

发动机 Engine

柴油机

型号	QSK19-C700
类型	电控, 4冲程, 水冷, 增压, 中冷
气缸数	6
缸径/行程	159/159mm
活塞排量	19L
额定功率	功率(SAEJ1995) 522kW(700HP)/2100rpm
最大扭矩	3084Nm在1400rpm时
空气滤清器	二级干式空气滤清器加空气预滤器

电气系统

系统电压	2 × 12V/220Ah
蓄电池组	2 × 12V/195 × 3A/h
发电机参数	Cummins, 24V, 100A
启动电机参数	2 × Cummins, 24V, 2 × 9kW

电动机

型号	YJK4004-4
类型	高压三相异步电动机
额定功率/转速	450kW/1485rpm
电压	6000V
频率	50Hz
电缆	3 × 16 + 1 × 16

Diesel engine

Model	QSK19-C700
Type	Electricity-control 4 Strokes, water-cooled, turbo-charged, And after-cooled
Number of casing	6
Bore/Stroke	159/159mm
Piston displacement	19L
Rating power	Power(SAEJ1995) 522kW(700HP)/2100rpm

Max. torque	3084Nm at 1400rpm
Air filter	Two-stage dry air filter+pre air filter

Electrical system

System voltage	2 × 12V/220Ah
Accumulator	2 × 12V/195 × 3A/h
Generator	Cummins, 24V, 100A
Start motor	2 × Cummins, 24V, 2 × 9kW

Electromotor

Model	YJK4004-4
Type	High Voltage, three phases, asynchronous electromotor
Rating power/speed	450kW/1485rpm
Voltage	6000V
Frequency	50Hz
Cable	3 × 16 + 1 × 16

回转系统 Swing System

形式	独立开式回转系统
回转马达	1 × 轴向柱塞式变量马达
减速机构	三级行星齿轮减速
回转制动	常闭式湿式多盘制动器
回转支承	三排滚柱回转支承
回转速度	5.8rpm

Type	Independent open type
Swing motor	1 × Axis-piston variable motor
Reduction unit	3-stage planet gear reduction
Swing brake	Normal closed, wet multi-disc brake
Swing ring	Three row of rollers
Swing speed	5.8rpm

行走部分 Travel Plant

行走马达	2 × 轴向柱塞式定量马达
行走、转向控制	带操纵杆的脚踏板控制
减速机构	三级行星齿轮减速
行走制动	常闭式湿式多盘制动器
行走速度	0~2.4km/h
最大牵引力	735kN
爬坡能力	最大35° (70%)
下车型式	H型, 可分解式
行走架结构	箱形截面结构
履带张紧形式	氮气缸+黄油缸张紧
履带板	双筋重型履带板
履带板数	2 × 53块
节距	260.35mm
防跳板数	2 × 3个
托链轮数	2 × 3个
支重轮数	2 × 9个

Travel motor	2 × Axis-piston constant motor
Travel & turning control	Foot pedal control with operating rod
Reduction unit	3-stage planet gear reduction
Travel brake	Normal closed, wet multi-disc brake
Travel speed	0~2.4km/h
Max. pulling force	735kN
Gradeability	35° (70%)
Undercarriage type	Disassembled H structure
Travel frame structure	Box section type
Track tensing	Nitrogen cylinder and Grease cylinder tension
Track pads	Double grouser heavy track pads
No. of track pads	2 × 53
Pitch length	260.35mm
No. of track guide	2 × 3
No. of carrier roller	2 × 3
No. of support roller	2 × 9

