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混凝土车载泵

TRUCK-MOUNTED CONCRETE LINE PUMP



 **徐州徐工施维英机械有限公司**
Xuzhou XCMG SCHWING Machinery Co., Ltd.

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Pictures and data in this catalog change with the upgrade and modification of products, so please take the actual vehicle as reference.

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德国技术

GERMAN TECHNOLOGY

专业、极致，源自德国施维英的顶级技术

Specialty and acme originates from the top-level technology of SCHWING Germany

中国制造

MADE IN CHINA

落地德国制造高标准，实现产品的高可靠、超耐用

By implementing the high standard of German-made realizes highly reliable and durable products.

卓越品质

EXCELLENT QUALITY

用心设计，细节彰显尊重，品质赢得未来

Carefully designed, details demonstrates respect and quality wins the future.



技术全面升级

COMPREHENSIVELY UPGRADED TECHNOLOGY

混凝土车载泵

XCMG V7 SERIES TRUCK-MOUNTED CONCRETE LINE PUMP

更高效的裙阀泵送技术

More efficient rock valve pumping technology

更稳定的换向缓冲技术

Steadier reversing buffering technology

更可靠的全液压换向技术

More reliable fully-hydraulic reversing technology

超低压损的液压系统技术

Ultra-low pressure loss hydraulic system technology

更可靠的高低压自动切换技术

More reliable automatic high/low pressure switchover technology

更安全智能的电气控制技术

Safer and smarter electrical control system

超高压泵送技术

Ultrahigh pressure pumping technology



DURABLE

ADVANCED



NO.1
MORE EFFICIENT ROCK
VALVE PUMPING TECHNOLOGY
更高效的裙阀泵送技术

国际专利的裙阀技术
 INTERNATIONALLY
 PATENTED ROCK
 VALVE TECHNOLOGY



易泵送;
 Easy pumping;

轴端寿命更长;
 Longer service life of shaft-end;

流道更平缓, 阻力更小, 油耗更低;
 Gentler passageway, smaller resistance and lower oil consumption;

搅拌更充分, 吸收效率更高;
 More uniform agitation and higher absorption efficiency;

单边磨损, 使用寿命更长;
 One-side wear prolongs service life;

敞口式结构, 易于修复, 使用成本更低。
 Open-mouth structure is easy for repair, lowering use cost.



■ 基于激光引导的同轴装配, 活塞头运行轨迹更精确, 阻力更小, 效率更高。

■ Based on laser guide, coaxial assembly makes piston head's moving track more precise, with smaller resistance and higher efficiency.

