恩特威尔®
ANWEEL

常州市武进安圩液压件制造有限公司
CHANGZHOU WUJIN ANWEEI HYDRAULIC PARTS MANUFACTURING CO., LTD.

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从事液压研发、生产、服务于一体的现代化专业企业
PROFESSIONAL ENTERPRISE FOR HYDRAULIC SYSTEMS DESIGN,SERVICE AND MANUFACTURE

务实 PRAGMATIC　求精 PERFECTION　团结 SOLIDARITY　创新 INNOVATION

恩特威尔®
ANWEEL

安圩文化

ANWEEI CULTURE

我们的愿景
OUR VISION

- 安圩液压与您携手共进，共谋繁荣！
  ANWEEI WILL WORK TOGETHER WITH YOU TO SEEK COMMON PROSPERITY!
- 我们将以更加专业、精细、高效、优质的姿态，将“恩特威尔”牌油缸做得更好！
  WE WILL MAKE “ANWEEL” BRAND CYLINDERS BETTER WITH A MORE PROFESSIONAL, PRECISE, EFFICIENT AND HIGH-QUALITY ATTITUDE!

企业经营方针
BUSINESS POLICY

- 以诚信赢得市场
  WIN THE MARKET WITH INTEGRITY
- 以质量铸造品牌
  BUILD BRAND WITH QUALITY
- 以品牌和服务为支撑
  SUPPORTED BY BRAND AND SERVICE
- 以技术研发为基础
  BASED ON TECHNOLOGICAL RESEARCH AND DEVELOPMENT

企业精神
ENTERPRISE SPIRIT

- INNOVATION 创新
- PRAGMATIC 务实
- DEDICATION 敬业
- EFFICIENT 高效

人才理念
TALENT CONCEPT

- 忠诚——忠诚于岗位、忠诚于团队、忠诚于企业
  LOYALTY-LOYAL TO THE JOB, THE TEAM AND THE ENTERPRISE
- 严谨——注重细节、科学决策、严格认真
  RIGOROUS-ATTENTION TO DETAIL, SCIENTIFIC DECISION-MAKING, STRICT AND SERIOUS
- 专业——具备精湛的工作技能，让专业的人做专业的事
  PROFESSIONAL-HAVE SUPERB WORKING SKILLS AND LET PROFESSIONAL PEOPLE DO PROFESSIO-NAL THINGS

关于我们

ABOUT US

公司成立于 1996 年，占地面积 27000 多平方米，现有职工 200 余人，拥有机械专业技术人员 20 余人，各类加工设备 200 余台，其中数控深孔镗床、刮削辊光机、油缸试验台、自动焊接工作台、数控车床、全自动清洗机、加工中心、全自动涂装线等精密加工设备及其它检测装置 90 多台套。在生产过程中，我们严格按照 IATF16949 的要求做好生产过程的质量管理和辅助生产过程质量控制，确保产品的质量，并不断强化质量的提升。公司主导产品 TG、HG、HSG 系列油缸已广泛应用于各种工程机械、自卸汽车、矿山机械、水利、军工、环卫等行业，同时根据顾客需求设计定制各类油缸及液压系统。

公司坚持以“以诚信赢得市场、以质量铸造品牌”为宗旨，以“顾客的满意，我们的追求”为奋斗目标，致力于液压系统产品领域的发展，着力于打造“恩特威尔”品牌，并以良好的信誉、一流的产品满足所有客户的需求，赢得了较高的市场美誉，公司拥有“高新技术企业”、“工程技术研究中心”、“江苏省民营科技企业”等多项资质证书。产品销售遍布各地，已和一汽、重汽、陕汽、江淮、徐工、三一重工、吉利远程、青拓重工、中集西安等中集主机体系、上装厂等建立密切合作关系。年生产能力达5万余台，我们的产品不仅畅销国内，而且出口国外，与欧洲、美洲、非洲、亚洲等地区的客户保持着长期的友好合作关系。

Our company was establthed in 1996, covers an area of more than 27000m². We now have more than 200 workers, over 20 professional technicians and more than 200 sets af various processing equipments, Such as CNC deep hole boring machine, scraper rollermachine, cylinder testing machine, automatic weld ingmschine, NC machines, CNC lathes, full automatic washing machine, full automaticpainting line and so on We also have more than 90 sets detection devices to makesuro pecison machimng.We strictly follow the requirements of IATF16949 for production. Make good quality management and auxiliary production process quality centrel, To ensure the good quality of products and continuously strengthen the ability of the quality improvement. Our company's leading products of TG, HG, HSG series cyinders have been widely used in various construction machinery self dumping trucks, Mining machinery, hydraulic works, military industry sanitation and so on, We also customize various types of cylinders and hydraulic systems according to customer requirements.

Under the policy of "Win the market with good faith and estabish the brand with goed quality" and final target is to reach "customer satisfaction', we devote our selves to the development of hydraulic system and strive to build the "ANWEEL" brand. Win the customers by good reputation and first-class products. We have the certifcates of "High and new technology enterprises", "industrial technology research center", "Private science and technclogy enterprises in jiangsu province " and so on. Our products are widely sale to the countries all over the world, and we have cooperated with the famous companies like FAW, China National Heavy Duty Truck, Shaansd Automobile, JAC, XCMG, SANY, FARIZON、CIMC Xi'an and other CIMC mainframe system etc. The annual production capacity now is more than 50,000 sets, Our products are not only best-selling domestically, but also exported abroad, maintaining long-term friendly cooperation relationsh.

资质荣誉

QUALIFICATION AND HONOR

企业铜牌
ENTERPRISE MEDALS

企业证书
ENTERPRISE CERTIFICATE

中国国际贸易促进委员会证书
CERTIFICATE OF CHINA COUNCIL FOR THE PROMOTION OF INTERNATIONAL TRADE

实用新型专利证书
PATENT CERTIFICATES

创新是为了更好的服务
服务让产品更有意义
INNOVATION IS FOR BETTER SERVICE
SERVICE MAKES PRODUCTS MORE MEANINGFUL

安圩优势

THE ADVANTAGES OF ANWEEL

企业占地面积
ENTERPRISE AREA

25000m2

企业拥有职工及专业技术人员
PROFESSIONAL TECHNICIANS AND EMPLOYEES

200余人
More than 200 workers

企业现有各类加工设备
WE HAVE MORE THAN 200PCS ADVANCED EQUIPMENTS

200余台
More than 200pcs

产品远销亚洲、欧洲、美洲、非洲数十个国家
PRODUCTS ARE EXPORTED TO ASIA, EUROPE, AMERICA, AFRICA DOZENS OF COUNTRIES

全球覆盖
All over the world

已申请并拥有专利
PATENTS

20余项
More than 20 patents

公司特色

COMPANY CHARACTERISTICS

准确、可靠的定位和夹紧，可以减轻甚至取消下料和装配时的划线工作。减少尺寸偏差，提高了零件的精度和互换性。

Accurate and reliable positioning and clamping can reduce or even cancel the marking work during cutting and assembly. Reduce product deviation,improve the accuracy and interchangebility.

