

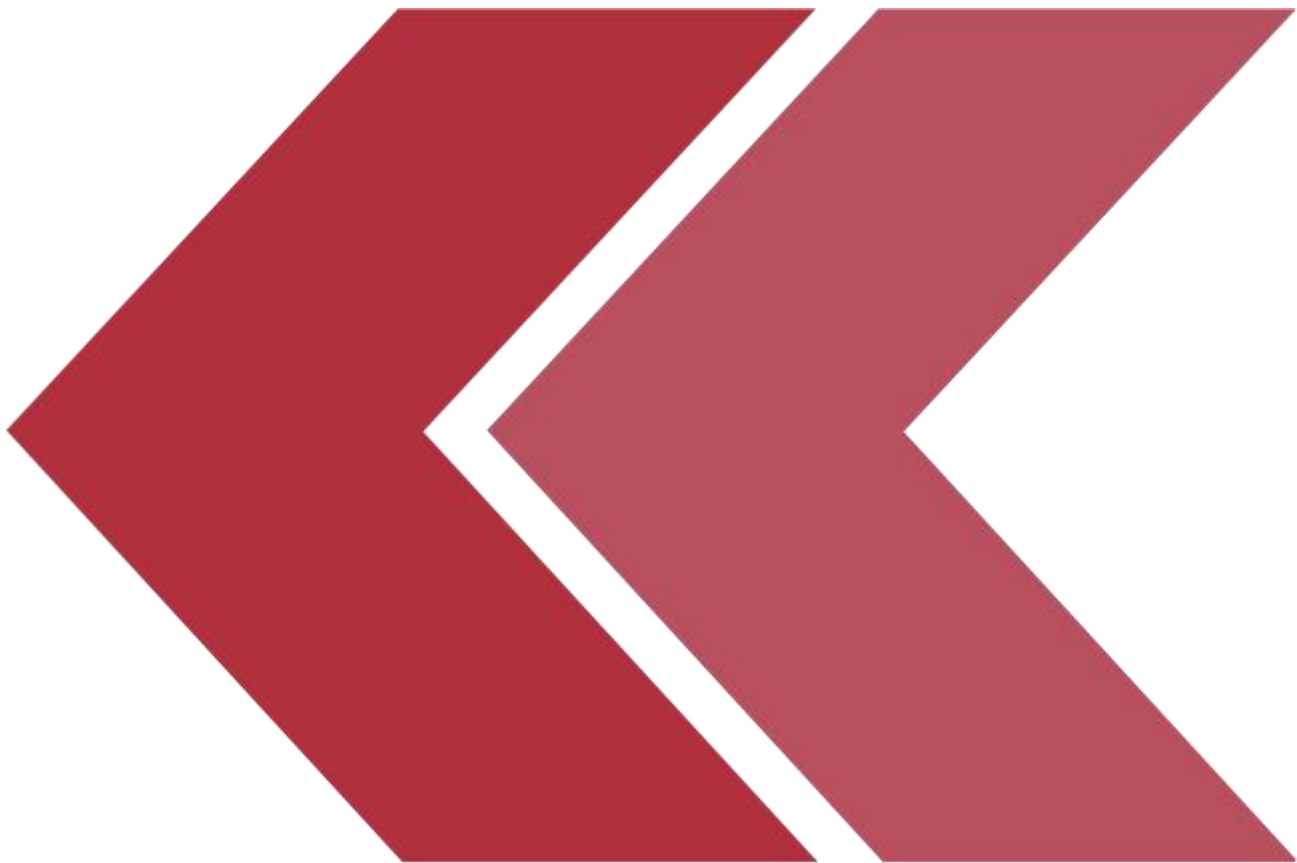


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广州弗兰柯科技有限公司

Guangzhou Frank Technology Co., Ltd



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产品介绍

Product Introduction

产品介绍

弗兰柯拥有丰富的技术服务经验，提供售前技术支持、售中技术设计、售后服务，一直坚持为客户提供高品质品牌液压产品，一直专注于高端液压产品的应用。所提供产品广泛应用于液压挖掘机、起重机、铲运机、铲车、桩机、钻机、混凝土泵车、盾构机等，满足工程机械、农业机械以及特种机械对动力强劲、控制可靠、适应恶劣工作环境的各种需求。

Frank has rich experience in technical services, providing presale technical support, technical design and aftersales service. Has been insisting on providing customers with high quality, Brand hydraulic products, has been focused on the application of highend hydraulic products. The products are widely used in hydraulic excavators, cranes, scrapers, forklifts, pile machines, drilling rigs, concrete pump trucks, shield machines and other engineering machinery. It meets all kinds of requirements of construction machinery, agricultural machinery and special machinery for strong power, reliable control and adapting to harsh working environment.



Product Introduction



K3V 系列液压柱塞泵具有极佳的性能设计，并根据多年经验对功率密度、效率和可靠性进行优化提升。

K5V 系列液压柱塞泵采用新技术使得功率密度、效率、寿命、可靠性进一步优化，并且采用了降噪音的结构设计。

K7V 系列液压柱塞泵全新一代设计，适应更恶劣的工作环境。

K3V Series Hydraulic Pump has optimum function design and is provided with improved density efficiency , and reliability,attained from our many years of experiences.

K5V series hydraulic plunger pump uses new technology to further optimize power density, efficiency,life, reliability, and the application of noise reduction structure design.

K7V series hydraulic pump is designed with a new generation to adapt to even harsher working environments.



液压泵具有优异的性能:

Have Excellent Performance

1.高功率密度

HighPower Denstiy

2.高效率/高自吸能力

High Efficiency and Large Self

-Priming Capability

3.长寿命/高可靠性

Long Life And High Reliability

4.低噪音

Low Noise

5.丰富的控制方式

Wide range Of Controls

斜盘式轴向柱塞泵

Swash Plate Type Axial Piston Pumps

		S	SH	DT	DTP	DTH
排量 Displacement						
		单泵 Single	单泵+自吸泵 Single Pump +Centrifugal Pump	串联双泵 Tandem Pump	串联双泵 +PTO Tandem+PTO	串联双泵+自 吸泵 Tandem Pump + centrifugal pump
K3V SERIES	63	○	×	○	○	×
	112	○	×	○	○	×
	140	○	×	○	○	○
	180	○	○	○	○	○
	280	×	○	○	×	○
K5V SERIES	80	○	×	○	○	×
	140	○	×	○	○	×
	160	○	○	○	○	○
	200	○	○	○	○	○

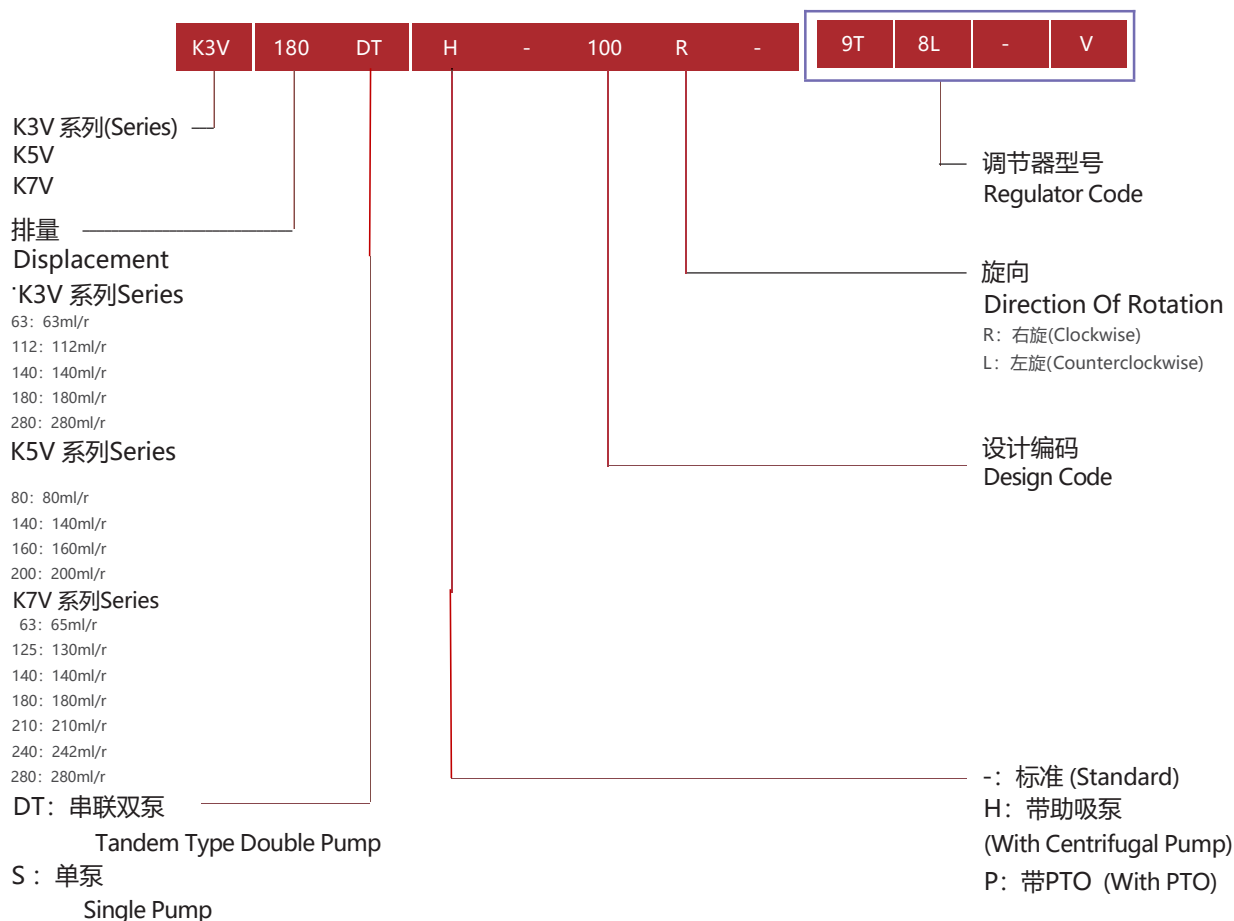


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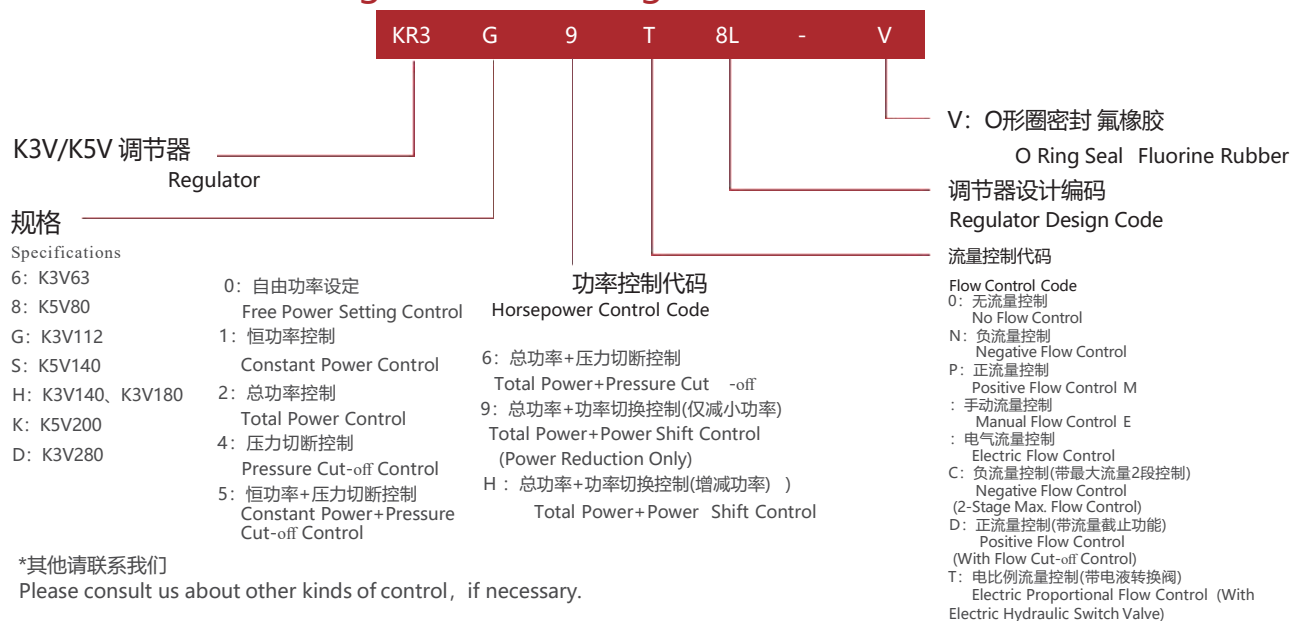
K3V/K5V/K7V系列斜盘式轴向柱塞泵

K3V/K5V/K7V SERIES SWASH PLATE TYPE AXIAL PISTON PUMP

泵型号代码/Pump Ordering Code



调节器型号代码 / Regulator Ordering Code



K3V/K5V系列斜盘式轴向柱塞泵

K3V/K5V SERIES SWASH PLATE TYPE AXIAL PISTON PUMP

常用控制方式/CONTROL TYPE

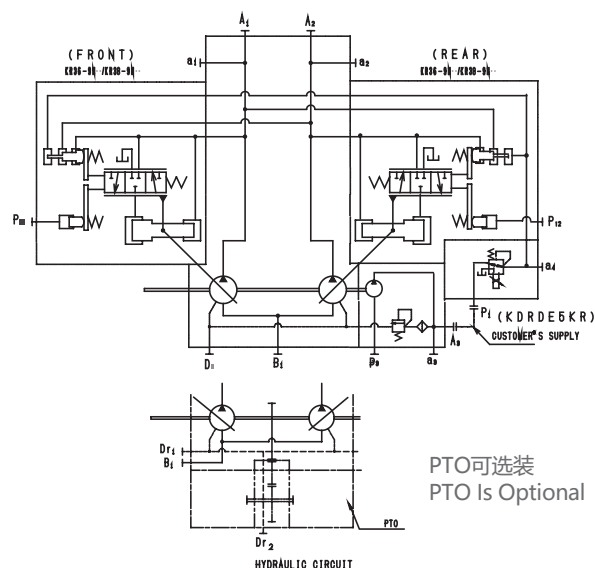
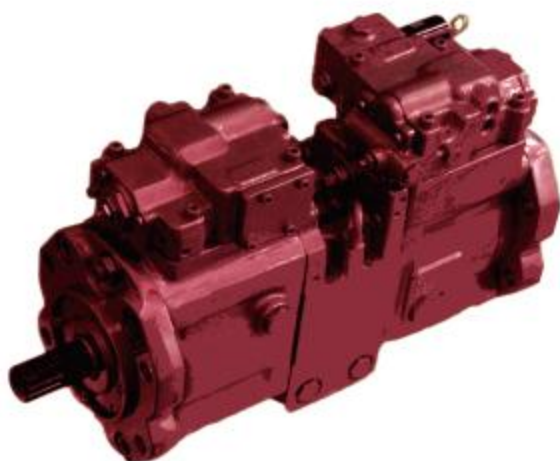
控制代码 Code No.	控制型式 Control Type	原理图 Circuit Diagram	外观示例 Sample picture
9 N	负流量+总功率控制+功率可变控制 Negative Flow Control + Total Horsepower Control + Variable Horsepower Control		
9C	负流量+总功率控制+最大流量 2段控制+功率可变控制 Negative Flow Control + Total Horsepower Control + Two-Stage Max. Flow Control + Variable Horsepower Control		
H N	负流量+总功率控制+功率可变控制 Negative Flow Control + Total Horsepower Control + Variable Horsepower Control		
9T	电比例排量控制+总功率控制+ 功率可变控制+机械式电液转换阀 Electric Flow Control + Total Horsepower Control + Variable Horsepower Control + Mechanical Electric- Hydraulic-Control switch valve		
YT	电比例排量控制+功率可变 控制+自动电液转换阀 Electric Flow Control + Variable Horsepower Control + Automatic Mechanical Electric - hydraulic Control switch valve		
0 E	电比例流量控制+功率自由设定 Electric Flow Control + Free Power Setting Control		



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K3V63/K5V80串联双泵

K3V63/K5V80 TANDEM PUMP



注：样本仅示例9N控制方式的K3V63/K5V80泵。
Note: the sample is only the K3V63/K5V80 pump in the example 9N control mode.

产品简介/INTRODUCTION

K3V63/K5V80串联双泵具有多种控制方式可选。K3V63/K5V80适用于13-15吨级液压力式挖掘机，并可以加装PTO传动箱。它们也适用于及其他各类开式液压回路，如混凝土设备、钻机等。

K3V63/K5V80 series tandem pump has a variety of control modes.K3V63/K5V80 pumps applied to 13-15ton hydraulic excavator and can with the attached PTO box.They also apply to kinds of hydraulic opencircuit equipment, such as concrete equipment,drilling machine etc..

性能参数 / SPECIFICATIONS

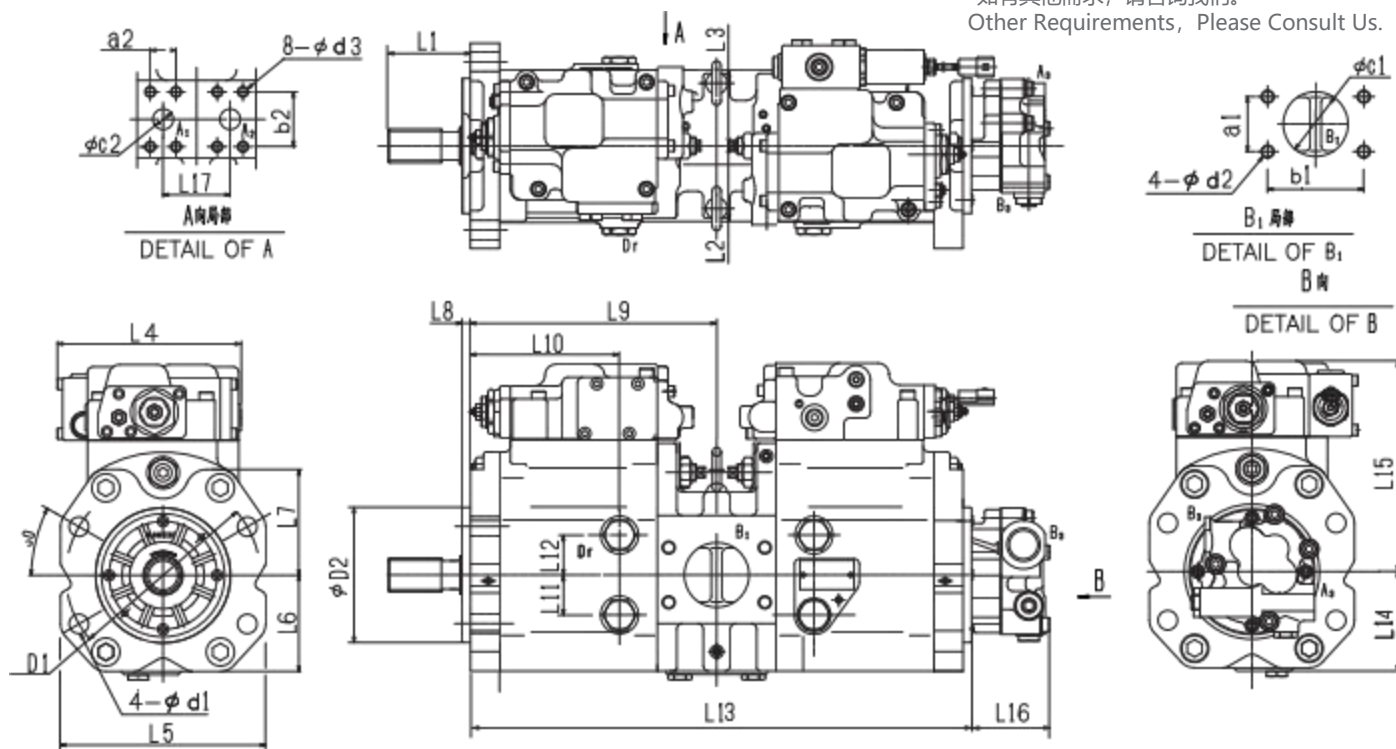
型号 TYPE		K3V63/K5V80
排量 Displacement(mL/r)		63/80
转速范围 Speed Range (min/r)	最高 Max.	3250/3000
	自吸最高 Max. Self Priming	2650/2460
压力 Pressure (MPa)	额定 Rated	34.3
	最高 Peak	39.2
最大输入扭矩Max. Input Torque (N . m)		343/529
PTO最大输入扭矩 Max. Input Torque of PTO(N.m)		125

K3V63/K5V80串联双 泵

K3V63/K5V80 TANDEM PUMP

K3V63、K5V80DT泵结构图/structure

*如有其他需求，请咨询我们。
Other Requirements, Please Consult Us.



尺寸代号 DIMENSION CODE	D1	D2	d1	L1	L2	L3	L4	L5	L6	L7
尺寸 DIMENSION	180	125	18	76	70	70	165	190	89	125
尺寸代号 DIMENSION CODE	L8	L9	L10	L11	L12	L13	L14	L15	L16	L17
尺寸 DIMENSION	8	228	138	37	37	464	92	195	80	62
尺寸代号 DIMENSION CODE	a1	b1	c1	d2	a2	b2	c2	d3	-	-
尺寸 DIMENSION	88.9	50.8	60	M12-18	23.8	50.8	19	M10-16	-	-
输入轴 SHAFT END	型号 Type	齿数 No. of Teeth	分度圆直径 Pitch Circle Dia	压力角 Pressure Angle	模数 Module	标准 Rule				
	K3V63	14	φ29.6	30°	12/24	SAE				
	K5V80	12	φ30	20°	2.5	JIS				



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K3V63/K5V80串联双 泵

K3V63/K5V80 TANDEM PUMP

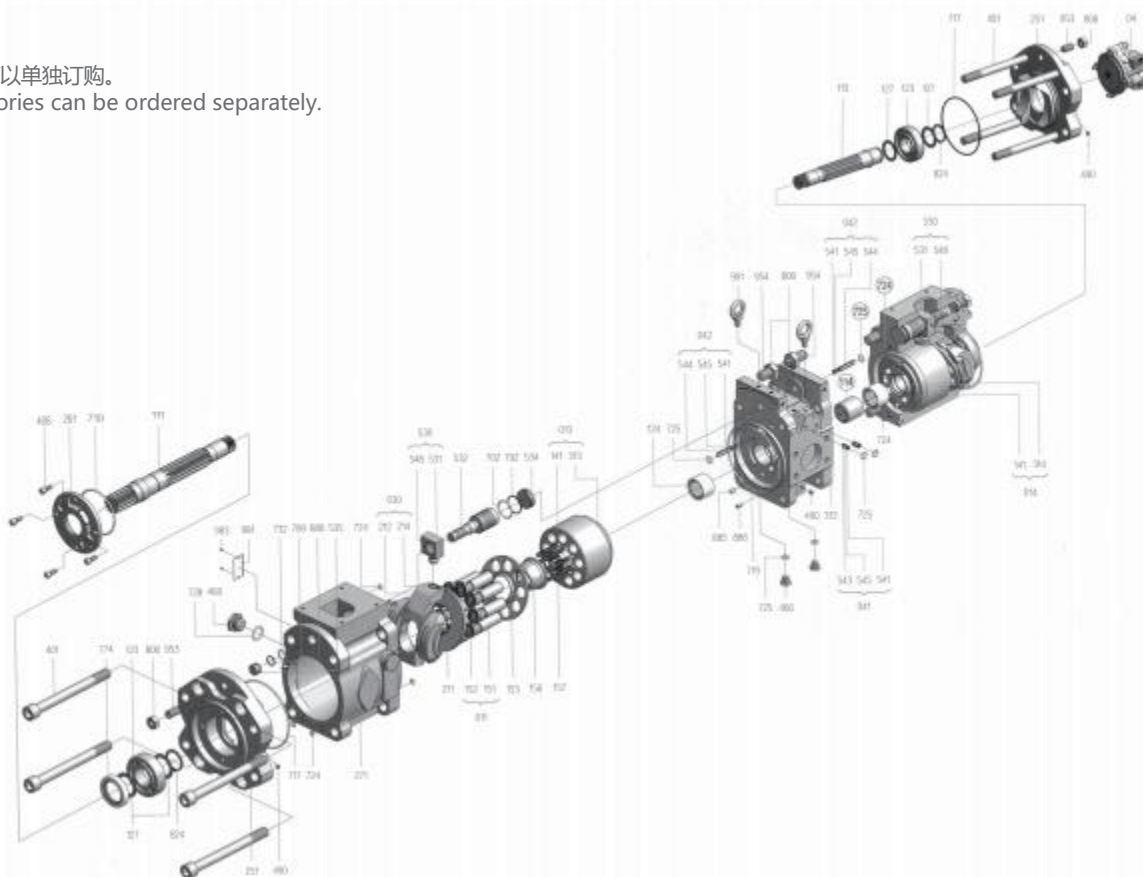
K3V63、K5V80DT泵体配件表/PARTS

No.	Part Name	Part Number	Q'ty/set	Remarks
111	DRIVE SHAFT(F)	2943800426	1	K3V63
	DRIVE SHAFT(F)	2924250-0486	1	K5V80
	DRIVE SHAFT(R)	2933800889	1	K3V63
113	DRIVE SHAFT(R)	2924250-0487	1	K5V80
114	SPLINE COUPLING	29538 01628	1	
123	ROLLER BEARIKIG	PNUP307R-1	2	
	NEED LE BEARIKIG	PAJ502809B	2	K3V63
124	NEED LE BEARIKIG	PAJ502601	2	K5V80
127	BEARING SPACER	38600-127A	4	
	SET PLATE	2943800424	2	K3V63
	SET PLATE	2924110-0 009	2	K5V80
156	SPHERICAL BUSH	2924610 -0029	2	
157	CYUNDER SPRING	2953801623	18	
211	SHOE PLATE	2953801742	2	
212	SWASH PLATE	2933800732	2	
214	TLLTIKIG BUSH	P1 R15 2012	2	
251	SUPPORT	2923800752	2	
	SEAL COVER(F)	2943800470	1	K3V63
	SEAL COVER(F)	2926210-0019	1	K5V80
271	PUMP CASIKIG	2923250-0359	2	
312	VALVE BLOCK	2923800797	1	
401	SOCKET BOLT	2953801630	8	
406	SOCKET BOLT	OSBM616	4	
466	VP PLUG	OVP14	2	
467	VP PLUG	OVP12	4	
490	PLUG	PBP116 -2403	15	
	TLLTIKIG PIN ASS'Y	2953801787	2	K3V63
	TLLTIKIG PIN ASS'Y	29-0019A	2	K5V80
532	SERVO PISTON	2924490-0030	2	

No	Part Name	Part Number	Q'ty/set	Remarks
534	STOPPER(L)	2925110-0057	2	K3V63
	STOPPER(L)	2953801631	2	K5V80
535	STOPPER(S)	2953801632	2	
702	O-RING	OORBG30W	2	
710	O-RING	OORBG85	1	
717	O-RING	OORBG120	2	
719	O-RING	OORBG115	2	
724	O-RING	OORBP8	18	
725	O-RING	OORBP11	2	
732	O-RING	OORBP16W	2	
	OIL SEAL	PMP035F15	1	K3V63
774	OIL SEAL	PMP040F9	1	K5V80
789	BACK UP RING	OT2BP16	2	
792	BACK UP RING	OT2BG30	2	
808	NUT	ORNM16	4	
824	SNAP RIKIG	OSR35	2	
885	PIN	PJR612	2	
886	SPRING PIN	OSPV614	4	
901	EYE BOLT	OEBM10	2	
953	SET—SCREW	PSSSM1630	1	
954	ADJUST SCREW	2953801634	2	
981	NAME PLATE	PNPF-2591	1	
983	PIN	OSK2548	1	
011	PISTON ASS'Y	2924530-0454	2ST	
013	CYLINDER ASS' Y(R)	2953802828	1ST	
014	CYLINDER ASS' Y(L)	2953802827	1ST	
04	GEAR PUMP	*	1ST	
08	REGULATOR	*	2ST	

*配件可以单独订购。

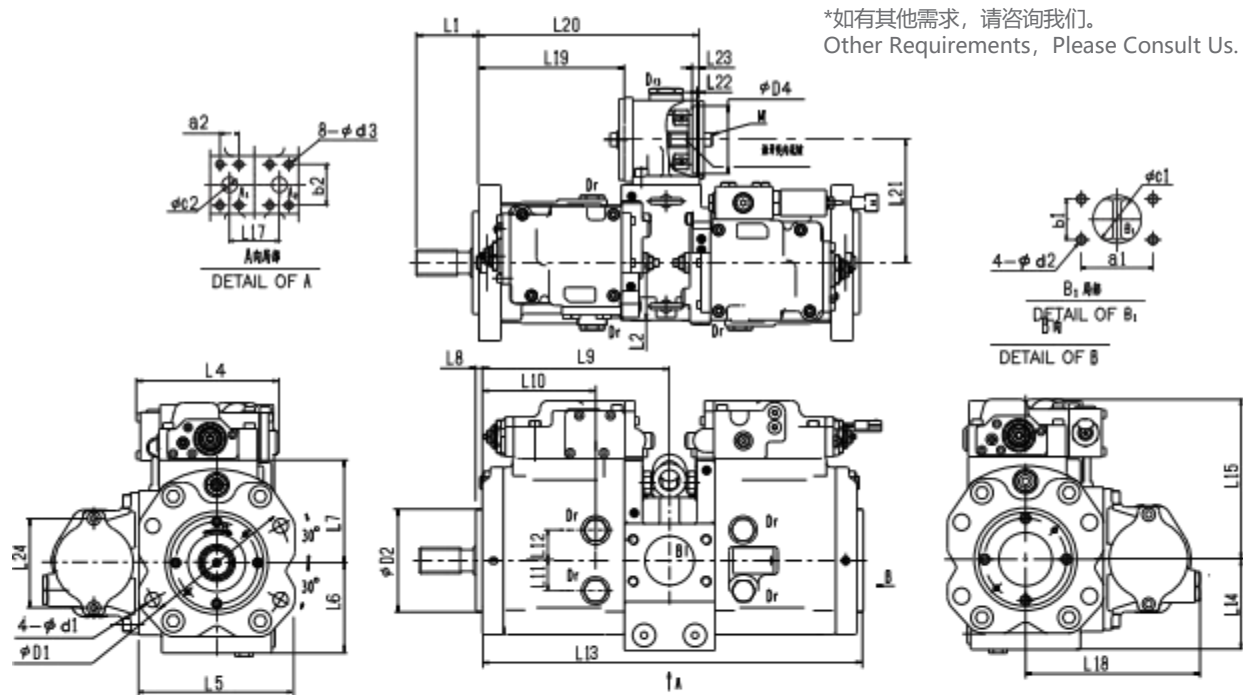
Accessories can be ordered separately.