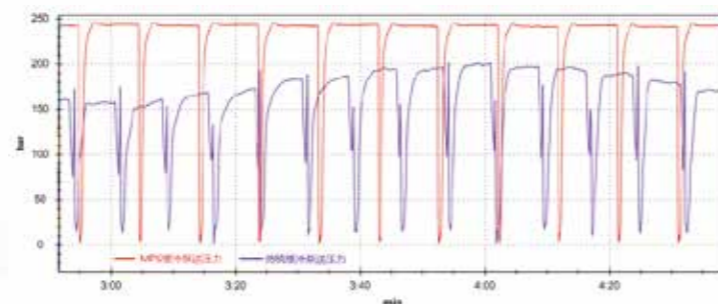


NO.2

STEADIER REVERSING BUFFERING TECHNOLOGY 更稳定的换向缓冲技术

MPS (微冲击) 换向缓冲技术
MPS (MICRO SHOCK) REVERSING BUFFERING TECHNOLOGY

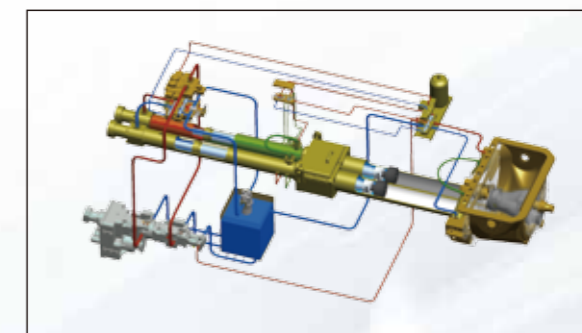
- 响应更快的阀控缓冲技术取代传统主泵减排技术。
- The valve control buffering technology with faster response replaces traditional pump emission reduction technology.
- 缓冲过程更稳定、更可靠、冲击更小。
- The buffering process is steadier and more reliable, with smaller impact.
- 换向时间缩短到0.1S以内，效率提升6%以上。
- The reversing time is shortened to be less than 0.1s and the efficiency is improved by more than 6%.



NO.3

MORE RELIABLE FULLY-HYDRAULIC REVERSING TECHNOLOGY 更可靠的全液压换向技术

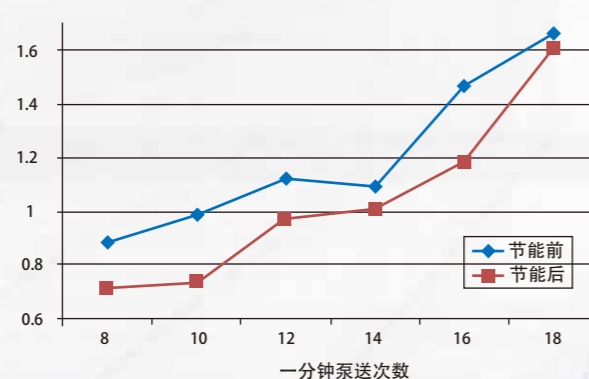
- 德国施维英液压技术精髓，真正实现全液压换向，换向过程实现全液压闭环自适应控制，无需任何电气元件参与，更高效、更稳定、零污染。
- SCHWING Germany's hydraulic technology quintessence truly realizes fully-hydraulic reversing, in which self-adaption control in fully-hydraulic closed-loop is realized, with no need for any electrical components, more effective, steadier and zero-pollution.



NO.4

ULTRA-LOW PRESSURE LOSS HYDRAULIC SYSTEM TECHNOLOGY 超低压损的液压系统技术

- 超低压损液压系统配合高效裙阀泵送系统，结合基于节油的功率匹配控制系统，面对不同混凝土都可以使泵送系统充分吸收发动机功率，不浪费每一滴燃油，平均油耗低至0.362L/m³。
- Ultra-low pressure loss hydraulic system, coordinated with efficient rock valve pumping system and power matching control system for oil-saving can help pumping system fully absorb engine power regardless of different concrete, without wasting a drop of fuel, and the average oil consumption is as low as 0.362L/m³.