液压系统 Hydraulic System

类型	三泵三回路极限载荷变量系统
主泵型式	柱塞变量泵
最大流量	2 × 522L/min
最大工作压力	32Mpa
回转泵型式	柱塞变量泵
最大流量	1 × 522L/min
最大工作压力	32Mpa
先导泵型式	齿轮泵
最大流量	1 × 20L/min
最大工作压力	4Mpa
二次过载压力	
行走	38Mpa
工作装置	38Mpa
油缸 (反铲) (数量-缸径/杆径 × 行程)	
动臂油缸	2-220/150 × 2140mm
斗杆油缸	2-190/125 × 1570mm
铲斗油缸	1-190/125 × 1670mm
油缸 (正铲) (数量-缸径/杆径 × 行程)	
动臂油缸	2-220/150 × 2140mm
斗杆油缸	2-180/125 × 1705mm
铲斗油缸	2-180/125 × 1920mm
开闭斗油缸	2-150/90 × 365mm
液压油冷却方式	液压油冷却风扇
作业循环时间	22s

Type	Three pumps and three loops, limit load variable system
Main pump	Piston variable pump
Max. flow	2 × 522L/min
Max. operation pressure	32Mpa
Swing pump	Piston variable pump
Max. flow	1 × 522L/min
Max. operation pressure	32Mpa
Pilot pump	Gear pump
Max. flow	1 × 20L/min
Max. operation pressure	4Mpa
Secondary overloading pressure	
Travel	38Mpa
Attachment	38Mpa
Cylinder (backhoe) (Quantity-bore/piston diameter × stroke)	
Boom cylinder	2-220/150 × 2140mm
Stick cylinder	2-190/125 × 1570mm
Bucket cylinder	1-190/125 × 1670mm
Cylinder (face-shovel) (Quantity-bore/piston diameter × stroke)	
Boom cylinder	2-220/150 × 2140mm
Stick cylinder	2-180/125 × 1705mm
Bucket cylinder	2-180/125 × 1920mm
Bucket opening or closing cylinder	2-150/90 × 365mm
Hydraulic oil cooling	Hydraulic oil cooling fans
Circulating time of operation	22s

油、脂、液容量 Capacity of Oil, Grease and Fluid

液压油箱	1278L
液压系统 (总)	1420L
燃油箱	1205L
冷却水箱	90L
发动机机油	60L
行走减速机齿轮箱	2 × 13L
回转减速机齿轮箱	19L

Hydraulic oil tank	1278L
Hydraulic system, total	1420L
Fuel tank	1205L
Cooling water tank	90L(least)
Engine oil	60L(least)
Travel reduction unit	2 × 13L
Swing reduction unit	19L

整机重量及接地比压 Machine Weight & Ground Pressure

整机重量(标准型)包括 Machine weight(standard) includes:

(1)反铲9100mm动臂, 3400mm斗杆, 5.0m³反铲斗(SAE1:1, 容重1.8 t/m³)及标准装备.

Backhoe Boom 9100mm, Stick 3400mm, backhoe bucket 5.0m³(SAE1:1, material unit weight 1.8 t/m³) and standard equipment.