该设备采用欧洲先进的镗孔，滚压复合加工工艺，往复一次即可完成镗孔滚压功能。加工精度可达到IT8级，表面粗糙度可达到RA005-0.2μm. 具有低噪音、无污染的优势，并可大大节省劳动力成本，加工效率高。比老的镗孔+滚压或镗孔+珩磨可节省加工时间达80-90%。

The equipment adopts European advanced boring and rolling compound processing technology, and the boring and rolling can be completed at one time. The machining accuracy can reach IT8 grade and the surface roughness can reach Ra005-0.2μm. It has the advantages of low noise and no pollution, and can greatly save labor costs and high processing efficiency. Compared with the old boring + rolling or boring + honing, the processing time can be saved by 80-90%.

全自动往复式超声波清洗机清洗，提高缸筒内外径以及密封件槽的清洁度,改善了工人的劳动条件。

The full-automatic reciprocating ultrasonic cleaning machine improves the cleanliness of the inner and outer surface of the cylinder and the seal groove, so that the workers can with better working conditions

装配车间封闭独立，环境整洁，远离风口、粉尘、切削加工区，无灰尘、无噪音；无强光直射。

Assembly workshop closed independent, clean and tidy environment, away from the tuyere, dust, cutting processing, no dust, no noise; No direct light.

通过自动喷漆线，进行油漆，烘干。

Through the automatic painting line, painting and drying.

自动上料，自动装夹，完成缸筒从粗车到精车的全部过程，缩短了产品制造工艺链，提高了生产效率，减少装夹次数，提高了精度。

Automatic feeding, automatic clamping, complete the whole process of the cylinder from rough lathe to precision lathe, shorten the product manufacturing process chain, improve the production efficiency, reduce the clamping times and improve the precision.

液压系统

THE HYDRAULIC SYSTEM

该液压系统主要由油箱、齿轮泵、举升阀、气控阀和限位阀、油管及接头等部分组成。

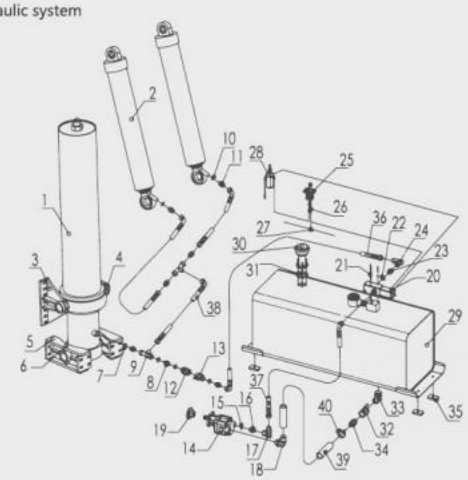
Hydraulic system is composed of oil tank,gear pump, tipping valve,knock-off valve,hose and the accessories.

1.自卸车系统组成

Dump truck compoments

1.1液压系统线路图

The circuit diagram of hydraulic system



零部件清单

Parts list

序号 Item	零部件代码 Part no.	零部件名称 Description	数量 Quantity	序号 Item	零部件代码 Part no.	零部件名称 Description	数量 Quantity
1	0168 6817	5TG-F240×9030ZZ 液压缸 5TG-F240×9030ZZ hydraulic cylinder	1	21	0182 6501	举升阀安装套件 Installation parts of lifting valve	1
2	0167 5329	4TG-F149×950 液压缸 4TG-F149×950 hydraulic cylinder	1	22	0183 3794	组合垫圈 Combination gasket	1
3	0182 9343	油缸举升支座（左） Brackets of cylinder(Left)	1	23	0183 3785	直通接头 Straight fittings	1
4	0182 9257	油缸举升支座（右） Brackets of cylinder(Right)	1	24	0183 3695	直角接头 L type fittings	1
5	0182 8020	底盘支架 Chassis bracket	2	25	0181 8766	手控阀 Hand control valve	1
6	0182 7349	黄油嘴 Grease fitting	4	26	0182 7583	手控阀安装套件 Installation parts of hand valve	1
7	0182 3792	组合垫圈 Combination gasket	4	27	0182 6352	气路三通接头 Three way fittings for air	1
8	0182 3783	直通接头 Straight fittings	5	28	0181 9545	限位阀 Limit valve	1
9	0182 2654	油路三通接头 Three way fittings for oil	2	29	0181 1651	液压油箱 Oil tank	1
10	0182 3796	组合垫圈 Combination gasket	2	30	0186 1182	空滤器总成 Air filter assembly	1
11	0182 3782	直通接头 Straight fittings	2	31	0183 1569	空滤器安装套件 installation parts of air filter	1
12	0182 7593	快换接头（公） Quick connectors (male)	1	32	0187 0077	球阀 Ball valve	1
13	0182 7586	快换接头（母） Quick connectors (female)	1	33	0187 0076	直角管接头 L type connectors	1
14	0185 2287	CBW-DP100R-A1 齿轮泵 CBW-DP100R-A1 Gear pump	1	34	0187 0075	直通管接头 Straight connectors	1
15	0183 3791	组合垫圈 Combination gasket	1	35	0187 0062	油箱减震块 Shock absorption block of oil tank	1
16	0183 3788	直通接头 Straight fittings	1	36	0184 3392	4000 高压油管 4000 Hihg pressure oil tube	1
17	0183 3695	直角接头 L type fittings	1	37	0184 3381	1500 高压油管 1500 Hihg pressure oil tube	1
18	0183 1501	直角管接头 L type connectors	1	38	0184 3395	2500 高压油管 2500 Hihg pressure oil tube	1
19	0183 3524	泵联轴器 Pump coupler	1	39	0184 2957	3000 低压油管 3000 Hihg pressure oil tube	1
20	0181 9205	PT举升阀 PT lifting valve	1	40	0183 6979	管夹 Tube clamp	2

前置顶油缸

FRONT TIPPING OIL CYLINDER

前置顶油缸我公司综合国内外同类产品先进经验而开发的主导产品，专为自卸车和自卸半挂车而设计。其结构更加合理、可靠，有双绞轴、耳环绞轴、多耳环等多种连接方式，行程3000-9000。

The front tipping oil cylinder is the leading product developed by our company by integrating advanced experiences from similar products at home and abroad, specifically designed for dump trucks and dump semi-trailers. Its structure is more reasonable and reliable, with various connection methods such as double key shaft, ear ring key shaft, multiple ear rings, etc., with a stroke of 3000-9000.

