



淮安哈林液压科技有限公司

地址:江苏省淮安经济技术开发区白果路9号

电话:0517-83958686

手机:13375222966(微信同号)

网址:www.halin-hydraulic.com

邮箱:info@halin-hydraulic.com



HUAIAN HALIN HYDRAULIC TECHNOLOGY CO.,LTD

Add: No.9 Baiguo Road,Economic development Zone,

Huai'an City, Jiangsu Province,223005,P.R.China.

TEL: 0086-517-83958686

Mobile:+86-18751286775

Web:www.halin-hydraulic.com

Email:nancyfan@halin-hydraulic.com



www.halin-hydraulic.com
info@halin-hydraulic.com

产品手册
Product manual

ABOUT US

企业简介 →

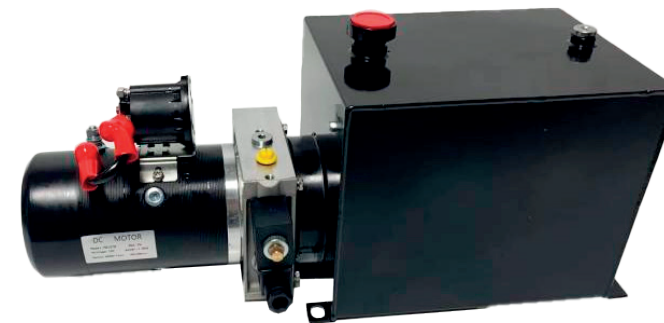
淮安哈林液压科技有限公司系专业高端液压元件研发的技术型企业,通过不断投入研发能力,研发出具有领先技术水平的液压产品-负载敏感比例阀,内啮合齿轮泵,比例插装阀,电磁阀,外啮合齿轮泵,油缸及成套液压动力系统。以客户需求为产品开发战略,遵循求实优质、开拓创新的发展理念。

Huai'an HaLin Hydraulic Technology Co., Ltd. is a high-tech enterprise specializing in the research and development of high-end hydraulic components. Through continuous investment in research and development capabilities, we have developed hydraulic products with international advanced technological level - load sensitive proportional valves, internal gear pumps, proportional plug-in valves, solenoid valves, external gear pumps, cylinders, and complete hydraulic power systems. Our product development strategy is based on customer needs, following the development philosophy of seeking truth, quality, and innovation.



DC HYDRAULIC POWER UNIT

直流动力单元 →

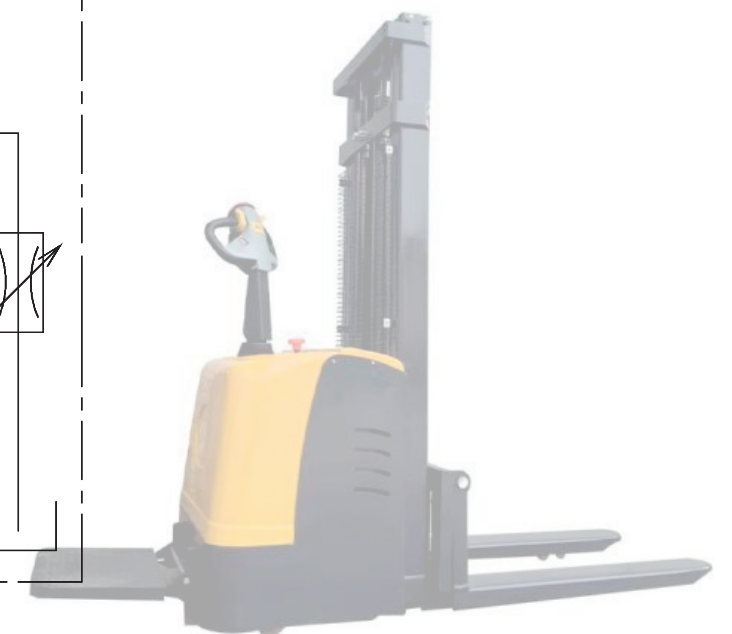
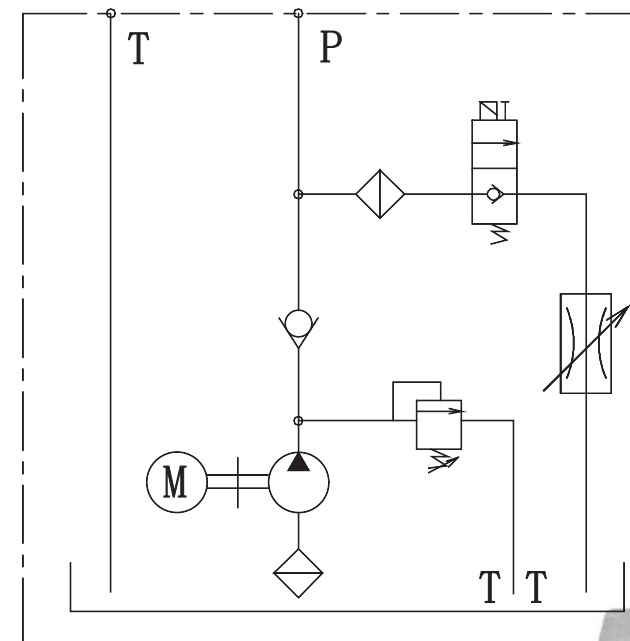


直流液压动力单元用途广泛,采用斜齿静音齿轮泵,液压系统噪音低。模块化设计和刚性结构,多功能,根据客户需求选择配置方案。

DC hydraulic power unit has a wide range of uses, using helical gear, silent gear pump, the hydraulic system has low noise. Modular design and rigid structure, and is multi-functional. Configuration options can be selected according to customer needs.

