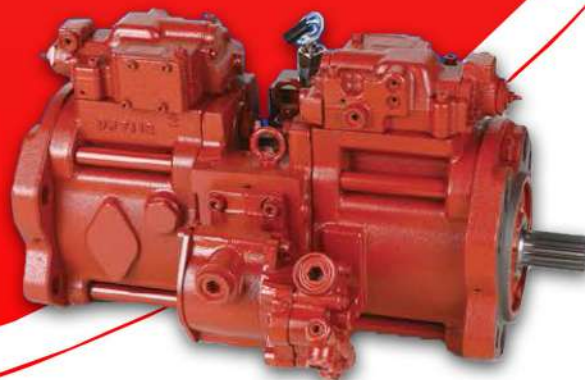


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ISO 9001



ISO 14001



INTERNATIC TRADE MEM



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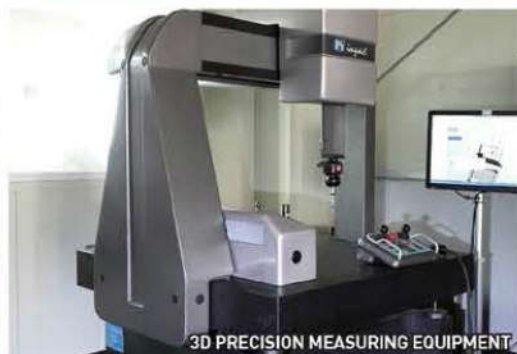


MILLION DOLLAR
AWARD BY EXPORT



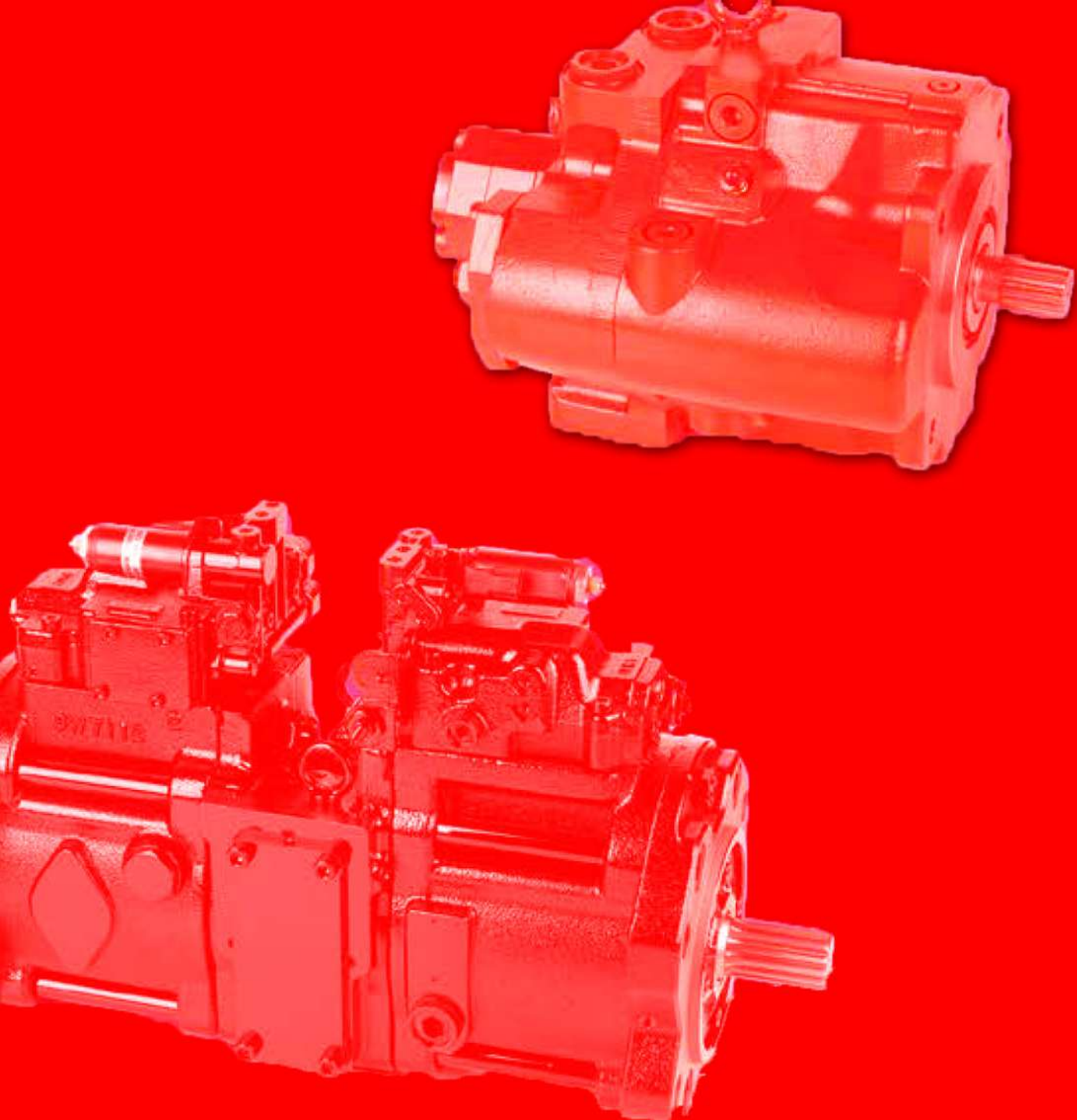
10 MILLION DOLLAR
Certificates & Awards

TEST MACHINE / MEASURING INSTRUMENT



MACHINERY OF PROCESS LINE





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MAIN PUMP ASS'Y - T3V/T5V/TP SERIES