前置顶油缸型号与含义

The model and meaning of the front tipping oil cylinder.

XXX 000-0 - 0000-K0000-(DC)

- 镀铬Chrome-plated
- 跨距Span
- 行程Stroke
- 级数Stages
- 第一级缸径 First-stage Cylinder Diameter
- 油缸结构*Oil Cylinder Structure *

*油缸结构*Oil Cylinder Structure

FC：带有外套筒的前顶液压举升油缸

FC：Front top hydraulic lifting cylinder with outer sleeve

FE：单铰耳型前顶液压举升油缸

FE：Single-hinge ear type front top hydraulic lifting cylinder

FEE：顶端球铰连接和底部铰耳连接且带有销的前顶液压举升油缸

FEE：Front top hydraulic lifting cylinder with top ball hinge connection, bottom hinge ear connection, and pin

FSE：顶端球铰连接和底部铰耳连接的前顶液压举升油缸

FSE：Front top hydraulic lifting cylinder with top ball hinge connection and bottom hinge ear connection

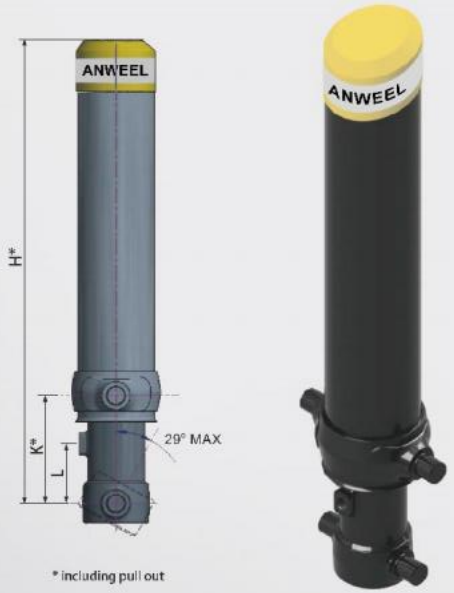
带有外套筒的前顶液压举升油缸（FC）

FRONT TOP HYDRAULIC LIFTING CYLINDER WITH OUTER SLEEVE (FC)

FC 前顶伸缩式油缸主要设计用于垂直型箱体前板的自卸箱体，举重能力范围超过 100 吨。我们的耳轴型前顶液压举升油缸重量轻、坚固、免维护，为自卸车车提供了最高的稳定性。

FC Front top telescopic cylinder is mainly designed for the front board of vertical box body of the dump truck body, with a lifting capacity range exceeding 100 tons. Our ear-shaft type front top hydraulic lifting cylinder is lightweight, durable, maintenance-free, providing the highest stability for dump trucks.

FLASH系列
FLASH Series



* including pull out

油缸标牌说明
Label explantion

油缸型号
出厂日期
油缸序号
最大工作压力

油缸型号说明
Cylinder model explanation

FC 191－5－6500－K343

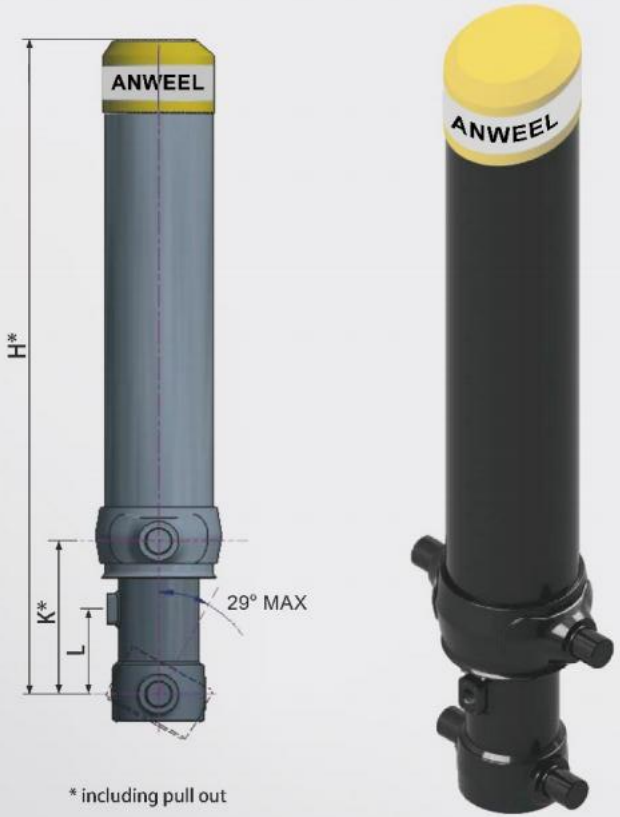
- 油缸安装距 Mounting length
- 油缸行程(mm) Stroke of the cylinder (mm)
- 缸筒级数 Extension of cylinder
- 第一级缸筒的有效直径 OD of first stage
- 油缸结构形式 Hydraulic cylinder type

油缸结构说明
Cylinder structure illustration
FC：带有外套筒的油缸 Hydraulic cylinder with cover
FE：带有球铰耳环的油缸 Hydraulic cylinder with trunnion and earring