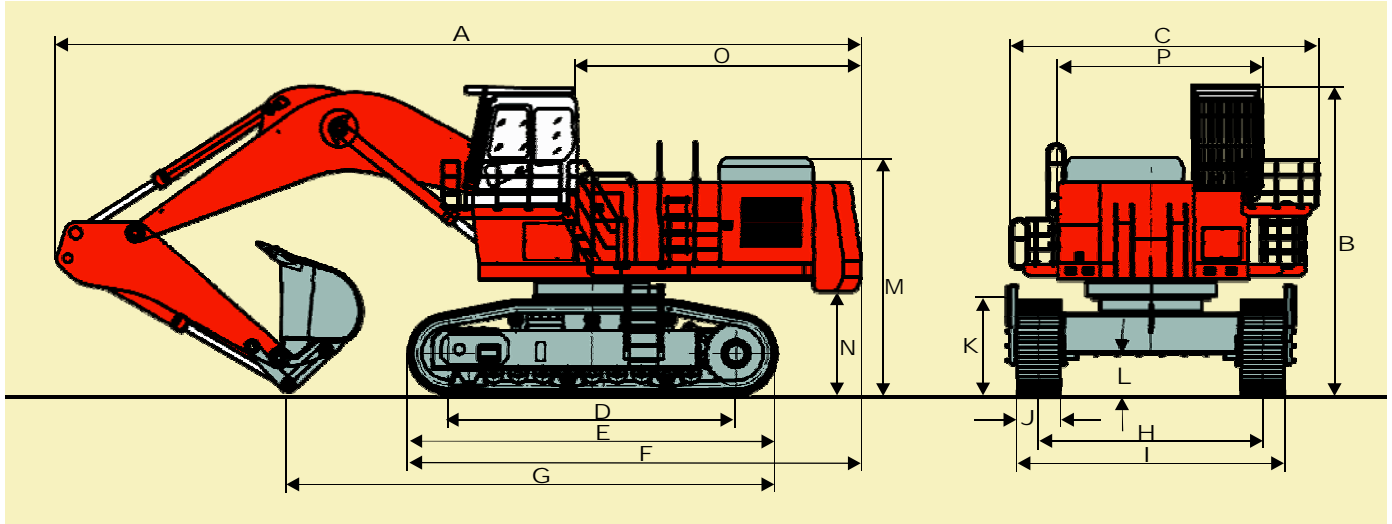
(2)正铲5450mm动臂, 3700mm斗杆, 6.5m³底卸式正铲斗(SAE2:1, 容重1.8 t/m³)及标准装备.

Face-shovel Boom 5450mm, Stick 3700mm, bottom dump Bucket 6.5m³ (SAE2:1, material unit weight 1.8 t/m³) and standard Equipment.

型式 Type	履带板宽度 Track pad width	整机重量 Machine weight	接地比压 Ground pressure
反铲型 Backhoe	750mm	116000Kg	0.125Mpa
正铲型 Face-shovel	750mm	125000Kg	0.127Mpa