K3V63/K5V80串联双 泵

K3V63/K5V80 TANDEM PUMP

K3V63、K5V80DTP泵结构图/STRUCTURE



尺寸代号 DIMENSION CODE		D1	D2	D4	d1	L1	L2	L3	L4	L5	L6
尺寸DIMENSION		180	125	82.55	18	76	70	70	165	190	89
尺寸代号 DIMENSION CODE		L7	L8	L9	L10	L11	L12	L13	L14	L15	L16
尺寸DIMENSION		125	8	228	138	37	37	464	92	195	-
尺寸代号 DIMENSION CODE		L17	L18	L19	L20	L21	L22	L23	L24	M	-
尺寸DIMENSION		62	213	177	268	150	2.4	8	106	M12-18	-
尺寸代号 DIMENSION CODE		a1	b1	c1	d2	a2	b2	c2	d3	-	-
尺寸 DIMENSION		88.9	50.8	60	M 12- 18	23.8	50.8	19	M10- 16	-	-
输入轴 SHAFT END	型号 Type	齿数 No. of Teeth		分度圆直径 Pitch Circle Dia		压力角 Pressure Angle		模数 Module		标准 Rule	
	K3V63	14		φ29.6		30°		12/24		SAE	
	K5V80	12		φ30		20°		2.5		JIS	
PTO		齿数 No. of Teeth		分度圆直径 Pitch Circle Dia		压力角 Pressure Angle		模数 Module		标准 Rule	
		10		φ15.875		30°		16/32		SAE	
		13		φ20.638		30°		16/32		SAE	



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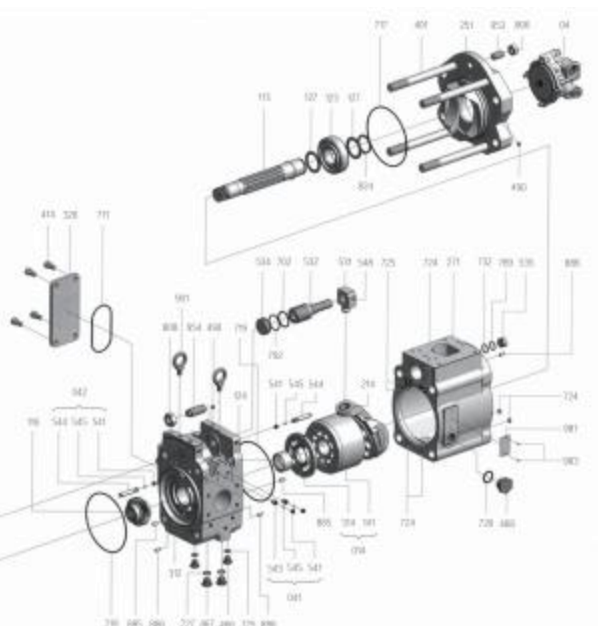
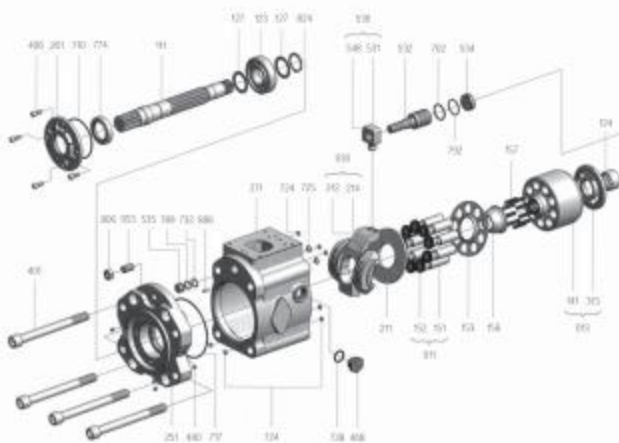
K3V63/K5V80串联双 泵

K3V63/K5V80 TANDEM PUMP

K3V63、K5V80DTP泵体配件表/PARTS

No.	Part Name	Part Number	Q'ty/set	Remarks
111	DRIVE SHAFT(F)	2943800426	1	K3V63
	DRIVE SHAFT(F)	2924250-0486	1	K5V80
113	DRIVE SHAFT(R)	2933800889	1	K3V63
	DRIVE SHAFT(R)	2924250-0487	1	K5V80
116	N01.GEAR	2903190-0082	1	
123	ROLLER BEARIKIG	PNUP307R-1	2	
124	NEED LE BEARIKIG	PAJ502809B	2	K3V63
	NEED LE BEARIKIG	PAJ502601	2	K5V80
127	BEARING SPACER	38600-127A	4	
153	SET PLATE	2943800424	2	K3V63
	SET PLATE	2924110-0009	2	K5V80
156	SPHERICAL BUSH	2924610-0029	2	
157	CYUNDER SPRING	2953801623	18	
211	SHOE PLATE	2953801742	2	
212	SWASH PLATE	2933800732	2	
214	TLLTIKIG BUSH	P1 R15 2012	2	
251	SUPPORT	2923800752	2	
261	SEAL COVER(F)	2943800470	1	K3V63
	SEAL COVER(F)	2926210-0019	1	K5V80
262	SEAL COVER(R)	2943800471	1	
271	PUMP CASIKIG	2923250-0359	2	

No.	Part Name	Part Number	Q'ty/set	Remarks
312	VALVE BLOCK	2923370-0063	1	
401	SOCKET BOLT	2953801630	8	
406	SOCKET BOLT	OSBM616	8	
466	VP PLUG	OVP14	2	
468	VP PLUG	OVP 38	2	
490	PLUG	PBP116-2403	18	
530	TLLTIKIG PI(N) ASS'Y	2953801787	2	K3V63
	TLLTIKIG PI(N) ASS'Y	29-0019A	2	K5V80
532	SERVO PISTON	2924490-0030	2	



*配件可以单独订购。
Accessories can be ordered separately.

No.	Part Name	Part Number	Q'ty/set	Remarks
702	O-RING	OORBG30W	2	
710	O-RING	OORBG85	2	
711	O-RING	OORBG95	1	
717	O-RING	OORBG120	2	
719	O-RING	OORBG115	2	
724	O-RING	OORBP8	18	
725	O-RING	OORBP11	2	
727	O-RING	OORBP14	2	
728	O-RING	OORBP18	4	
732	O-RING	OORBP16W	2	
774	OIL SEAL	PMP035F15	1	K3V63
	OIL SEAL	PTC240MV	1	K5V80

No.	Part Name	Part Number	Q'ty/set	Remarks
534	STOPPER(L)	2925110-0057	2	K3V63
	STOPPER(L)	2953801631	2	K5V80
535	STOPPER(S)	2953801632	2	
789	BACK UP RING	OT2BP16	2	
792	BACK UP RING	OT2BG30	2	
808	NUT	ORNM16	4	
824	SNAP RIKIG	OSR35	2	
885	PIN	PJR612	2	
886	SPRING PIN	OSP614	4	
901	EYE BOLT	OEBM10	2	
953	SET—SCREW	PSSSM1630	1	
954	ADJUST SCREW	2953801634	2	
981	NAME PLATE	PNPF-2591	1	
983	PIN	OSK2548	1	
011	PISTON ASS'Y	2924530-0454	2ST	
013	CYLINDER ASS' Y(R)	2953802828	1ST	
014	CYLINDER ASS' Y (L)	2953802827	1ST	
04	GEAR PUMP	*	1ST	
08	REGULATOR	*	2ST	



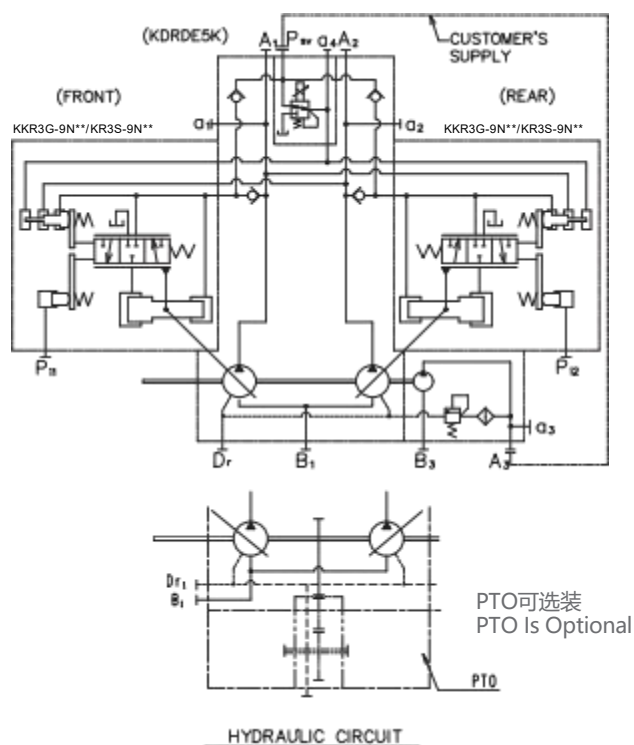
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K3V112/K5V140串联双泵

K3V112/K5V140 TANDEM PUMP



注：样本仅示例9N控制方式的K3V112/K5V140泵。
Note: the sample is only the K3V112/K5V140 pump in the example 9N control mode.



产品简介/INTRODUCTION

K3V112/K5V140串联双泵具有多种控制方式可选，可以加装PTO传动箱，K3V112适用于20-25吨级液压式挖掘机，K5V140适用于27-33吨级液压式挖掘机，它们也适用于其他各类开式液压回路，如混凝土设备、钻机等。

K3V112/K5V140 series tandem pump has a variety of control modes, the PTO box can connect pilot pump or other auxiliary pump. K3V112 applied to 20-25T hydraulic excavator, K5V140 applied to 27-33T hydraulic excavator. They also apply to kinds of hydraulic open-circuit equipment, such as concrete equipment, drilling machine etc..

性能参数 / SPECIFICATIONS

型号TYPE		K3V112/K5V140
排量Displacement (mL/r)		112/140
转速范围 Speed Range (min/r)	最高 Max.	2700/2500
	自吸最高 Max. Self Priming	2360/2160
压力 Pressure (MPa)	额定 Rated	34.3
	最高 Peak	39.2
最大输入扭矩 Max. Input Torque (N.m)		588/843
PTO 最大输入扭矩 Max. Input Torque of PTO (N.m)		125

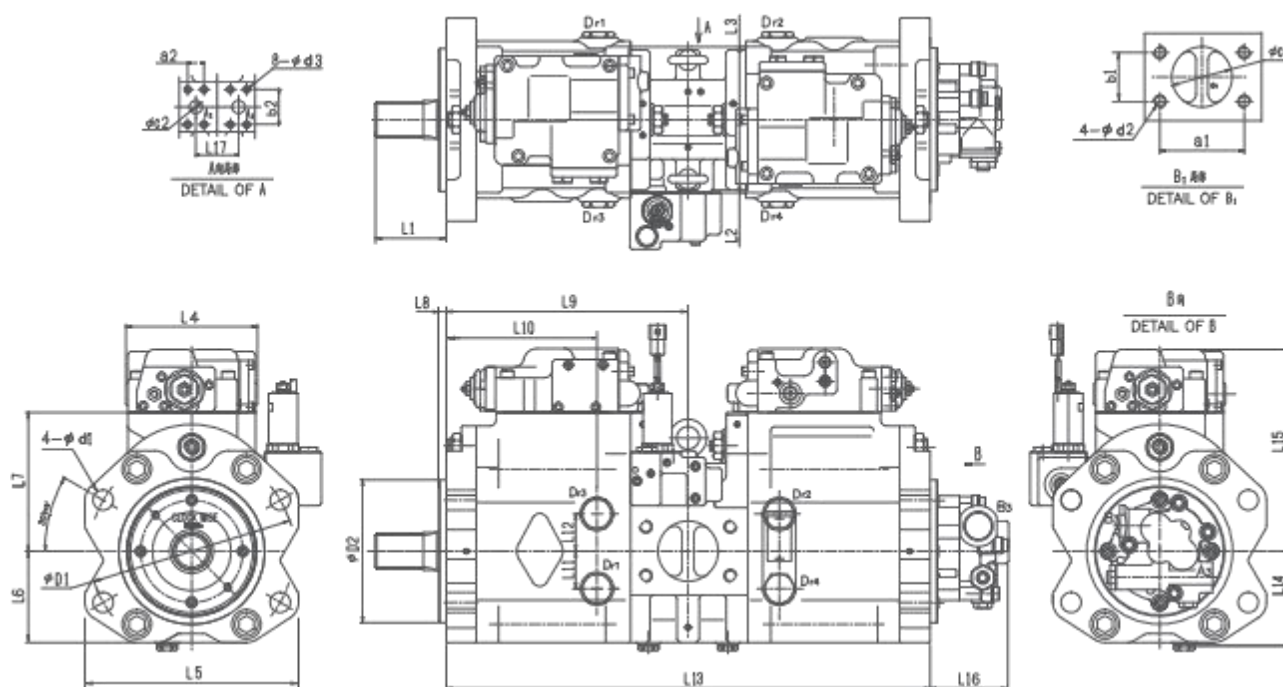


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K3V112/K5V140串联双 泵

K3V112/K5V140 TANDEM PUMP

K3V112、K5V140DT泵结构图/STRUCTURE



*如有其他需求，请咨询我们。
Other Requirements, Please Consult Us.

尺寸代号 DIMENSION CODE	D1	D2	d1	L1	L2	L3	L4	L5	L6	L7
尺寸 DIMENSION	224	160	22	78	80	80	142	234	100	150
尺寸代号 DIMENSION CODE	L8	L9	L10	L11	L12	L13	L14	L15	L16	L17
尺寸 DIMENSION	8	265	167	41	41	538	104	220	86	62
尺寸代号 DIMENSION CODE	a1	b1	c1	d2	a2	b2	c2	d3	-	-
尺寸 DIMENSION	88.9	50.8	60	M12-18	23.8	50.8	19	M10-16	-	-
输入轴 SHAFT END	型号 Type	齿数 No. of Teeth	分度圆直径 Pitch Circle Dia		压力角 Pressure Angle		模数 Module		标准 Rule	
	K3V112	12/14	$\phi 35 / \phi 30$		20°		2.5		JIS	
	K5V140	17	$\phi 42.5$		20°		2.5		JIS	

K3V112/K5V140串联双 泵

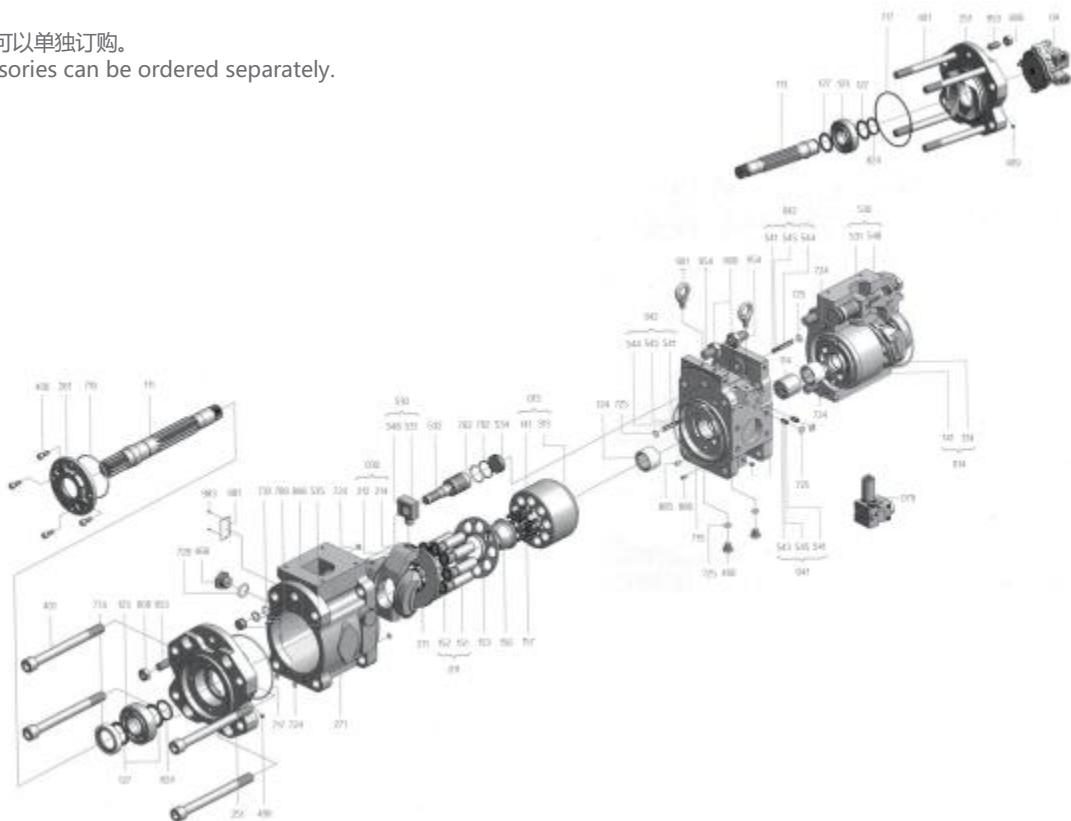
K3V112/K5V140 TANDEM PUMP

K3V112DT泵体配件表/PARTS

No	Part Name	Part Number	Q'ty/set	Remarks	No.	Part Name	Part Number	Q'ty/set	Remarks
111	DRIVE SHAFT(F)	2933800774	1		534	STOPPER(L)	2925110- 318	2	
	DRIVE SHAFT(F)	2933800982	1	φ45	535	STOPPER(S)	295380 1762	2	
113	DRIVE SHAFT(R)	2933800883	1		702	O-RING	OORBG3 5W	2	
114	SPLINE COUPLING	2953801763	1		710	O-RING	OORBG 94	1	
123	ROLLER BEARIKIG	PNUP308R1CS5K	2		717	O-RING	OORBG1 45	2	
124	NEED LE BEARIKIG	PAJ503518	2		724	O-RING	OORBP8	16	
127	BEARING SPACER	3880 0-127A	4		725	O-RING	OORBP11	4	
153	SET PLATE	29241100-056	2		732	O-RING	OORBP1 8W	2	
156	SPHERICAL BUSH	2924610-0030	2		774	OIL SEAL	PTCV40DLV	1	
157	CYUNDER SPRING	29538 01769	18			OIL SEAL	PTCV4 5DLV	1	φ 45
211	SHOE PLATE	68710-00-211	2		789	BACK UP RING	OT2BP1 8	2	
212	SWASH PLATE	2933800813	2		792	BACK UP RING	OT2BG35	2	
214	TLLTIKIG BUSH	P1R2025125	2		806	NUT	ORNM16	2	
251	SUPPORT	2923800809	2		808	NUT	ORNM 20	2	
261	SEAL COVER(F)	2943800464	1		824	SNAP RIKIG	OSR 40	2	
271	PUMP CASIKIG	2923250-0338	2		885	VALVE PLATE PIN	PJR812	2	
312	VALVE BLOCK	29238 010 21	1		886	SPRING PIN	OSP614	4	
325	VALVE CASING	2923230-0012	1		901	EYE BOLT	OEBM10	2	
	VALVE CASING	2923230-0032	1		953	SET—SCREW	PSSSM1630	2	
	VALVE CASING	2933800944	1		954	ADJUST SCREW	2953801768	2	
	VALVE CASING	2933800928	1		981	NAME PLATE	PNPF-2591	1	
401	SOCKET BOLT	2953801767	8		983	PIN	OSK2548	2	
406	SOCKET BOLT	OSBM820	4		530	TILTING PINASS'Y	2953801989	2	
466	VP PLUG	OVP14	2		011	PISTON ASS'Y	3853802464	2ST	
467	VP PLUG	OVP34	4		013	CYLINDER ASS' Y(R)	2921190-0324	1ST	
490	PLUG	PBP116 -2403	21		014	CYLINDER ASS' Y(L)	2921190-0325	1ST	
532	SERVO PISTON	2924490-0050	2		041	CHEK VALVE ASS'Y	2953802048	2	
					042	CHEK VALVE ASS'Y	2953802049	2	
					04	GEAR PUMP	*	1ST	
					08	REGULATOR	*	2ST	
					079	EPRRVALVE ASSY	*	1ST	

*配件可以单独订购。

Accessories can be ordered separately.



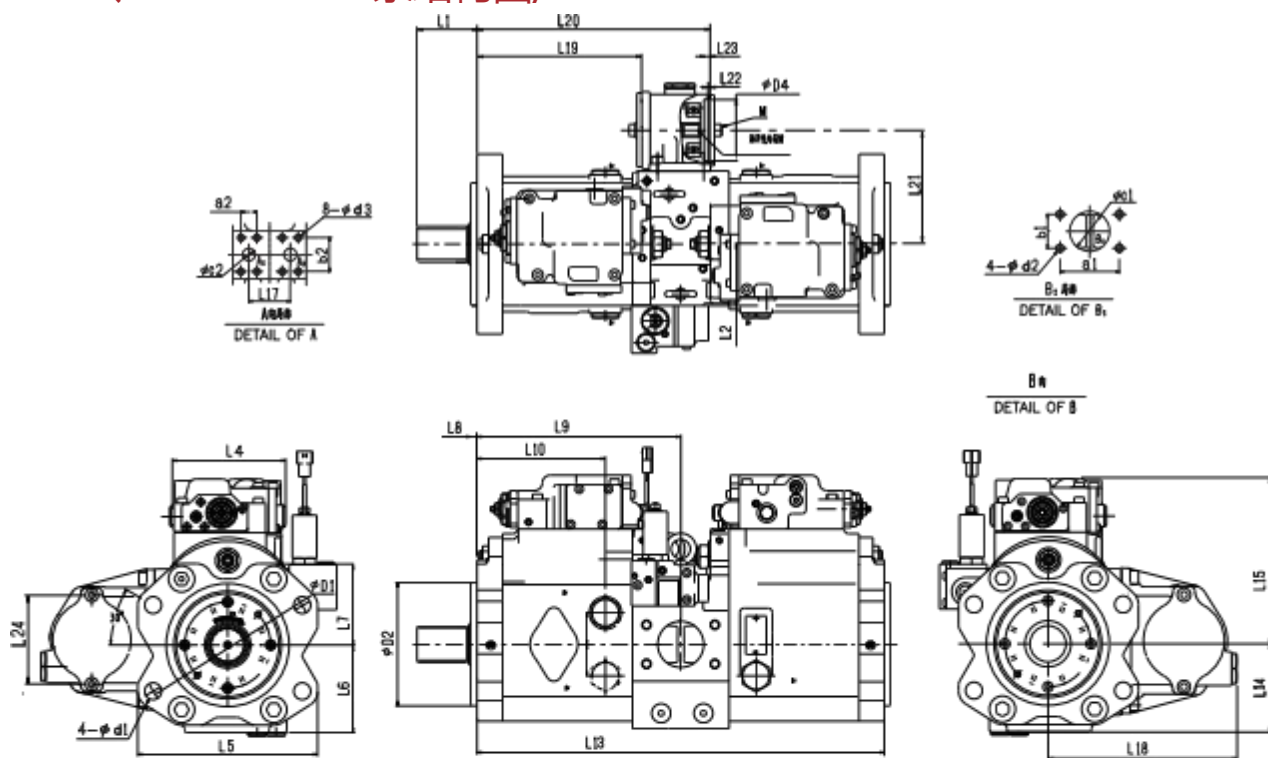


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K3V112/K5V140串联双 泵

K3V112/K5V140 TANDEM PUMP

K3V112、K5V140DTP泵结构图/STRUCTURE



*如有其他需求，请咨询我们。
Other Requirements, Please Consult Us.