油缸常见型号
Popular moder

系列 series	型号 Model	额定工作压力 Rated Working Pressure (bar)	举升重量 (ton) Lifting	容积 (升) Volum	油口 规格 Oil Port	H* (mm)	K* (mm)	L (mm)
149	FC149-3-3830-K343	200	44-56	55	G1	1560	343	170
	FC149-4-4280-K343	200	44-56	55	G1	1370	343	170
	FC149-4-4450-K343	200	44-56	57	G1	1400	343	170
	FC149-4-4650-K343	200	44-56	59	G1	1460	343	170
	FC149-5-4280-K343	200	44-56	48	G1	1115	343	170
	FC149-5-4450-K343	200	44-56	52	G1	1195	343	170
	FC149-5-4650-K343	200	44-56	52	G1	1195	343	170
169	FC169-4-4280-K343	200	57-72	74	G1	1370	343	170
	FC169-4-4650-K343	200	57-72	80	G1	1460	343	170
	FC169-4-5390-K343	200	57-72	92	G1	1640	343	170
	FC169-5-4280-K343	200	57-72	65	G1	1115	343	170
	FC169-5-4650-K343	200	57-72	68	G1	1195	343	170
	FC169-5-5000-K343	200	57-72	76	G1	1270	343	170
	FC169-5-5390-K343	200	57-72	82	G1	1370	343	170
	FC169-5-6000-K343	200	57-72	94	G1	1560	343	170
	FC169-5-6180-K343	200	57-72	94	G1	1560	343	170
	FC169-6-4280-K343	200	57-72	58	G1	1000	343	170
	FC169-6-4450-K343	200	57-72	63	G1	1050	343	170
	FC169-6-4650-K343	200	57-72	63	G1	1050	343	170
	FC169-6-5390-K343	200	57-72	72	G1	1195	343	170
	FC169-6-5780-K343	200	57-72	78	G1	1240	343	170
	FC169-6-6000-K343	200	57-72	83	G1	1340	343	170
	FC169-6-6180-K343	200	57-72	83	G1	1340	343	170
191	FC191-4-4450-K343	200	73-92	99	G1	1400	343	160
	FC191-4-4650-K343	200	73-92	103	G1	1460	343	160
	FC191-4-5390-K343	200	73-92	120	G1	1640	343	160
	FC191-4-5780-K343	200	73-92	128	G1	1800	343	160
	FC191-4-6180-K343	200	73-92	137	G1	1870	343	160
	FC191-5-4280-K343	200	73-92	85	G1	1115	343	160
	FC191-5-5390-K343	200	73-92	107	G1	1370	343	160
	FC191-5-5780-K343	200	73-92	116	G1	1460	343	160
	FC191-5-6180-K343	200	73-92	122	G1	1560	343	160
	FC191-5-6800-K343	200	73-92	134	G1	1740	343	160
	FC191-5-7200-K343	200	73-92	143	G1	1800	343	160
	FC191-5-7800-K343	200	73-92	149	G1	1870	343	160
	FC191-6-5390-K343	200	73-92	96	G1	1195	343	160
	FC191-6-5780-K343	200	73-92	107	G1	1240	343	160
	FC191-6-6180-K343	200	73-92	110	G1	1340	343	160
	FC191-6-6700-K343	200	73-92	120	G1	1460	343	160
	FC191-6-7200-K343	200	73-92	128	G1	1560	343	160
	FC191-6-7500-K343	200	73-92	134	G1	1610	343	160
	FC191-6-7800-K343	200	73-92	139	G1	1640	343	160
214	FC214-5-6180-K343	200	96-100	154	G1	1584	343	160
	FC214-5-6500-K343	200	98-103	162	G1	1646	343	160
	FC214-5-8130-K343	200	106-110	225	G1	1958	343	160
	FC214-5-9030-K343	200	110-115	225	G1	2151	343	160

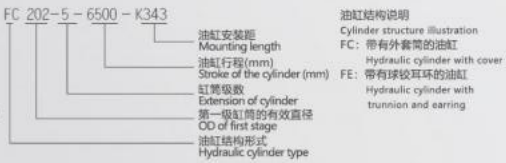
ALPHA系列
ALPHA Series



* including pull out

油缸标牌说明
Label explantion

油缸型号说明
Cylinder model explanation



油缸结构说明
Cylinder structure illustration
FC：带有外套筒的油缸
Hydraulic cylinder with cover
FE：带有球铰耳环的油缸
Hydraulic cylinder with trunnion and earring

油缸常见型号
Popular moder

系列 series	型号 Model	额定工作压力 Rated Working Pressure (bar)	举升重量 (ton) Lifting	容积 (升) Volum	油口 规格 Oil Port	H* (mm)	K* (mm)	L (mm)
137	FC137-3-4280-K343	200	25-35	52	G1	1750	343	170
	FC137-4-3830-K343	200	25-35	42	G1	1250	343	170
	FC137-4-4280-K343	200	25-35	46	G1	1380	343	170
	FC137-4-4650-K343	200	25-35	50	G1	1470	343	170
	FC137-4-5000-K343	200	25-35	54	G1	1570	343	170
157	FC157-4-3830-K343	200	35-45	56	G1	1250	343	170
	FC157-4-4280-K343	200	35-45	63	G1	1380	343	170
	FC157-4-4450-K343	200	35-45	65	G1	1410	343	170
	FC157-4-4650-K343	200	35-45	68	G1	1470	343	170
	FC157-4-5390-K343	200	35-45	78	G1	1650	343	170
	FC157-5-4270-K343	200	35-45	50	G1	1125	343	170
	FC157-5-4450-K343	200	35-45	57	G1	1205	343	170
	FC157-5-4650-K343	200	35-45	57	G1	1205	343	170
	FC157-5-5000-K343	200	35-45	60	G1	1280	343	170
	FC157-5-5390-K343	200	35-45	69	G1	1380	343	170
179	FC179-4-4280-K343	200	50-60	82	G1	1380	343	170
	FC179-4-4650-K343	200	50-60	89	G1	1470	343	170
	FC179-4-5000-K343	200	50-60	96	G1	1570	343	170
	FC179-4-5390-K343	200	50-60	104	G1	1650	343	170
	FC179-4-5780-K343	200	50-60	110	G1	1810	343	170
	FC179-4-6180-K343	200	50-60	118	G1	1880	343	170
	FC179-5-4270-K343	200	50-60	73	G1	1125	343	170
	FC179-5-4650-K343	200	50-60	78	G1	1205	343	170
	FC179-5-5000-K343	200	50-60	85	G1	1280	343	170
	FC179-5-5390-K343	200	50-60	92	G1	1380	343	170
	FC179-5-5780-K343	200	50-60	98	G1	1470	343	170
	FC179-5-6180-K343	200	50-60	105	G1	1570	343	170
	FC179-5-6400-K343	200	50-60	109	G1	1620	343	170
	FC179-6-4650-K343	200	50-60	65	G1	1060	343	170
	FC179-6-5780-K343	200	50-60	86	G1	1250	343	170
202	FC202-4-5390-K343	200	75-85	131	G1	1650	343	160
	FC202-4-5780-K343	200	75-85	140	G1	1810	343	160
	FC202-4-6180-K343	200	75-85	150	G1	1880	343	160
	FC202-4-6400-K343	200	75-85	157	G1	1980	343	160
	FC202-5-5390-K343	200	75-85	118	G1	1380	343	160
	FC202-5-5780-K343	200	75-85	126	G1	1470	343	160
	FC202-5-6000-K343	200	75-85	135	G1	1570	343	160
	FC202-5-6180-K343	200	75-85	135	G1	1570	343	160
	FC202-5-6500-K343	200	75-85	142	G1	1650	343	160

单铰耳型前顶液压举升油缸（FE）

SINGLE-HINGE EAR TYPE FRONT TOP HYDRAULIC LIFTING CYLINDER (FE)

FE 油缸重量轻、坚固、稳定且免维护，通常用于车厢前板倾斜的自卸车。FE 液压举升油缸自卸能力可达 100 多吨。我们降低了带有耳轴的FE（铰耳型前顶举升油缸）重量，对于单车自卸车和半挂自卸车而言，意味着可以获得举升速度更快。

The FE cylinder is lightweight, sturdy, stable, and maintenance-free, typically used for tilting the front board of a dump truck. The hydraulic lifting capacity of FE cylinder can reach over 100 tons. We have reduced the weight of FE with ear shaft, which means faster lifting speeds for single dump trucks and semi-trailer dump trucks.