T3V63DT	T3V112DT	T3V140DT	T3V180DT
T5V80DTP	T3V112DTP	T5V140DTP	T3V180DTP
T3V180DTP	T3V180DTH	T5V200DTH	
TP2D21	TP2D25	TP2D28	TP2D36
HPV145	PVD-2B-40		

TRAVEL MOTOR ASS'Y-NM SERIES



NM-32	NM-11	NM-15	NM-12
NM-21	NM-47	NM-08	NM-10
	NM-13	NM-23	

SWING MOTOR ASS'Y-M2X150 M5X130



	M2X150	M5X130	
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MAIN PUMP ASS'Y

T3V Pump / SK Pump / T5V Pump

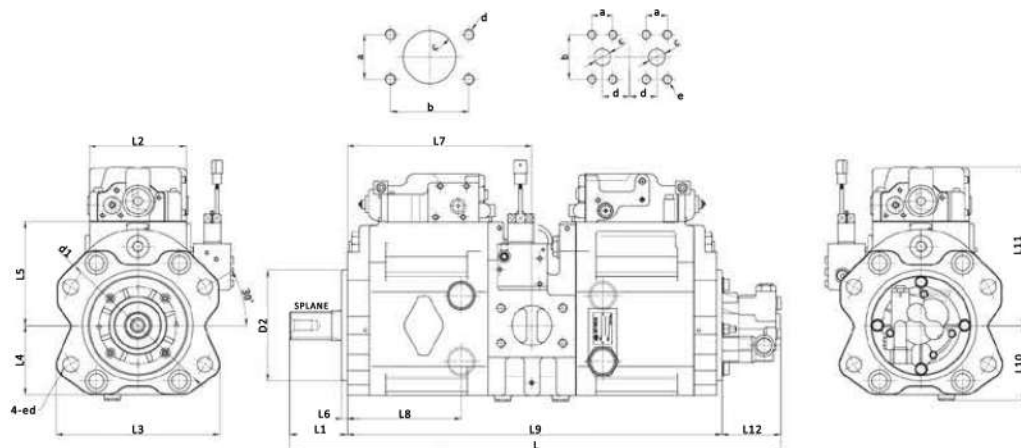


Model Information

T3V	112	DT	P	1P2	R	9N	09
T3V/T5V Series	Displacement [cc/rev]	Pump type DT : Double Tandem/ S: Single	Standard / P: PTO/H:Centrifugal pump	Design code of regulator	Regulator code for control	Direction of rotation R: Clockwise L: Counter clockwise	Pump code

Specification

Model	Max Displacement	Rated Pressure		Max Pressure		Max for self priming [rpm]		Max input torque		Weight	Application
	cc/rev	kgf/cm ²	MPa	kgf/cm ²	MPa	kgf/cm ²	Max	kgf/m	N-m	kgf	ton
T3V63DT	63x2	350	34.3	400	39.2	2.650	3.250	35	343.2	81	13-17
T3V112DT	112x2	350	34.3	400	39.2	2.360	2.700	60	588.4	125	20-25
T3V140DT	140x2	350	34.3	400	39.2	2.150	2.500	114	1.118	160	29-37
T3V180DT	180x2	350	34.3	400	39.2	1.950	2.300	114	1.118	160	39-45
T5V80TP	80x2	350	34.3	400	39.2	2.460	3.000	54	529.6	81	13-17
T3V112DTP	112x2	350	34.3	400	39.2	2.360	2.700	60	588.4	148	20-25
T3V180DTP	180x2	350	34.3	400	39.2	1.950	2.300	114	1.118	160	39-45
T5V140DTP	140x2	350	34.3	400	39.2	2.160	2.500	86	843.4	125	29-37
T3V180DTH	180x2	350	34.3	400	39.2	1.950	2.300	114	1.118	160	39-45
T5V200DTH	200x2	350	34.3	400	39.2	1.900	2.200	114	1.118	160	39-50



Dimensions

Model	D1	D2	d	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L11
T3V63DT	180	125	18	76	140	190	89	98	8	228	138	464	97	195	78	618
T3V112DT	224	160	22	78	140	234	100	110	8	265	167	538	109	220	78	694
T3V140DT	250	180	22	93	140	256	112	123	8	305	190	618	121	245	80	791
T3V180DT	250	180	22	93	140	256	112	123	8	305	190	618	121	245	80	791
T5V80TP	180	125	18	76	140	190	89	98	8	228	138	464	97	195	78	618
T5V140DTP	224	160	22	78	140	234	100	110	8	265	167	538	109	220	78	684
T3V180DTP	250	180	22	93	140	256	112	123	8	305	190	618	121	245	80	791
T5V160DTH	250	180	22	93	140	256	112	123	8	305	190	618	121	245	80	791
T5V200DTH	250	180	22	93	140	256	112	123	8	305	190	656	121	245	80	847