尺寸代号 DIMENSION CODE	D1	D2	D4	d1	L1	L2	L3	L4	L5	L6
尺寸DIMENSION	224	160	82.55	22	78	80	80	142	234	100
尺寸代号 DIMENSION CODE	L7	L8	L9	L10	L11	L12	L13	L14	L15	L16
尺寸DIMENSION	175	8	265	167	41	41	538	110	245	-
尺寸代号 DIMENSION CODE	L17	L18	L19	L20	L21	L22	L23	L24	M	-
尺寸DIMENSION	62	213	214	305	150	2.4	8	106	M12-18	-
尺寸代号 DIMENSION CODE	a1	b1	c1	d2	a2	b2	c2	d3	-	-
尺寸DIMENSION	88.9	50.8	60	M12-18	23.8	50.8	19	M10-16	-	-
输入轴 SHAFT END	型号 Type	齿数 No. of Teeth		分度圆直径 Pitch Circle Dia		压力角 Pressure Angle		模数 Module		标准 Rule
	K3V112	14	φ35	20°	2.5	JIS	14	φ35	20°	2.5 JIS
	K5V140	17	φ42.5	20°	2.5	JIS	17	φ42.5	20°	2.5 JIS
PTO	齿数 No. of Teeth		分度圆直径 Pitch Circle Dia		压力角 Pressure Angle		模数 Module		标准 Rule	
	10		φ 15.875		30°		16/32		SAE	
	13		φ 20.638		30°		16/32		SAE	

K3V112/K5V140串联双 泵

K3V112/K5V140 TANDEM PUMP

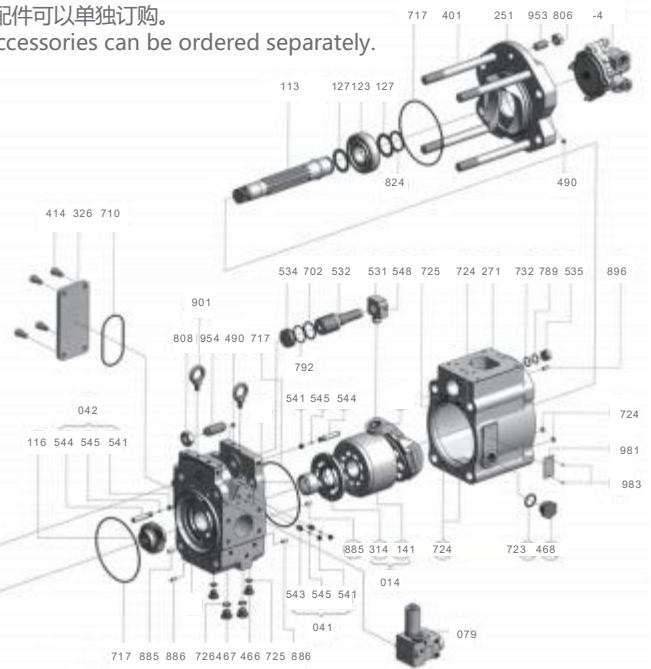
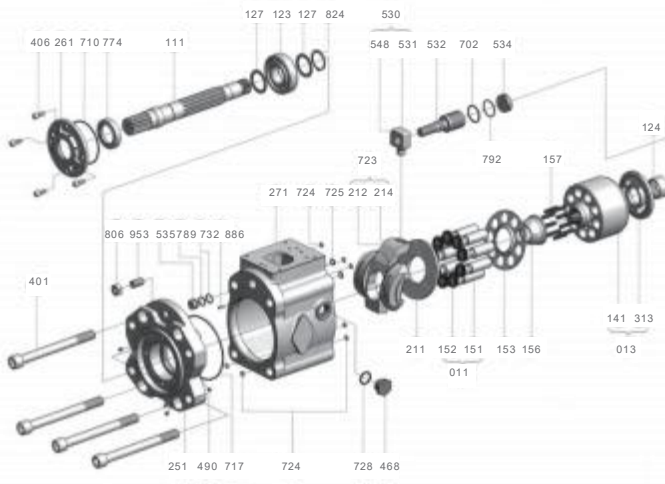
K3V112、K5V140DTP泵体配件表/PARTS

No.	Part Name	Part Number	Q'ty/set	Remarks
111	DRIVE SHAFT(F)	2933800774	1	
	DRIVE SHAFT(F)	2933800982	1	φ45
113	DRIVE SHAFT(R)	2933800883	1	
114	SPLINE COUP LING	2953801763	1	
123	ROLLER BEARIKIG	PNUP308R 1CS5K	2	
124	NEED LE BEARIKIG	PAJ503518	2	
127	BEARING SPACER	3880 0-127A	4	
153	SET PLATE	29241100 -056	2	
156	SPHERICAL BUSH	2924610-0030	2	
157	CYUNDER SPRING	29538 01769	18	
211	SHOE PLATE	68710-00-21 1	2	
212	SWASH PLATE	2933800813	2	
214	TLLTIKIG BUSH	P1R2025125	2	
251	SUPPORT	2923800809	2	
261	SEAL COVER(F)	2943800464	1	
271	PUMP CASIKIG	2923250-0338	2	
312	VALVE BLOCK	29238 010 21	1	
325	VALVE CASING	2923230-0012	1	
	VALVE CASING	2923230-0032	1	
	VALVE CASING	2933800944	1	
	VALVE CASING	2933800928	1	
401	SOCKET BOLT	2953801767	8	
406	SOCKET BOLT	OSBM820	4	
466	VP PLUG	OVP14	2	
467	VP PLUG	OVP34	4	
490	PLUG	PBP116 -2403	21	
532	SERVO PISTON	2924490-00 50	2	

No	Part Name	Part Number	Q'ty/set	Remarks
312	VALVE BLOCK	2923370-0090	1	
	VALVE BLOCK	2923370-0080	1	
	VALVE BLOCK	2923370-0355	1	
401	SOCKET BOLT	2953801767	8	
406	SOCKET BOLT	OSBM820	4	
466	VP PLUG	OVP14	2	
467	VP PLUG	OVP 38	4	
468	VP PLUG	OVP34	4	
468	VP PLUG	PPU17	4	
490	PLUG	PBP116 -2403	27	
532	SERVO PISTON	2924490-00 5	2	

*配件可以单独订购。

Accessories can be ordered separately.



No	Part Name	Part Number	Q'ty/set	Remarks
534	STOPPER(L)	2925110- 318	2	K3V112
	STOPPER(L)	2953801 761	2	K5V140
535	STOPPER(S)	295380 1762	2	
702	O-RING	OORBG3 5W	2	
710	O-RING	OORBG 95	2	
	O-RING	OORBG 95W	2	
717	O-RING	OORBG1 45	4	
	O-RING	OORBG1 45W	4	
724	O-RING	OORBP8	16	
	O-RING	OORBP8 W	18	
725	O-RING	OORBP11	4	
	O-RING	OORBP11 W	4	
732	O-RING	OORBP1 8W	2	

No.	Part Name	Part Number	Q'ty/set	Remarks
774	OIL SEAL	PTCV40DLV	1	K3V112
	OIL SEAL	PTCV45DLV	1	φ45
	OIL SEAL	PTCV55DLV	1	K5V140
789	BACK UP RING	OT2BP18	2	
792	BACK UP RING	OT2BG35	2	
806	NUT	ORNM16	2	
808	NUT	ORNM20	2	
824	SNAP RIKIG	OSR40	2	
885	VALVE PLATE PIN	PJR812	2	
886	SPRING PIN	OSPV614	4	
901	EYE BOLT	OEBM10	2	
953	SET—SCREW	PSSSM1630	2	
954	ADJUST SCREW	2953801768	2	
981	NAME PLATE	PNPF-2591	1	
983	PIN	OSK2548	2	
530	TILTING PINASS'Y	2953801989	2	K3V112
	TILTING PINASS'Y	2925130-0035K	2	K5V140
011	PISTON ASS'Y	3853802464	2ST	K3V112
	PISTON ASS'Y	2924530-0424	2ST	K5V140
013	CYLINDER ASS'Y(R)	2921190-0324	1ST	K3V112
	CYLINDER ASS'Y(R)	2924370-0668	1ST	K5V140
014	CYLINDER ASS'Y(L)	2921190-0325	1ST	K3V112
	CYLINDER ASS'Y(L)	2924370-0669	1ST	K5V140
041	CHEK VALVE ASS'Y	2953802048	2	
042	CHEK VALVE ASS'Y	2953802049	2	
04	GEAR PUMP	*	1ST	
08	REGULATOR	*	2ST	
079	EPPRVALVE ASSY	*	1ST	

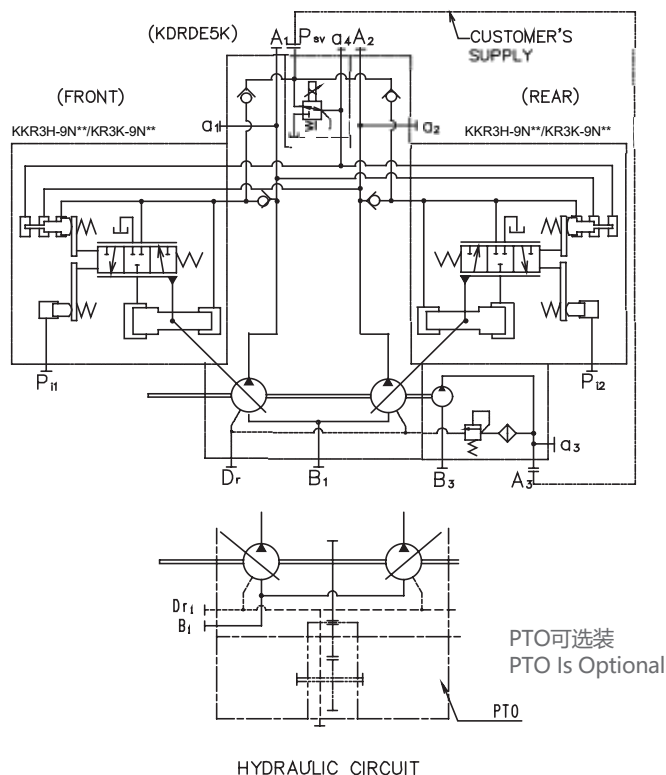


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K3V140/K3V180/K5V160串联双泵 K3V140/K3V180/K5V160 TANDEM PUMP



注：样本仅示例9N控制方式的K3V140/K3V180/K5V160泵。
Note: the sample is only the K3V140/K3V180/K5V160 pump in the example 9N control mode.



产品简介/INTRODUCTION

K3V140/K3V180/K5V160串联双泵具有多种控制方式可选，可以加装PTO传动箱。K3V140适用于20-25吨级液压式挖掘机，K3V180/K5V160适用于36-40吨级液压式挖掘机，它们也适用于其他各类开式液压回路，如混凝土设备、钻机等。K3V140/K3V180/K5V160 series tandem pump has a variety of control modes, the PTO box can connect pilot pump or other auxiliary pump. K3V140 applied to 27-33T hydraulic excavator, K3V180/K5V160 applied to 36-40T hydraulic excavator. They also apply to kinds of hydraulic open-circuit equipment, such as concrete equipment, drilling machine etc..

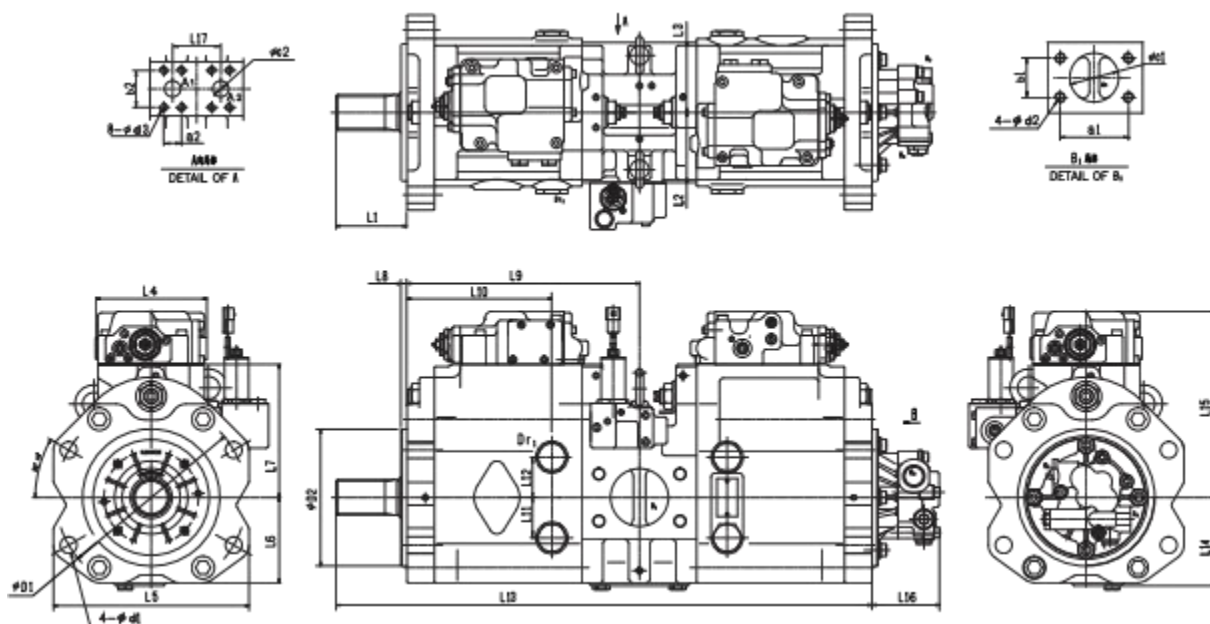
性能参数/SPECIFICATIONS

型号TYPE		K3V140/K3V180/K5V160(DT/DTP)
排量Displacement(mL/r)		140/180/160
转速范围 Speed Range (min/r)	最高Max.	2500/2300/2350
	自吸最高 Max. Self Priming	2150/1950 /2000
压力Pressure (MPa)	额定Rated	34.3
	最高Peak	39.2
最大输入扭矩 Max. Input Torque (N.m)		1120
PTO最大输入扭矩 Input Torque of PTO(N.m)		294

K3V140/K3V180/K5V160串联双泵

K3V140/K3V180/K5V160 TANDEM PUMP

K3V140、K3V180、K5V160DT泵结构图/STRUCTURE



*如有其他需求，请咨询我们。
Other Requirements, Please Consult Us.

尺寸代号 DIMENSION CODE	D1	D2	d1	L1	L2	L3	L4	L5	L6	L7
尺寸 DIMENSION	250	180	22	93	92	92	142	256	112	175
尺寸代号 DIMENSION CODE	L8	L9	L10	L11	L12	L13	L14	L15	L16	L17
尺寸 DIMENSION	8	305	190	53	53	618	116	245	88	75
尺寸代号 DIMENSION CODE	a1	b1	c1	d2	a2	b2	c2	d3	-	-
尺寸 DIMENSION	106.4	61.9	76	M16-24	27.8	57.2	25	M 12-22	-	-
输入轴 SHAFT END	齿数 No. of Teeth		分度圆直径 Pitch Circle Dia		压力角 Pressure Angle		模数 Module		标准 Rule	
	17		φ42.5		20		2.5		JIS	



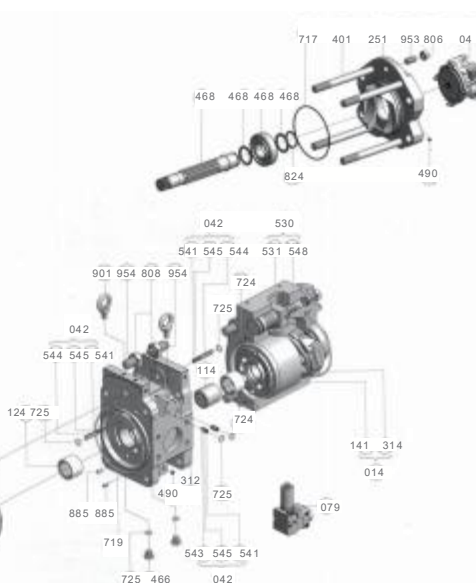
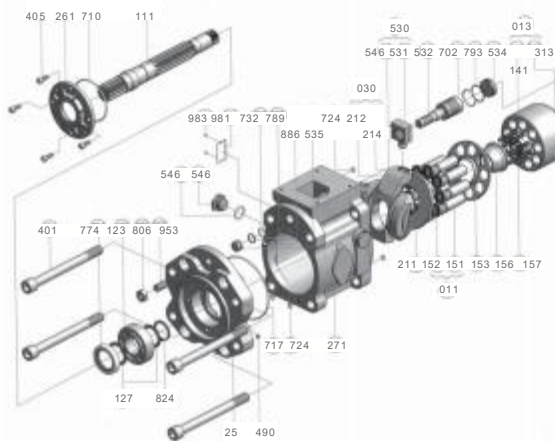
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K3V140/K3V180/K5V160串联双泵

K3V140/K3V180/K5V160 TANDEM PUMP

K3V140、180DT泵体配件表/PARTS

No	Part Name	Part Number	Q'ty/set	Remarks
111	DRIVE SHAFT(F)	2933800890	1	
113	DRIVE SHAFT(R)	2933800903	1	
114	SPLINE COUP LING	2953801867	1	
123	ROLLER BEARIKIG	PNUP309ET	2	
124	NEED LE BEARIKIG	PRNA6932	2	
127	BEARING SPACER	2903370-0018	3	
153	SET PLATE	2943800488	2	
156	SPHERICAL BUSH	2924610-0031	2	K3V140
	SPHERICAL BUSH	2924610-003 2	2	K3V180
157	CYUNDER SPRING	2953801842	18	K3V140
	CYUNDER SPRING	2953802061	18	K3V180
211	SHOE PLATE	371A00AA-124	2	
212	SWASH PLATE	2923800908	2	
214	TLLTIKIG BUSH	P1R222616	2	
251	SUPPORT	2923800936	2	K3V140
	SUPPORT	2923800906	2	K3V180
261	SEAL COVER(F)	2943800518	1	
271	PUMP CASIKIG	2923250-0374	2	
312	VALVE BLOCK	2923801022	1	
325	VALVE CASING	2923230-0032	1	
401	SOCKET BOLT	2953801 868	8	
406	SOCKET BOLT	OSBM820	4	
407	SOCKET BOLT	OSBM660	3	
466	VP PLUG	OVPI4	2	
468	VP PLUG	OVPI4	4	
490	PLUG	PBP116 -2403	32	
532	SERVO PISTON	2943800503	2	



*配件可以单独订购。
Accessories can be ordered separately.

No .	Part Name	Part Number	Q' ty/set	Remarks
534	STOPPER(L)	2953801865	2	
535	STOPPER(S)	2953801864	2	
702	O-RING	OORBG 40 W	2	
710	O-RING	OORBG 105	1	
717	O-RING	OORBG1 70	2	
719	O-RING	PCPP165	2	
724	O-RING	OORBP8	16	
725	O-RING	OORBP11	8	
727	O-RING	OORBP1 6	1	
728	O-RING	OORBP 24	4	
732	O-RING	OORBP 21 W	2	
774	OIL SEAL	PTCV 55 DLV	1	
789	BACK UP RING	PT2SP21	2	
792	BACK UP RING	PT2SG40	2	
808	NUT	ORNM 20	4	
824	SNAP RIKIG	OS 45	2	

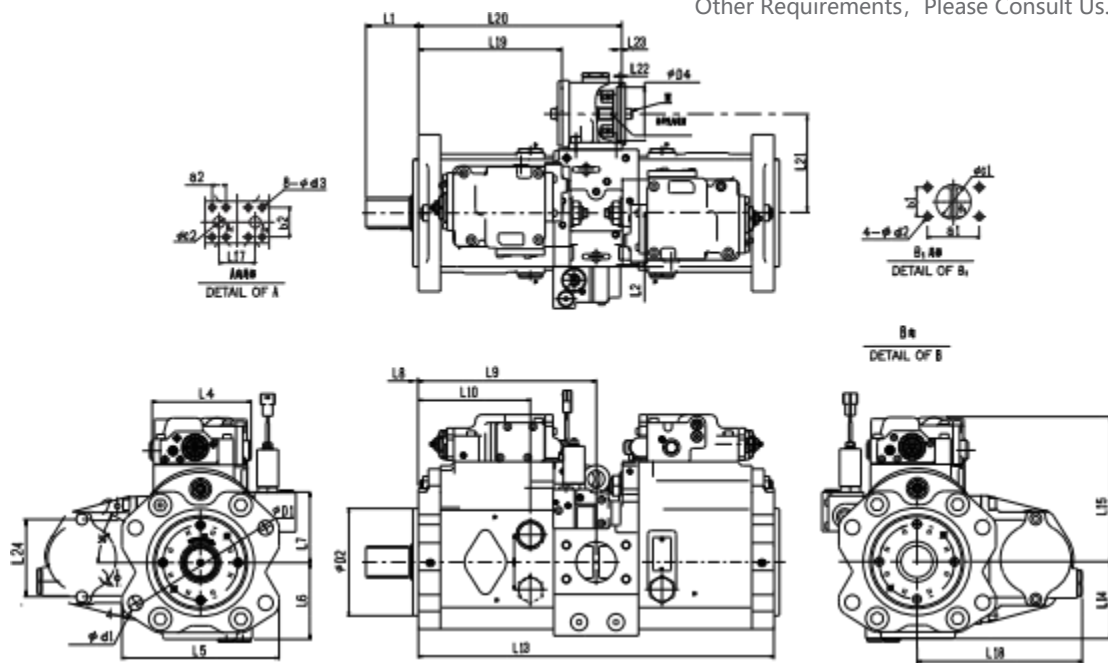
No .	Part Name	Part Number	Q' ty/set	Remarks
885	VALVE PLATE PIN	PJR 81014	2	
886	SPRING PIN	OSPV614	4	
901	EYE BOLT	OEBM 12	2	
953	SET — SCREW	PSSSM 2035	2	
954	ADJUST SCREW	2953801 866	2	
981	NAME PLATE	PNPA-3536	1	
983	PIN	OSK2548	2	
530	TILTING PIN ASS'Y	295380198 8	2	
	PISTON ASS'Y	29245300460	2ST	K3V140
011	PISTON ASS'Y	29245300462	2ST	K3V180
	CYLINDER ASS' Y(R)	29243700678	1ST	K3V140
013	CYLINDER ASS' Y(R)	2921190-0333	1ST	K3V180
	CYLINDER ASS' Y(L)	29243700679	1ST	K3V140
014	CYLINDER ASS' Y(L)	29211900336	1ST	K3V180
	CHEK VALVE ASS'Y	2953802048	2	
041	CHEK VALVE ASS'Y	2933180-0416	2	
042	CHEK VALVE ASS'Y	2933180-0416	2	
04	GEAR PUMP	*	1ST	
08	REGULATOR	*	2ST	
079	EPPRVALVE ASSY	*	1ST	

K3V140/K3V180/K5V160串联双泵

K3V140/K3V180/K5V160 TANDEM PUMP

K3V180、K5V160DTP泵结构图/STRUCTURE

*如有其他需求，请咨询我们。
Other Requirements, Please Consult Us.



尺寸代号 DIMENSION CODE	D1	D2	D4	d1	L1	L2	L3	L4	L5	L6
尺寸 DIMENSION	250	180	82.55/ 101	22	93	92	92	223	256	100
尺寸代号 DIMENSION CODE	L7	L8	L9	L10	L11	L12	L13	L14	L15	-
尺寸 DIMENSION	110	8	249	167	41	41	325	109	220	-
尺寸代号 DIMENSION CODE	a1	b1	c1	d2	a2	b2	c2	d3	d4	d5
尺寸 DIMENSION	106.4	61.9	76	M16-24	36.5	79.4	35(38)	M16-24	M10 M12	106 146
输入轴 SHAFT END	齿数 No. of Teeth		分度圆直径 Pitch Circle Dia		压力角 Pressure Angle		模数 Module		标准 Rule	
	17		φ42.5		20°		2.5		JIS	
齿轮泵 Gear Pump	齿数 No. of Teeth		分度圆直径 Pitch Circle Dia		压力角 Pressure Angle		模数 Module		标准 Rule	
	9		φ 14.288		30°		16/32		SAE	
	10		φ 15.875		30°		16/32		SAE	
	13		φ 20.638		30°		16/32		SAE	

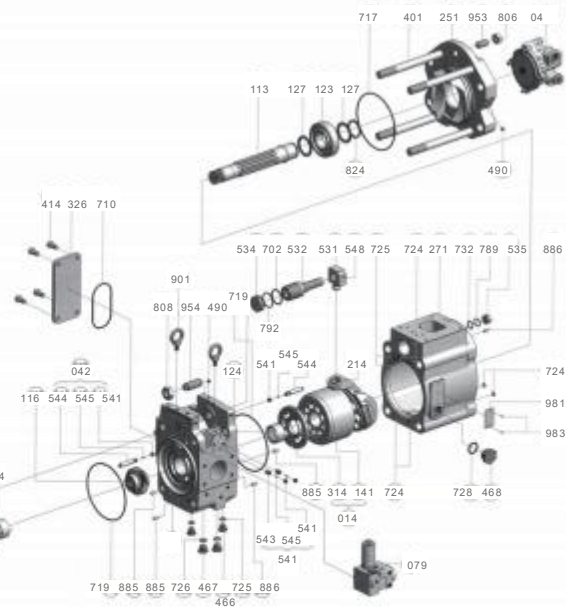
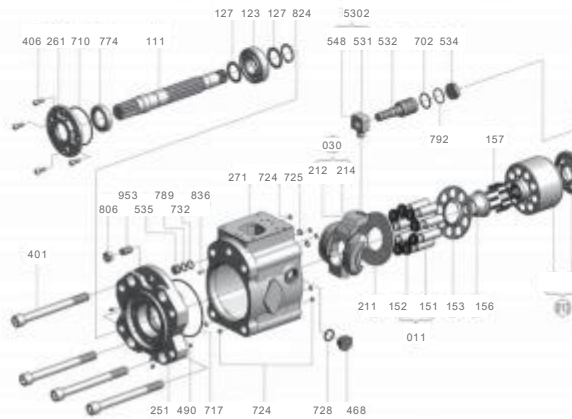
K3V140/K3V180/K5V160串联双泵

K3V140/K3V180/K5V160 TANDEM PUMP

K3V180、K5V160DTP泵体配件表/PARTS

No	Part Name	Part Number	Q'ty/set	Remarks
111	DRIVE SHAFT(F)	2924250-0490	1	
113	DRIVE SHAFT(R)	2924250-0403	1	
116	NO.1 GEAR	2903190-0207	1	
123	ROLLER BEARING	PNUP309ET	2	
124	NEEDLE BEARING	PAJ503806	2	
127	BEARING SPACER	2903370-0018	3	
153	SET PLATE	2943800488	2	K3V180
	SET PLATE	2924110-0049	2	K5V160
156	SPHERICAL BUSH	2924610-003 2	2	
157	CYLINDER SPRING	2953802061	18	
211	SHOE PLATE	371A00AA-124	2	
212	SWASH PLATE	2923800908	2	
214	TILT KIG BUSH	P1R222616	2	
251	SUPPORT	2923800906	2	K3V180
	SUPPORT	2923800936	2	K5V160
261	SEAL COVER(F)	2943800518	1	
271	PUMP CASIKIG	2923250-0649	2	K5V160
	PUMP CASIKIG	2923250-0374	2	K3V180
312	VALVE BLOCK	2923370-0074	1	
325	SENSOR ELOCK	2923230-0671	1	K5V160
326	COVER	2923150-1368	1	K3V180
401	SOCKET BOLT	2953801868	8	
406	SOCKET BOLT	OSBM820	4	
407	SOCKET BOLT	OSBM655	3	K5V160

*配件可以单独订购。
Accessories can be ordered separately.