FLASH系列
FLASH Series

* including pull out

油缸标牌说明
Label explantion

油缸型号说明
Cylinder model explanation

油缸常见型号
Popular moder

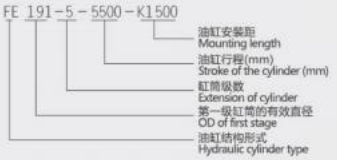
系列 series	型号 Model	额定工作压力 Rated Working Pressure (bar)	举升重量 (ton) Lifting	容积（升） Volum	油口 规格 Oil Port	H* (mm)	K* (mm)	L (mm)
129	FEA129-3-3480-K1490	250	44-61	37	G1	1543	1490	190
	FEA129-3-3880-K1610	250	44-61	38	G1	1663	1610	190
	FEA129-4-4320-K1365	250	44-61	39	G1	1418	1365	190
149	FEA149-3-3880-K1645	250	44-56	6	G1	1698	1645	190
	FE149-4-43200-K1365	220	44-56	58	G1	1453	1400	190
	FEA149-4-4525-K1485	220	44-56	58	G1	1538	1485	190
169	FEA169-4-4280-K1449	200	57-72	74	G1	1370	1449	190
	FEA169-4-4650-K1529	200	57-72	80	G1	1460	1529	190
	FEA169-4-5390-K1599	200	57-72	92	G1	1640	1599	190
	FE169-5-5300-K1400	220	57-72	80	G1	1453	1400	500
	FE169-5-5375-K1394	220	57-72	87	G1	1447	1394	400
191	FE A169-4-04980-K1529	250	66 - 84	84	G1	1582	1529	290
	FE A169-4-05180-K1599	250	65- 83	87	G1	1652	1599	290
	FE A169-5-05300-K1449	250	46 - 56	83	G1	1502	1449	190
	FE A169-5-05405-K1394	250	46 - 58	80	G1	1447	1394	700
	FE A169-5-05420-K1529	250	45 - 58	84	G1	1582	1529	700
	FE A169-4-05460-K1669	250	65 - 81	92	G1	1722	1669	290
	FE A169-5-05830-K1529	220	40 - 56	87	G1	1582	1529	190
214	FEA214-5-6230-K1517	220	79-104	156	G1	1579	1517	700
	FEA214-5-7130-K1717	190	67-94	179	G1	1779	1717	700
	FEA214-6-7000-K1517	190	49-74	158	G1	1770	1517	700

ALPHA系列
ALPHA Series

* including pull out

油缸标牌说明
Label explantion

油缸型号说明
Cylinder model explanation



油缸常见型号
Popular moder

系列 series	型号 Model	额定工作压力 Rated Working Pressure (bar)	举升重量 (ton) Lifting	容积 (升) Volum	油口规格 Oil Port	H* (mm)	K* (mm)	L (mm)
137	FE A137-3-3880-K1635	250	51 - 81	47	G1	1688	1635	190
	FE A137-4-4320-K1365	250	36 - 52	45	G1	1418	1365	190
	FE A137-4-4660-K1450	250	35 - 54	49	G1	1503	1450	190
	FE A137-4-4980-K1530	220	31 - 52	52	G1	1583	1530	190
157	FE A157-4-4320-K1364	250	55- 85	62	G1	1417	1364	290
	FE A157-4-4660-K1484	250	54- 83	67	G1	1537	1484	290
	FE A157-5-5405-K1364	250	35 - 48	68	G1	1417	1364	290
	FE A157-4-5460-K1669	220	46 - 80	78	G1	1722	1669	290
	FE A157-5-5830-K1449	190	27 - 47	73	G1	1502	1449	700
	FE A157-5-6230-K1529	190	26 - 45	78	G1	1582	1529	190
	FE A157-5-6830-K1669	150	20 - 33	86	G1	1722	1669	190
	FE A157-5-7130-K1729	135	18 - 26	90	G1	1782	1729	700
179	FE A179-4-5460-K1677	250	74 - 99	103	G1	1677	1739	290
	FE A179-5-5830-K1457	220	47 - 69	98	G1	1457	1510	190
	FE A179-4-6100-K1877	190	55 - 90	115	G1	1877	1930	290
	FE A179-5-6230-K1537	190	40 - 69	105	G1	1537	1590	190
	FE A179-5-6830-K1677	170	35-57	115	G1	1677	1730	290
	FE A179-5-7030-K1737	170	35-50	119	G1	1737	1790	290
	FE A179-5-7430-K1797	150	31 - 43	125	G1	1797	1850	700

顶端球铰连接和底部铰耳连接的前顶液压举升油缸（FSE）

FRONT TOP HYDRAULIC LIFTING CYLINDER WITH TOP BALL JOINT CONNECTION AND BOTTOM HINGE EAR CONNECTION (FSE)

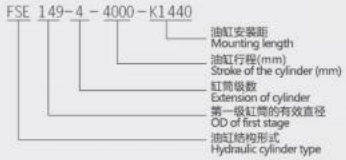
FSE（球铰连接和铰耳连接型前顶液压举升油缸）提供最高的耐用性，保证自卸车最好的自卸性能。重量轻，用油少，因此自卸举升和落降速度更快。FSE（球铰连接和铰耳连接型前顶液压举升油缸）通常用于车厢前板倾斜的自卸车。

The FSE (front top hydraulic lifting cylinder with ball joint connection and hinge ear connection) provides the highest durability and ensures the best dumping performance for dump trucks. It is lightweight, consumes less oil, thus enabling faster lifting and lowering speeds for dumping. FSE (front top hydraulic lifting cylinder with top ball joint connection and bottom hinge ear connection) is typically used for tilting the front board of dump trucks.