MAIN PUMP ASS'Y

TP2D21/25/28



Model Information

MODEL NAME

Displacement of Piston P/P-21 cc/rev-27.5cc/rev

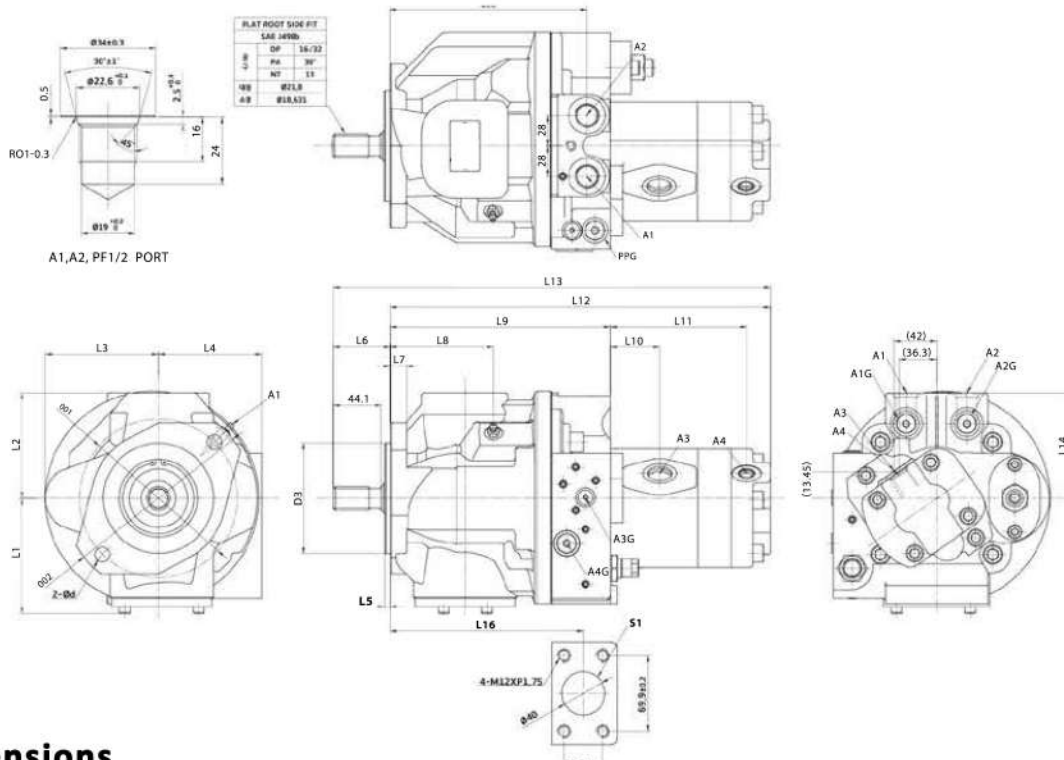
TP2D 21/25/28 16 16

Displacement of P4 Gear P/P1-
P4 GearP/P exclusion-4 -4.5cc/rev 6-6.5 cc/rev

Displacement of P3 Gear P/P-1-
P4 GearP/P exclusion 16-16.2cc/rev

Specification

Model	Displacement [cm ³ /rev]				Rated pressure [kgf/cm ²]	Flow [l/min]	Max speed for self priming rpm	Max input torque [kgf-m]	Application [ton]
	A1	A2	A3	A4					
TP2D21/25	25	25	16.2	4.5	220	55x2	2200	14	7
TP2D28	27.3	27.3	18.2	4.5	220	61.6x2	2200	14	7



Dimensions

Model	D1	D2	D3	d	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15	L16
TP2D21/25/28	146	175	101.6	14	106	97	107.45	95	5	52.5	15	95	203	45	125	346	[398.5]	97	181.5	177.5

MAIN PUMP ASS'Y

TP2D36

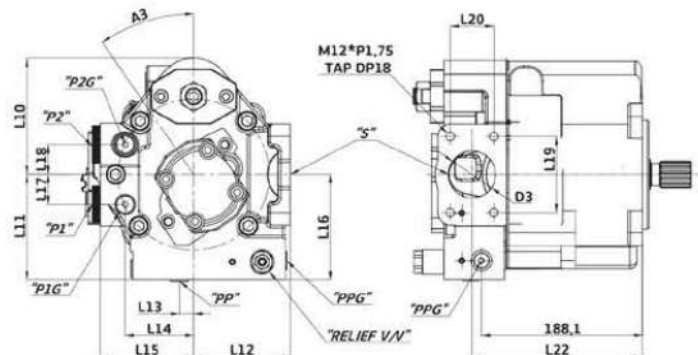
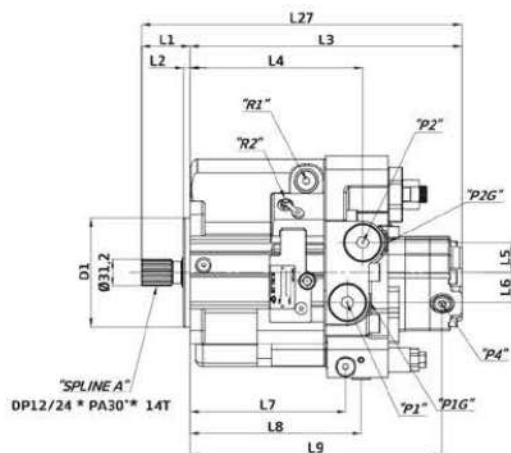
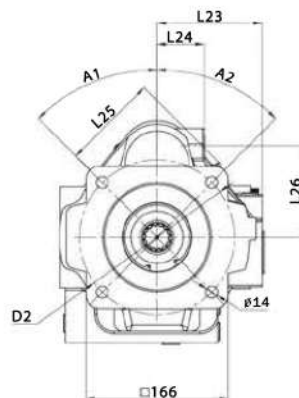