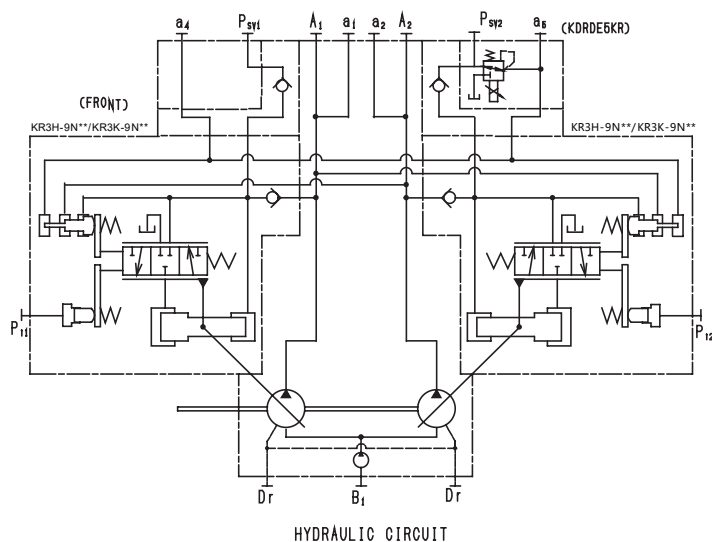


No .	Part Name	Part Number	Q' ty/set	Remarks
534	STOPPER(L)	2953801865	2	
535	STOPPER(S)	2953801864	2	
542	STOPPER(S)	2953802044	2	K5V160
702	O-RING	OORBG 40 W	2	
710	O-RING	OORBG 105W	2	K5V160
	O-RING	OORBG 105	2	K3V180
717	O-RING	PCPP170W	2	K5V160
719	O-RING	PCPP165W	2	K3V180
724	O-RING	OORBP8	16	K3V180
	O-RING	OORBP8 W	16	K5V160
725	O-RING	OORBP11	6	K3V180
	O-RING	OORBP11 W	5	K5V160
726	O-RING	OORBP14W	1	K5V160
728	O-RING	PARP568-912W	4	
	O-RING	OORBP24	4	
732	O-RING	OORBP 21 W	2	

No .	Part Name	Part Number	Q' ty/set	Remarks
774	OIL SEAL	PTCV 55DLV	1	
789	BACK UP RING	PT2SP21	2	
792	BACK UP RING	PT2SG40	2	
808	NUT	ORMN 20	4	
824	SNAP RING	OSR 15	2	
885	VALVE PLATE PIN	PJR 1014	2	
886	SPRING PIN	OSPV614	4	
901	EYE BOLT	OEBM 12	2	
953	SET — SCREW	PSSM 2035	2	
954	ADJUST SCREW	2953801866	2	
981	NAME PLATE	PNPF-2591	1	
983	PIN	OSK2548	2	
011	PISTON ASS'Y	2924530-0735	2ST	K5V160
	PISTON ASS'Y	2924530-0462	2ST	K3V180
013	CYLINDER ASS' Y(R)	2921190-0507	1ST	K5V160
	CYLINDER ASS' Y(R)	2921190-0333	1ST	K3V180
014	CYLINDER ASS' Y(L)	2921190-0508	1ST	K5V160
	CYLINDER ASS' Y(L)	2921190-0336	1ST	K3V180
041	CHEK VALVE ASS'Y	2953802048	2	K3V180
042	CHEK VALVE ASS'Y	2933180-0416	2	K3V180
530	TILTING PIN ASS'Y	2925130-00 315	2	K5V160
	TILTING PIN ASS'Y	2953801988	2	K3V180
04	GEAR PUMP	*	1ST	
08	REGULATOR	*	2ST	
079	EPPRVALVE ASSY	*	1ST	



注：样本仅示例9N控制方式的K5V180/K5V200DTH泵。
Note: the sample is only the K5V180/K5V200DTH pump in the example 9N control mode.



产品简介/INTRODUCTION

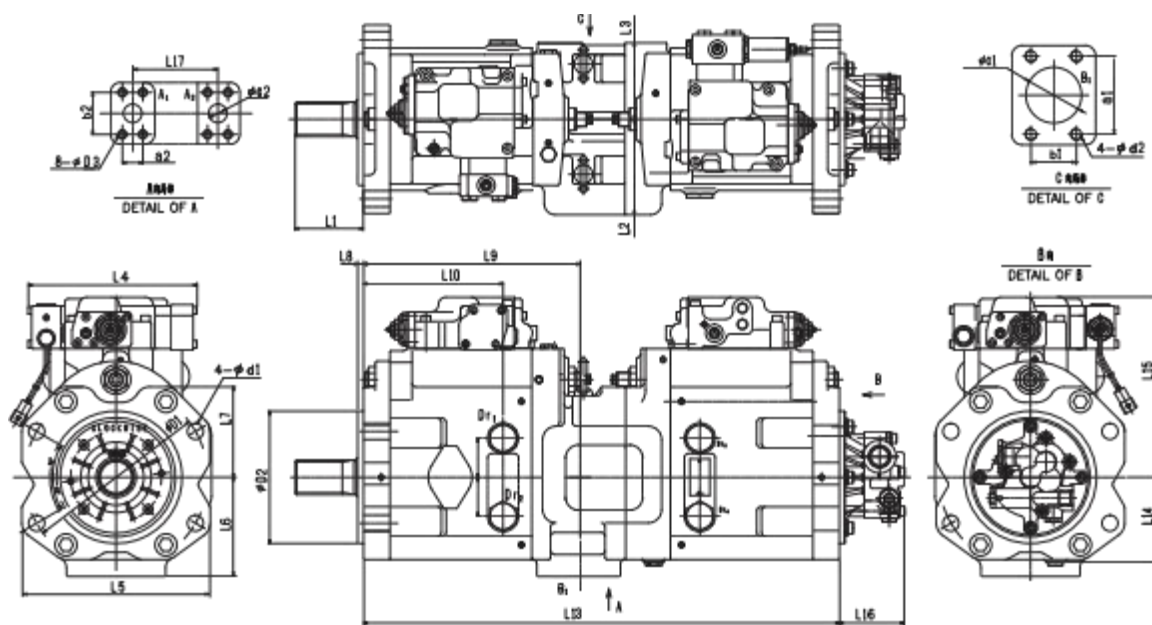
K3V180/K5V200DTH串联双泵具有多种控制方式可选。K3V180DTH适用于36-40吨级液压式挖掘机，K5V200DTH适用于40-45吨级液压式挖掘机，它们也适用于其他各类开式液压回路，如混凝土设备、钻机等。

K3V180/K5V200DTH series tandem pump has a variety of control modes. K3V180DTH applied to 36-40T hydraulic excavator, K5V200DTH applied to 40-45T hydraulic excavator. They also apply to kinds of hydraulic open-circuit equipment, such as concrete equipment, drilling machine etc..

性能参数/SPECIFICATIONS

型号TYPE		K3V180DTH/K5V200DTH
排量Displacement (mL/r)		180/200
转速范围 Speed Range (min/r)	最高Max.	2300/2200
	自吸最高 Max. Self Priming	1950/1900
压力Pressure (MPa)	额定Rated	34.3
	最高Peak	39.2
最大输入扭矩 Max. Input Torque (N.m)		1120
PTO最大输入扭矩 Input Torque of PTO (N.m)		294

K3V180、K5V200DTH泵结构图/STRUCTURE



*如有其他需求，请咨询我们。
Other Requirements, Please Consult Us.

尺寸代号 DIMENSION CODE	D1	D2	d1	L1	L2	L3	L4	L5	L6	L7
尺寸 DIMENSION	250	180	22	93	92	92	142	256	112	175
尺寸代号 DIMENSION CODE	L8	L9	L10	L11	L12	L13	L14	L15	L16	L17
尺寸 DIMENSION	8	305	190	53	53	618	116	245	88	75
尺寸代号 DIMENSION CODE	a1	b1	c1	d2	a2	b2	c2	d3	-	-
尺寸 DIMENSION	106.4	61.9	76	M16-24	27.8	57.2	25	M12-22	-	-
输入轴 SHAFT END	齿数 No. of Teeth		分度圆直径 Pitch Circle Dia		压力角 Pressure Angle		模数 Module		标准 Rule	
	17		42.5		20°		2.5		JIS	

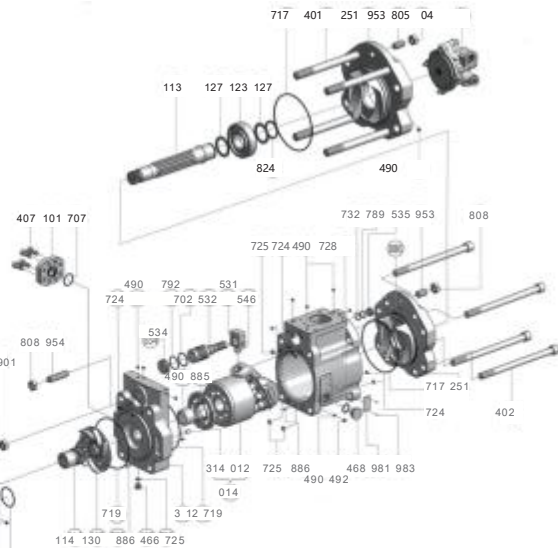
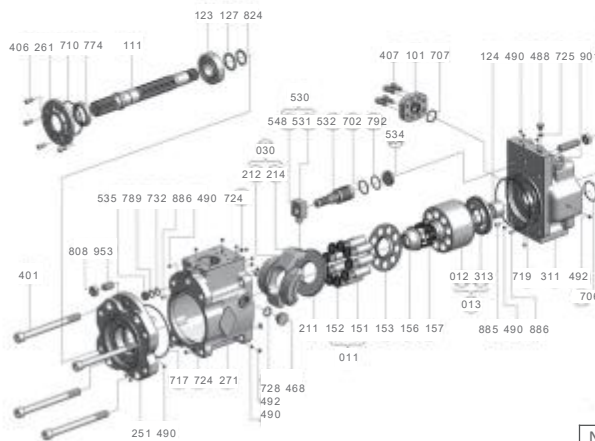
K3V180/K5V200DTH串联双泵

K3V180/K5V200DTH TANDEM PUMP

K3V180、K5V200DTH泵体配件表/PARTS

No.	Part Name	Part Number	Q'ty/set	Remarks
111	DRIVE SHAFT(F)	2933801244	1	K3V180
	DRIVE SHAFT(F)	2924250-0904	1	K5V200
113	DRIVE SHAFT(R)	2924250-0008	1	K3V180
	DRIVE SHAFT(R)	2924250-0918	1	K5V200
114	SPLINE COUPLING	2943800613	1	
123	ROLLER BEARIKIG	PNUP309U	2	
124	NEED LE BEARIKIG	PRNA6932R	2	K3V180
	NEED LE BEARIKIG	PAJ503806	2	K5V200
127	BEARING SPACER	2903370-0018	3	
130	BOOSTER	2933800926	1	
153	SET PLATE	2943800488	2	K3V180
	SET PLATE	2924110-0049	2	K5V200
156	SPHERICAL BUSH	2924610-0032	2	
157	CYUNDER SPRING	2953802061	18	
211	SHOE PLATE	371A00AA -124	2	
212	SWASH PLATE	2923800908	2	
214	TLLTIKIG BUSH	P1R222616	2	
251	SUPPORT	2923800906	2	
261	SEAL COVER(F)	2943800518	1	
271	PUMP CASIKIG	2923250-0374	2	K3V180
	PUMP CASIKIG	2923250-0695	2	K5V200
311	VALVE COVER(F)	2923801932	1	
312	VALVE BLOCK	2923801934	1	
	SOCKET BOLT	2953801 868	4	
402	SOCKET BOLT	2953802438	4	

No.	Part Name	Part Number	Q' ty/set	Remarks
406	SOCKET BOLT	OSBM820	4	
466	VP PLUG	OVP14	4	
468	VP PLUG	OVP34	4	
490	PLUG	PBP116 -2403	30	
492	PLUG	V250101400	1	
530	TILTING PIN ASS'Y	2953801988	2	K3V180
	TILTING PIN ASS'Y	2925130-00 315	2	K5V200
532	SERVO PISTON	2943800503	2	K3V180
	SERVO PISTON	2924490-0041	2	K5V200
534	STOPPER(L)	2953801865	2	
535	STOPPER(S)	2953801864	2	
702	O-RING	OORBG40 W	2	



No.	Part Name	Part Number	Q'ty/set	Remarks
710	O-RING	OORBG105	2	K3V180DTH
	O-RING	OORBG105W	2	K5V200DTH
	O-RING	PCPP170	2	K3V180DTH
717	O-RING	PCPP170W	2	K5V200DTH
	O-RING	PCPP165	3	K3V180DTH
719	O-RING	PCPP165W	3	K5V200DTH
	O-RING	OORBP8	19	K3V180DTH
724	O-RING	OORBP8W	19	K5V200DTH
	O-RING	OORBP11	6	K3V180DTH
725	O-RING	OORBP11W	6	K5V200DTH
	O-RING	OORBP24	4	K3V180DTH
728	O-RING	OORBP24W	4	K5V200DTH
732	O-RING	OORBP21W	2	

No.	Part Name	Part Number	Q'ty/set	Remarks
774	OIL SEAL	PTCV55DLV	1	
789	BACK UP RING	PT2SP21	2	
792	BACK UP RING	PT2SG40	2	
808	NUT	ORNM20	4	
824	SNAP RING	OSR45	2	
885	VALVE PLATE PIN	PJR1014	2	
886	SPRING PIN	OSPV614	4	
901	EYE BOLT	OEBM12	2	
953	SET SCREW	PSSSM2035	2	
954	ADJUST SCREW	2933300-0017	2	
981	NAME PLATE	PNPF-2591	1	
983	PIN	OSK2548	2	
011	PISTON ASS'Y	2924530-0462	2ST	K3V180
	PISTON ASS'Y	2924530-0466	2ST	K5V200
013	CYLINDER ASS' Y(R)	2921190-0333	1ST	
014	CYLINDER ASS' Y(L)	2921190-0336	1ST	
041	CHEK VALVE ASS'Y	2953802048	2	
042	CHEK VALVE ASS'Y	2933180-0416	2	
04	GEAR PUMP	*	1ST	
08	REGULATOR	*	2ST	

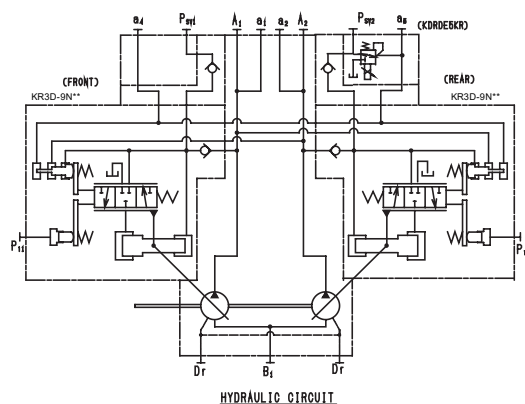
K3V280DTH串联双泵

K3V280DTH TANDEM PUMP



产品简介/INTRODUCTION

K3V280DTH串联双泵具有多种控制方式可选，适用于70-85吨级液压式挖掘机及其他各类开式液压回路。
K3V280 series pump has a variety of control modes, applied to 70-85T hydraulic excavator and kinds of hydraulic opencircuit equipment..



注：样本仅示例9N控制方式的K5V280DTH泵。
Note: the sample is only the K5V280DTH pump in the example 9N control mode.

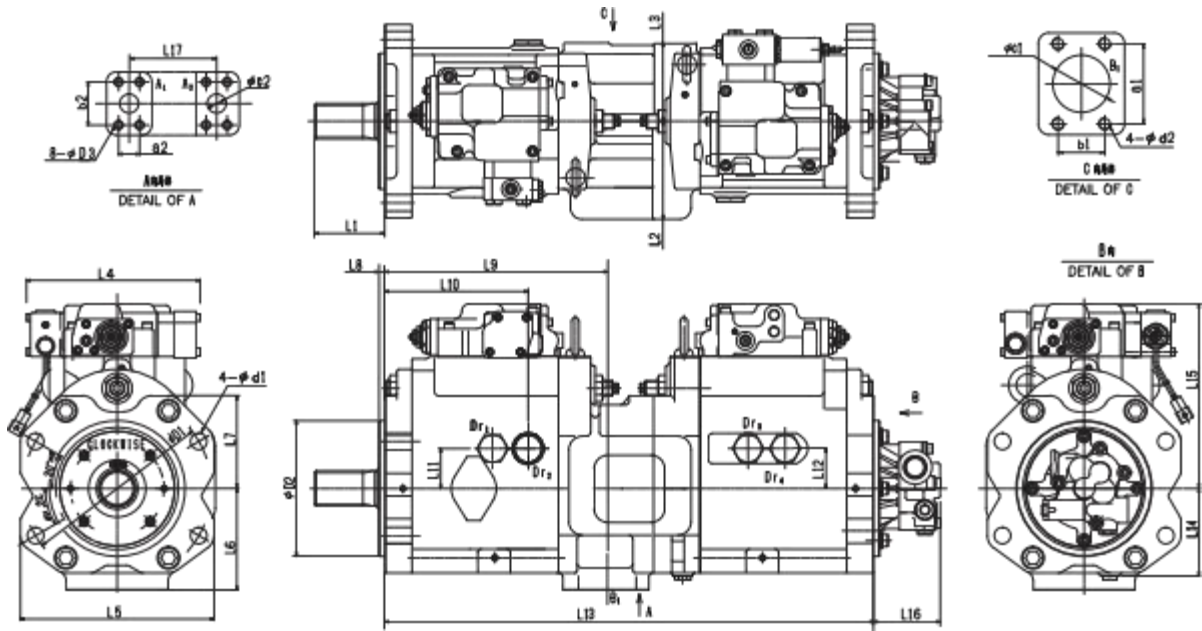
性能参数 / SPECIFICATIONS

型号TYPE		K3V280DT/DTH
排量 Displacement (mL/r)		280
转速范围Speed Range (min/r)	最高 Max.	2000
	自吸最高 Max. Self Priming	1600/2000
压力 Pressure (MPa)	额定 Rated	34.3
	最高 Peak	39.2
最大输入扭矩 Max. Input Torque (N.m)		1950

K3V280DTH串联双泵

K3V280DTH TANDEM PUMP

K3V280DTH泵结构图/STRUCTURE



*如有其他需求，请咨询我们。
Other Requirements, Please Consult Us.

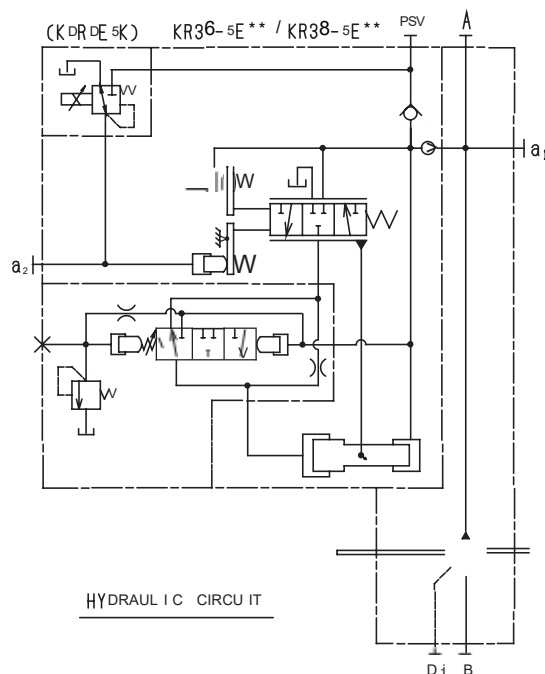
尺寸代号 DIMENSION CODE	D1	D2	d1	L1	L2	L3	L4	L5	L6	L7
尺寸 DIMENSION	300	200	26	115	153.5	125	231	300	127	140
尺寸代号 DIMENSION CODE	L8	L9	L10	L11	L12	L13	L14	L15	L16	L17
尺寸 DIMENSION	9	356	203	70	70	783	150	286	116	123
尺寸代号 DIMENSION CODE	a1	b1	c1	d2	a2	b2	c2	d3	-	-
尺寸 DIMENSION	120.7	69.8	89	M 16-24	31.8	66.7	32	M 12-20	-	-
输入轴 SHAFT END	齿数 No. of Teeth		分度圆直径 Pitch Circle Dia		压力角 Pressure Angle		模数 Module		标准 Rule	
	18		φ 54		20°		3.0		JIS	



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K3V63/K5V80S单泵

K3V/K5V SINGLE PUMP



注：样本仅示例5E控制方式的K3V63S/K5V80S泵。
Note: the sample is only the K3V63S/K5V80S pump in the example 5E control mode.

产品简介/INTRODUCTION

K3V63/K5V80S系列单泵为斜盘式轴向柱塞泵，具有多种控制方式可选，主要控制方式有正流量控制、负流量控制、恒功率控制、压力切断控制、电比例排量控制、负载敏感控制等。带有通轴驱动接口，主泵后面可以串接其他的泵。具有功率密度高、自吸能力强、寿命长、可靠性高、噪音低等特点。适用于各类开式液压回路的工程机械，如工业设备、6-8T液压挖掘机、混凝土设备等。

K3V63/K5V80S series single pump is swash plate axial piston pump, with a variety of control options, the main control methods are positive flow control, negative flow control, constant power control, pressure cut-off control, electric proportional displacement control, load-sensitive control. With an axle drive interface, other pumps can be connected at the back of the main pump. It has the characteristics of high power density, strong self suction ability, long life, high reliability and low noise. Suitable for all kinds of open hydraulic circuit construction machinery, such as industrial equipment, 6-8T hydraulic excavator, concrete equipment.

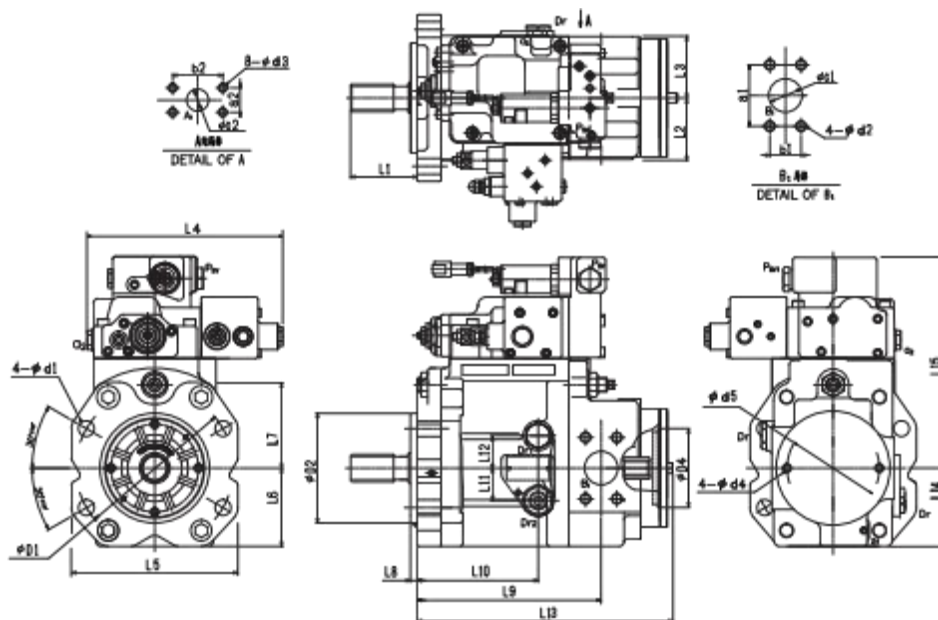
性能参数/SPECIFICATIONS

型号 TYPE		K3V63S	K5V80S
排量 Displacement(mL/r)		63	80
转速范围 Speed Range (min/r)	最高 Max.	3250	3000
	自吸最高 Max. Self Priming	2650	2460
压力 Pressure (MPa)	额定 Rated	34.3	34.3
	最高 Peak	39.2	39.2
最大输入扭矩 Max. Input Torque (N.m)		343	529

K3V63/K5V80S单泵

K3V/K5V SINGLE PUMP

K3V63、K5V80S泵结构图/STRUCTURE



*如有其他需求，请咨询我们。
Other Requirements, Please Consult Us.

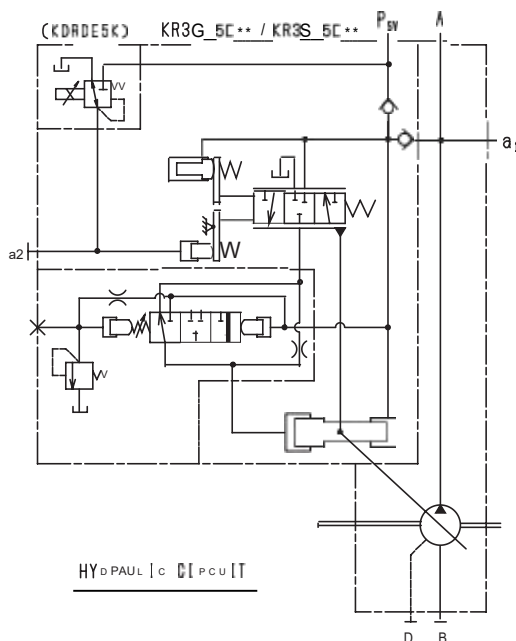
尺寸代号 DIMENSION CODE		D1	D2	D4	d1	L1	L2	L3	L4	L5	L6
尺寸 DIMENSION		180	125	82.55 101	18	76	70	70	223	190	89
尺寸代号 DIMENSION CODE		L7	L8	L9	L10	L11	L12	L13	L14	L15	-
尺寸 DIMENSION		125	8	228	138	37	37	464	92	195	-
尺寸代号 DIMENSION CODE		a1	b1	c1	d2	a2	b2	c2	d3	d4	d5
尺寸 DIMENSION		88.9	50.8	60	M12-18	23.8	50.8	19	M10-16	M10 M12	106 146
输入轴 SHAFT END	型号 Type	齿数 No. of Teeth		分度圆直径 Pitch Circle Dia		压力角 Pressure Angle		模数 Module		标准 Rule	
	K3V63	14		φ29.6		30°		12/24		SAE	
	K5V80	12		φ30		20°		2.5		JIS	
齿轮泵 Gear Pump		齿数 No. of Teeth		分度圆直径 Pitch Circle Dia		压力角 Pressure Angle		模数 Module		标准 Rule	
		9		φ14.288		30°		16/32		SAE	
		10		φ15.875		30°		16/32		SAE	
		13		φ20.638		30°		16/32		SAE	



FRANK

K3V112/K5V140S单泵

K3V/K5V SINGLE PUMP



注：样本仅示例5E控制方式的K3V112S/K5V140S泵。
Note: the sample is only the K3V112S/K5V140S pump in the example 5E control mode.

产品简介/INTRODUCTION

K3V112/K5V140S系列单泵为斜盘式轴向柱塞泵，具有多种控制方式可选，主要控制方式有正流量控制、负流量控制、恒功率控制、压力切断控制、电比例排量控制、负载敏感控制等。带有通轴驱动接口，主泵后面可以串接其他的泵。具有功率密度高、自吸能力强、寿命长、可靠性高、噪音低等特点。适用于各类开式液压回路的工程机械，如工业设备、10-12T液压挖掘机、混凝土设备、钻机等。

K3V63/K5V80S series single pump is swash plate axial piston pump, with a variety of control options, the main control methods are positive flow control, negative flow control, constant power control, pressure cut-off control, electric proportional displacement control, load-sensitive control. With an axle drive interface, other pumps can be connected at the back of the main pump. It has the characteristics of high power density, strong self suction ability, long life, high reliability and low noise. Suitable for all kinds of open hydraulic circuit construction machinery, such as industrial equipment, 10-12T hydraulic excavator, concrete equipment, drilling machine etc.