* including pull out

油缸标牌说明
Label explantion

油缸型号说明
Cylinder model explanation



油缸常见型号
Popular moder

型号 Model	额定工作压力 Rated Working Pressure (bar)	举升重量 (ton) Lifting	容积（升） Volum	油口规格 Oil Port	H* (mm)	K* (mm)	L (mm)
FSE A129-3-3490-K1549	250	44-61	37	G1	1657	1549	95
FSE A129-4-4320-K1464	250	28-48	39	G1	1572	1464	95
FSE A137-4-3585-K1396	250	35-55	38	G1	1504	1396	95
FSE A137-4-4185-K1496	250	36-52	44	G1	1604	1496	95
FSE A149-4-03585-K1396	250	46-67	46	G1	1504	1396	95
FSE179-5-3172-K1254	250	53-65	53	G1	1344	1254	95

顶端球铰连接和底部铰耳连接且带有销的前顶液压举升油缸（FEE）

FRONT TOP HYDRAULIC LIFTING CYLINDER WITH TOP BALL JOINT CONNECTION, BOTTOM HINGE EAR CONNECTION, AND PIN (FEE)

FEE（两端铰耳型前顶液压举升油缸）采用销轴连接这种安装方法使得油缸的装车方法更简单，并可在高达 250 bar 的工作压力下提供足够的抗偏载能力。标准系列包括第一级直径为 110 mm 至 278 mm、行程为 2400 mm至12500mm的油缸。

FEE (front top hydraulic lifting cylinder with hinge ear connection at both ends) uses the pin shaft connection method, making the cylinder installation simpler and providing sufficient resistance to lateral loads even at working pressures up to 250 bar. The standard series includes cylinders with first-stage diameters ranging from 110 mm to 278 mm and strokes from 2400 mm to 12500 mm.

* including pull out

油缸标牌说明
Label explantion

油缸型号说明
Cylinder model explanation

油缸常见型号
Popular moder

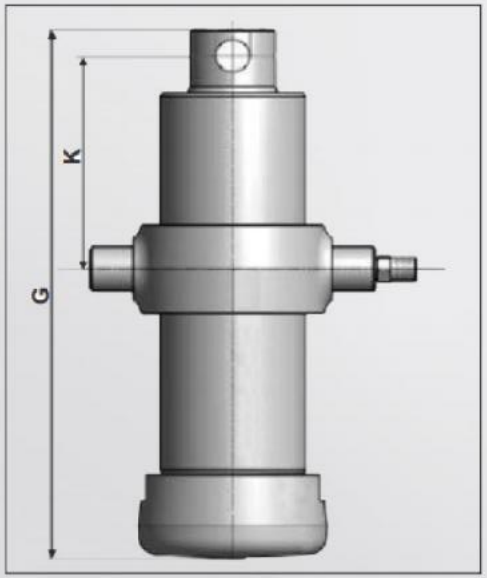
型号 Model	额定工作压力 Rated Working Pressure (bar)	举升重量 (ton) Lifting	容积 (升) Volum	油口规格 Oil Port	H* (mm)	K* (mm)	L (mm)
FEE A149-4-4020-K1375	250	47-57	51	1 "BSP	1428	1375	390
FEE A149-4-4660-K1615	250	46-67	59	1 "BSP	1668	1615	390
FEE A191-5-5830-K1552	250	66-78	114	1"NPT	1605	1552	330
FEE A191-5-6230-K1632	220	57-78	122	1 "BSP	1685	1632	330
FEE A214-5-5830-K1552	220	80-100	146	1"NPT	1552	1614	330
FEE A214-5-6230-K1632	220	79-102	156	1 "BSP	1632	1694	330
FEE A214-5-7130-K1832	190	67-94	179	1 "BSP	1832	1894	330

底部油缸

BOTTOM CYLINDER

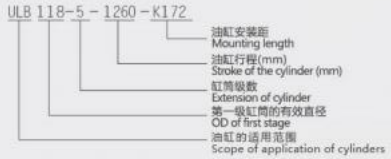
底部油缸以其高强度和耐用性闻名，产品包括UL系列（适用于轻型拖车和货车）、UM系列（适用于中型卡车和拖车）、UB系列（适用于重型卡车和拖车），安装底部油缸可保证高提升以及更灵活的卸载方式。

The bottom cylinder is renowned for its high strength and durability. The product range includes the UL series (suitable for light trailers and trucks), UM series (suitable for medium trucks and trailers), and UB series (suitable for heavy-duty trucks and trailers). Installing bottom cylinders ensures high lifting and more flexible unloading methods.



油缸标牌说明
Label explantion

油缸型号说明
Cylinder model explanation



油缸常见型号
Popular moder

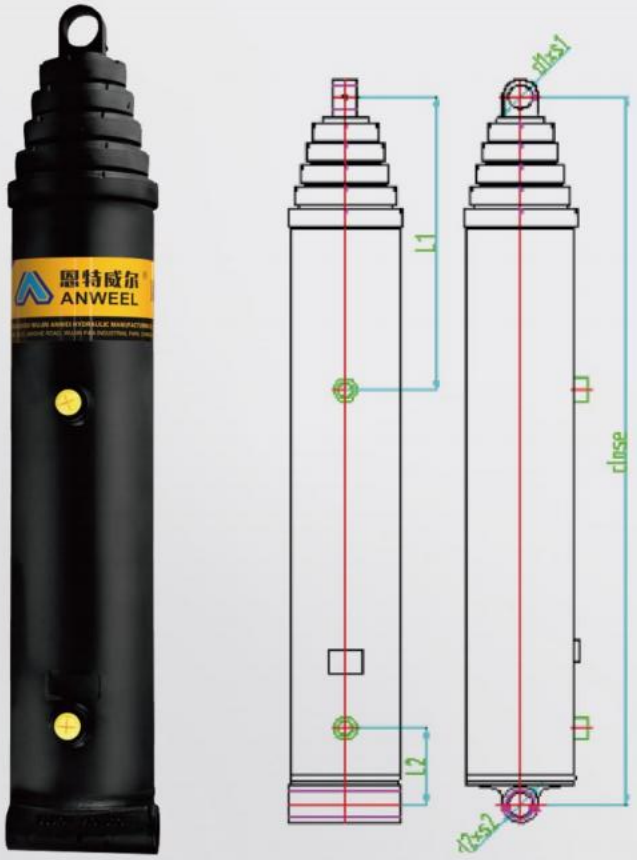
系列 series	型号 Model	额定工作压力 Rated Working Pressure (bar)	举升重量 (ton) Lifting	容积 (升) Volum	油口规格 Oil Port	H* (mm)	K* (mm)	L (mm)
ULB	ULB118-5-1260-K122	160		8	G1/2	446	122	294
	ULB118-2-780-K97	160		6	G3/4	665	97	97
	ULB157-4-1200-K230	160		11	G3/4	575	230	230
	ULB157-5-780-K170	160		11	G1/2	365	170	165
	ULB157-5-3190-K197	160		40	G1/2	882	197	655
	ULB172-5-1500-K200	200		23	G3/4	530	200	200
	ULB214-6-1700-K255	180		39	G1	560	255	130
ULE	ULE129-5-980-K160	220		8	G1/2	408	160	160
	ULE169-5-1540-K258	220		21	G3/4	485	258	258
	ULE169-7-2080-K245	220		25	G3/4	512	245	245

派克油缸

PARKER CYLINDERS

这是一种英制油缸，有单作用油缸和双作用油缸，主要用于卡车及其他液压设备。

These are imperial cylinders, available in single-acting and double-acting types, mainly used for trucks and other hydraulic equipment.