1250-7 尺寸 Dimensions

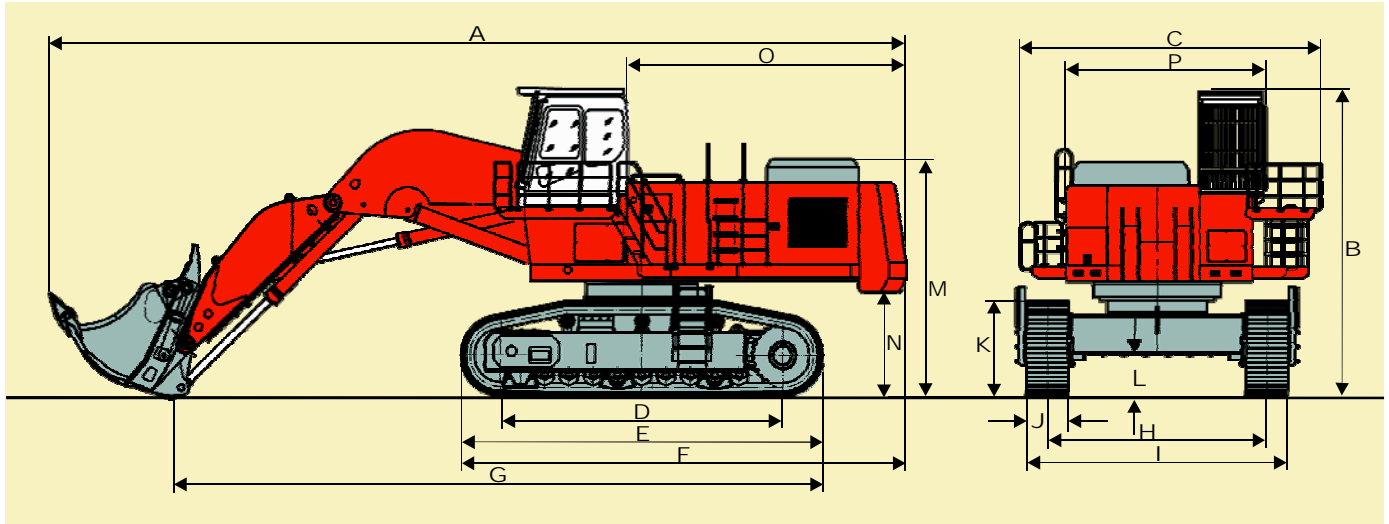
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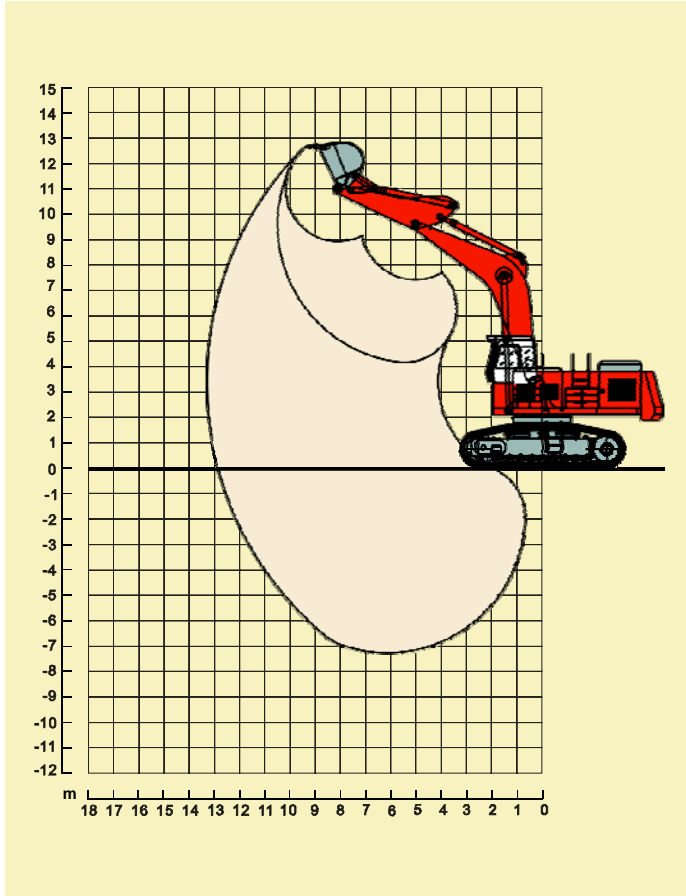
A	总长	Overall length	14437mm
B	主机高度	Main machine height	5532mm
C	主机宽度	Main machine width	5474mm
D	驱动轮和导向轮中心距	Distance from sprocket to idler	5125mm
E	履带长度	Track length	6571mm
F	主机长度	Main machine length	8081mm
G	接地长度	Ground length	8811mm
H	轨距	Center to center of tracks	4000mm
I	履带宽度	Track width	4750(4600)mm
J	履带板宽度	Track pads width	750(600)mm
K	履带高度	Track height h	1740mm
L	最小离地间隙(柴油/电动)	Min. clearance to the ground(Diesel/Electromotor)	820(740)mm
M	机罩高度(柴油/电动)	Machine cover height(Diesel/Electromotor)	4267(4052)mm
N	配重离地间隙	Clearance under counterweight	1947mm
O	尾部回转半径(铸/焊)	Tail swing radius(casting/welding)	4800(4950)mm
P	平台宽度	Platform width	3380mm