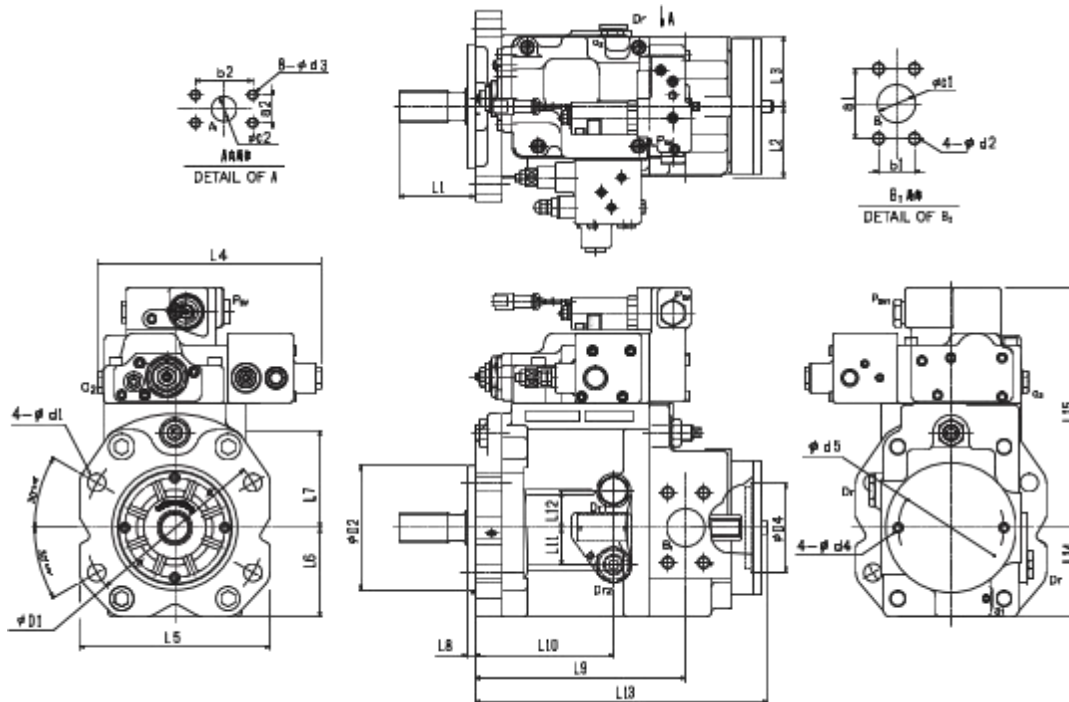
性能参数/SPECIFICATIONS

型号TYPE		K3V112S	K5V140S
排量Displacement(mL/r)		112	140
转速范围 Speed Range (min/r)	最高 Max.	2700	2500
	自吸最高Max. Self Priming	2360	2160
压力 Pressure (MPa)	额定 Rated	34.3	34.3
	最高 Peak	39.2	39.2
最大输入扭矩 Max. Input Torque (N.m)		588	843

K3V112/K5V140S单泵

K3V/K5V SINGLE PUMP

K3V112、K5V140S结构图/STRUCTURE



*如有其他需求, 请咨询我们。
Other Requirements, Please Consult Us.

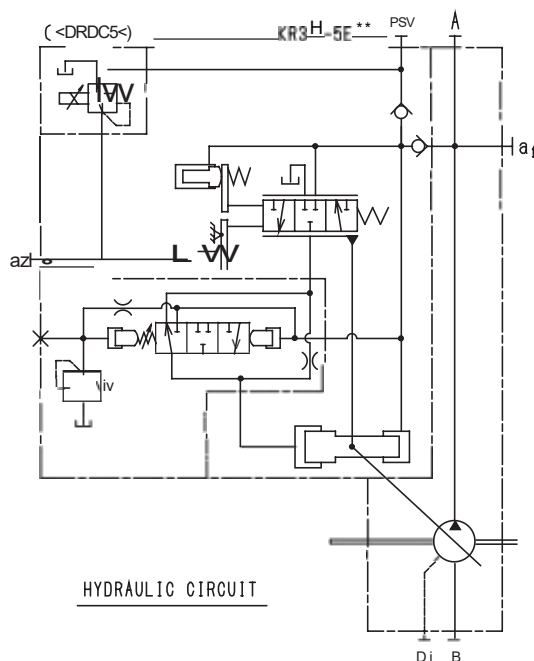
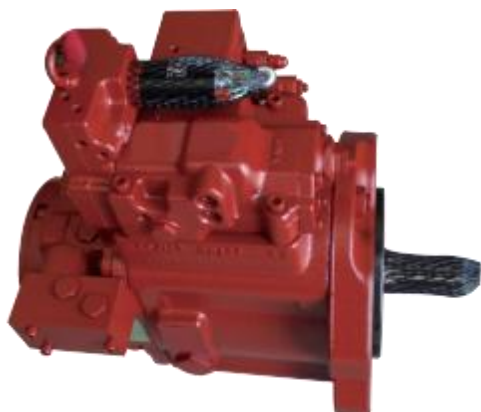
尺寸代号 DIMENSION CODE		D1	D2	D4	d1	L1	L2	L3	L4	L5	L6
尺寸 DIMENSION		224	160	82.55 101	22	78	K3V112S:80 K5V140S:92	K3V112S:80 K5V140S:92	223	234	100
尺寸代号 DIMENSION CODE		L7	L8	L9	L10	L11	L12	L13	L14	L15	-
尺寸 DIMENSION		100	8	250	167	41	41	338	109	220	-
尺寸代号 DIMENSION CODE		a1	b1	c1	d2	a2	b2	c2	d3	d4	d5
尺寸 DIMENSION	K3V112S	88.9	50.8	60	M12-18	31.8	66.7	30(32)	M12-18	M10 M12	106 146
	K5V140S	106.4	61.9	76	M16-24	36.5	79.4	35(38)	M16-24		
		106.4	61.9	75	M16-24	27.8	57.2	25	M12-17		
		89.9	50.8	60	M12-18	23.8	50.8	19	M10-18		
		88.9	50.8	60	M12-18	31.8	66.7	30	M12-16		
输入轴 SHAFT END	型号 Type	齿数 No. of Teeth		分度圆直径 Pitch Circle Dia		压力角 Pressure Angle		模数 Module		标准 Rule	
	K3V112S	12		φ 30		20°		2.5		JIS	
	K5V140S	12/17		φ 30/φ 42.5		20°		2.5		JIS	
齿轮泵 Gear Pump		齿数 No. of Teeth		分度圆直径 Pitch Circle Dia		压力角 Pressure Angle		模数 Module		标准 Rule	
		9		φ 14.288		30°		16/32		SAE	
		10		φ 15.875		30°		16/32		SAE	
		13		φ 20.638		30°		16/32		SAE	



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K3V140/K3V180S单泵

K3V/K5V SINGLE PUMP



注：样本仅示例5E控制方式的K3V140S/K3V180S泵。
Note: the sample is only the K3V140S/K3V180S pump in the example 5E control mode.

产品简介/INTRODUCTION

K3V140/K3V180S系列单泵为斜盘式轴向柱塞泵，具有多种控制方式可选，主要控制方式有正流量控制、负流量控制、恒功率控制、压力切断控制、电比例排量控制、负载敏感控制等。带有通轴驱动接口，主泵后面可以串接其他的泵。具有功率密度高、自吸能力强、寿命长、可靠性高、噪音低等特点。适用于各类开式液压回路的工程机械，如工业设备、混凝土设备、钻机等。

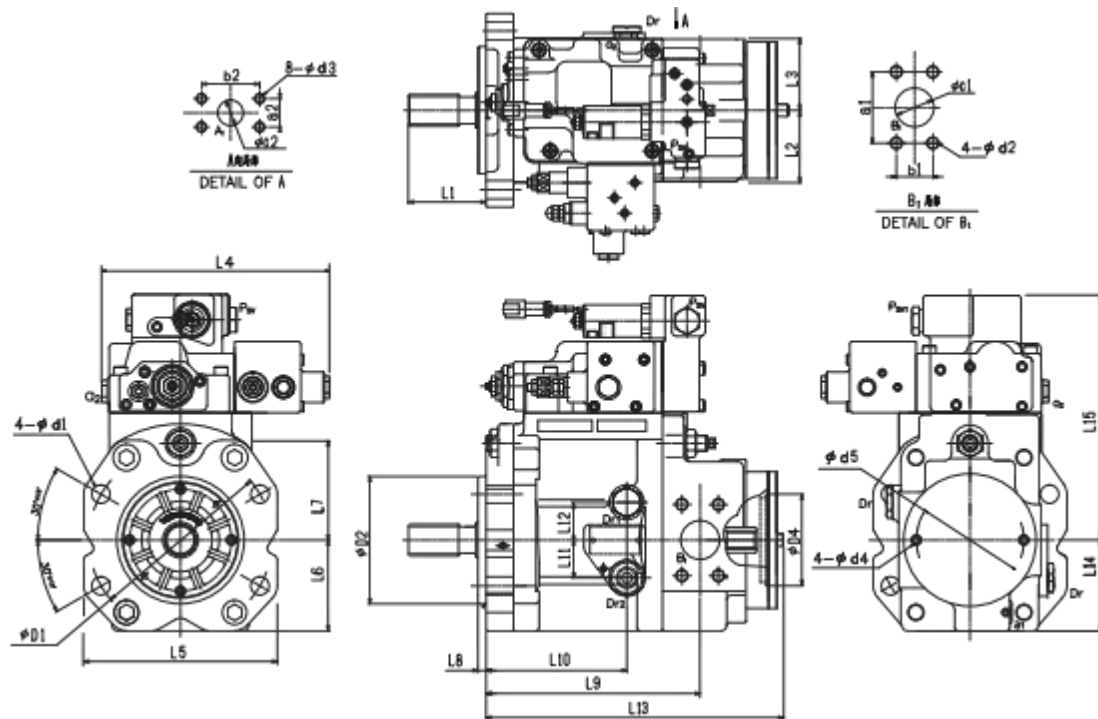
K3V140/K3V180S series single pump is swash plate axial piston pump, with a variety of control options, the main control methods are positive flow control, negative flow control, constant power control, pressure cut-off control, electric proportional displacement control, load-sensitive control. With an axle drive interface, other pumps can be connected at the back of the main pump. It has the characteristics of high power density, strong self suction ability, long life, high reliability and low noise. Suitable for all kinds of open hydraulic circuit construction machinery, such as industrial equipment, concrete equipment, drilling machine etc.

性能参数/SPECIFICATIONS

型号 TYPE		K3V140S	K3V180S
排量 Displacement(mL/r)		140	180
转速范围 Speed Range (min/r)	最高 Max.	2500	2300
	自吸最高 Max. Self Priming	2150	1950
压力 Pressure (MPa)	额定 Rated	34.3	34.3
	最高 Peak	39.2	39.2
最大输入扭矩 Max. Input Torque (N.m)		1120	1120

K3V140/K3V180S单泵

K3V/K5V SINGLE PUMP



*如有其他需求，请咨询我们。
Other Requirements, Please Consult Us.

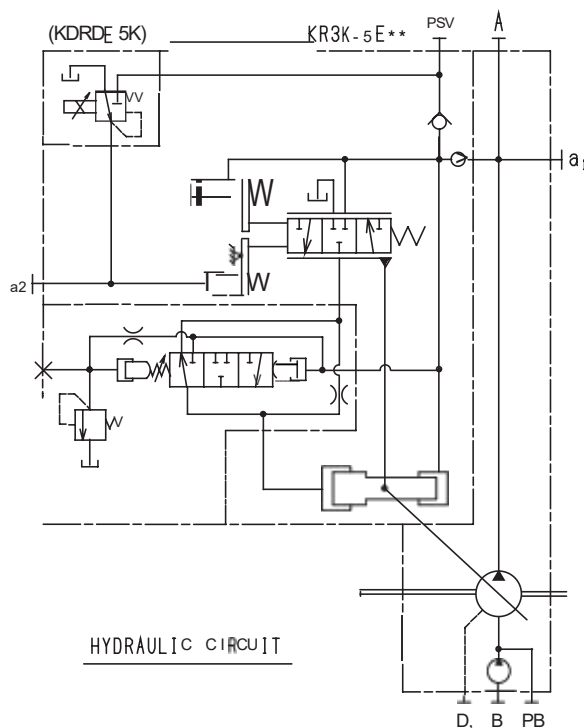
尺寸代号 DIMENSION CODE	D1	D2	D4	d1	L1	L2	L3	L4	L5	L6
尺寸DIMENSION	250	180	82.55/101	22	93	92	92	223	256	100
尺寸代号 DIMENSION CODE	L7	L8	L9	L10	L11	L12	L13	L14	L15	-
尺寸DIMENSION	110	8	249	167	41	41	325	109	220	-
尺寸代号 DIMENSION CODE	a1	b1	c1	d2	a2	b2	c2	d3	d4	d5
尺寸DIMENSION	106.4	61.9	76	M16-24	36.5	79.4	35(38)	M16-24	M10 M12	106 146
输入轴 SHAFT END	齿数 No. of Teeth		分度圆直径 Pitch Circle Dia		压力角 Pressure Angle		模数 Module		标准 Rule	
	17		φ42.5		20°		2.5		JIS	
齿轮泵 Gear Pump	齿数 No. of Teeth		分度圆直径 Pitch Circle Dia		压力角 Pressure Angle		模数 Module		标准 Rule	
	9		φ14.288		30°		16/32		SAE	
	10		φ15.875		30°		16/32		SAE	
	13		φ20.638		30°		16/32		SAE	



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K5V200SH单泵

K3V/K5V SINGLE PUMP



注：样本仅示例5E控制方式的K5V200SH泵。
Note: the sample is only the K5V200SH pump in the example 5E control mode.

产品简介/INTRODUCTION

K5V200SH系列单泵为斜盘式轴向柱塞泵，具有多种控制方式可选，主要控制方式有正流量控制、负流量控制、恒功率控制、压力切断控制、电比例排量控制、负载敏感控制等。带有通轴驱动接口，主泵后面可以串接其他的泵，具有功率密度高、自吸能力强、寿命长、可靠性高、噪音低等特点。适用于各类开式液压回路的工程机械，如工业设备、混凝土设备、钻机等。

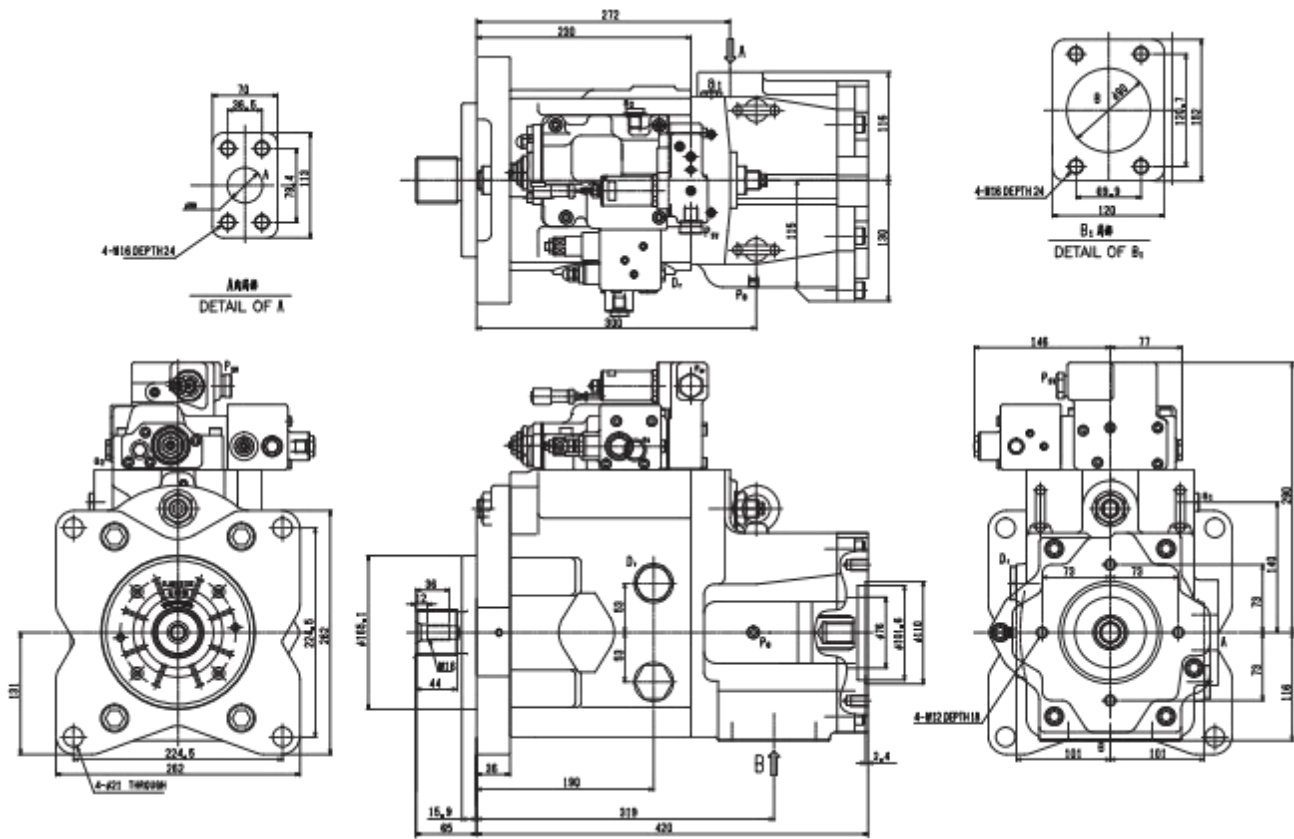
K5V200SH series single pump is swash plate axial piston pump, with a variety of control options, the main control methods are positive flow control, negative flow control, constant power control, pressure cut-off control, electric proportional displacement control, load-sensitive control. With an axle drive interface, other pumps can be connected at the back of the main pump. It has the characteristics of high power density, strong self suction ability, long life, high reliability and low noise. Suitable for all kinds of open hydraulic circuit construction machinery, such as industrial equipment, concrete equipment, drilling machine

性能参数/SPECIFICATIONS

型号 TYPE		K5V200SH
排量 Displacement (mL/r)		200
转速范围 Speed Range (min/r)	最高 Max.	2200
	自吸最高 Max. Self Priming	2200
压力 Pressure (MPa)	额定 Rated	34.3
	最高 Peak	39.2
最大输入扭矩 Max. Input Torque (N.m)		1120

K3V/K5V SINGLE PUMP

K5V200SH结构图/STRUCTURE



*如有其他需求, 请咨询我们。
Other Requirements, Please Consult Us.

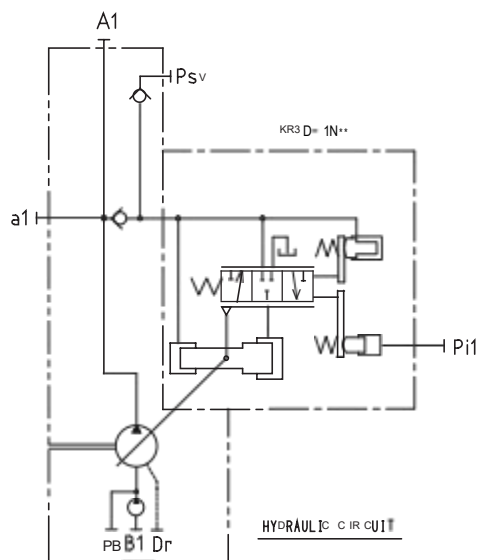
输入轴 SHAFTEND	齿数 No. of Teeth	分度圆直径 Pitch Circle Dia	压力角 Pressure Angle	模数 Module	标准 Rul
	24	φ48	30 °	2	DIN5480
齿轮泵 GearPump	齿数 No. of Teeth	分度圆直径 Pitch Circle Dia	压力角 Pressure Angle	模数 Module	标准 Rul
	13	φ20.638	30 °	16/32	SAE



FRANK

K3V280SH单泵

K3V/K5V SINGLE PUMP



注：样本仅示例1N控制方式的K3V280SH泵。Note: the sample is only the K3V280SH pump in the example1N control mode

产品简介/INTRODUCTION

K3V280SH系列单泵为斜盘式轴向柱塞泵，具有多种控制方式可选，主要控制方式有正流量控制、负流量控制、恒功率控制、压力切断控制、电比例排量控制、负载敏感控制等。带有通轴驱动接口，主泵后面可以串接其他的泵。具有功率密度高、自吸能力强、寿命长、可靠性高、噪音低等特点。适用于各类开式液压回路的工程机械，如工业设备、混凝土设备、钻机等。

K3V280SHseries single pump is swash plate axial piston pump, with a variety of control options, the main control methods are positive flow control, negative flow control, constant power control, pressure cut-off control, electric proportional displacement control, load-sensitive control. With an axle drive interface, other pumps can be connected at the back of the main pump. It has the characteristics of high power density, strong self suction ability, long life, high reliability and low noise. Suitable for all kinds of open hydraulic circuit construction machinery, such as industrial equipment, concrete equipment, drilling machine etc.

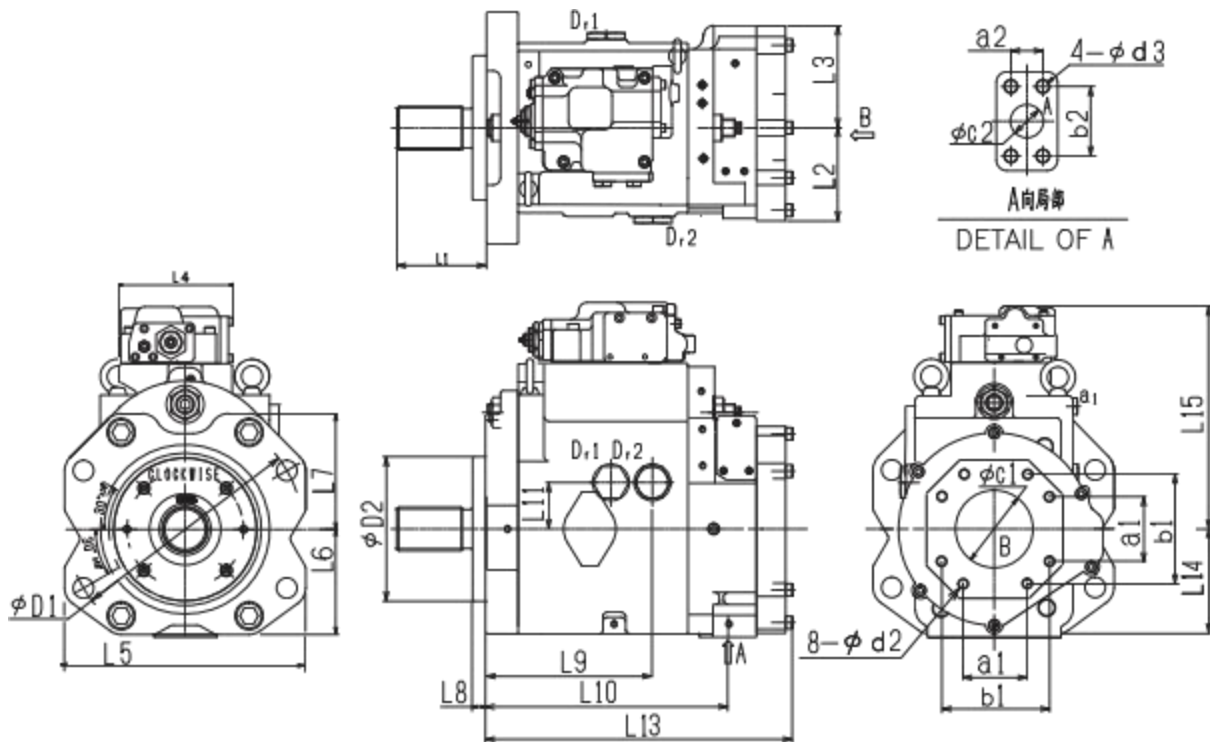
性能参数/SPECIFICATIONS

型号 TYPE		K3V280SH
排量 Displacement(mL/r)		280
转速范围 Speed Range (min/r)	最高 Max.	2000
	自吸最高 Max. Self Priming	2000
压力Pressure (MPa)	额定 Rated	34.3
	最高 Peak	39.2
最大输入扭矩 Max. Input Torque (N.m)		1950

K3V280SH单泵

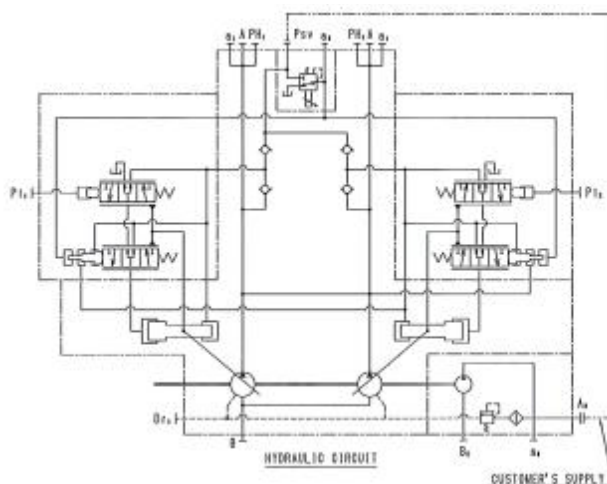
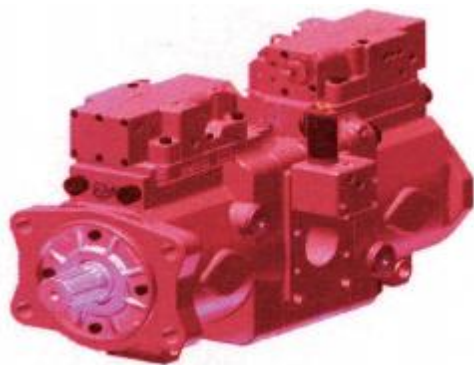
K3V/K5V SINGLE PUMP

K3V280SH结构图/STRUCTURE



*如有其他需求, 请咨询我们。
Other Requirements, Please Consult Us.