油缸标牌说明
Label explanation

油缸型号说明
cylinder model explanation

油缸常见型号
Popular moder

型号 Model	缸筒级数 Cylinder Stage	一级缸筒直径 Primary Cylinder Diameter (inch)	行程 Stroke (inch)	上耳环 Upper Ear Ring (inch)		下耳环 Lower Ear Ring (inch)		Close (inch)	油口Oil Port			压力 Pressure (Psi)
				d1	s1	d2	S2		L1 (inch)	L2 (inch)		
S53DC-01-68	3	5	68	1.5	1.37	2.25	1.62	35.37	/	12	1 NPT	2000
S53DC-01-84	3	5	84	1.5	1.37	2.25	1.62	41.25	/	12	1 NPT	2000
S63DC-03-120	3	6	120	2	2	2	7.13	53.5	12	7	1 NPT	2000
S73DC-02-120	3	7	120	2	2	2	8.25	44.25	5	7	1 NPT	2000
S74DC-03-156	4	7	156	2	2	2	8.25	53.75	5	7	1 NPT	2000
S74DC-01-167	4	7	167	2	2	2	8.25	56.5	5	7	1 NPT	2000
S74DC-02-180	4	7	180	2	2	2	8.25	61.25	5	7	1 NPT	2000
S84DC-01-235	4	8.125	235	2	2	2	9.5	78.75	11.8	7.75	1 NPT	2000
S85DC-01-190	5	8.125	190	2	2	2	9.5	54.62	6	6.5	1 NPT	2000
S85DC-03-235	5	8.125	235	2	2	2	9.5	64.62	6	6.5	1 NPT	2000
S85DC-01-280	5	8.125	280	2	2	2	9.5	78.5	6	6.5	1 NPT	2000
S95DC-02-220	5	9.375	220	2	2	2	10.88	62.44	6	6.5	1 NPT	2000
S95DC-02-280	5	9.375	280	2	2	2	10.88	78.62	6	6.5	1 NPT	2000

液压支架立柱与千斤顶

HYDRAULIC SUPPORT PILLARS AND JACKS

液压支架是综合机械化工作面的主体设备，它能可靠而有效地支撑和控制工作面顶板，隔离采空区，保持安全的地下作业空间，并实现回采工作面及其相关设备的机械化推移。

液压支架立柱主要分为单伸缩立柱、双伸缩立柱和机械加长杆立柱，它是液压支架主要承载顶板压力的重要部件之一，它是将支架顶梁和底座连接起来的主要部件，是用于液压支架承受顶板载荷和调节支护高度的。立柱是支架的承压部件，它长期处于高压受力状态，除应具有合理的工作阻力和可靠的工作特性外，还必须有足够的抗压、抗弯强度，良好的密封性能。工作可靠，使用寿命长。

液压支架千斤顶产品介绍:液压支架千斤顶是与液压支架、悬移顶梁液压支架配套使用的千斤顶类产品。所需的工作液由胶管、压力控制阀、操纵阀等组成的支架管路系统供给。现批量生产0.35~1.0米行程等规格，还可根据客户需要开发其它缸径、行程的千斤顶产品zm.jt0.49。液压支架千斤顶特点:通过操作片阀实现对支架的推移和回缩的双向运动中,煤，速度快而均匀，密封性能可靠:回缩时不排出液体，使用灵活，管理方便。

Hydraulic support is the main equipment in the comprehensive mechanized working face. It can reliably and effectively support and control the roof of the working face, isolate goaf areas, maintain safe underground working spaces, and realize the mechanized shifting of the mining face and related equipment.

Hydraulic support pillars are mainly divided into single telescopic pillars, double telescopic pillars, and mechanically extended rod pillars. They are important components of hydraulic support that bear the pressure of the roof strata. These pillars connect the support beam and base, and are used to bear the load of the roof and adjust the support height. The pillar is the load-bearing part of the support, which always operates under high pressure. Besides having reasonable working resistance and reliable operating characteristics, it must also possess sufficient compressive and flexural strength, good sealing performance, reliability, and long service life.

Introduction to Hydraulic Support Jacks: Hydraulic support jacks are products used in conjunction with hydraulic supports and suspended roof beam hydraulic supports. The required working fluid is supplied by the support pipeline system composed of hoses, pressure control valves, control valves, etc. Currently, we produce jacks with specifications ranging from 0.35 to 1.0 meters in stroke in batches, and can develop jacks with other cylinder diameters and strokes according to customer needs. The hydraulic support jacks feature bidirectional movement of the support by operating the spool valve, with fast and uniform speed, reliable sealing performance, no liquid discharge during retraction, flexible use, and convenient management.

立柱的主要技术参数
Main Technical Parameters of Pillars

型号 Model	公称承载能力 Nominal Carrying Capacity		缸、柱直径 Cylinder, Column Diameter		高度范围 Height Range (mm)
	工作压力 Working Pressure (MPa)	泵压 Pump Pressure (MPa)	一级缸/二级缸 Primary Cylinder/ Secondary Cylinder (mm)	一级柱/二级柱 Primary Column/ Secondary Column (mm)	
400	5000	31.5	400/290	380/260	1688-3601
320	3350		320/230	290/210	1637-3596
280	2000		280/200	260/185	1535-3220
250	1600		250/180	235/160	1888-4198
230	1454		230/180	220/160	1660-2775

液压支架千斤顶参数
Parameters of Hydraulic Support Jacks

型号 Model	额定压力 Rated Pressure (MPa)	额定推力 Rated Thrust (KN)	额定拉力 Rated Pull Force (KN)	最大长度 Max. Length (mm)	最小长度 Min. Length (mm)	行程 Stroke (mm)	工作液 Working Fluid	重量 Weight (kg)
Φ125	31.5	386.5	265.3	1715	1015	700	5%乳化油+95%中性软水5% Emulsified Oil + 95% Neutral Soft Water	84.6
Φ110		299	178	1570	920	650		49.3
Φ100		247	126	2360	1360	1000		50
				1960	1160	800		45
				1560	960	600		40
Φ80		158	69	1135	1200	850		55
Φ63		98.2	48.1	1905	1105	800		25
				1000	650	350		15

公司成熟产品：
下面所列型号为公司常规商品型号,请客户尽量选择常规商品,可以提高产品交货期、提升服务质量。
Company Mature Products:
The models listed below are the company's regular commodity models. Customers are encouraged to choose regular commodities as much as possible to improve product delivery times and enhance service quality.