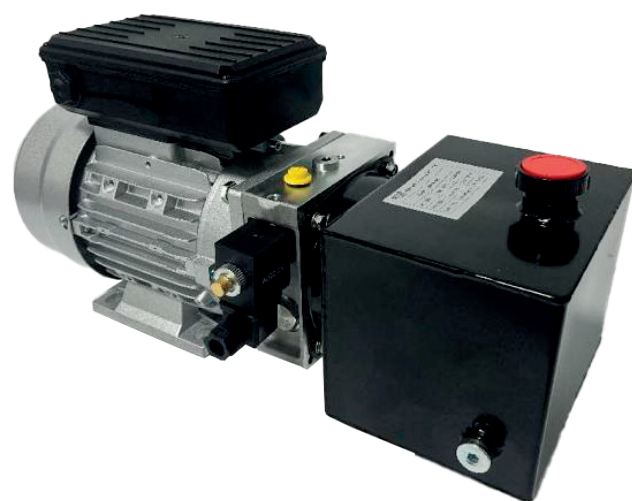
Motor Range	0.8kw to 4.0kw DC 12V, 24V, 48V
Pump	0.5cc/r to 5.8cc/r
Tank size	3-10L (steel or plastic)
Pressure	Up to 18Mpa
Customization	As per Requirement

液压原理 HYDRAULIC CIRCUIT →



AC HYDRAULIC POWER UNIT

交流动力单元 →

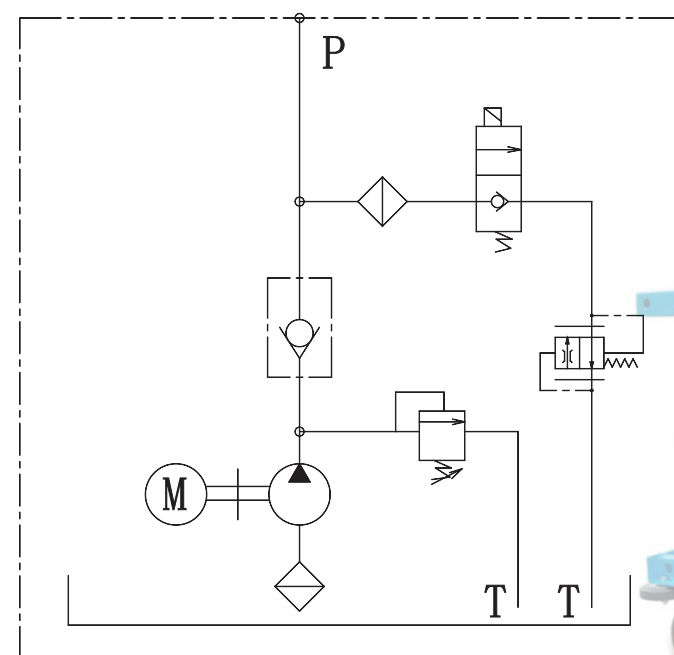


交流液压动力单元用途广泛，采用斜齿静音齿轮泵，液压系统噪音低。模块化设计和刚性结构，多功能，根据客户需求选择配置方案。

AC hydraulic power unit has a wide range of uses, using helical gear silent gear pump, the hydraulic system has low noise. Modular design and rigid structure, and is multi-functional. Configuration options can be selected according to customer needs.

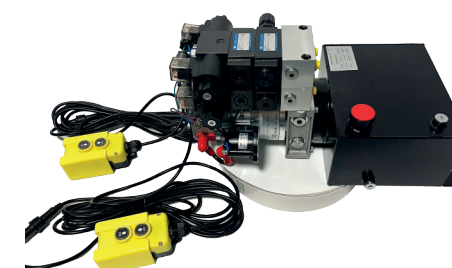
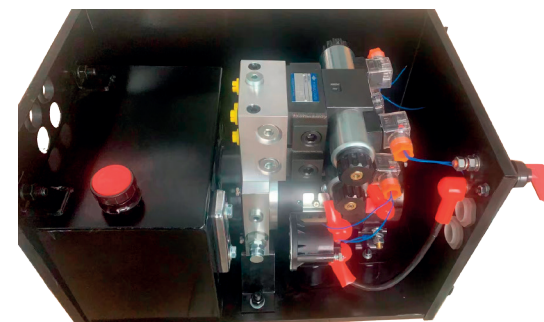
Motor	0.37kw to 5.5kw
Voltage	110V to 415V (2pole or 4pole)
Pump	0.75cc/r to 7.0cc/r
Tank size	2.8-10L (plastic or steel)
Pressure	Up to 18Mpa
Customization	As per Requirement

