup> /min	2.91 ( 1500rpm ) , 3.48 ( 1800rpm )
排气量 (25°C, 大气压750mmHg条件)		
Dry Weight	kg	‘约 148
干重		

※Lubrication Oil is not filled for engine delivery.

※交货时发动机内没有机油。

## ENGINE PARTS LIST D1703-E2BG-CHN-1 1G982-12000

PART NAME	PART NUMBER	Q'ty	DESCRIPTION
Crank Case	16448-01017	1	with Drain cock:15575-73101
曲轴箱			
Oil Gauge Guide	17456-36422	1	Short oil gauge guide
机油尺导管			短机油尺导管
Oil Pan	19299-01616	1	
油底壳			
Gear Case	17182-04012	1	Oil Filter Cartridge : Inlet Side
齿轮箱			机油滤清器：进气侧
Inlet Manifold	17182-11762	1	Horizontal Inlet (Closed Breather Type)
进气歧管			水平朝向（闭式呼吸器）
Exhaust Manifold	1G866-12311	1	Up Outlet
排气歧管			出口朝上
Head Cover Assy.	1G750-14507	1	Closed Breather Type
气缸盖罩总成			闭式呼吸器
Flywheel Comp	17299-25017	1	
飞轮			
Flywheel Housing	17158-04611	1	
飞轮壳			
Oil Filter Cartridge	16414-32434	1	φ93×L85
机油滤清器			
Oil Gauge	1G622-36414	1	Inlet side
机油尺			位于进气侧
Injection Pump Assy	1G626-51012	1	
Assy Pump, Fuel	17121-52032	1	Mechanical Fuel Feed Pump
Nozzle Holder Assy	16082-53002	3	
Starter	17381-63015	1	12V - 1.4kW
起动电机			
Alternator	34070-75602	1	12V - 40A
发电机			
Stay, Dynamo	16427-64421	1	
Glow Plug	19077-65513	3	Quick Heating Type (DC 11V)
预热塞			快速预热式（DC 11V）
Stop Solenoid	15471-60012	1	
停车电磁阀			
Water Flange Comp	19202-72704	1	Rp1/2
出水法兰			

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PART NAME	PART NUMBER	Q'ty	DESCRIPTION
Water Pump Assy.	15521-73038	1	
水泵总成			
Thermostat	19434-73014	1	71°C (Opening Temp. )
节温器			71°C (开启温度)
Thermostat cover	15321-73262	1	Up Outlet
节温器盖			出口朝上
Fan Spacer	19818-74152	1	12mm
风扇垫块			
Fan	17371-74112	1	Φ380mm 6 blades, Pusher
风扇			φ380 6叶, 吐风
Fan Pulley	15471-74252	1	φ 104
风扇皮带轮			
Fan Drive Pulley	17298-74281	1	φ 130
曲轴皮带轮			
Fan Belt	15469-97012	1	41.5"
风扇皮带			
Oil Pressure Switch	15841-39012	1	0.5kgf/cm2
机油压力开关			
Water Temp. Sensor	-	-	-
水温开关			
Ship Loose parts / 随机附件			
Operator's Manual	1G550-89111	1	
使用说明书			
Timer(Glow lamp)	15694-65992	1	
计时器 (预热指示灯)			
Coupler Assy.	19883-65831	1	For Timer (Grow Lamp),Alternator
接插件总成			计时器 (预热指示灯) 用
Indicator Lamp	15403-64491	1	
指示灯			
Terminal Assy	19268-65781	1	For Lamp,Indicator
端子总成			指示灯用
Terminal	19215-63751	2	For Starter
端子			起动电机用
Muffler Gasket	17326-12231	1	
排气管垫圈			
TIMER,KEY STOP	T0070-31411	1	
停车延时器			
Coupler Assy.	16645-65831	1	
接插件总成			

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PART NAME	PART NUMBER	Q'ty	DESCRIPTION
Sedimenter,Assy	1G311-43352	1	
油水分离器总成			
ASSY FILTER,FUEL	1C011-43014	1	
燃油滤清器总成			
SCREW,AIR BREEDER	15841-51362	1	
放气螺栓			
PACKING	15601-96651	1	
垫圈			
JOINT,T-PIPE	1G065-42361	1	
T型接头			
VALVE,FUEL CHECK	1C010-42461	1	
单向阀			
CLIP,PIPE	14971-42751	8	
管夹			