1250-7 尺寸 Dimensions

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A	总长	Overall length	15669mm
B	主机高度	Main machine height	5532mm
C	主机宽度	Main machine width	5474mm
D	驱动轮和导向轮中心距	Distance from sprocket to idler	5125mm
E	履带长度	Track length	6571mm
F	主机长度	Main machine length	8081mm
G	接地长度	Ground length	11762mm
H	轨距	Center to center of tracks	4000mm
I	履带宽度	Track width	4750(4600)mm
J	履带板宽度	Track pads width	750(600)mm
K	履带高度	Track height h	1740mm
L	最小离地间隙(柴油/电动)	Min. clearance to the ground(Diesel/Electromotor)	820(740)mm
M	机罩高度(柴油/电动)	Machine cover height(Diesel/Electromotor)	4267(4052)mm
N	配重离地间隙	Clearance under counterweight	1947mm
O	尾部回转半径(铸/焊)	Tail swing radius(casting/welding)	4800(4950)mm
P	平台宽度	Platform width	3380mm



反铲工作装置配7800mm动臂

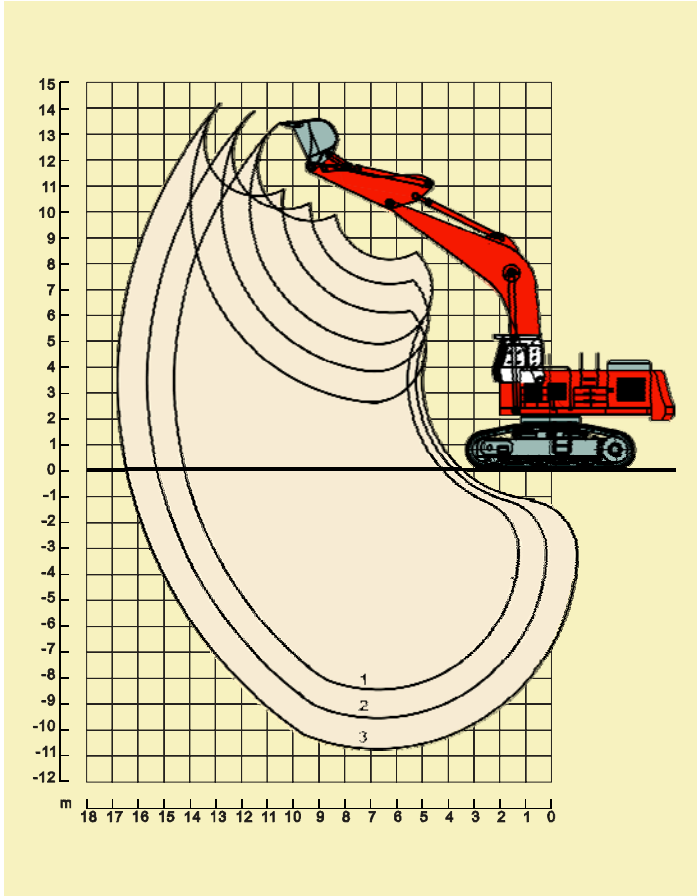
Backhoe Attachment with Boom 7800mm

反铲动臂、斗杆、铲斗的组合

Combination of the Backhoe Boom, Stick and Bucket

动臂Boom(mm)	斗杆Stick(mm)	铲斗容量 Bucket capacity(m ³)			
		6.0	6.5	7.0	—
7800	3400	2.2	1.8	1.5	1.2
最大容重不超过(t/m ³) For material up to unit weight of		2.2	1.8	1.5	1.2

动臂长度	Boom Length	7800mm
斗杆长度	Stick Length	3400mm
最大挖掘半径	Max. digging reach	13405mm
最大挖掘深度	Max. digging depth	7315mm
最大挖掘高度	Max. digging height	12529mm
最大卸载高度	Max. dumping height	8958mm
铲斗最大破碎力	Max. breakout force of Bucket	550kN
斗杆最大挖掘力	Max. digging force of stick	416kN