Specification

Model	Displacement [cm ³ /rev]				Rated pressure [kgf/cm ²]	Flow [l/min]	Max speed for self priming rpm	Max input torque [kgf-m]	Application [ton]
	A1	A2	A3	A4					
TP2036	37	37	12.1	6.5	280	74x2	2000	17.8	8

Port Size

PORT	TITLE	CONFIGURATION
S	INPUT PORT	SAE A 2 1/2
P1, P2	OUTPUT PORT	PF 3/4
P4	OUTPUT PORT	PF 3/8
PP	OUTPUT PORT	PF 1/4
P1G, P2G	GAUGE PORT	PF 1/4
PPG	GAUGE PORT	PF 1/4
R1	DRAIN PORT	PF 3/8
R2	AIR PORT	M10



Dimensions

Model	D1	D2	D3	A1	A2	A3	L1	L2	L3	L4	L5
TP2D36	Ø127	Ø181	Ø55	45°	45°	35°	56.7	7.7	317.8	201.8	35
	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15	L16
	35	181.8	199.8	294.1	136	123	113	16.5	80	109	123
	L17	L18	L19	L20	L21	L22	L23	L24	L25	L26	L27
	35	203	88.9	50.8	188.1	199.1	123	55	113.6	107	374.5

MAIN PUMP ASS'Y

PVD-2B-40 PUMP

Specification

Model	PVD-2B-40
Displacement [cc/rev]	20
Max. Pressure [kgf/cm ²]	230
Max. Pressure [rpm]	2200

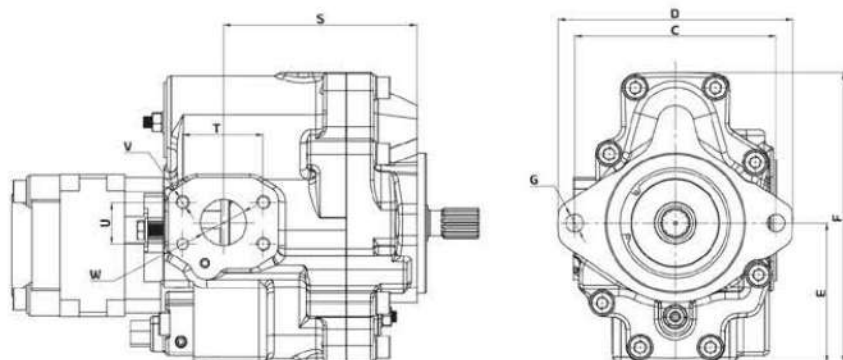
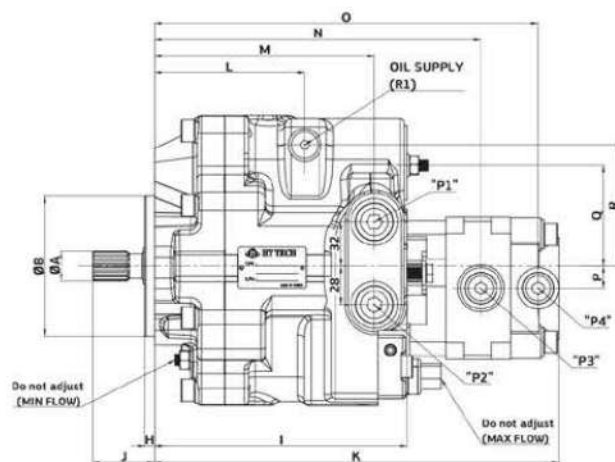


Dimensions of Shaft End [Spline Type]

Model	No. of teeth	Pitch circle dia [mm]	Module	Pressure angle	Standard
PVD-2B-40	13	20.637	16/32	30	SAE J498b

Port Size

PORT	TITLE	CONFIGURATION
P1	OUTLET PORT	PF 1/2
P1	OUTLET PORT	PF 1/2
P3	OUTLET PORT	PF 3/8
P4	OUTLET PORT	PF 3/8
R1	OIL SUPPLY PORT	PF 1/4



Dimensions

Model	øA	øB	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	øW
PVD-2B-40	21.7	101.6	146	172	101	210	2-ø13	7	183	45	293	109	159	236.5	278	16	73	88	140	58.7	30.2	4-M10	ø33.5