NO.5

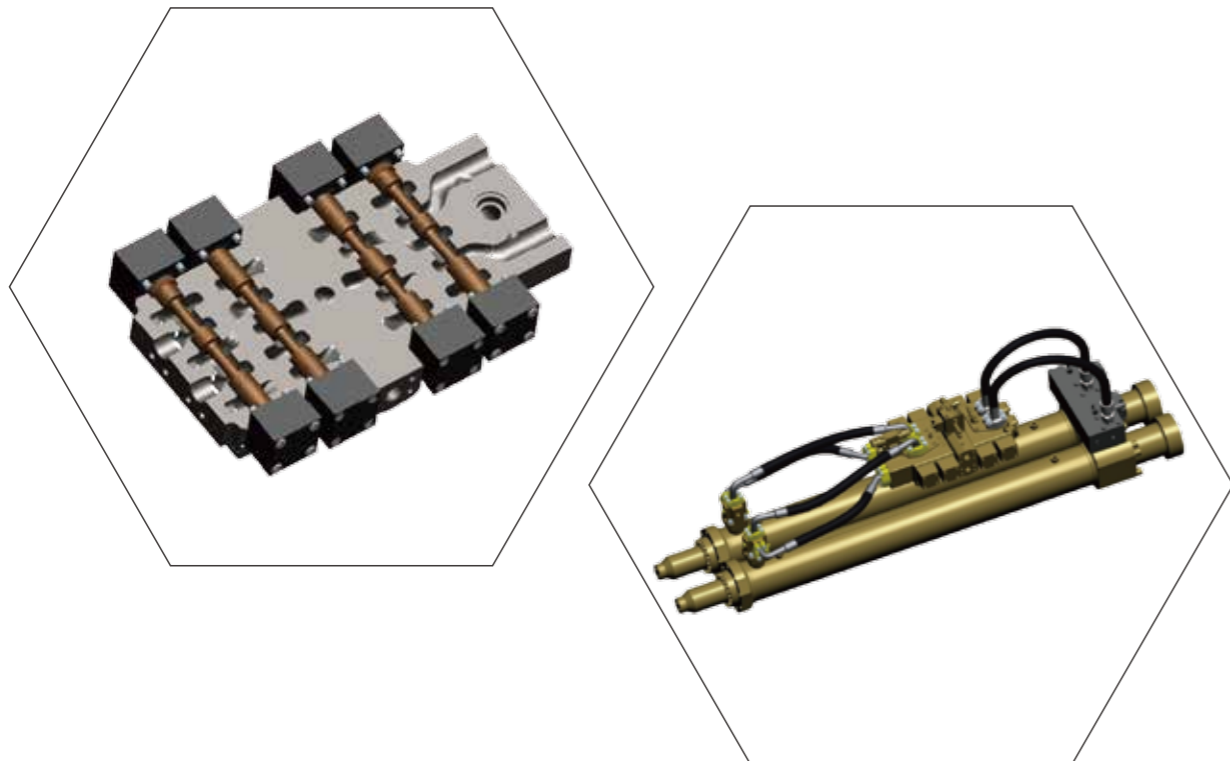
MORE RELIABLE AUTOMATIC HIGH/LOW PRESSURE SWITCHOVER TECHNOLOGY

更可靠的高低压自动切换技术

并联双回路高低压自动切换技术

THE DESIGN OF PARALLEL DUAL CIRCUIT AUTOMATIC HIGH/LOW PRESSURE SWITCHOVER TECHNOLOGY

- 行业首创，高压与低压采用不同回路，相互无干扰，故障率更低。
- Initially designed in the industry, high/low pressure use different circuits, with no mutual interference and lower fault ratio.
- 大通径滑阀结构取代多个插装阀结构，故障点更少，维护性更好，可靠性更高。
- Slide valve structure with large diameter is used to replace several cartridge valve structure, thus producing less fault points, better maintainability and higher reliability.
- 高/低压两个回路均为串联双滑阀结构，正反泵阀芯不参与油缸换向，对中弹簧故障率更低，进一步提高系统可靠性。
- Both high and low pressure circuits adopt dual slide valve structure in series, and valve core is not involved in cylinder switchover during the pumping/reversal pumping, so the centering spring has lower fault ratio and system reliability is further promoted.



NO.6

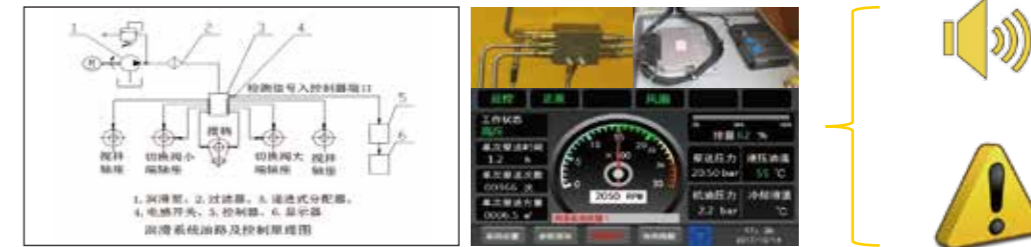
SAFER AND SMARTER ELECTRICAL CONTROL SYSTEM