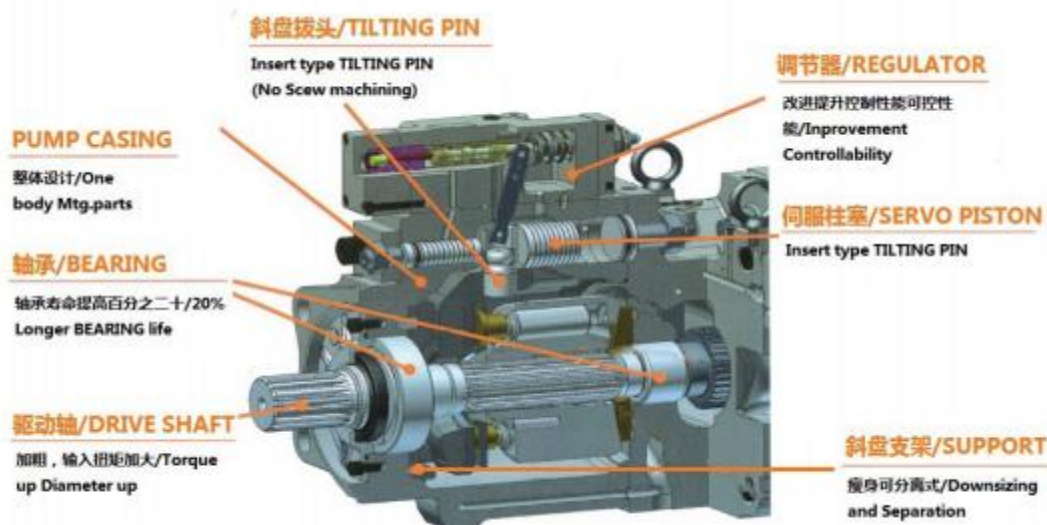
尺寸代号 DIMENSION CODE	D1	D2	d1	L1	L2	L3	L4	L5	L6	L7
尺寸 DIMENSION	300	200	26	120	118	135	144	300	127	140
尺寸代号 DIMENSION CODE	L8	L9	L10	L11	L12	L13	L14	L15	-	-
尺寸 DIMENSION	9	343	203	70	-	428	135	286	-	-
尺寸代号 DIMENSION CODE	a1	b1	c1	d2	a2	b2	c2	d3	-	-
尺寸 DIMENSION	69.9	120.7	80	M12-20	31.8	66.7	32	M12-20	-	-
输入轴 SHAFT END	齿数 No. of Teeth		分度圆直径 Pitch Circle Dia		压力角 Pressure Angle		模数 Module		标准 Rul	
	18		φ54		20°		3		JIS	
	28		φ56		30°		2		DIN5480	



产品简介/INTRODUCTION

K7V125串联双泵具有多种控制方式可选，可以加装PTO传动箱，适用于22T吨级液压式挖掘机，它们也适用于其他各类开式液压回路，如混凝土设备、钻机等。采用最新技术使得功率密度、效率、寿命、控制性能、可靠性进一步优化。

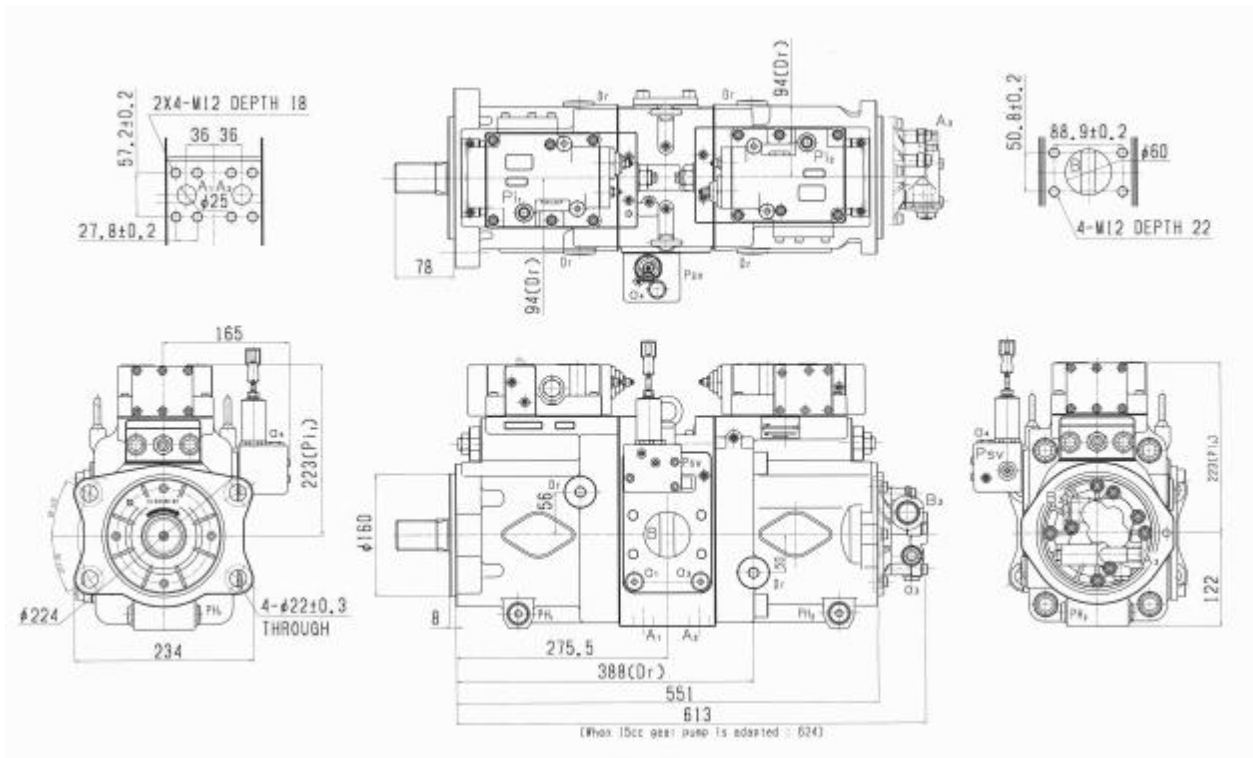
K7V125 series double pump has a variety of control options, can be installed PTO transmission box, suitable for 22T tonnage hydraulic excavators, they are also applicable to other types of open hydraulic circuits, such as concrete equipment, drilling rigs. With the latest technology, power density, efficiency, life, control performance and reliability are further optimized.



K7V125系列轴向柱塞泵

F7V125 Series Axial Piston Pump

K7V125结构图/STRUCTRE



*如有其他需求, 请咨询我们。
Other Requirements, Please Consult Us.

性能参数 / SPECIFICATIONS

型号TYPE				K7V125	
排量 Displacement (mL/r)				125 (Max.130)	
转速范围 Speed Range (min/r)		最高		2700	
		自吸最高 Max. Self Priming		2360	
压力 Pressure (MPa)		额定 Rated		35	
		最高 Peak		40	
最大输入扭矩 Max. Input Torque (N.m)				902	
PTO最大输入扭矩 Max. Input Torque of PTO(N.m)				294	
输入轴 SHAFT END	齿数 No. of Teeth	分度圆直径 Pitch Circle Dia	压力角 Pressure Angle	模数 Module	标准 Rul
	14	φ35	20 °	2.5	JIS

F5SP系列液压泵，由一个斜盘式轴向柱塞泵（一个回转体，两个出油口）和一个双联齿轮泵组成，主要应用于5-8T液压挖掘机。F5SP系列液压泵是在市场上现有产品的基础上进行了全面优化升级后的最新产品，产品主要特点：

1.增大主泵排量

供给系统更多的流量，动作速度更快。

2.优化缸体-配流盘摩擦副

缸体-配流盘摩擦副采用球面结构，提高主泵容积效率和可靠性。

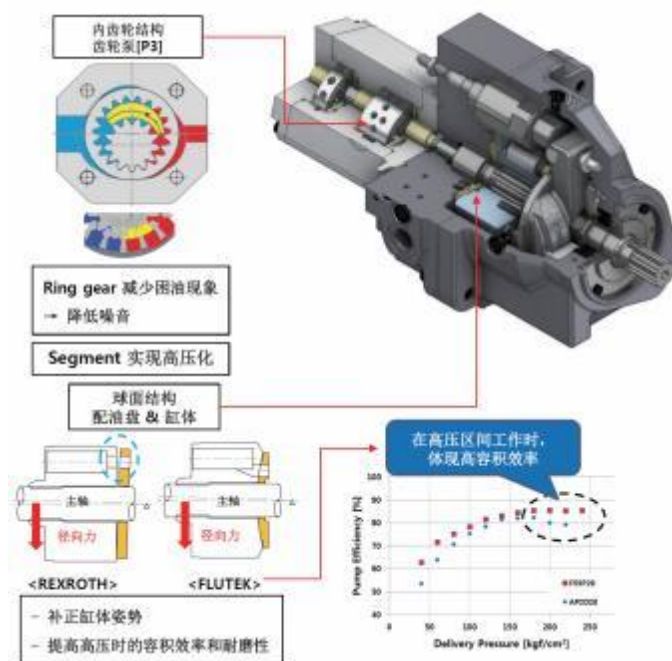
3.优化P3齿轮泵

采用新技术减少困油现象、降低噪音，可以承受更高压力。

F5SP series hydraulic pumps consist of a swashplate axial piston pump (one rotary body, two oil outlets) and a double gear pump, mainly used in 5-8T hydraulic excavators. F5SP series hydraulic pumps are the latest products which have been optimized and upgraded on the basis of existing products on the market.

1. Increase the main pump displacement. The system has more flow and faster action.
2. Optimize the friction pairs of cylinder block and distributor plate. The spherical structure is applied to the friction pairs of the cylinder block and the distributor plate to improve the volume efficiency and reliability of the main pump.
3. Optimize P3 gear pump.

Adopting new technologies to reduce trapped oil and reduce noise can withstand higher pressure.



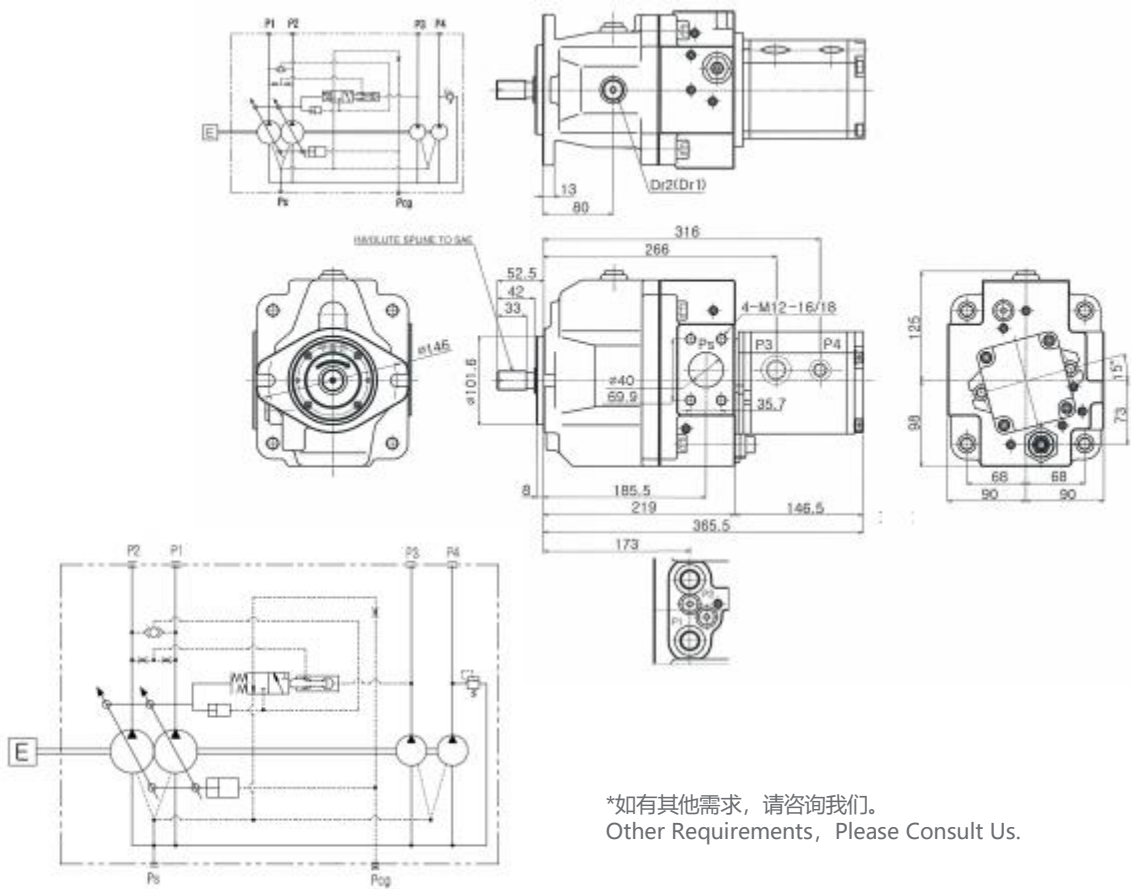
性能参数 / SPECIFICATIONS

型号 Type		F5SP28
排量 Displacement (cm ³)	P1、P2	28(Max.28)
	P3	18.3
	P4	4.6
压力 Pressure (MPa)	P1、P2	21.6
	P3	21.6
	P4	2.9
最高速度 Max. Speed (min) ⁻¹		2200
控制方式 Control Mode		恒功率控制

F5 SP28系列轴向柱塞泵

F5SP28 Series Axial Piston Pump

F5 SP28结构图/STRUCTRE



*如有其他需求，请咨询我们。
Other Requirements, Please Consult Us.

油口 PORT	P4、Dr1、Dr2		P1、P2、P3		Ps
尺寸 SIZE	G 1/4 - 15		G 1/2 - 19		SAE ST'D PRESS 2" ' "
输入轴 SHA FTEND	齿数 No. of Teeth	分度圆直径 Pitch Circle Dia	压力角 Pressure Angle	模数 Module	标准 Rul
	13	φ 20.638	30 °	16/32	SAE

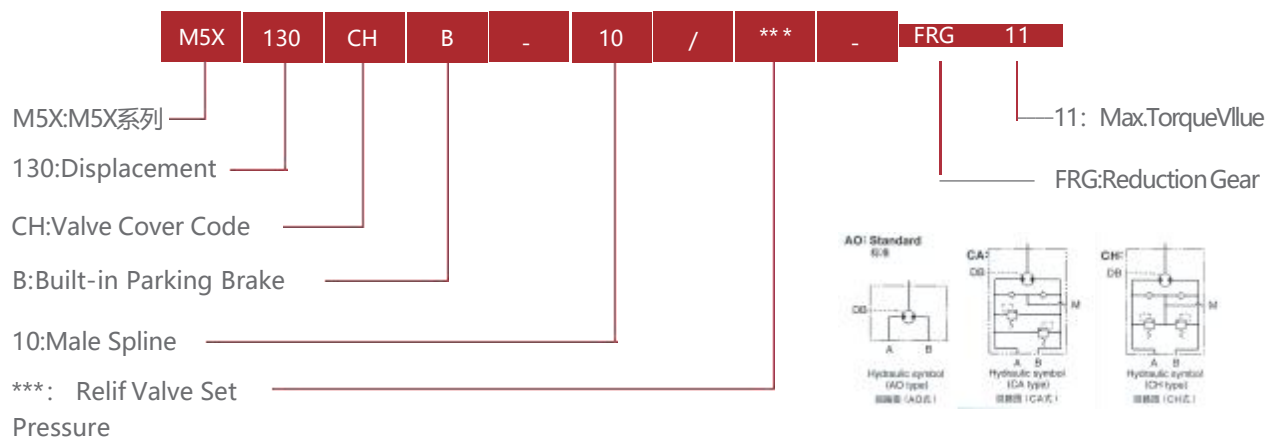
产品简介/INTRODUCTION

M5X-FRG系列回转驱动装置由斜盘式柱塞马达和二级行星减速器组成，马达内置有安全溢流阀、补油阀、防回转阀、机械式停车制动器。结构紧凑，模块化设计，性能优异，安全可靠，主要应用于20-50T挖掘机回转驱动。

The M5X-FRG series swing device consists of aswash plate axial piston motor and a two stage planetary reducer. The motor has safe relief valve, oil filling valve, anti rotary valve and mechanical parking brake. Compact structure, modular design, excellent performance, safe and reliable, mainly used in 20-50 T excavator rotary drive.



型号代码/Ordering Code



性能参数/SPECIFICATIONS

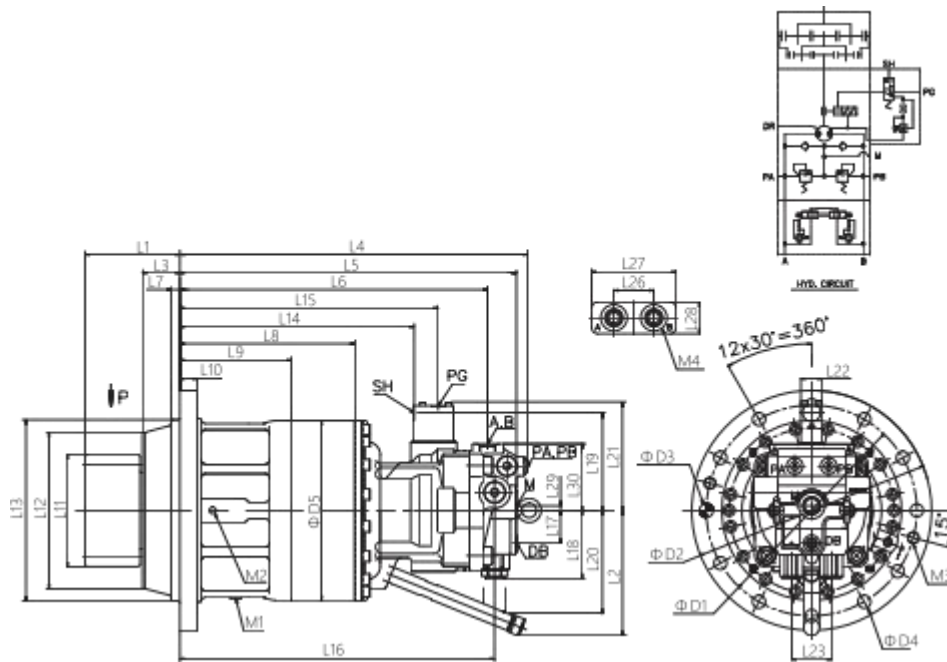
型号	M5X130			M5X180		
排量 displacement (cm ³)	121.6	129	129.2	148.5	169.4	180.1
压力 pressure (MPa)	额定 Rate	34.3				
	最高 Max.	41.2				
最高转速 Max. Speed (min ⁻¹)	1850			1680		
制动扭矩 Max. Brake Torque(N.m)	874			1210		

型号Type	M5X130 - RG11	M5X130 - RG14	M5X180 - RG14	M5X180 - RG20
排量 Displacement (cm)	2388	2437	3395	4540
压力 Pressure (MPa)	26	26	26	26
理论输出扭矩 Theoretical Output Torque(N.m)	11000	11700	13800	18800
减速比 Reduction Ratio	19.636	20.04	20.04	25.2
最高输出转速 Max. speedmin ⁻¹	92	92	84	67

M5X130 - FRG11系列回转装置

M5X130 - FRG11 Swing Device

M5X130-FRG11结构图/STRUCTRE



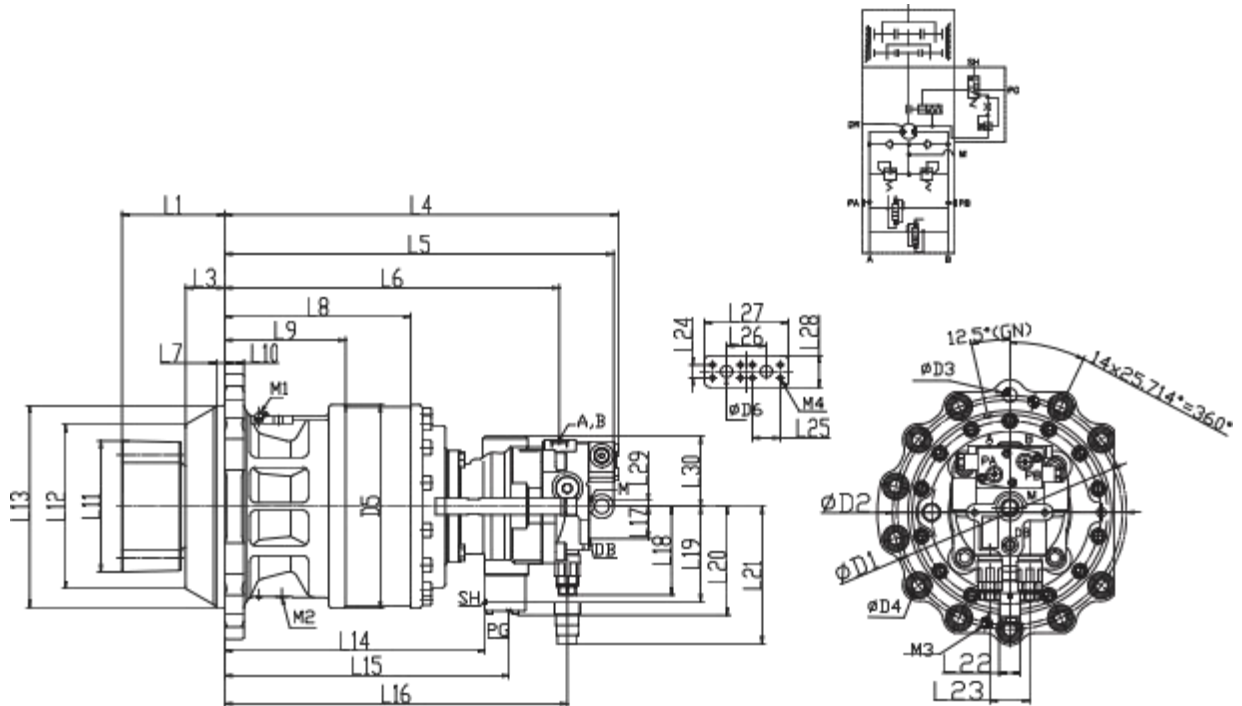
*如有其他需求，请咨询我们。
Other Requirements, Please Consult Us.

尺寸代号 DIMENSION CODE	D1	D2	D3	D4	D5	M1	M2	M3	M4	L1
尺寸 DIMENSION	Φ360	Φ410	Φ24	11-Φ22	Φ307	Rc3/4	Rc3/8	2-M20	2-PF3/4	162
尺寸代号 DIMENSION CODE	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11
尺寸 DIMENSION	98	64	600	575	526	15	299	190.5	30	192
尺寸代号 DIMENSION CODE	L12	L13	L14	L15	L16	L17	L18	L19	L20	L21
尺寸 DIMENSION	268	310	400.5	441.5	538	56	116	167	176	185
尺寸代号 DIMENSION CODE	L22	L23	L24	L25	L26	L27	L28	L29	L30	-
尺寸 DIMENSION	36	68	-	-	68	144	54	8	114	-
输出轴 SHAFT END	齿数 No. of Teeth		分度圆直径 Pitch Circle Dia		压力角 Pressure Angle		模数 Module		标准 Rule	
	13		φ 156		20°		12		JIS	

M5X130 - FRG14 系列回转装置

M5X130 - FRG14 Swing Device

M5X130-FRG14结构图/STRUCTRE



*如有其他需求，请咨询我们。
Other Requirements, Please Consult Us.

尺寸代号 DIMENSION CODE	D1	D2	D3	D4	D5	M1	M2	M3	M4	L1
尺寸 DIMENSION	Φ385	Φ400	Φ24	11-Φ20	Φ344	PT1/4	Rc1/2	2-M20	2-G3/4	175.5
尺寸代号 DIMENSION CODE	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11
尺寸 DIMENSION	100.5	67	673	665	573.5	17	318.5	207	33	224
尺寸代号 DIMENSION CODE	L12	L13	L14	L15	L16	L17	L18	L19	L20	L21
尺寸 DIMENSION	278	345	448	489	585.5	56	151	167.5	185.5	224
尺寸代号 DIMENSION CODE	L22	L23	L24	L25	L26	L27	L28	L29	L30	
尺寸 DIMENSION	36	68	-	-	68	144	54	8	120	
输出轴 SHAFT END	齿数 No. of Teeth		分度圆直径 Pitch Circle Dia		压力角 Pressure Angle		模数 Module		标准 Rule	
	11		φ 176		20°		16		JIS	



FRANK

M5X130系列回转装置

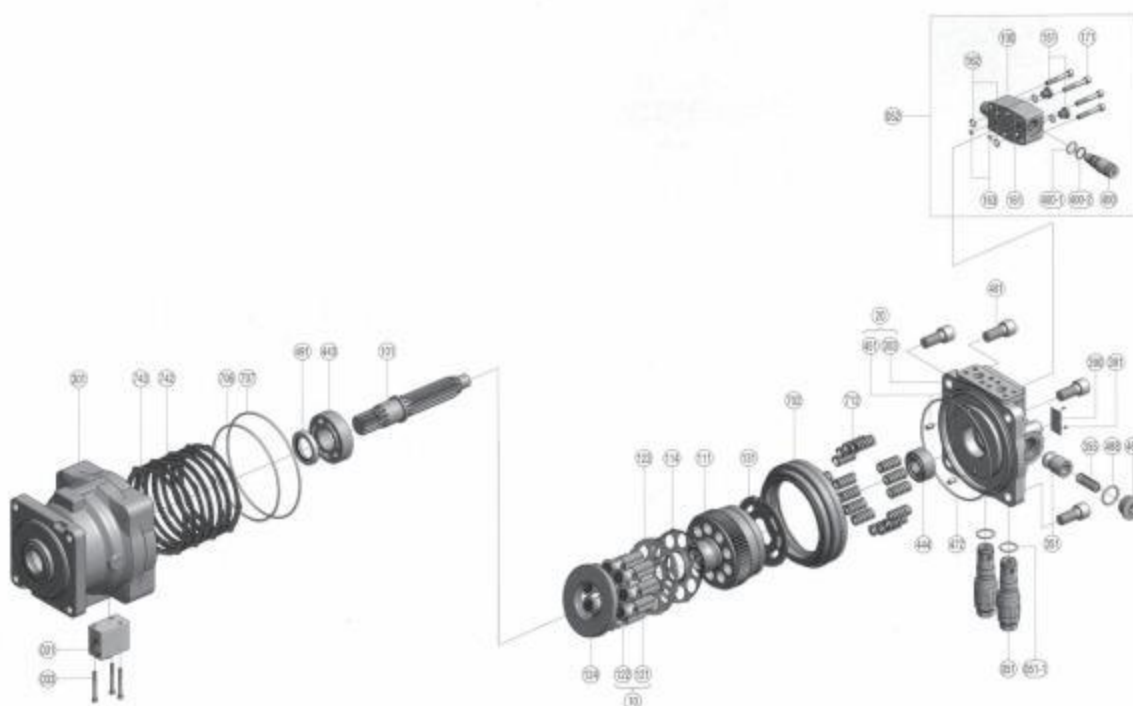
M5X130 Swing Device

M5X130马达配件表/PARTS

No.	Part Name	Part Number	Q' ty/set	Remarks	No.	Part Name	Part Number	Q' ty/set	Remarks
10	PISTON ASSY'S	37061123-2073	1ST		444	ROLLER BEARING	PNJ2304EHT	1	
303	VALVE CASING H2	3723230-0225	1		469	ROMH PLUG	0E0MH30	2	
	VALVE CASING H4	3723230-0435	1		472	O-RING	00RWG40W	1	
	VALVE CASING H0	3723230-0184	1	*	488	O-RING	00RBP28	2	
	VALVE CASING H1	3723230-0178	1	*	491	OIL SEAL	PTCZ35MV	1	
451	SPRING PIN	OSP614	2		702	BRAKE PISTON	3724510-0011	1	
101	DRIVE SHAFT	3724350-0367	1		706	O-RING	00RG38		
111	CYLINDER BLOCK	372370-0914	1		707	O-RING	00RG41	1	
114	SPRING PLATE	3703330-0017	1		712	BRAKE SPRING	3703340-0660	29	
123	SET PLATE	3724110-0044	1		742	FRICTION PLATE	3724730-0008	3	
124	SHOE PLATE	3724670-0048	1		743	SEPARATOR PLATE	3724690-0008	4	
131	VALVE PALITEA	3724710-0946	1		031	TIME DELAY VALVE	37024900336P	1ST	*
301	CASING E1	3724710-0620	1	*		TIME DELAY VALVE	3702490-1721P	1ST	*
	CASING E2	3724710-0621	1	*	033	HEX SOCKET BOLT	05BM670	3	
351	PLUNGER H	3753700548	2		051	RELIEF VALVE	V2CSG2	2ST	*
355	SPRINGH	3753700549	2			RELIEF VALVE	V2CSJ	2ST	*
390	NAME PLATE	PNPF-2591	1			RELIEF VALVE	V2CW	2ST	*
391	PIN(NAME PLATE)	OSK2548	2		052	S.R.V VALVE ASSY'S	V9409216208	1ST	*
401	HEX SOCKET BOLT	OSBM2045	4			S.R.V VALVE ASSY'S	V0603298185	1ST	*
443	ROLLER BEARING	PNJ307EW	1			S.R.V VALVE ASSY'S	V0603248163	1ST	*
						S.R.V VALVE ASSY'S	50070627-4382	1ST	*

*请查清马达或挖掘机型号，并咨询我们。

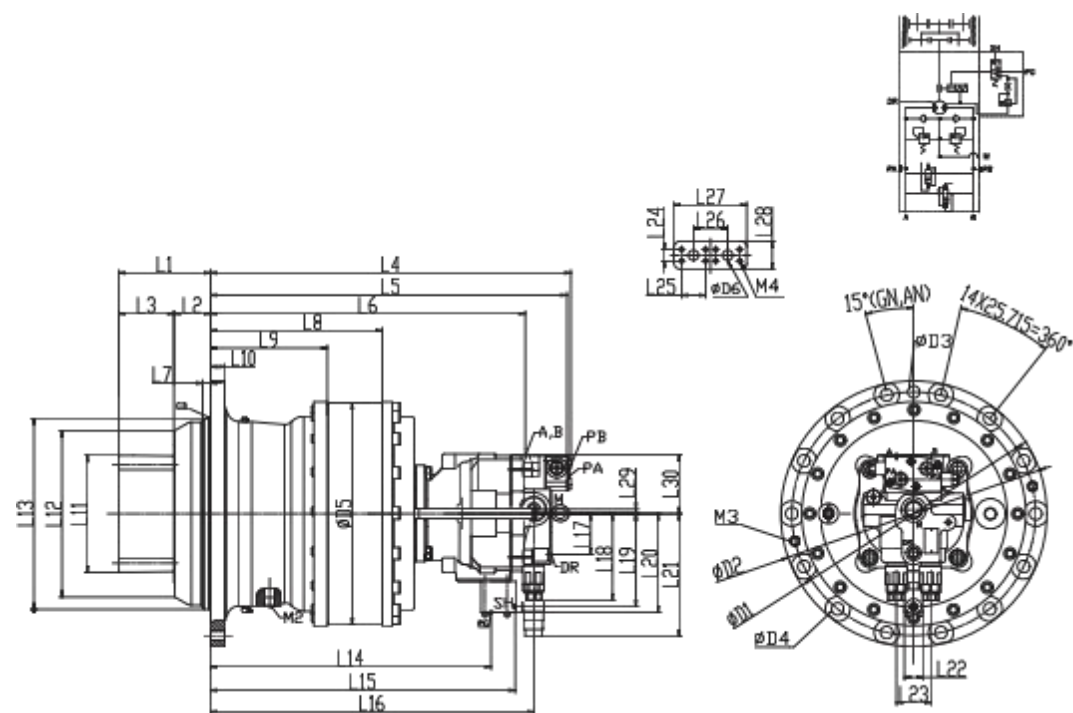
Check the Motor or Excavator Model and contact us with inquiries.