MAIN PUMP ASS'Y

HPV145 PUMP

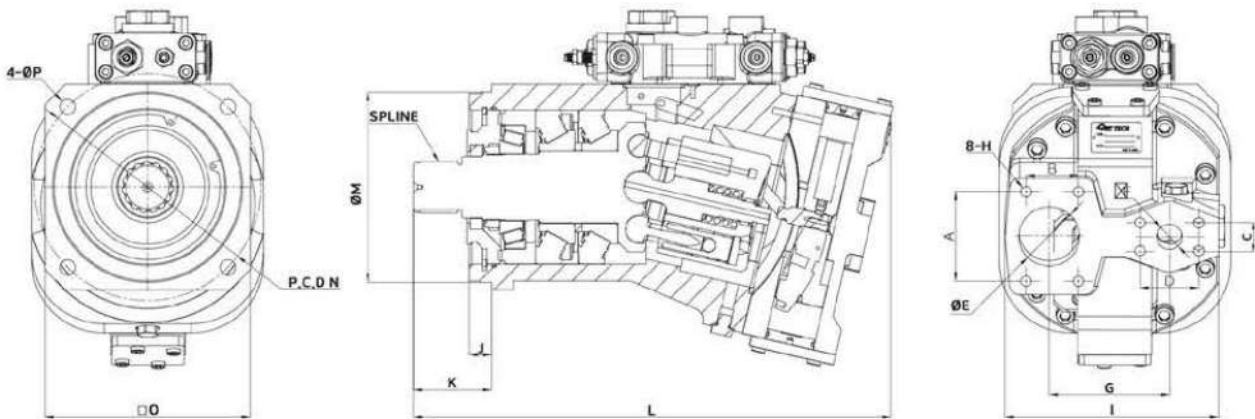
Specification

Model	HPV145
Displacement [cc/rev]	145
Max. Pressure [kgf/cm ²]	350
Max. Pressure [rpm]	2000



Dimensions of Shaft End [Spline Type]

Model	No. of. teeth	Pitch cirde dia [mm]	Module	Pressure angle	Standard
HPV145	15	47.6	DP8/16	30	ANSI B92. 18:1970



Flange Mounting face for Suction & Delivery port

Model	A	B	C	D	E	F	G	H
HPV145	89	51	28	57	64	26	114.5	M12X1.75p Dp25

Dimensions

Model	I	J	K	L	M	N	O	P
HPV145	208	21	75.5	458.5	184	220.6	200	17

TRAVEL MOTOR ASS'Y

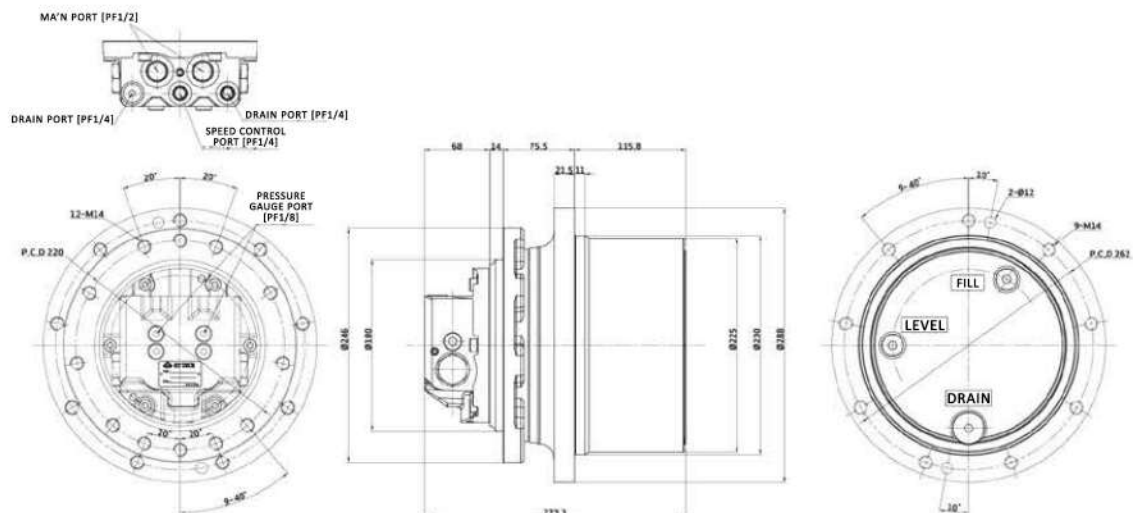
NM-32



Model Information

	NM	32	VN	35/14	1	
Model Name						
Size Number						
Motor Type						
						Displacement High, Low Speed
						Design code

Model				NM-32	
				1SPEED	2SPEED
Reduction Gear	Gear ratio			68.6	
	Output Torque	kg.m	rated	685	403.5
			max.	720	
	Output Speed	rpm	rated	34.8	59
max.			67		
Hydraulic Motor	Displacement	cc/rev.		25.1	14.8
	Operating Pressure	kgf/cm²	rated	250	
			max.	300	
	Output Speed	rpm	rated	1150	2500
			max.	4500	
Brake Torque		kg.m	6.6		
Weight		kg	53		



Dimensions

Model	A	B	C	D	E	F	G	H	J	K	L	M	N	P	ton
NM-32	273	246	288	82.5	75.2	220	180	225	262	12-M14X2.0	9-M142.0	PF1/2	PF1/4	PF1/8	4

TRAVEL MOTOR ASS'Y

NM-11/15/21

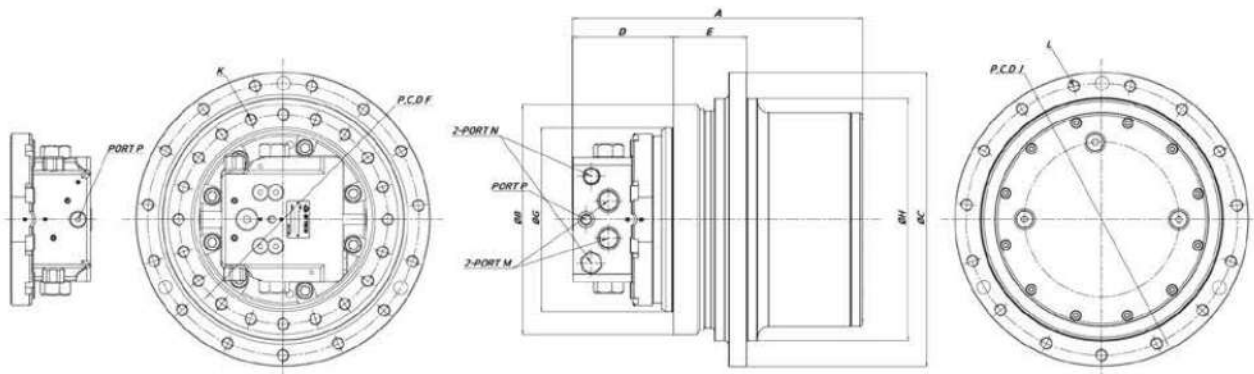


Model Information

	NM	11	VC	49/26	1	
Model Name						
Size Number						
Motor Type						
						Displacement High, Low Speed
						Design code