选型推荐仅供参考
The selection recommendations are for reference only, and customers need to confirm the specific models with the engineers

具体型号要考虑:
Specific model selection should consider:

1、货物特性(密度,流动性)
2、需要参考后悬长度。
1. Characteristics of the goods (density, flowability);
2. Reference for rear overhang length.

如需了解详细的型号及技术参数
For detailed model and technical parameter information, please consult technical department.

公司其它产品

OTHER PRODUCTS OF THE COMPANY











公司其它产品

OTHER PRODUCTS OF THE COMPANY











应用案例
THE APPLICATION CASE

工程汽车SELF-DUMPING TRUCK









MINING MACHINERY矿山机械



IRRIGATION WORKS水利



SANITATION EQUIPMENTS环卫


自卸车液压系统常见故障分析与排除

DUMP TRUCK HYDRAULIC SYSTEM COMMON FAULT ANALYSIS AND SOLUTIONS

故 障	原 因	解 决 方 法
油缸不举	取力器未结合 没有主气源 油箱底部球阀未打开 气压过低 气路或油管路接错 公母快换接头未连接好	检查取力器是否结合 检查主气源管路是否通畅 打开球阀并检查液压油是否满足 启动发动机，使气压达到7.5公斤以上 检查气路和油管路是否正确连接 拧紧公母快换接头
油缸举升、下降时速度太慢	气压过低 气管有折弯现象 液压油粘度系数太大	启动发动机，使气压达到7.5公斤以上 重新布置气管走向 更换合适的液压油
油缸不能够完全举升	严重超载 油箱内油位线不够 气压过低 限位阀安装位置不正确	人工卸货 补加原型号的液压油 使气压达到7.5公斤以上 重新调整限位阀安装位置
油缸有拔缸现象	限位阀安装位置不正确 车厢举升角度太小，后悬太长 货物为大块状物体，举升角度太小	重新调整限位阀安装位置 车辆重新设计安装 调整举升角度，是行程达到最大角度
油缸缸筒拉伤	偏载 由钢支架间隙超差、油缸安装不垂直 油缸举升时缸筒与其他部件干涉损坏 卸货时路基不平 液压油比较脏 不按要求规范操作	正确装载货物 调整支架间隙 进行重新设计安装 严格按照操作要求操作使用 更换液压油并更换两滤 按照要求规范操作
缸筒不按顺序举升	缸筒变形 （翻车、缸筒受到外力撞击、采用急刹车方式卸货）	更换损坏部件
油缸渗油、漏油	多次偏载 缸筒拉伤 油缸安装位置不符合要求	正确装卸货物、更换密封套件 更换缸筒及密封套件 更换缸筒并重新调整油缸位置
气控阀失灵	气管漏气 气管有折弯现象	更换气管和拧紧接头 重新布置气管走向
油缸不下降	举升阀与气控阀间的气路不通畅 车厢或稳定架变形 举升系统没有主气源	检查整理或更换管路 整改车厢或稳定架 检查主气路
油缸抖动	油缸缺油 取力器损坏 进油管流量变化太大 车厢、副梁等连接装置变形	人工卸货 补加原型号的液压油 使气压达到7.5公斤以上 重新调整限位阀安装位置
油缸空气口溢油	油箱的空气滤芯比较脏 油箱内的油位已经超过液位计 没有按照要求正确操作 油缸边降边开车 液压油型号不对	更换空气滤芯 将油箱内的油放泄少许 请严格正确操作 更换符合要求的液压油

⚠ 注意：当液压系统出现故障时，请及时联系我公司客服人员。
由于客户私自维修导致的任何问题，责任自负！

THE FAULT	REASON	THE SOLUTION
Hydraulic cylinder can not lift up	Power takeoff is OFF No air source Ball valve is not open at the bottom of the tank Air pressure is too low Wrong connection of air or oil tube Wrong connected of male and female couplers	Checking the status of the power takeoff be ON. Checking the air source tube is in good status Open the ball valve, and checking whether the oil can start the engine. Let the air pressure be more than 7.5 Bar Checking the right connections of the air and oil tubes Tighten the male and female couplers
Cylinder lifting and falling speed is too slow	Air pressure is too low Air tube is bending The viscosity coefficient of oil is too heavy	Start the engine, and let the air pressure be more than 7.5 Bar Rearrange air tubes connections Change to the right oil
Oil cylinder will not be able to completely lift	Serious overload Lack of oil Air pressure is too low Limit valve installation position is not correct	Manuel unloading Adding the original models of hydraulic oil Air pressure be more than 7.5Bar To adjust the limit valve installation position
Hydraulic cylinder pulling phenomenon	Limit valve installation position is not correct Container lifting angle is too small, rear suspension is too long Goods for big blocks, lifting Angle is too small	Adjust the limit valve installation position Redesign installation ways Adjust the lifting angle, so that the cylinder can reach max angle
Hydraulic cylinder tube be pulled	Unbalance loading The installation of hydraulic cylinder is not vertical The hydraulic cylinder tube be damaged when lifting The road is uneven when unloading The hydraulic oil is dirty Not operate according to working instructions	Correct loading goods Adjust the bracket installation Redesign the installation Strictly operate according to the working instructions Replace hydraulic oil and filters Strictly operate as requirements
Cylinder is not lifting in sequence	Cylinder tube is deformed (The truck turned overthe cylinder tube be hit by external impact, unloading the goods by sudden stop)	Replace the damaged parts
Oil leakage	Unbalance loading for several times Hydraulic cylinder tube be pulled Oil cylinder installation position is-not in conformity with the requirements	Correct loading and unloading of goods, replace the seal kit Replace the cylinder tube and seal kits Replace the cylinder tube and adjust the cylinder installation
Pneumatic valve failure	Air leakage Air tube is bending	Replace the air tubes and tighten the connectors Rearrange air tubes connections
Hydraulic cylinder can not go down	The compressed air be blocked between lifting valve and control valve The container or stabilizer be deformed No air source for lifting system	Checking and sort out or replace the tubes Correct the container or stabilizer Checking the main air source
Hydraulic cylinder be tremble	Oil cylinder is short of oil Power takeoff be damaged Oil inlet flow rate change is too big The connection parts, such as the container and auxiliary beam are deformed	Manuel unloading Adding the original models of hydraulic oil Air pressure be more than 7.5 Bar To adjust the limit valve installation position
Oil spilling at air port of the cylinder	Air filter of the oil tank is dirty Too much oil in the oil tank Not operate with requirements The hydraulic cylinder goes down when driving With wrong hydraulic oil type	Replace the air filter Less the oil in the oil tank Pls operate strictly according to the requirements Replace to the right oil

⚠ Note: when the hydraulic system failure, please contact our customer service staff. Due to customer to repair any problems, your responsibility!

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