液压原理 HYDRAULIC CIRCUIT →



HYDRAULIC POWER UNIT FOR THE WINGBOX

飞翼车用动力单元 →

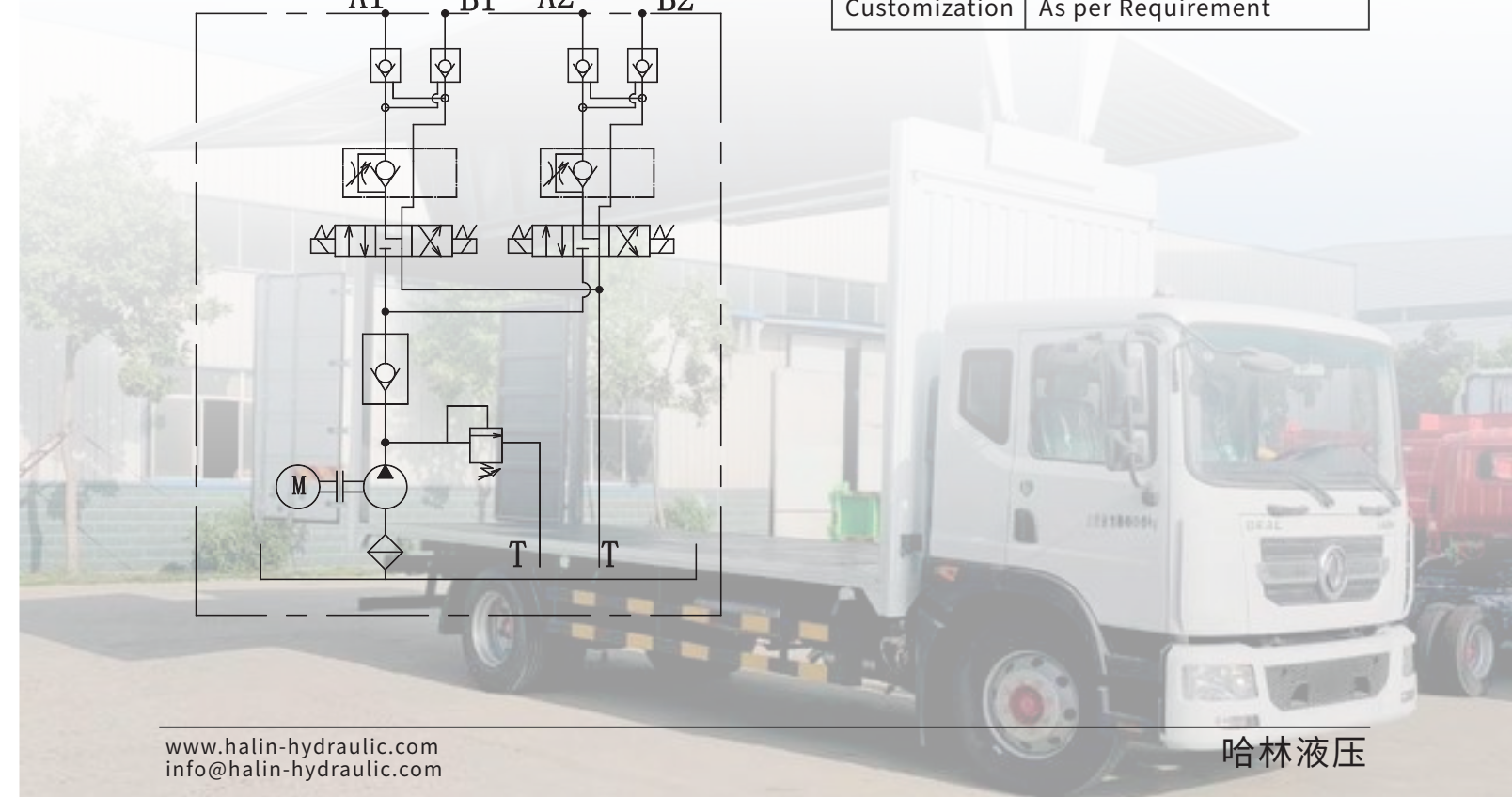
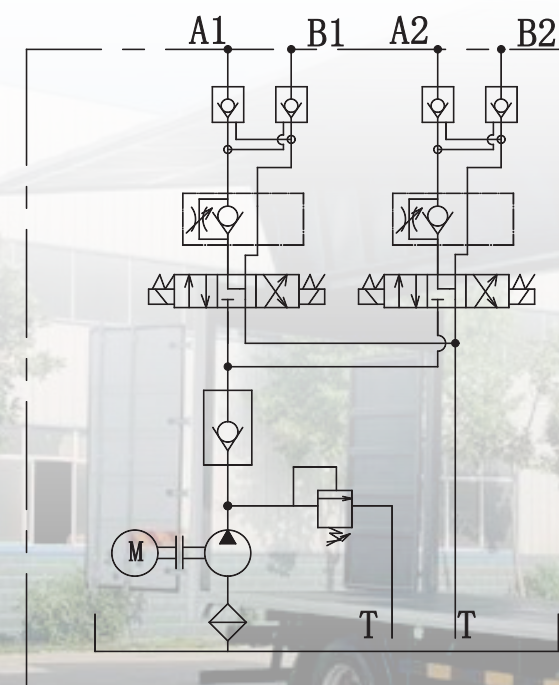


为飞翼车的开启闭合提供动力，模块化设计和刚性结构，多功能，根据客户需求选择配置方案。

Provides power for the opening and closing of the Wing box. It has a modular design and rigid structure. It is multi-functional and can be configured according to customer requirements.

Motor Range	DC12V 1.6kw DC12V 2.2kw DC24V 2.2kw DC24V 2.5kw
Pump	1.6cc/r 2.0cc/r 2.5cc/r 2.9cc/r 3.2cc/r
Tank size	4-12L
Pressure	Up to 18Mpa
Customization	As per Requirement