Specification

Model				NM-11		NM-15		NM-12/21	
				1SPEED	2SPEED	1SPEED	2SPEED	1SPEED	2SPEED
Reduction Gear	Gear ratio			53.706		53.706		53	
	Output Torque	kg.m	rated	709	449	1117	629	1960	1221
			max.	780		1360		2151	
	Output Speed	rpm	rated	25.6	40.4	30.3	56.6	30.7	49.2
max.			65		60		60		
Hydraulic Motor	Displacement	cc/rev.	39.5	25.1	49.2	26.3	68.9	42.9	
	Operating Pressure	kgf/cm²	rated	210	280		337		
			max.	300	350		350		
	Output Speed	rpm	rated	1176	2171	1626	3042	1625	2608
			max.	3000		3900		3200	
Brake Torque		kg.m	8.4	8.4		19.7			
Weight		kg	78	83		125/136			



Dimensions

Model	A	B	C	D	E	F	G	H	J	K	L	M	N	P	ton
NM-11	348.5	270	306	126	68	244	210	250	282	12-M14X2.0	12-M14X2.0	PF1/2	PF3/8	PF1/4	5
NM-15	348.5	280	325	120	80	250	210	265	300	12-M16X2.0	12-M14X2.0	PF1/2	PF3/8	PF1/4	8
NM-12	388.5	298	362	134	88	270	230	292	332	15-M16X2.0	12-M16X2.0	PF3/4	PF1/2	PF1/4	14
NM-21	388.5	308	394	134	99.5	280	246	324	364	20-M16X2.0	12-M16X2.0	PF3/4	PF1/2	PF1/4	14

TRAVEL MOTOR ASS'Y

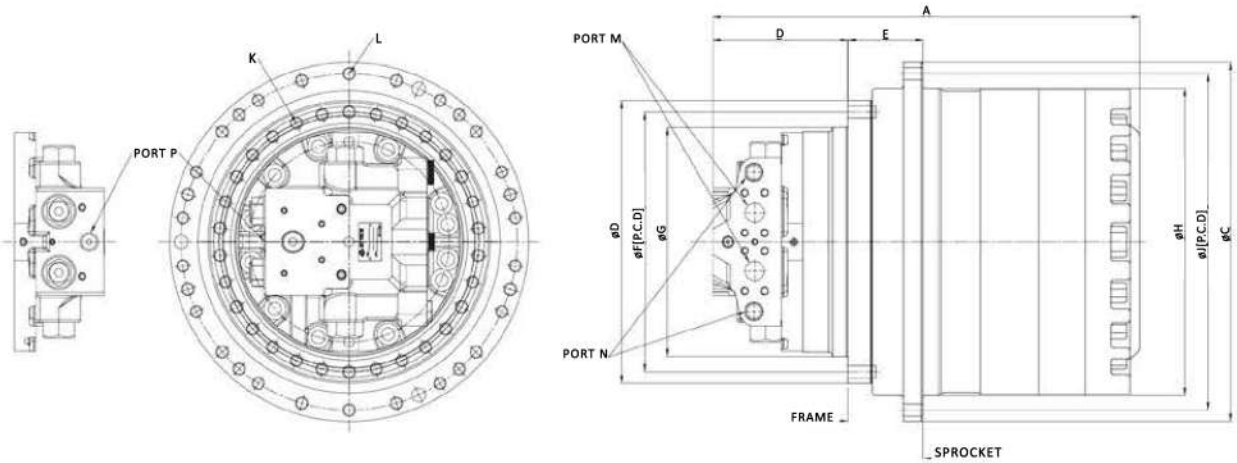
NM-47



Model Information

	NM	47	VC	95/176	1	
Model Name						
Size Number						
Motor Type						
						Displacement High, Low Speed
						Design code

Model				NM-47	
				1SPEED	2SPEED
Reduction Gear	Gear ratio			48	
	Output Torque	kg.m	rated	4438	2404
			max.	4651	
	Output Speed	rpm	rated	26.7	49.4
max.			50		
Hydraulic Motor	Displacement	cc/rev.		176	95.3
	Operating Pressure	kgf/cm²	rated	330	
			max.	350	
	Output Speed	rpm	rated	1284	2370
			max.	2400	
Brake Torque		kg.m	49.3		
Weight		kg	310		



Dimensions

Model	A	B	C	D	E	F	G	H	J	K	L	M	N	P	ton
NM-47	547.5	370	470	178.5	98.5	340	300	402	440	30-M16X2.0	30-M16X2.0	1" FLANGE	PF1/2	PF1/4	22