反铲工作装置配9100mm动臂

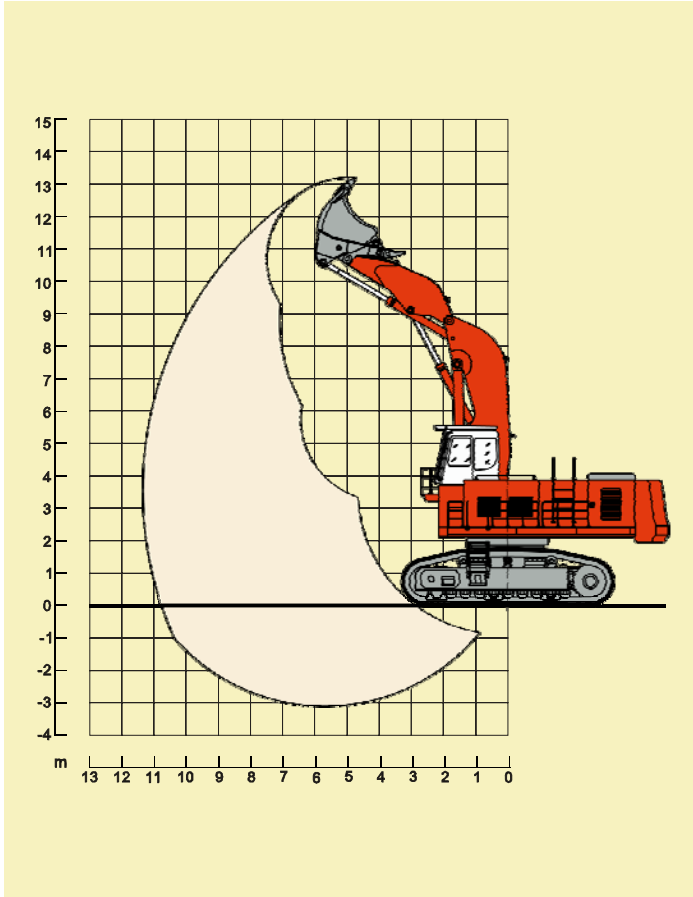
Backhoe Attachment with Boom 9100mm

反铲动臂、斗杆、铲斗的组合

Combination of the Backhoe Boom, Stick and Bucket

	动臂 Boom(mm)	斗杆 Stick(mm)	铲斗容量 Bucket capacity(m ³)			
			4.0	5.0	—	—
1	9100	3400	4.0	5.0	—	—
2	9100	4500	3.5	4.0	5.0	5.2
3	9100	5700	—	3.5	4.0	—
最大容重不超过(t/m ³) For material up to unit weight of			2.2	1.8	1.5	1.2

动臂长度	Boom Length	9100mm	9100mm	9100mm
斗杆长度	Stick Length	3400mm	4500mm	5700mm
最大挖掘半径	Max. digging reach	14760mm	15811mm	16598mm
最大挖掘深度	Max. digging depth	8586mm	9686mm	10886mm
最大挖掘高度	Max. digging height	13178mm	13599mm	14095mm
最大卸载高度	Max. dumping height	9651mm	10111mm	10640mm
铲斗最大破碎力	Max. breakout force of Bucket	550kN	550kN	550kN
斗杆最大挖掘力	Max. digging force of stick	416kN	346kN	300kN



正铲工作装置

Face-shovel Attachment

正铲动臂、斗杆、铲斗的组合

Combination of the Face-shovel Boom, Stick and Bucket

动臂 Boom (mm)	斗杆 Stick (mm)	铲斗容量 Bucket capacity (m ³)			
5450	3700	6.0	6.5	7.0	8.0
最大容重不超过 (t/m ³) For material up to unit weight of		2.2	1.8	1.5	1.2

动臂长度	Boom Length	5450mm
斗杆长度	Stick Length	3700mm
最大挖掘半径	Max. digging reach	11299mm
最大挖掘深度	Max. digging depth	3103mm
最大挖掘高度	Max. digging height	13164mm
最大卸载高度	Max. Dump height	9572mm
铲斗最大破碎力	Max. breakout force of bucket	495kN
斗杆最大推压力	Max. digging force of stick	523kN