液压原理 HYDRAULIC CIRCUIT →

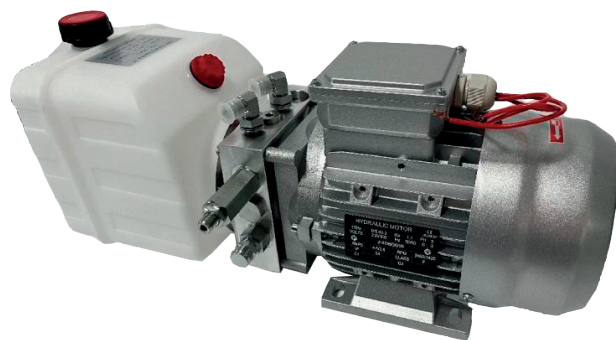


HYDRAULIC POWER UNIT FOR THE DOCK-LEVELLER

登车桥用液压动力单元 →

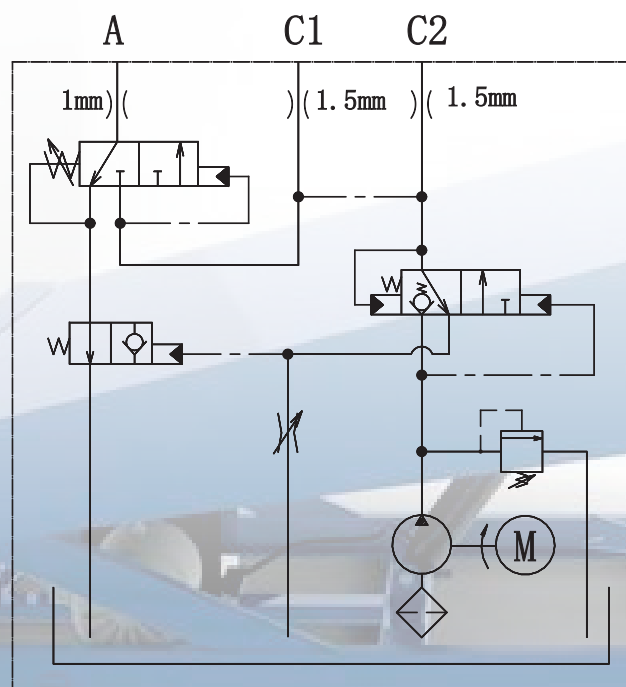
为液压登车桥提供大小桥板的有序升降和闭合功能,采用斜齿静音齿轮泵,液压系统噪音低。

Provide orderly lifting and closing functions of deck&lip for the hydraulic Dock Leveller.Using helical gear silent gear pump, the hydraulic system has low noise.



Motor	0.75kw,1.1kw,1.5kw
Voltage	220V to 415V (2pole or 4pole)
Pump	1.0cc/r 1.6cc/r 2.0cc/r 2.5cc/r
Tank size	4-10L (plastic or steel)
Pressure	12Mpa
Customization	As per Requirement

液压原理 HYDRAULIC CIRCUIT →



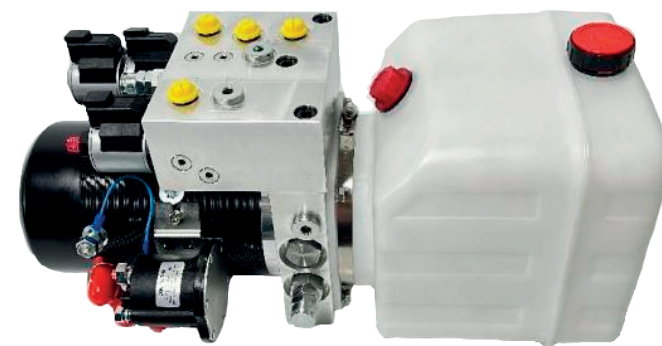
HYDRAULIC POWER UNIT FOR AERIAL WORK VEHICLES

高空作业车用动力单元 →

为移动式高空作业车提供升降,行走,转向等功能,采用斜齿静音齿轮泵,液压系统噪音低。

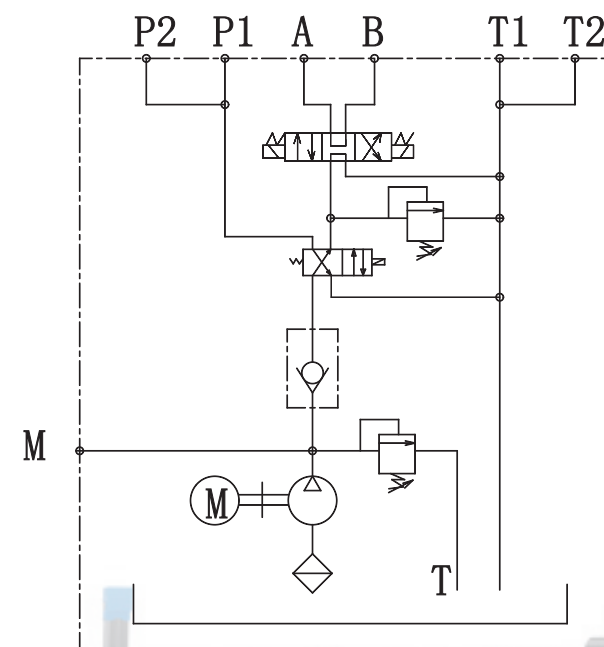
可以根据客户需求进行定制。

Provide lifting, moving, steering and other functions for mobile Aerial work vehicles, using helical gear silent gear pump, the hydraulic system has low noise, can be customized according to customer requirements.