TRAVEL MOTOR ASS'Y

NM-08



Specification

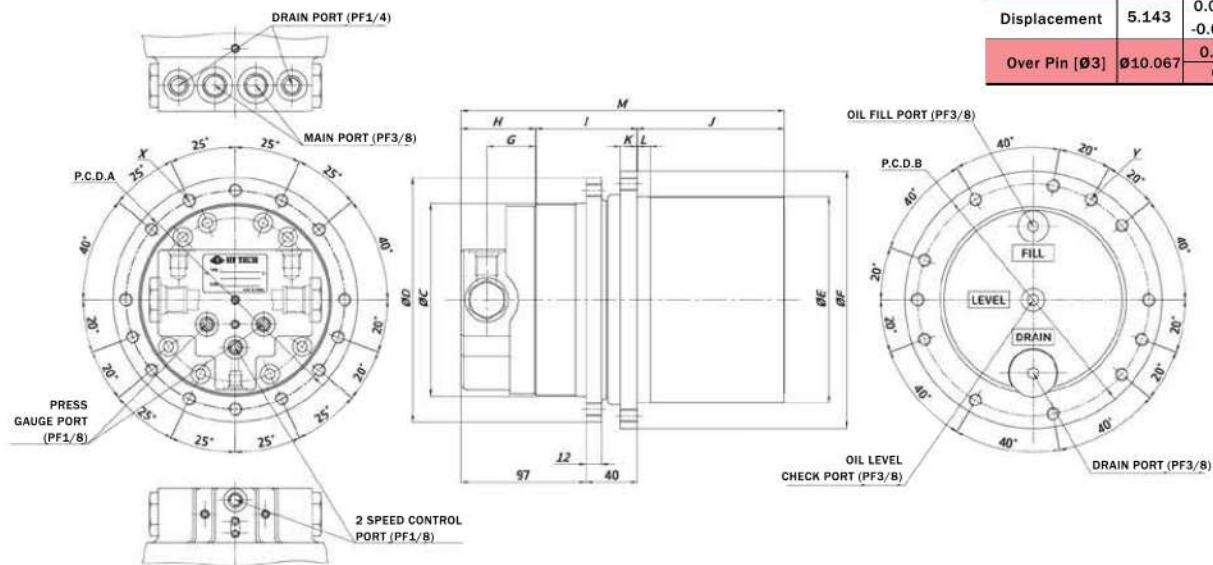
Model	Max. output torque [Reducer]		Motor displacement		Gear ratio	Max. speed [Motor]		Max flow	Normal pressure **	Peak pressure	Mechanical bracket torque		Automatic shift pressure	Relief valve	Mass	Typical vehicle application
	Low speed	High speed	Low speed	High speed		Low speed	High speed				Reducer	Motor				
	N.m		cc/rev.			rpm					N.m				kg	ton
NM-08	2785	1936	16.4	11.4	42.7	21.34	3070	35	250	280	1591	37	180	X	30	2

▲ - Option X - Not available

* - Fixed displacement

** - Nominal pressure is the max. relief valve setting pressure

Dimensions



Motor Output Shaft

16[cc/rev] 16/11.4[cc/rev]	
Involute Spline	
Number of Teeth	12
Module	1
Pressure Angle	20°
Pitch Diameter	Ø12
Displacement	5.143 0.025 -0.007
Over Pin [Ø3]	Ø10.067 0.07 0

Model	P.C.D.A	P.C.D.B	ØC	ØD	ØE	ØF	G	H	I	J	L	K	L	M	X	Y	MAIN PORT
NM-08	170	180	150	90	160	200	38	58	79	114.5	10	13	10	251.5	14-M10	12-M10	2-PF3/8