柴油/电力拖动技术

The Technique with Diesel Engine /Electric Power

1250-7 同时具备柴油和电力拖动两种配置，电动型液压挖掘机 1250-7 满足客户“环保、低成本运行、环境温度适应宽、低成本维护保养”的产品价值追求。

1250-7 is possible to be powered by diesel engine or electricity. The electric powered 1250-7 satisfies the customer's desire for environment protection, low operation & Service cost, and wide applicable temperature range"



按工况条件分类设计制造技术

Classified design &manufacturing technique based on working condition

1250-7 可按不同工况条件，对挖掘机铲斗结构与斗形、对挖掘机下车、作业装置等结构件进行分类特殊设计与制造；对挖掘机动力装置、液压系统、油品、电气系统等进行特殊设计和配置，满足各种恶劣工况的适应性。

Special design &manufacturing of bucket structure &shape, undercarriage and working attachment based on different working condition; customizing design on power unit, hydraulic system, oil product and electric system makes our products suitable for all kinds of adverse circumstance.



下车可分解运输技术

The Technique with Disassembled Undercarriage for Transportation

1250-7 下车结构可实现分解运输：●充分设计并体现整机稳定性、越野性；●充分适应国内外道路、铁路、桥梁及海船运输标准；●充分降低运输、吊装成本。

1250-7 can be transported with disassembled undercarriage which brings:●Perfect cross country performance & stability of whole machine; ●Transportation in accordance with all standards for road-, railway- bridge- and ocean transport; ●Low transportation & handling cost.

自动水平推压技术

"Automatic Level Crowding" Technique

1250-7 的工作装置铲斗切削既可实现弧线挖掘又可实现“自动水平推压”挖掘。●开采面水平挖掘推进，不形成开采“底根”；●40%挖掘半径的水平推压行程，提高满斗充斗系数；●动臂油缸、铲斗油缸自动跟随，简化司机操作动作。

The working attachment of 1250-7 allows arc shaped digging and "automatic level crowding" with bucket; ●Exploitation plane will be formed by level crowding, no dead corner will be left; ●The level crowding length is 40% of digging reach, so that the bucketfilling factor will be increased; ●Automatic followed boom & bucket cylinder, simplified operation of operator.

工作装置铸焊结构设计制造技术

Welding and Casting Technique of Working Attachment

1250-7 液压挖掘机的工作装置所受力铰点部位，均采用高强铸焊结构的设计制造技术，●可避免焊接应力高度集中；●改善铰点应力分布特性。

On working attachment of 1250-7, all pivot points applied stress will be designed as high strength welding &casting structure. ●Welding stress concentration will be avoided. ●Stress distribution will be improved.

1250-7 技术结构特点

Technival&structure features

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■水冷直喷涡轮增压中冷柴油机，环保节能，满足欧 II 排放标准

Cummins diesel engine, water cooled, direct injection, turbo-charged and after cooled, it satisfies the emission requirement of Europe Standard Grade II

■或高压三相异步电动机，节能环保，运行成本低

Or adopting the high voltage three phase-synchronism electromotor, to protect environment and save power



■电液伺服控制的三泵三回路极限载荷变量液压系统，由主油路系统和独立回转系统组成，使液压功率得到充分的发挥，最大限度减少了液压功率损耗和系统发热，具有显著的节能效果
Tri-pump & Tri-circuits hydraulic system with servo control consists of main oil system and separate swing system for less hydraulic power waste&system heat and energy saving

■全电电控喷柴油发动机和三泵三回路液压系统构成一个电液伺服-发动机-泵载荷自动调节系统
Diesel engine with electric injection and Tri-pump &Tri-circuits hydraulic system constitute a Electrohydraulic Servo-Engine-Pump loading system with automatic controlling

■单泵恒功率，三泵极限功率控制，合理分配发动机功率

Control of constant power of single pump, limited power of three pumps for reasonable distribution of engine power