Motor Range	0.75kw to 4.5kw DC 12V , 24V, 48V
Pump	0.5cc/r to 5.8cc/r
Tank size	3-10L (steel or plastic)
Pressure	Up to 18Mpa
Customization	As per Requirement

液压原理 HYDRAULIC CIRCUIT →



HYDRAULIC POWER UNIT FOR TIPPER TRAILER

自卸拖车用动力单元 →

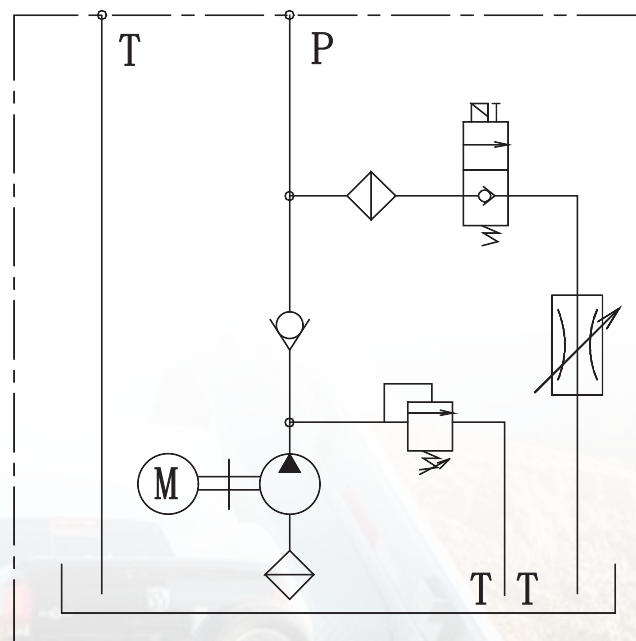


为自卸车提供升降功能，配置节流阀，下降速度可调。采用斜齿静音齿轮泵，液压系统噪音低。

Provide lifting for Tipper Trailer, with the throttle valve, the down speed adjustable. using helical gear silent gear pump, the hydraulic system has low noise.

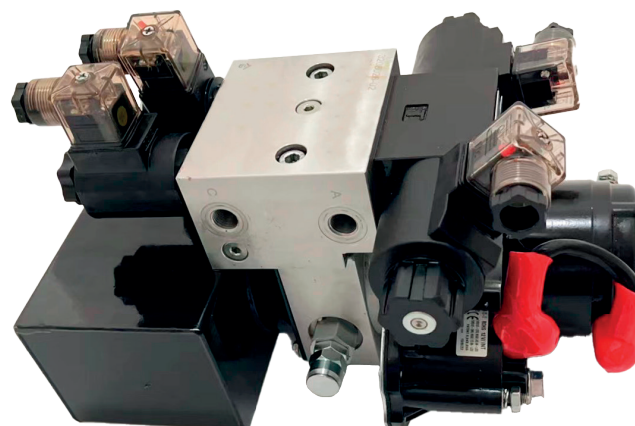
Motor Range	0.8kw to 4.0kw DC 12V , 24V, 48V
Pump	0.5cc/r to 5.8cc/r
Tank size	3-10L (steel or plastic)
Pressure	Up to 18Mpa
Customization	As per Requirement

液压原理 HYDRAULIC CIRCUIT →



HYDRAULIC POWER UNIT FOR MICRO AERIAL WORK VEHICLES

微型高空作业车 动力单元 →



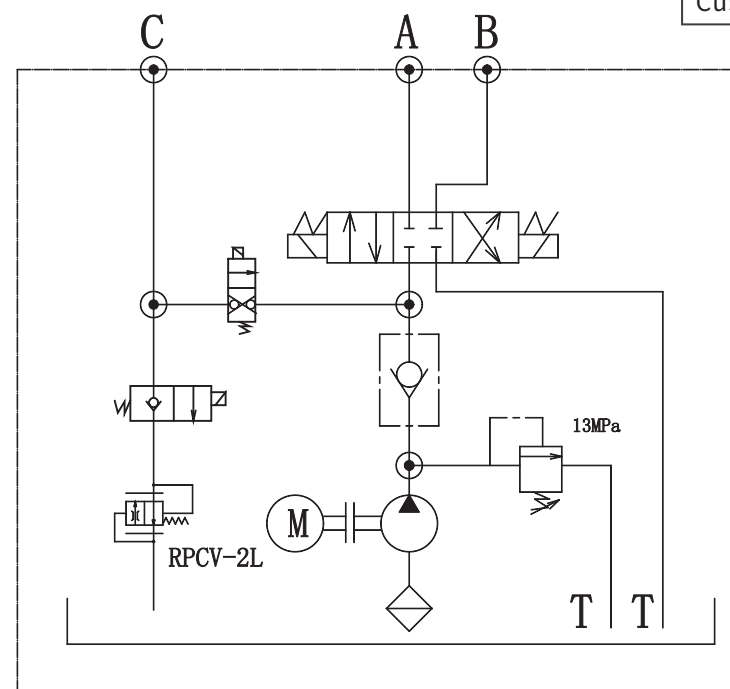
为移动式高空作业车提供升降，行走，转向等功能，采用斜齿静音齿轮泵，液压系统噪音低。

可以根据客户需求进行定制。

Provide lifting, moving, steering and other functions for mobile Aerial work vehicles, using helical gear silent gear pump, the hydraulic system has low noise, can be customized according to customer requirements.

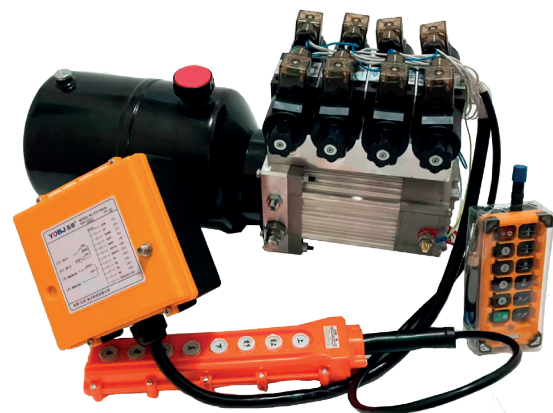
Motor Range	0.5kw to 3kw DC 12V , 24V, 48V
Pump	0.5cc/r to 5.8cc/r
Tank size	3-10L (steel or plastic)
Pressure	Up to 20Mpa
Customization	As per Requirement