M5X180 - FRG20系列回转装置

M5X180 - FRG20 Swing Device

M5X180-FRG20结构图/STRUCTRE



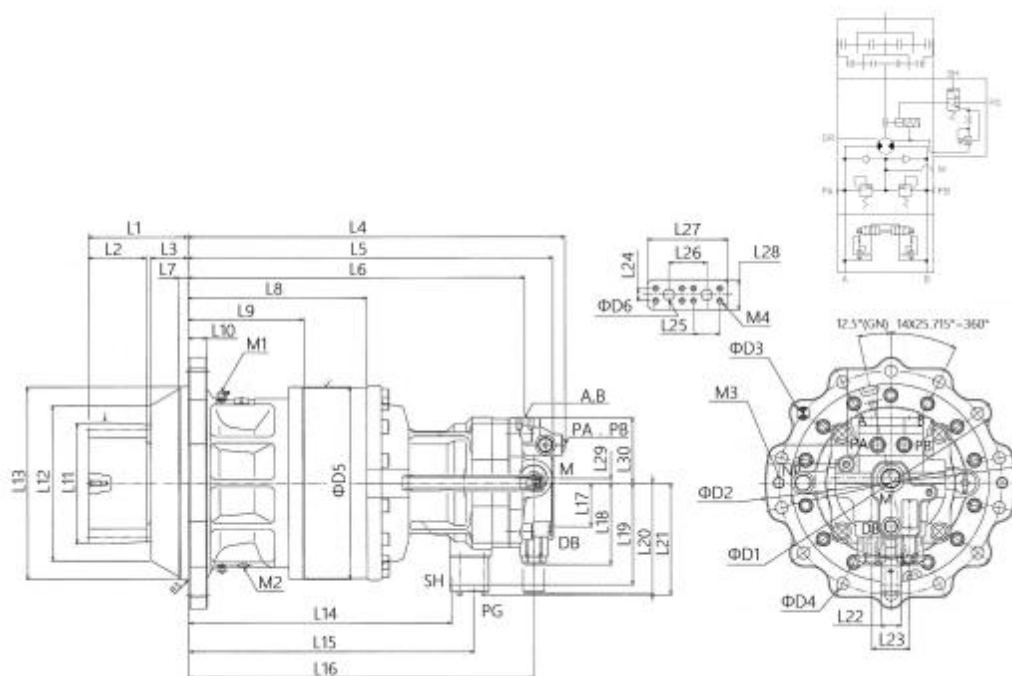
*如有其他需求，请咨询我们。
Other Requirements, Please Consult Us.

尺寸代号 DIMENSION CODE	D1	D2	D3	D4	D5	M1	M2	M3	M4	L1
尺寸 DIMENSION	484	528		14-Φ25	445	-	2-M20	2-M20	2-G3/4	182
尺寸代号 DIMENSION CODE	L2	L3	L4	L5	L6	L7	L9	L9	L10	L11
尺寸 DIMENSION	110	70	714.5	706.5	624.5	15	204.5	204.5	30	236
尺寸代号 DIMENSION CODE	L12	L13	L14	L15	L16	L17	L19	L19	L20	L21
尺寸 DIMENSION	331	380	561	602.5	640.5	78	182.5	182.5	245	200.5
尺寸代号 DIMENSION CODE	L22	L23	L24	L25	L26	L27	L29	L29	L30	
尺寸 DIMENSION	36	68	22.2	47.6	68	144	8	8	117	
输出轴 SHAFT END	齿数 No. of Teeth		分度圆直径 Pitch Circle Dia		压力角 Pressure Angle		模数 Module		标准 Rule	
	14		φ196		20°		14		JIS	
	11		φ176		20°		16		JIS	

M5X180 - FRG14系列回转装置

M5X180 - FRG14 Swing Device

M5X180-FRG14结构图/STRUCTRE

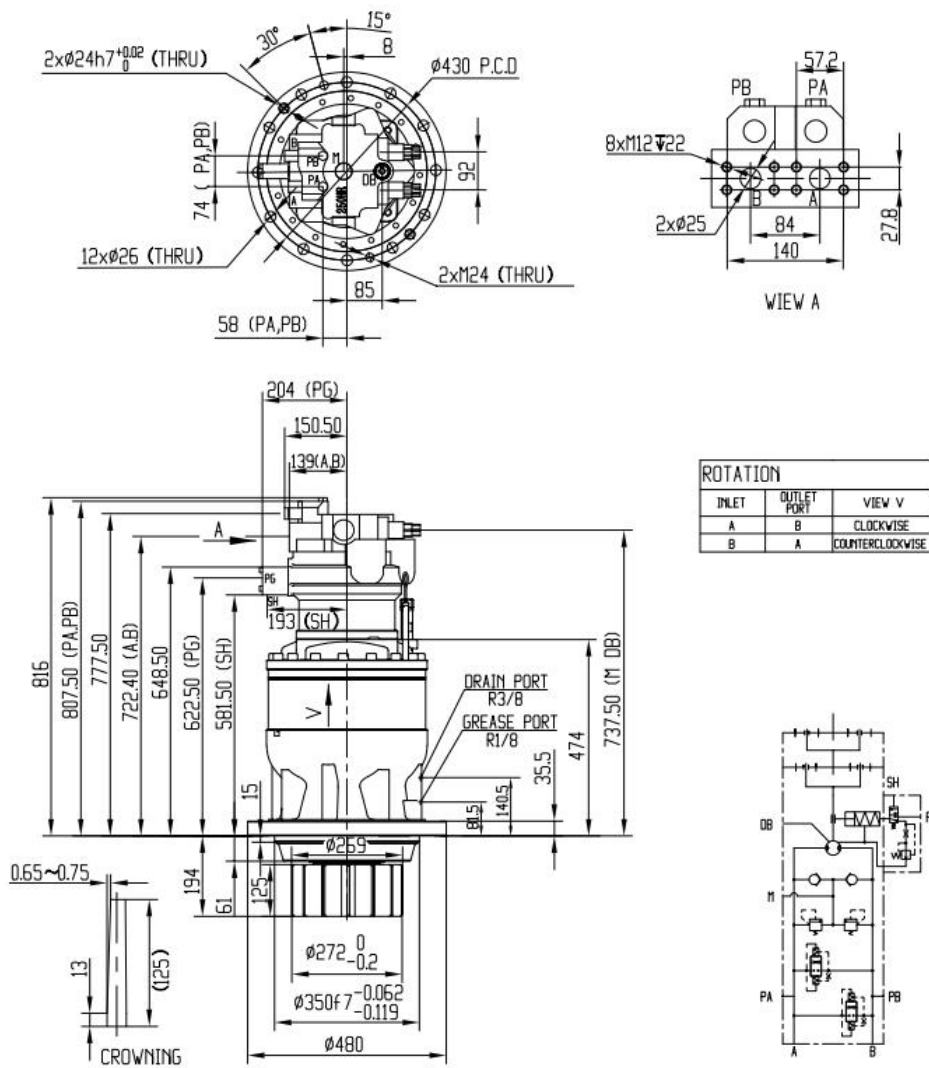


*如有其他需求, 请咨询我们。
Other Requirements, Please Consult Us.

尺寸代号 DIMENSION CODE	D1	D2	D3	D4	D5	M1	M2	M3	M4	L1
尺寸 DIMENSION	Φ360	Φ410	Φ24	11-Φ22	Φ307	Rc3/4	Rc3/8	2-M20	2-PF3/4	179
尺寸代号 DIMENSION CODE	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11
尺寸 DIMENSION	104	67	853	668	602	15	299	190.5	30	216
尺寸代号 DIMENSION CODE	L12	L13	L14	L15	L16	L17	L18	L19	L20	L21
尺寸 DIMENSION	278	345	470	511	617	56	116	167	176	185
尺寸代号 DIMENSION CODE	L22	L23	L24	L25	L26	L27	L28	L29	L30	-
尺寸 DIMENSION	36	68	-	-	68	144	54	8	114	-
输出轴 SHAFT END	齿数 No. of Teeth		分度圆直径 Pitch Circle Dia		压力角 Pressure Angle		模数 Module		标准 Rule	
	15		φ180		20°		12		JIS	

M5X250 - FRG24 Swing Device

M5X250-FRG24结构图/STRUCTRE



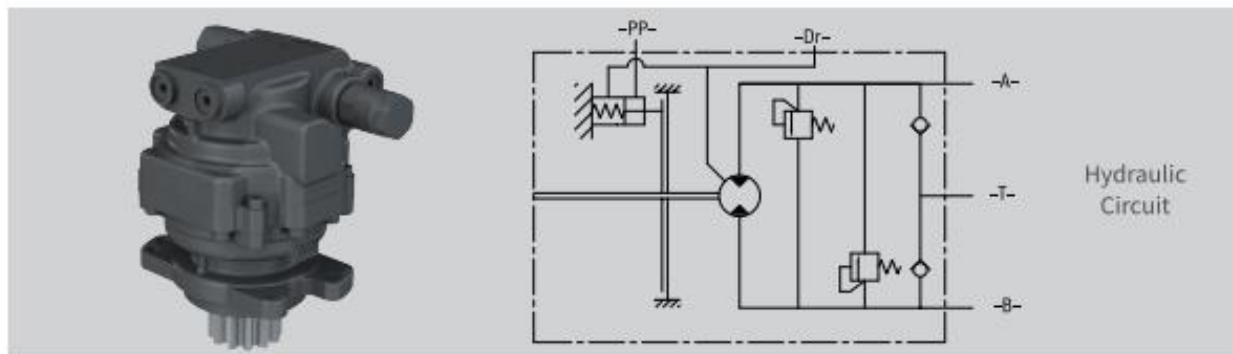
*如有其他需求, 请咨询我们。
Other Requirements, Please Consult Us.

输出轴 SHAFT END	齿数 No. of Teeth	分度圆直径 Pitch Circle Dia	压力角 Pressure Angle	模数 Module	标准 Rule
	14	Φ224	20°	16	JIS

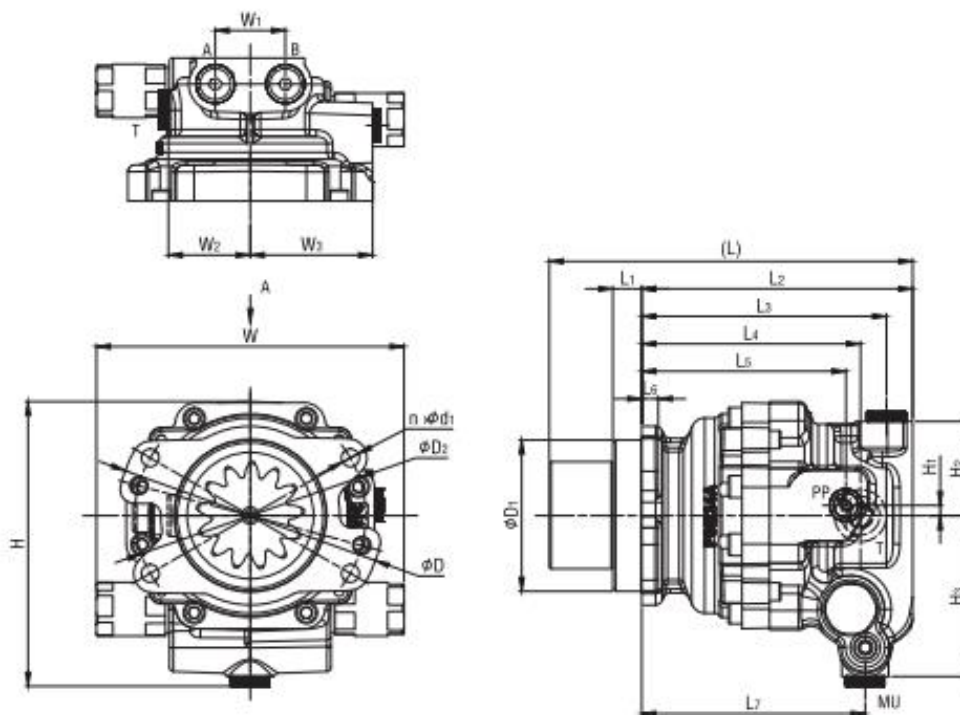
F5X80 - FRG70 Swing Device

[illegible]

输出轴 SHAFT END	齿数 No. of Teeth	分度圆直径 Pitch Circle Dia	压力角 Pressure Angle	模数 Module	标准 Rule
	11	Φ110	20°	10	JIS



A View: Inlet/Outlet Port



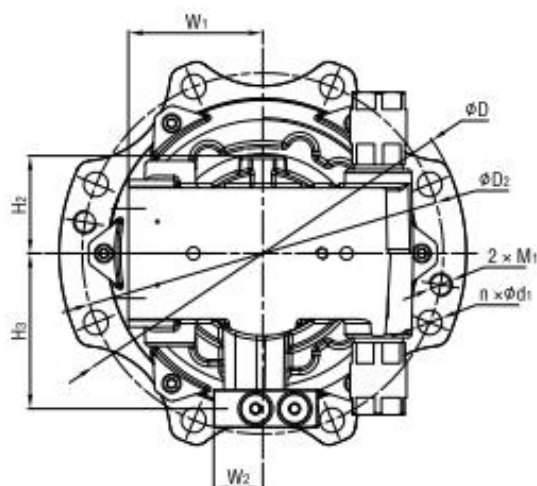
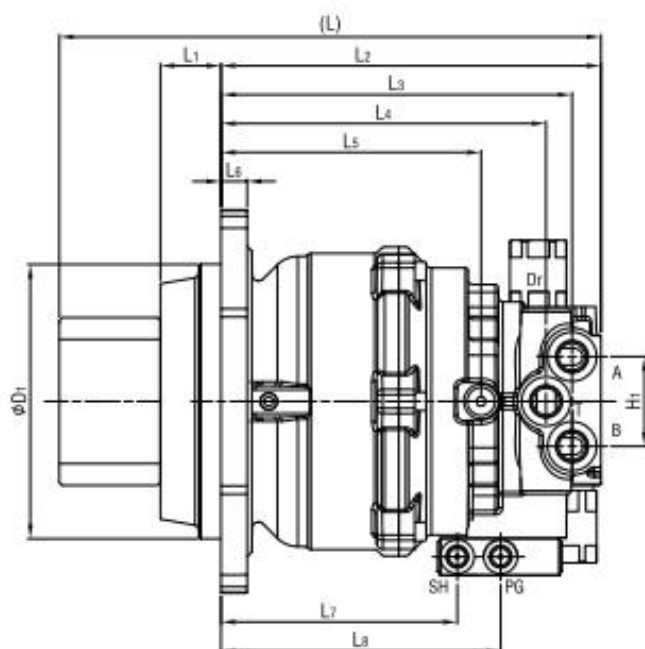
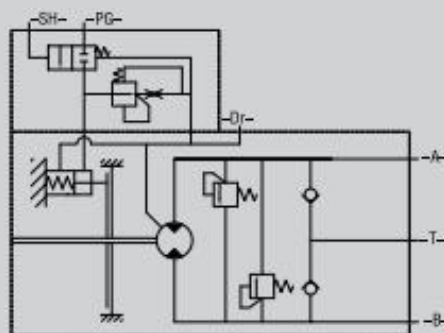
Size

Model	L	L1	L2	L3	L4	L5	L6	L7	H	H1	H2	H3
FSM24A0P6	264	21	197	178	159	148	12	162	207	8	68	117
FSM12A01	285	43	189	168	159	149	18	150	-	51	66	88
FSM18A1P5	321	32	227	199	190	146	16	208	-	51	62	-
Model	W	W1	W2	W3	D	D1	D2	d1	A/B	PP	MU	T
FSM24A0P6	224	51	60	89	Φ193	Φ110	Φ168	Φ13	PF3/8	PF1/4	PF3/8	PF3/8
FSM12A01	-	82	8	-	Φ242	Φ150	Φ210	Φ17	PF3/8	PF1/4	PF3/8	PF3/8
FSM18A1P5	-	94	83	-	Φ249	Φ175	Φ220	Φ17	PF3/8	PF1/4	PF3/8	PF3/8

Specification

Model	Hydraulic motor					Reducer			Weight (kg)	Application
	Displacement (cc/rev)	Output Speed (rpm)	Max Flow (L/min)	Rated Pressure (MPa)	Brake Torque (N·m)	Gear Ratio (i)	Output Torque (N·m)	Output Speed (rpm)		
FSM24A0P6	23.6	579	14	16.2	68.4	10	527	58	23	1-2t Excavator
FSM12A01	12.5	1488	18.6	18.6	68.4	21.5	796	69	34	2-3t Excavator
FSM18A1P5	18.1	1713	31	20.6	68.4	21.5	1276.5	79.6	37	3-4t Excavator

Hydraulic Circuit

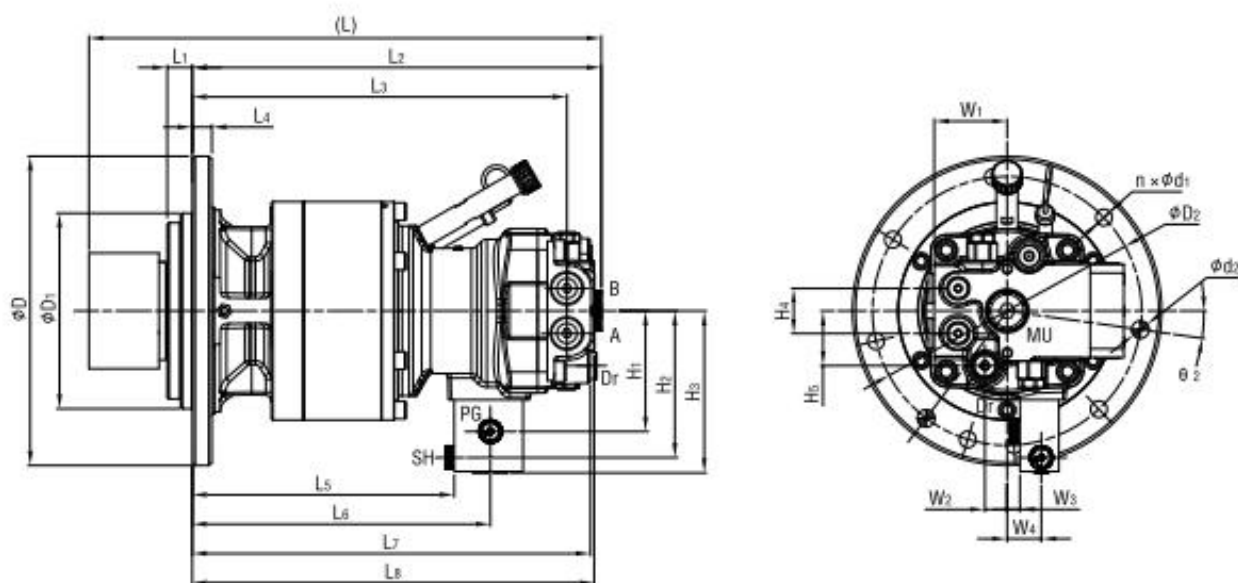
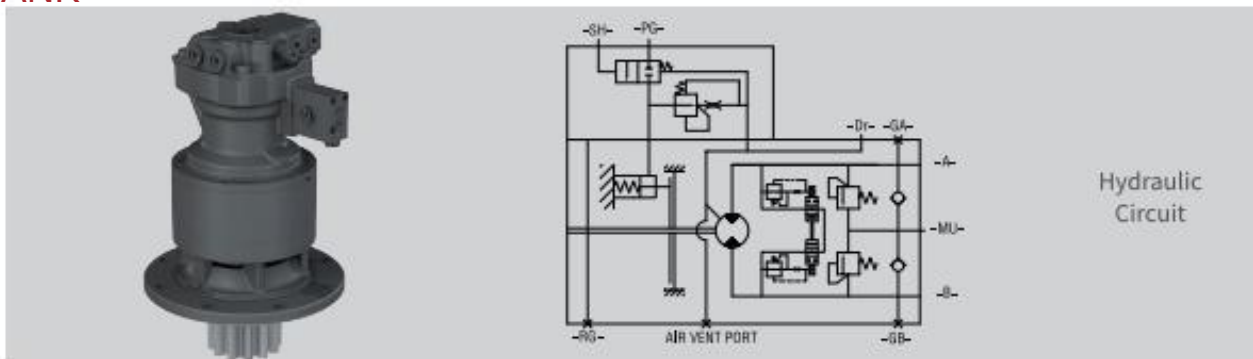


Size

Model	L	L1	L2	L3	L4	L5	L6	L7	L8	H1	H2	H3	W1
FSM28A03	375	42	263	243	225	180	18	164	194	62	68	107	93
Model	W2	D	D1	D2	d1	M1	A/B	PG	SH	PP	T	Dr	
FSM28A03	34	φ282	φ190	φ250	φ17	M16	PF1/2	PF1/4	PF1/4	PF1/4	PF1/2	PF3/8	

Specification

Model	Hydraulic motor					Reducer			Weight (kg)	Application
	Displacement (cc/rev)	Output Speed (rpm)	Max Flow (L/min)	Rated Pressure (MPa)	Brake Torque (N·m)	Gear Ratio (i)	Output Torque (N·m)	Output Speed (rpm)		
FSM28A03	30.5	1573	48	21.6	116	23.2	2320	67.8	53	5-6t Excavator



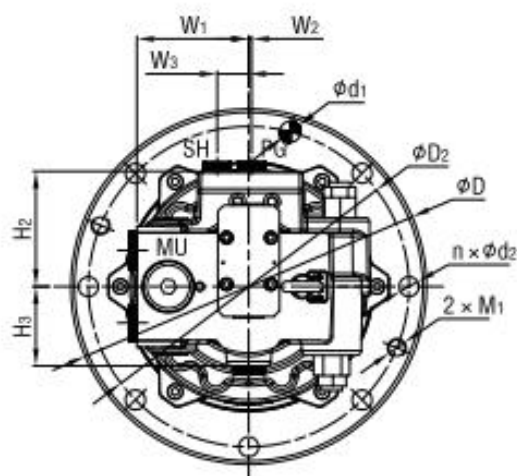
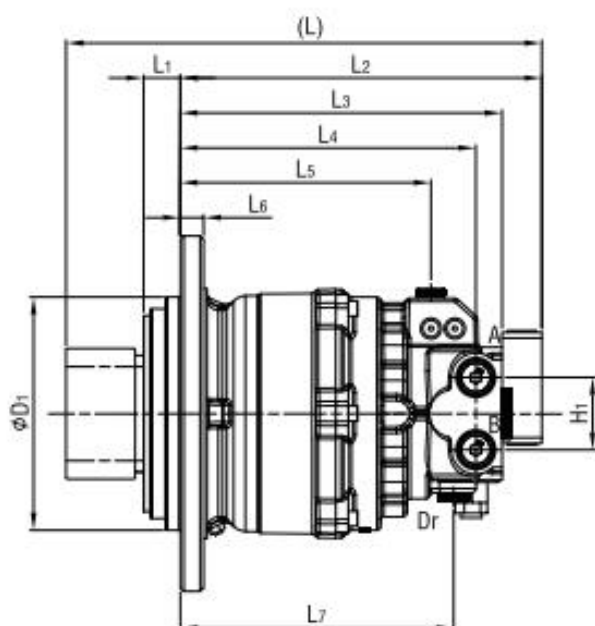
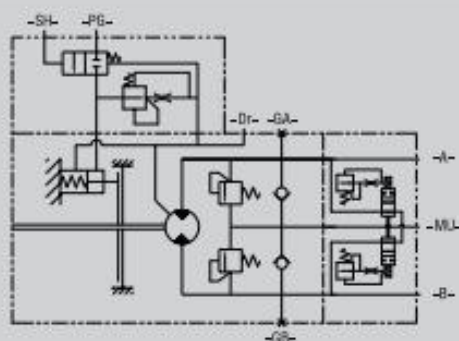
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Model	L	L1	L2	L3	L4	L5	L6	L7	L8	H1	H2	H3	H4	H5
FSM30A03	505	31	407	402	20	258	380	405	-	117	147	160	-	46
FSM48A04	524	25	418	383	20	268	305	407	411	123	150	166	46	56
Model	W1	W2	W3	W4	D	D1	D2	d1	d2	M1	A/B	PG/SH	MU	Dr
FSM30A03	74	25	35	-	$\phi 305$	$\phi 200$	$\phi 275$	$\phi 18$	$\phi 17$	M16	PF1/2	PF1/4	PF3/4	PF3/8
FSM48A04	75	23	13	35	$\phi 316$	$\phi 200$	$\phi 275$	$\phi 18$	$\phi 17$	-	PF1/2	PF1/4	PF3/4	PF3/8