■最小流量控制技术，最大限度降低能源

Technique with minimum flow control for best energy saving

■零排量启动技术，有效降低启动阻力矩

Starting with zero displacement so as to reduce the moment of resistance at starting

■压力切断技术，减少系统发热

Technique with pressure cutting to reduce the system heat

■三泵合流技术，实现多动作复合，提高作业效率

Confluence of three pumps for combined movements and increasing of operating efficiency

■逻辑阀控制技术，自动实现直线行驶、回转开闸等逻辑功能

Logic valve control for automatic straight traveling, automatic release of swing brake

■常闭式回转及行走制动

Normal closed brake for swing and travel

■正铲动臂转斗浮动技术，可实现水平推压，节能

Floating technology of face-shovel Boom and bucket to realize the level crowding and energy saving



■派克软管密封和宝色霞板油缸密封可靠性更高

Better reliability with Parker hose seals and Basak+Shamban cylinder seals



■微电子控制自动集中润滑双泵系统，省去烦琐日常润滑

Automatic central lubricating system of two pumps by micro-electronics control to save daily lubrication

1250-7 技术结构特点

Technival&structure features

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- 宽敞的走台和维修空间，提供快速、便捷的检查和保养空间
Roomy pass-way and service space for rapid and convenient maintenance&service



- 固定增高、整体式双层防落石保护结构驾驶室具有良好视野；双层防护架隐藏在驾驶室顶部内层，结构强度高，符合OPG II级标准(ISO)，确保安全
Operator's cab with fixed elevation and integrated double rock protections provides a good eyeshot; The reinforced double rock protections hide in the cab's top and meet OPG standard Grad II to ensure safety

- 驾驶室布局满足人体工程学，所有的控制均在操作人员自然范围内；仪表箱精心布置，可随时检测各种压力、温度、油位并进行声光报警；座椅可自由调到适合操作人员身材和习惯的位置，减轻疲劳感，提高工作效率

The layout of operator's cab is in conformity to ergonomics, all controls are in operator's natural reach; Instrument box is reasonable arranged with acoustic or optic alarm for checking pressure, temperature and oil level at any time. The operator's seat can be adjusted to desired position according to operator's weight and habit for tireless operation and high working efficiency

- 液晶显示、电子监测、故障报警、故障记录系统，其中电动产品没有故障记录系统
LCD displayer, electronic monitoring & alarm, trouble record system. There is no trouble record for electric powered products



- 驾驶室配备大容量立体送风、新鲜空气循环、无氟、自动除霜、大容量全自动冷暖空调；采用新型减振器安装在平台上，提供良好的耐用性和舒适的驾乘感

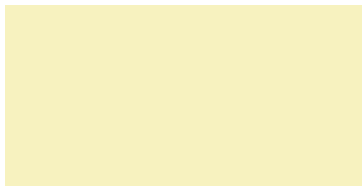
The operator's cab is provided with large tri-dimensional ventilation, fresh air circulation, large capacity air condition without fluorine, automatic defrosting; It is installed on upper table with new-style vibration damping for comfortable operation

- 配备灭火器、应急锤等各种安全措施
The machine is equipped with fire extinguisher, emergency hammer and other safety devices

- 选配GPS远程监控系统,通过卫星传递可在互联网上监控整机的工作位置及工作状态信息
The Global Position System(GPS) can be choosed that can supervise the location and working information in Internet by the satellite



- 液压油独立冷却，保证可靠的冷却而且节能
Separate cooling of hydraulic oil is reliable and energy saving



- 主要元部件采用国际顶级配置，液压系统泵、阀、行走机构、回转机构采用德国Rexroth产品，德国BEKA或美国LINCOLN集中润滑系统；意大利ITM或Berco履带总成

Adopting the international top components such as Germany Rexroth pump, valve, travel and swing organs, Germany BEKA or America LINCOLN automatic central lubricating system, Italy ITM or Berco track assy