液压原理 HYDRAULIC CIRCUIT →



HYDRAULIC POWER UNIT FOR LIFTING CRANES

随车吊动力单元 →

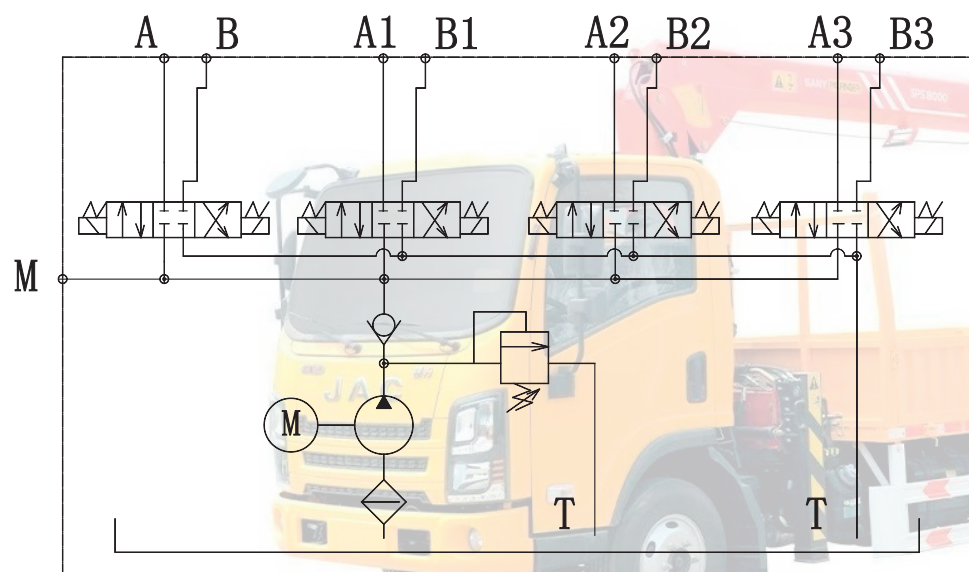


该单元广泛用于起重吊车，随车吊等，采用无刷电机，可以长时间工作，配置斜齿静音齿轮泵，液压系统噪音低。可手动控制，亦可以无线遥控，使用方便灵活。可以模块化设计和刚性结构，多功能，根据客户需求选择配置方案。

This unit is widely used in lifting cranes, truck-mounted cranes, etc. It uses a brushless motor and can work for a long time. It is equipped with a helical silent gear pump and the hydraulic system has low noise. It can be controlled manually or wirelessly, making it easy and flexible to use. It can be designed in a modular and rigid structure, with multiple functions, and configuration options can be selected according to customer requirements.

Motor Range	0.8kw to 4.0kw DC 12V, 24V, 48V, 60V, 72V
Pump	0.5cc/r to 5.8cc/r
Tank size	3-10L (steel or plastic)
Pressure	Up to 20Mpa
Customization	As per Requirement

液压原理 HYDRAULIC CIRCUIT →



HYDRAULIC POWER UNIT FOR CAR-LIFTS

汽车举升机用动力单元 →

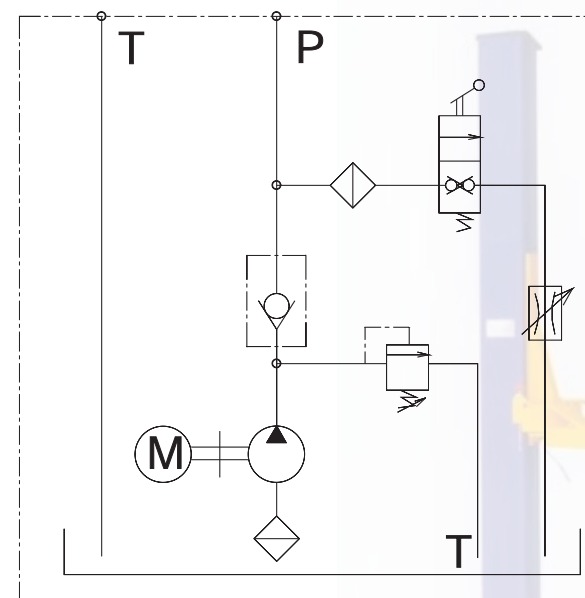


为汽车举升机提供升降功能，采用斜齿静音齿轮泵，液压系统噪音低。下降可手动，也可电动控制。可以根据客户需求进行定制。

Provides lifting function for car lifts, adopts helical gear silent gear pump, and the hydraulic system has low noise. Descending can be controlled manually or electrically. Can be customized according to customer requirements.