更安全智能的电气控制技术

智能润滑系统控制技术

INTELLIGENT LUBRICATION SYSTEM CONTROL TECHNOLOGY

- 智能程序控制，为泵送系统提供精确润滑方案。
- Intelligent program control provides accurate lubrication scheme for pumping system.
- 带润滑点堵塞监测，实时故障报警，规避次生损失。
- It provides lubricating point blockage monitoring, which can realize real-time warning of faults and avoid secondary loss.



智能诊断技术

INTELLIGENT DIAGNOSIS TECHNOLOGY

- 基于数字化理念下的智能控制系统，实时监控、存储设备运行状态，可实现生产再现，及时提醒设备运维保养。
- Based on digitization concept, the intelligent control system can monitor and store equipment's running state in real time, realize production reappearance and timely remind the equipment of operation and maintenance.
- 基于端口诊断功能的控制器和本地故障库，可以精确定位200多种故障，节省故障排除时间。
- The controller and local fault library based on port diagnosis function can accurately locate over 200 kinds of faults, thus saving troubleshooting time.
- 并可通过远程专家会诊平台，实现技术专家在线服务，快速处理复杂故障。
- By the remote consultation platform, it can realize online service by technicians and rapidly handle complicated faults.



保养提示 Maintenance prompt 故障诊断 Fault diagnosis 远程专家会诊 Remote consultation platform

NO.7

SUPERHIGH PRESSURE PUMPING TECHNOLOGY

超高压泵送技术

■ 最大理论泵送方量：
105m³/h
■ Max. theoretical pumping capacity: 105m³/h

■ 超大流量液压系统
■ Large flow hydraulic system
■ 超低压损高低压自动切换泵送主阀
■ Main pumping valve with ultralow pressure loss and automatic high/low pressure switchover

■ 双发294kW大功率上装发动机
■ 294kw large power double-engine for upper parts
■ 单发/双发两种工作模式
■ Two working modes of single-/double-engine

■ 最大出口压力40MPa
■ Max. outlet pressure: 40MPa



更完美的细节设计

PERFECT DETAIL DESIGN

- 更实用的配置选择 **More practical configuration option**
- 更便捷的维修保养 **Easier repair and maintenance**
- 更安全的设计理念 **Safer design concept**
- 更专业的技术细节 **More professional technical details**
- 更舒适的使用体验 **More comfortable use experience**