Specification

Model	Hydraulic motor					Reducer			Weight (kg)	Application
	Displacement (cc/rev)	Output Speed (rpm)	Max Flow (L/min)	Rated Pressure (MPa)	Brake Torque (N·m)	Gear Ratio (i)	Output Torque (N·m)	Output Speed (rpm)		
FSM30A03	35.2	1704	60	23	140	19.464	2507	87.5	75	5-6t Excavator
FSM48A04	48	1666.6	80	23.5	185.3	19.464	3496	85.6	77	7-8t Excavator

Hydraulic
Circuit

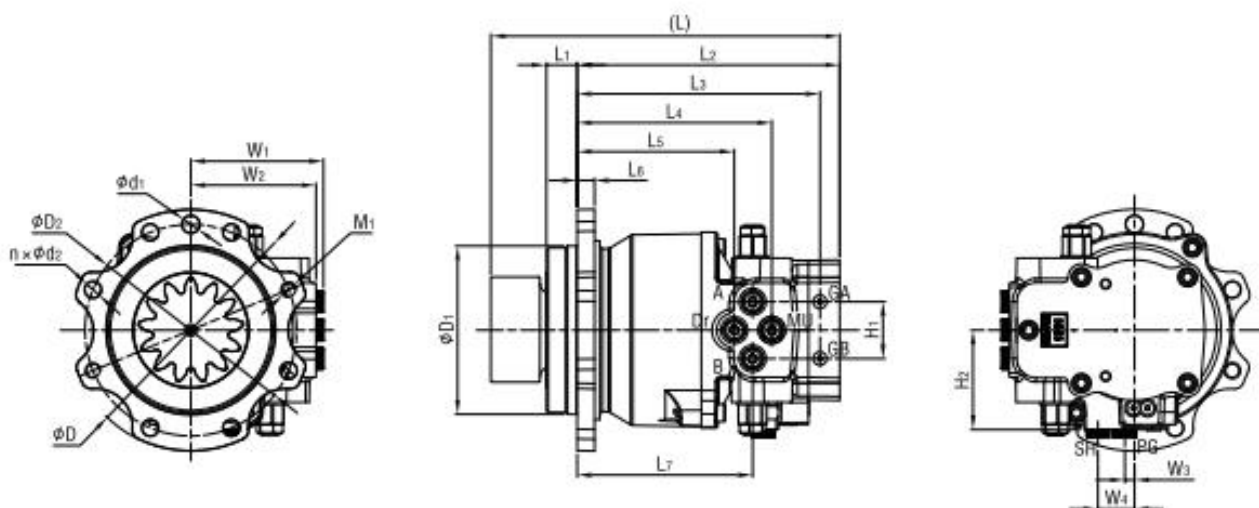
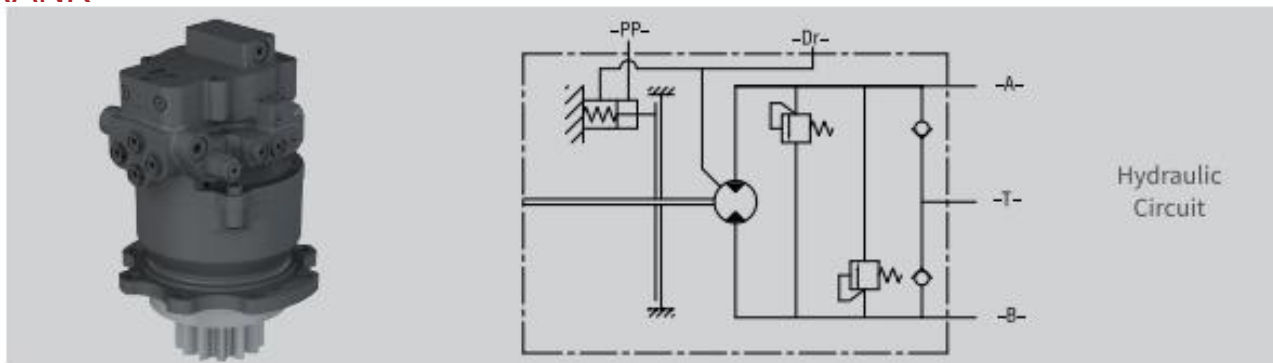


Size

Model	L	L1	L2	L3	L4	L5	L6	L7	H1	H2	H3	W1	W2
FSM30B03	408	31	310	276	254	215	20	235	62	99	68	96	2.5
Model	W3	D	D1	D2	d1	d2	M1	A/B	PG	SH	MU	Dr	
FSM30B03	27	$\phi 305$	$\phi 200$	$\phi 275$	$\phi 18$	$\phi 17$	M16	PF1/2	PF1/4	PF1/4	PF3/4	PF3/8	

Specification

Model	Hydraulic motor						Reducer		Weight (kg)	Application
	Displacement (cc/rev)	Output Speed (rpm)	Max Flow (L/min)	Rated Pressure (MPa)	Brake Torque (N·m)		Gear Ratio (i)	Output Torque (N·m)		
FSM30B03	30	1666	50	21.6	140		23.2	2394	56	5-6t Excavator



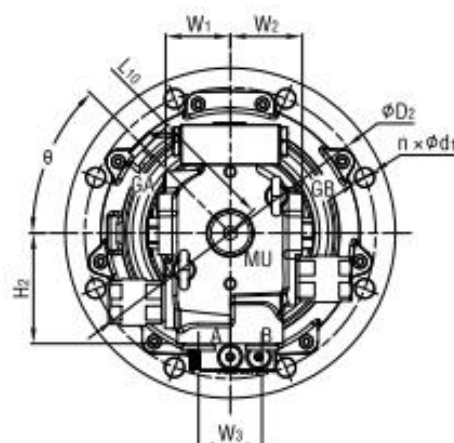
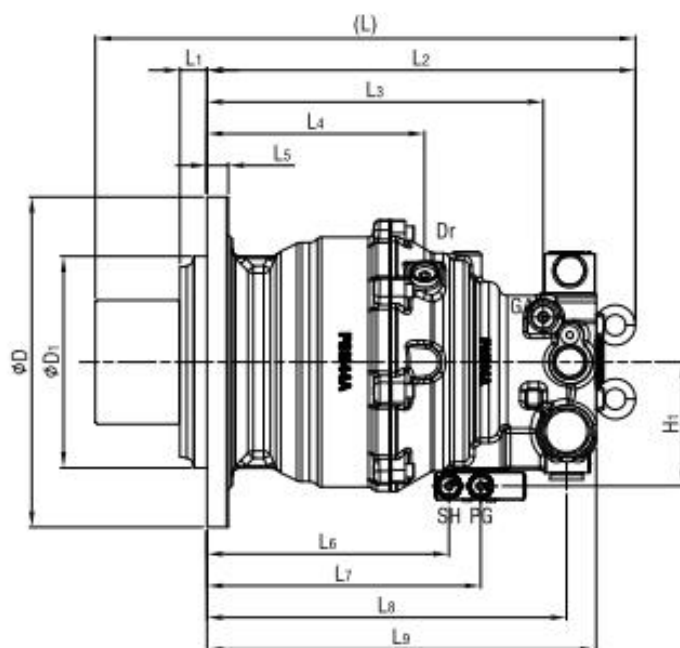
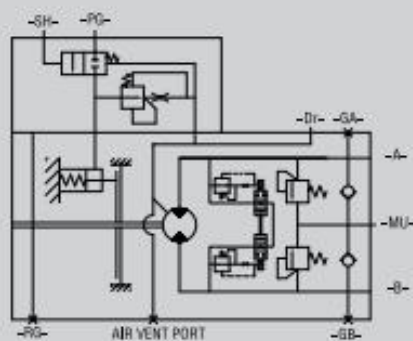
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Model	L	L1	L2	L3	L4	L5	L6	L7	H1	H2	W1	W2
FSM32A03	362	32	273	252	202	163	18	182	59	103	138	130
Model	W3	W4	D	D1	D2	d1	d2	A/B	PG/SH	MU	T	GA/GB
FSM32A03	10	38	$\phi 251$	$\phi 175$	$\phi 220$	$\phi 17$	$\phi 18$	PF3/8	PF1/4	PF3/8	PF3/8	PF1/8

Specification

Model	Hydraulic motor						Reducer			Weight (kg)	Application
	Displacement (cc/rev)	Output Speed (rpm)	Max Flow (L/min)	Rated Pressure (MPa)	Brake Torque (N·m)		Gear Ratio (i)	Output Torque (N·m)	Output Speed (rpm)		
FSM32A03	31.5	1206	38	23.6	124		19.464	2250	62	57	5-6t Excavator

Hydraulic
Circuit

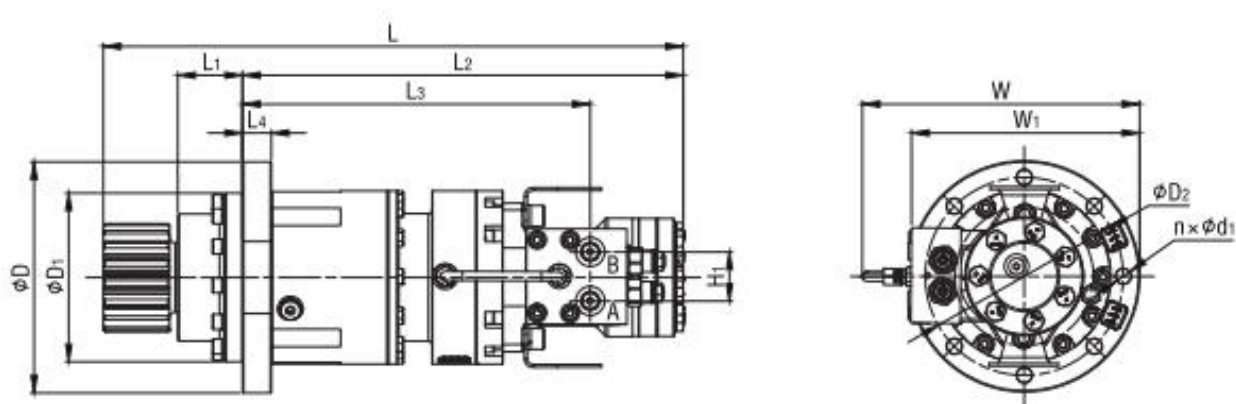
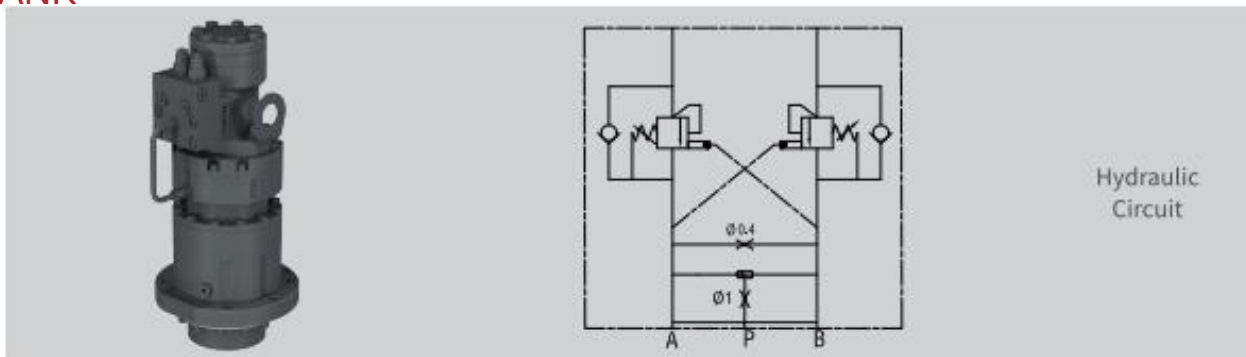


Size

Model	L	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	H1	H2
FSM44A04	511	25	405	318	206	20	229	259	340	368	114	117	105
Model	W1	W2	W3	D	D1	D2	d1	θ	A/B	PG/SH	MU	Dr	GA/GB
FSM44A04	61	68	60	Φ312	Φ200	Φ275	Φ18	45°	PF1/2	PF1/4	PF3/4	PF3/8	PF1/8

Specification

Model	Hydraulic motor						Reducer			Weight (kg)	Application
	Displacement (cc/rev)	Output Speed (rpm)	Max Flow (L/min)	Rated Pressure (MPa)	Brake Torque (N·m)		Gear Ratio (i)	Output Torque (N·m)	Output Speed (rpm)		
FSM44A04	43.4	1244	54	24.5	169		20.9	3537	59.5	80	T-8t Excavator

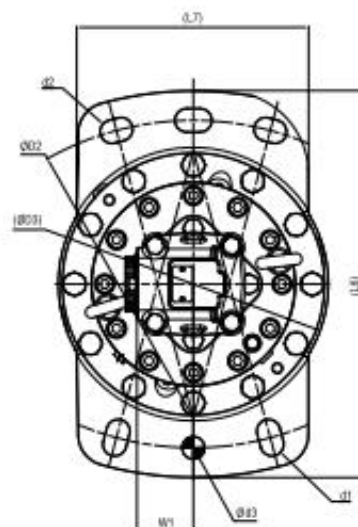
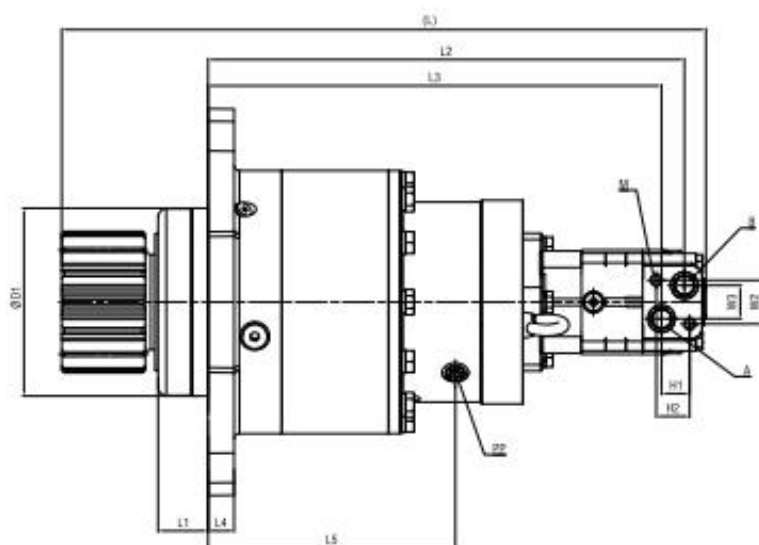
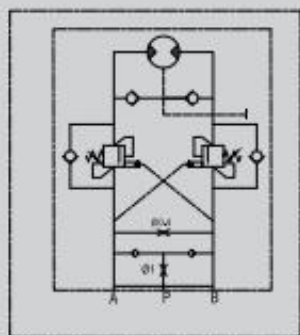


Size

Model	L	L1	L2	L3	L4	W	W1	D	D1	D2	d	A/B
FSA80-18A12	502	56	382	301	25	240	198	Φ200	Φ146	Φ172	Φ14	9/16-18UNF
FSA80-17A36	512	60	358	287	16	-	198	Φ279	Φ218	Φ241	Φ15	9/16-18UNF
FSA100-17A22	521	60	367	288	16	-	238	Φ279	Φ218	Φ241	Φ15	7/16-20UNF

Specification

Model	Hydraulic motor									Reducer				Weight (kg)	Application (t)
	Displacement (cc/rev)	Max Continuous Speed (rpm)	Max Intermittent Speed (rpm)	Continuous Flow (L/min)	Intermittent Flow (L/min)	Continuous Pressure Difference (MPa)	Intermittent Pressure Difference (MPa)	Brake Torque (N·m)	Gear Ratio (i)	Rated Output Torque (N·m)	Max Output Torque (N·m)	Max Continuous Speed (rpm)	Max Intermittent Speed (rpm)		
FSA80-18A12	80	750	940	60	75	20	22.5	150	12	1800	2000	62.5	78.3	27	14m Articulated Boom Lift
FSA80-17A36	80	759	957	60.7	76.6	17.2	20.7	86.7	36	2300	4500	21	26	55	26m Articulated Boom Lift
FSA100-17A22	100	628	786	62.8	78.6	13.8	17.3	86.7	22	1611	2020	28.5	35.7	50	Below 22m Boom Lift



Size

Model	L	L1	L2	L3	L4	L5	L6	H	H1	H2	W
FSA100-45A20	617	48	477	435	22	25	212	371	256	32	256
Model	W1	W2	D1	R1	d1	d2	d3	θ1	θ2	A/B	PP
FSA100-45A20	222.5	54	Φ180	R285	Φ21	22x31	22x35	30°	45°	PF1/2	PF1/4

Specification

Model	Hydraulic motor								Reducer				Weight (kg)	Application (t)	
	Displacement (cc/rev)	Max Continuous Speed (rpm)	Max Intermittent Speed (rpm)	Continuous Flow (L/min)	Intermittent Flow (L/min)	Continuous Pressure (bar/MPa)	Intermittent Flow (MPa)	Brake Torque (N·m)	Gear Ratio (i)	Rated Output Torque (N·m)	Max Output Torque (N·m)	Max Continuous Speed (rpm)			Max Intermittent Speed (rpm)
FSA100-45A20	100	744	887	74.4	88.7	21	27.5	488	20	4450	6650	22	78.3	115	32-38m Boom Lift

产品简介/INTRODUCTION

该系列行走驱动装置由斜盘式柱塞马达和二级行星减速器组成，马达集成了安全溢流阀、平衡阀、机械式停车制动器。F DNB系列行走驱动装置是在市场上现有产品的基础上进行了全面优化升级后的最新产品，

产品主要特点：

1. 优化配流盘、平衡阀、油道

降低噪音及低压脉动，降低压损。

2. 提高驱动效率

采用高效旋转件，新型复合材料的摩擦副。

3. 紧凑型设计

齿宽增大，同等尺寸提供更大扭矩。

4. 优化操控性能

采用防冲击溢流阀，操控性更佳。

This series of travel device consists of swashplate piston motor and two-stage planetary reducer. The motor integrates safety relief valve, balance valve and mechanical parking brake. It is mainly used in 5-10T hydraulic excavator. F DNB series rotary drive device is the latest product which has been optimized and upgraded on the basis of the existing products on the market.

1. Optimize the valve plate, balance valve and oil duct.

Reduce noise and low pressure pulsation, reduce pressure loss..

2, improve driving efficiency

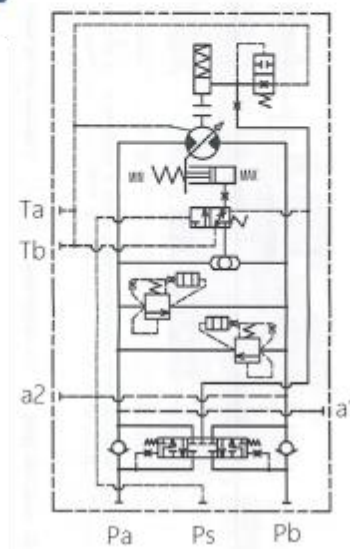
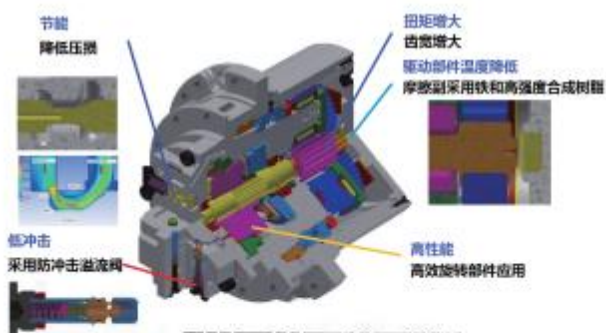
The friction pairs of the new composite material are efficiently rotating.

3. Compact design

The tooth width increases, and the same size provides greater torque.

4, optimize handling performance.

The use of shock relief valve, better handling.



性能参数/SPECIFICATIONS

型号 Type		F DNB08	F DNB12
应用机型 Application Model		5-6 T	8-10 T
最大流量 Max. Flow(L/min)		57.8	55
溢流阀设定压力 Relif Valve Set Pressure(MPa)		21.6	28
马达排量 Motor Displacement(cm ³)	Speed-1	43.1(Max.54.9)	45(Max.54.9)
	Speed-2	22.3	22.9
减速比 Gear Ratio		53.706	53.706
理论输出转速 Theoretical Output Speed(min ⁻¹)	Speed-1	25.9	22.8
	Speed-2	50.1	44.7
理论输出扭矩 Theoretical Output Torque(N.m)	Speed-1	7946.7	10773
	Speed-2	4111.7	5484



F DNB08系列行走裝置

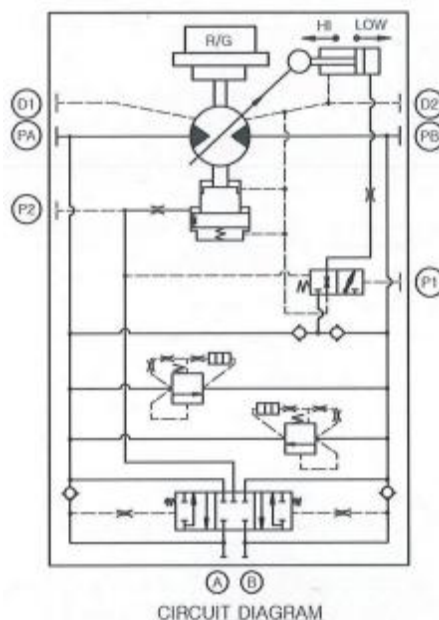
FDNB08结构图/STRUCTRE



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F DNB12 Travel Device

旋向 ROTATION DIRECTION	进油口 INLET PORT	出油口 OUTLET PORT
顺时针 CW	Pa	Pb
逆时针 CCW	Pb	Pa



产品简介/INTRODUCTION

该系列行走驱动装置由斜盘式柱塞马达和二级行星减速器组成，马达集成了安全溢流阀、平衡阀、机械式停车制动器机，具有自动高低速切换、噪音小、结构紧凑重量轻、安全可靠等功能特点。主要应用于13-52T液压挖掘机、钻机、履带吊等。

This series of travel device consists of swashplate piston motor and two-stage planetary reducer. The motor integrates safety relief valve, balance valve and mechanical parking brake. It has the features of automatic high-speed switching, low noise, compact structure, lightweight, safety and reliability. It is mainly used in 13-52T hydraulic excavators, drilling rigs, crawler cranes, etc.

性能参数/SPECIFICATIONS

型号 Type		FDT26	FDT45	FTD48
应用机型 Application Model		13-16t	18-22t	22-26t
最大流量 Max. Flow(L/min)		138.6	252	252
溢流阀设定压力 Relif Valve Set Pressure(MPa)		34.3	34.3	34.3
马达排量 Motor Displacement(cm ³)	Speed-1	92.5(Max.95.34)	Max.180.1	180.1
	Speed-2	50.6	-	-
减速比 Gear Ratio		49.569	45.255	48.939
理论输出转速 Theoretical Output Speed(min ⁻¹)	Speed-1	30.2	-	-
	Speed-2	55.2(Max60)	Max58.8	Max54.2
理论输出扭矩 Theoretical Output Torque(N.m)	Speed-1	25056(Max25800)	Max44520	Max47580
	Speed-2	-	-	-

FTD26 Travel Device

[illegible]

旋向 ROTATION DIRECTION	进油口 INLET PORT	出油口 OUTLET PORT
顺时针 CW	A	B
逆时针 CCW	B	A

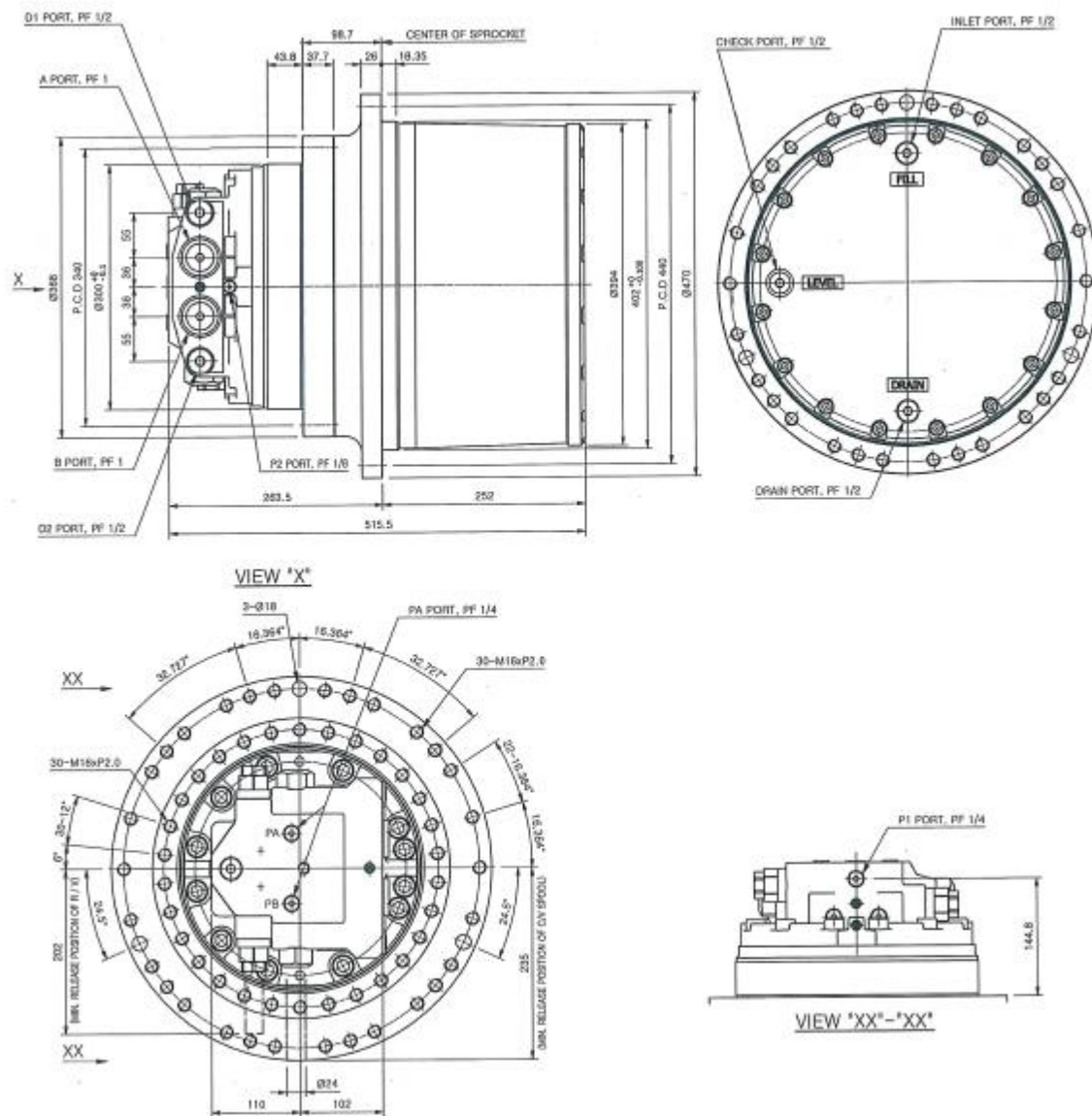


FRANK

FTD45系列行走装置

FTD 45 Travel Device

FTD45/FTD48结构图/STRUCTRE



*如有其他需求, 请咨询我们。
Other Requirements, Please Consult Us.

旋向 ROTATION DIRECTION	进油口 INLET PORT	出油口 OUTLET PORT
顺时针 CW	A	B
逆时针 CCW	B	A

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