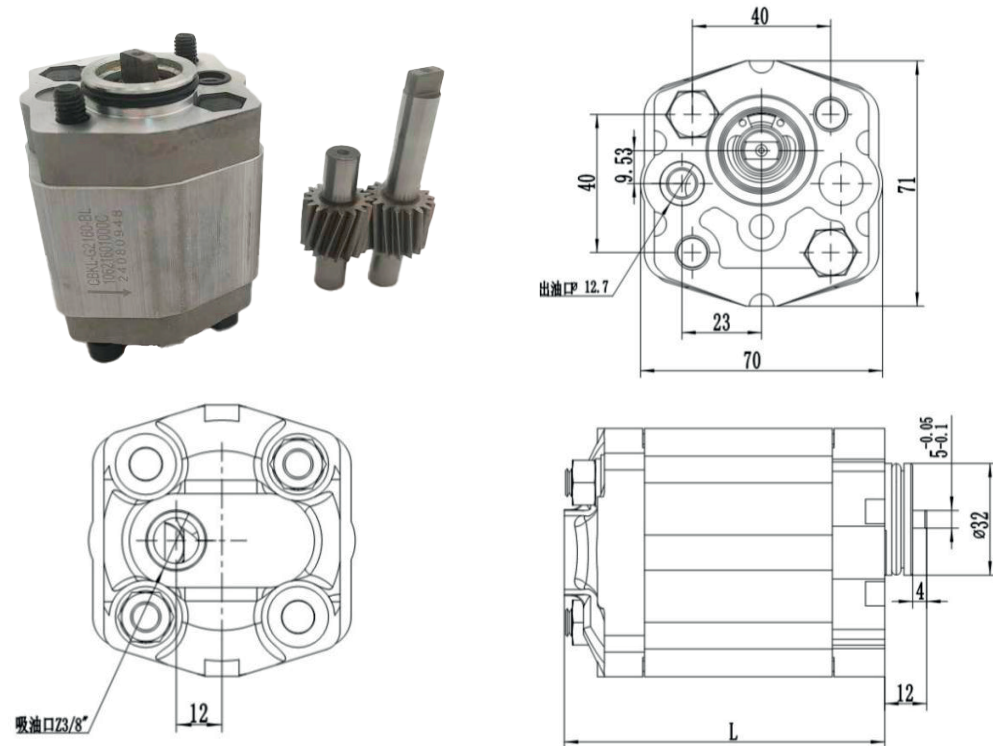
Motor Range	1.5kw to 4kw AC 110V to 460V
Pump	1.6 cc/r to 5.8cc/r
Tank size	8-14L (steel or plastic)
Pressure	Up to 20Mpa
Customization	As per Requirement

液压原理 HYDRAULIC CIRCUIT →



CBKL SERIAL SILENT PUMP (HELICAL GEARS)

CBKL系列静音泵（斜齿）➡

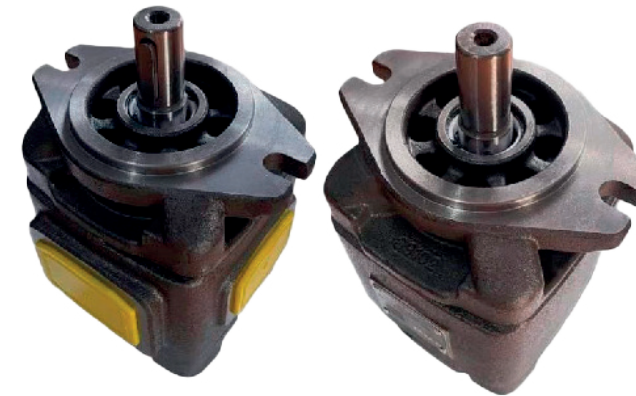


性能参数 TECHNICAL DATA ➡

型号 Type	公称排量 displacement (mL/r)	压力 Pressure (MPa)		转速 Speed (r/min)		容积效率 Volumetric efficiency (≥%)	L(mm)	M(mm)
		额定	最大	最低	最高			
CBKL-G2050	0.5	20	25	800	3000	91	34	72
CBKL-G2065	0.65	20	25	800	3000	92	34.5	72.5
CBKL-G2075	0.75	20	25	800	3000	92	35	73
CBKL-G2100	1.0	20	25	800	3000	92	36	74
CBKL-G2130	1.3	20	25	800	3000	92	37	75
CBKL-G2160	1.6	20	25	800	3000	93	38	76
CBKL-G2200	2.0	20	25	800	3000	93	40	78
CBKL-G2250	2.5	20	25	800	3000	93	42	80
CBKL-G2330	3.3	20	25	800	3000	93	44	82
CBKL-G2370	3.7	20	25	800	3000	93	46	84
CBKL-G2420	4.2	20	25	800	3000	93	48	86
CBKL-G2480	4.8	20	25	800	3000	93	50	88

INTERNAL GEAR PUMP

内啮合齿轮泵 ➡



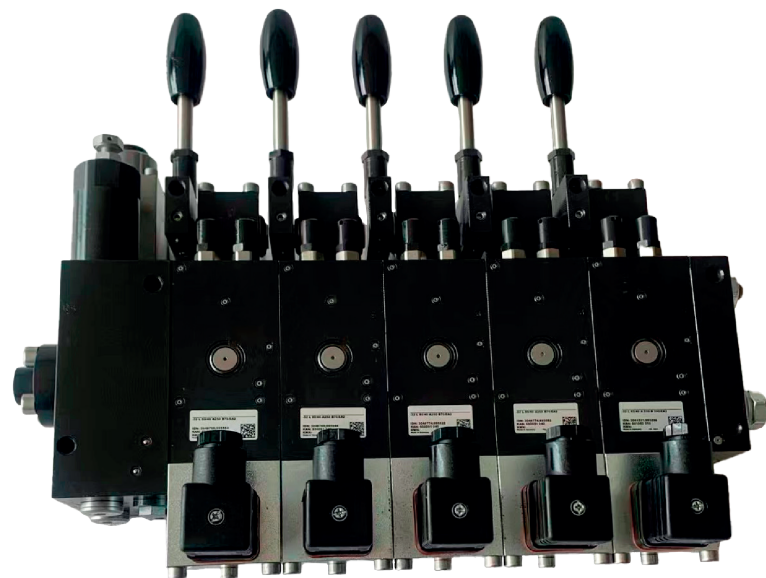
高压可达35MPa, 低噪音, 低速保压 (50转/分钟, 压力可以上升到20MPa)。压力波动小, 设备运行更平稳. 广泛应用于折弯机, 注塑机, 高端伺服系统等。

Max Pressure can be 35Mpa, Lower Noise, keep the pressure at the low speed(20Mpa@50rpm). Low Pressure volatility, the facility runs steadily. Widely used in the Bending machines, injection molding machines and the high-end servo system etc.