操作指示细节
OPERATION PROMPT DETAIL



全新操作界面
NEW OPERATION INTERFACE



全覆盖防护板
FULL-COVERAGE GUARD PLATE



易拆装链式卡环
CHAIN-TYPE SNAP RING EASY FOR ASSEMBLY AND DISASSEMBLY

耐磨环自动补偿
AUTOMATIC COMPENSATION OF WEAR RING

液压系统防吸空保护
HYDRAULIC SYSTEM'S AIR SUCTION PROTECTION

液压油自动冷却技术
AUTOMATIC COOLING TECHNOLOGY OF HYDRAULIC OIL

自动集中稀油润滑
AUTOMATIC CENTRALIZED THIN OIL LUBRICATION

自动反搅功能保护
AUTOMATIC REVERSE AGITATING PROTECTION

主泵过载保护
PUMP OVERLOAD PROTECTION

全程过滤技术
FULL-LOOP FILTER TECHNOLOGY

活塞自动退回技术
PISTON'S AUTOMATIC RETURN TECHNOLOGY

发动机低速保护
ENGINE LOW-SPEED PROTECTION



参数

Parameter table



18V/20V/22V/28V/40V



类别 CATEGORY	项目 ITEM	XZJ5155THB			XZS5180THB	XZJ5210THB	
型号 Model	产品型号 Product model	HBC10018V	HBC10020V	HBC10022V	HBC12028V	HBC10040V	
整车参数 Overall parameter	全长 Overall length	9350mm	9350mm	9350mm	10280mm	10530mm	
	总宽 Overall width	2480mm	2480mm	2500mm	2500mm	2500mm	
	轴距 Wheelbase	4800mm	4800mm	4800mm	5600mm	5600mm	
	总高 Total height	2970mm	2970mm	2970mm	3320mm	3661mm	
	总重 Total weight	14980kg	14980kg	14980kg	17980kg	20870kg	
	上料高度 Filling height	1580mm	1580mm	1560mm	1580mm	1580mm	
作业技术参数 Working parameter	混凝土理论输送压力 Concrete theoretical pumping pressure	高压 High pressure	18MPa	20MPa	22MPa	28MPa	40MPa
		低压 Low pressure	10MPa	11MPa	12MPa	16MPa	23MPa
	理论泵送方量 Theoretical pumping capacity	低压 Low Pressure	110m³/h	100m³/h	100m³/h	135m³/h	105m³/h
		高压 High pressure	55m³/h	55m³/h	55m³/h	75m³/h	60m³/h
	输送缸 Delivery cylinder	内径 Inner diameter	230mm	230mm	230mm	200mm	180mm
		行程 Stroke	1600mm	1600mm	1600mm	2100mm	2200mm
	料斗容积 Hopper capacity		0.6m³	0.6m³	0.6m³	0.6m³	0.6m³
	发动机 Engine	额定功率 Rated power	228kW	228kW	228kW	186kW +228kW (双动力 double power)	2×294kW (双动力 double power)
		品牌 Brand	中国重汽 Sinotruk	中国重汽 Sinotruk	中国重汽 Sinotruk	道依茨+中国重汽 DEUTZ+Sinotruk	中国重汽 Sinotruk
		取力方式 PTO type	底盘取力 Chassis PTO	底盘取力 Chassis PTO	底盘取力 Chassis PTO	上装发动机+底盘取力 Upper part engine+chassis PTO	双上装发动机 Double upper part engines
液压油箱容积 Hydraulic oil tank capacity	650L	650L	650L	1200L	1200L		
水箱容积 Water tank capacity	450L	450L	400L	200L	200L		
底盘参数 Chassis parameter	底盘品牌 Chassis brand	中国重汽 Sinotruk	中国重汽 Sinotruk	中国重汽 Sinotruk	中国重汽 Sinotruk	中国重汽 Sinotruk	
	底盘型号 Engine model	ZZ1167N501GE1	ZZ1167N501GE1	ZZ1167N501GE1	ZZ1187N521GE1	ZZ5217N521GE1	
	发动机型号 Engine model	MC07.31-50	MC07.31-50	MC07.31-50	MC07.31-50	MC07.28-50	
	发动机功率 Engine power	228kW	228kW	228kW	228kW	206kW	
	排放标准 Emission standard	国V China V	国V China V	国V China V	国V China V	国V China V	
	燃油箱容积 Fuel oil tank capacity	400L	400L	400L	400L	底盘400L+上装530L	
	排量 Displacement	6.87L	6.87L	6.87L	6.87L	6.87L	
	最大行驶速度 Max. traveling speed	90km/h					

施工案例 Construction cases



HBC10018V车载泵 江苏徐州
HBC10018V truck-mounted concrete line pump in Xuzhou, Jiangsu



HBC10020V车载泵 新疆乌鲁木齐
HBC10020V truck-mounted concrete line pump in Urumchi Sinkiang



HBC10020V车载泵 新疆乌鲁木齐
HBC10020V truck-mounted concrete line pump in Urumchi Sinkiang



HBC10040V车载泵 江苏南京
HBC10040V truck-mounted concrete line pump in Nanjing, Jiangsu



HBC10040V车载泵 江苏南京
HBC10040V truck-mounted concrete line pump in Nanjing, Jiangsu