LOAD SENSITIVE ELECTRIC PROPORTIONAL MULTIPLE DIRECTIONAL VALVE

负载敏感电比例多路阀 →



负载敏感比例多路换向阀主要用于工程机械电控控制领域，控制液压油缸或马达的运动方向和速度。它具有电控、液控和手动操作等功能，可实现无级调速，且不受负载变化影响。负载敏感特性可使多路执行元件同时并且相互独立地以不同速度和压力工作，直至达到泵源的最大流量为止。应用于盾构机，掘进机，泵车等

Load sensitive proportional directional valves are mainly used in the field of electro-hydraulic control of construction machinery to control the transport of hydraulic cylinders or motors. Moving direction and velocity. It has electronic control, hydraulic control and manual operation functions, can achieve stepless speed regulation, not affected by load changes. Load sensitive characteristic. The multiple actuator elements can be made to work simultaneously and independently at different speeds and pressures until the maximum flow rate of the pump source is reached. Used in shield boring machines, tunnel boring machines, pump trucks, etc.

液压动力单元的使用、维护及一般故障排除

一、选型说明

- 1、仔细阅读怎样订购动力单元章节的内容，按实际要求填写规格型号。
- 2、根据需实现的液压功能，选择相应的液压原理图。
- 3、根据液压缸负载大小和活塞运动速度，合理地选择齿轮泵排量、系统工作压力和电机功率，确定液压动力单元技术参数。
- 4、根据情况确定电机及电磁阀电压形式。

二、使用注意事项

- 1、请仔细阅读使用说明书，并对照产品型号、参数是否正确。
- 2、液压动力单元应正确安装，接电正确。注意电机、电磁阀电压是否与电源相符（见电器原理图），电机旋转方向是否正确（从出轴端看顺时针）。
- 3、常规直流电机为间歇式工作制S2=2~4min（一次启动持续工作时间）；S3=10%ED（持续工作时间占一次工作循环时间的10%），不可以连续运转。若选用10min工作制交流电机，也不可以连续工作。
- 4、液压动力单元工作压力出厂时已调好，为保证良好的使用状态请用户不要随便调节。
- 5、液压动力单元应使用油液运动粘度为27~43mm/s (50℃)的抗磨液压油，油温低于50℃时推荐使用YA-N46，油温高于50℃时推荐使用YA-N68，加入的油液应经过滤精度为30um过滤器过滤，常规加入量为油箱有效容积的80%，常规油液温度应在-10~80℃范围内，特别寒冷的地区，应采用低温液压油，如YA-N32。

三、简单故障识别及排除方法

- 1、电机不转，检查连接线路的准确性。
- 2、电机启动，油缸不上升或上升不稳
 - (1) 油缸内油面过低，加油到规定的油位；
 - (2) 油液的粘度过大或过小，使用推荐液压油；
 - (3) 吸油滤网堵塞，清洗或更换滤网；
 - (4) 吸油管不密封或漏气，查出漏气，不密封处并进行修理或换吸油管；
 - (5) 电磁阀或手动阀没有闭合，清洗电磁阀、手动阀或更换；
 - (6) 副手动电磁阀应急按钮打开，合上应急按钮；
 - (7) 电磁阀通电，导致油从电磁阀里卸荷，检查电气线路；
 - (8) 电机旋转反向，检查重新连接；
 - (9) 溢流阀未正确安装到位，或调压未调好，检查并重新设定压力；
 - (10) 联轴器未安装到位，或选择不当，检查重新安装或更换；
 - (11) 齿轮泵出油处O型圈被激坏，拆下齿轮泵检查并更换该O型圈。
- 3、卸荷时油缸不下降或下降不稳
 - (1) 电磁阀未能通电，检查电气线路；
 - (2) 电磁阀输入电压不符合要求，检查电压并达到标准值；
 - (3) 电磁阀或手动阀滤网堵塞，拆下清洗或更换阀芯；
 - (4) 通电时间过长或过热使电磁铁损坏，检查电压是否过压，确认输入的信号；
 - (5) 节流阀或压补阀被堵死，调节或更换。
- 4、系统不保压，油缸在保压时往下掉
 - (1) 单向阀不密封，清洗单向阀或更换油封；
 - (2) 电磁阀，手动阀不密封，清洗或更换油封；
 - (3) 排除油缸本身的不保压，将测压表直接接在出油口，若保压正常则属执行件的问题。
- 5、从油箱与阀块之间漏油或渗油，O型圈磨损或压断，检查并更换O型圈。
- 6、电机后盖或电机与阀块之间渗油或漏油
 - (1) 阀块高压处漏油，拆下电机检查，若是，通知厂家更换整个动力单元；
 - (2) 齿轮泵上的骨架油封松掉，更换齿轮泵。
- 7、开关切断后，电机继续运转
 - (1) 电气连接错误，检查并正确接线；
 - (2) 启动开关烧坏，断电检查，更换启动开关；
 - (3) 交流接触器烧坏，断电检查，更换交流接触器。
- 8、系统噪音偏大
 - (1) 系统中存在空气，连续往复工作几次，排除空气；
 - (2) 联轴器未正确安装或磨损，检查并重新安装或更换；
 - (3) 电机失效，检查电机，必要时更换；
 - (4) 不要长时间在极点压力下工作，溢流阀开始溢流时即停止工作。