TRAVEL MOTOR ASS'Y

NM-10/13/23



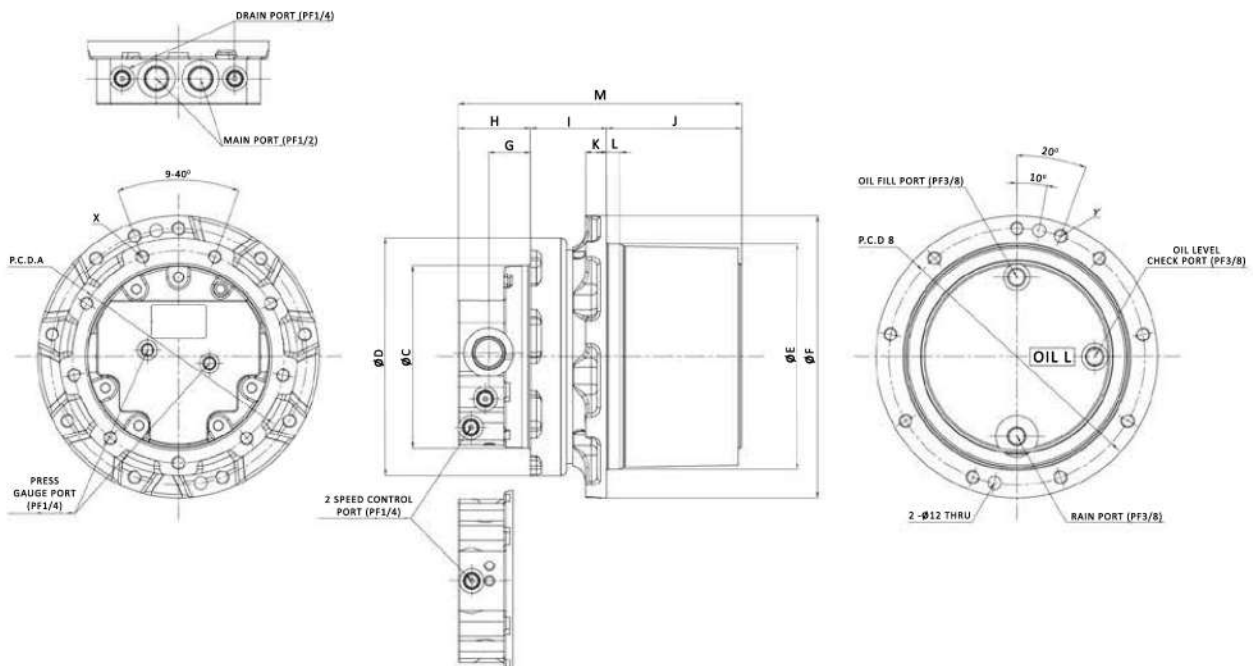
► Specification

Model	Max. output torque [Reducer]		Motor displacement		Gear ratio	Max. speed [Motor]		Max flow	Normal pressure **	Peak pressure	Mechanical bracket torque		Automatic shift pressure	Relief valve	Mass		Typical vehicle application
	Low speed	High speed	Low speed	High speed		Low speed	High speed				Reducer	Motor					
	N.m		cc/rev.			rpm					N.m				kg	ton	
NM-10	3018	1936	16.4	10.4	53.7	2134	33365	35	220	260	2631	49	x	X	38	3.5	
NM-13	3696	1969	21	11.2	53.7	1667	3125	35	220	260	2637	49	x	▲	38	3.5	
NM-23	4724	2955	23.5	14.7	53.7	1489	2381	35	240	285	2361	49	x	▲	38	3.5	

▲ - Option X - Not available

* - Fixed displacement

** - Nominal pressure is the max. relief valve setting pressure



► Dimensions

Model	P.C.D.A	P.C.D.B	ØC	ØD	ØE	ØF	G	H	I	J	K	L	M	X	Y	MAIN SPRT
NM-10	192	215	165	215	190	240	47.5	75.5	50	130.5	17	13	257.3	9-M12	9-M12	2-PF1/2
NM-13	192	232	165	215	204	255	37	65	72	119	19.5	10	257.3	9-M12	9-M12	2-PF1/2
NM-23	192	232	165	215	204	255	47.5	75.5	50	130.5	17	10	251.5	9-M12	9-M12	2-PF1/2

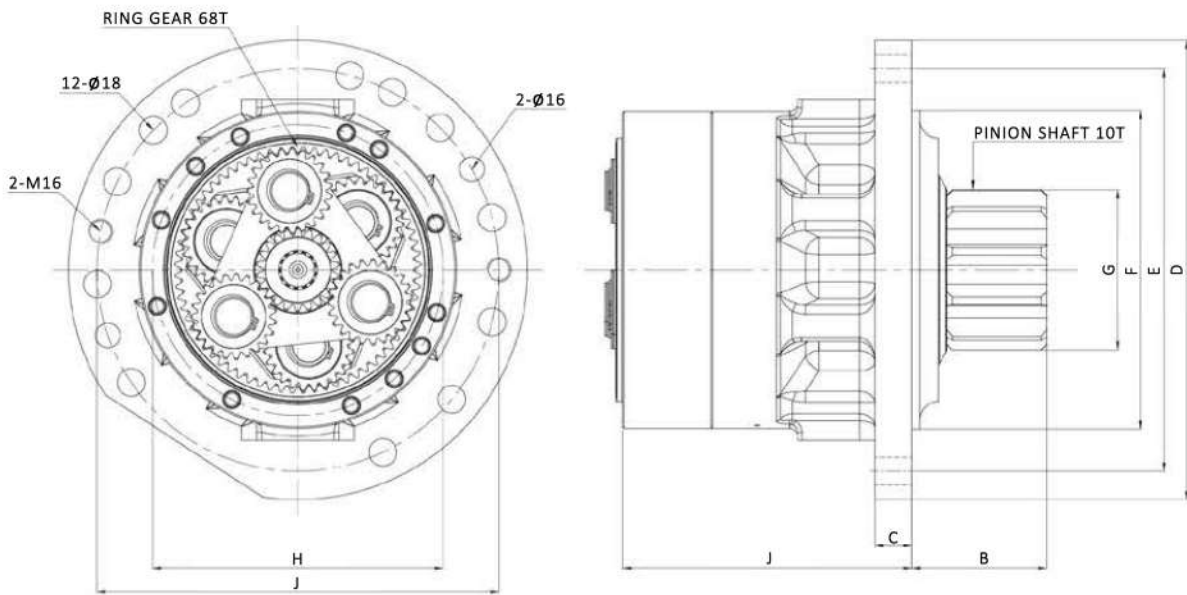
SWING REDUCTION

PC60-7



Specification

Motor displacement	Max. output torque	Gear ratio	Reducer Max. speed	Max flow	Normal pressure	Peak pressure	Brake Torque (Motor)	Time Delay Valve	Output Pinion		Application
cc/rev.	N.m		rpm	L/min	bar	bar	N.m		Moudle	Number	ton
30	2118	19.5	60	35.6	230	276	137	0	8	10	6



Dimensions

Model	A	B	C	D	E	F	G	H	J
PC60-7	187	87	24	Ø297	Ø260	Ø206	Ø103.6	Ø188	Ø260

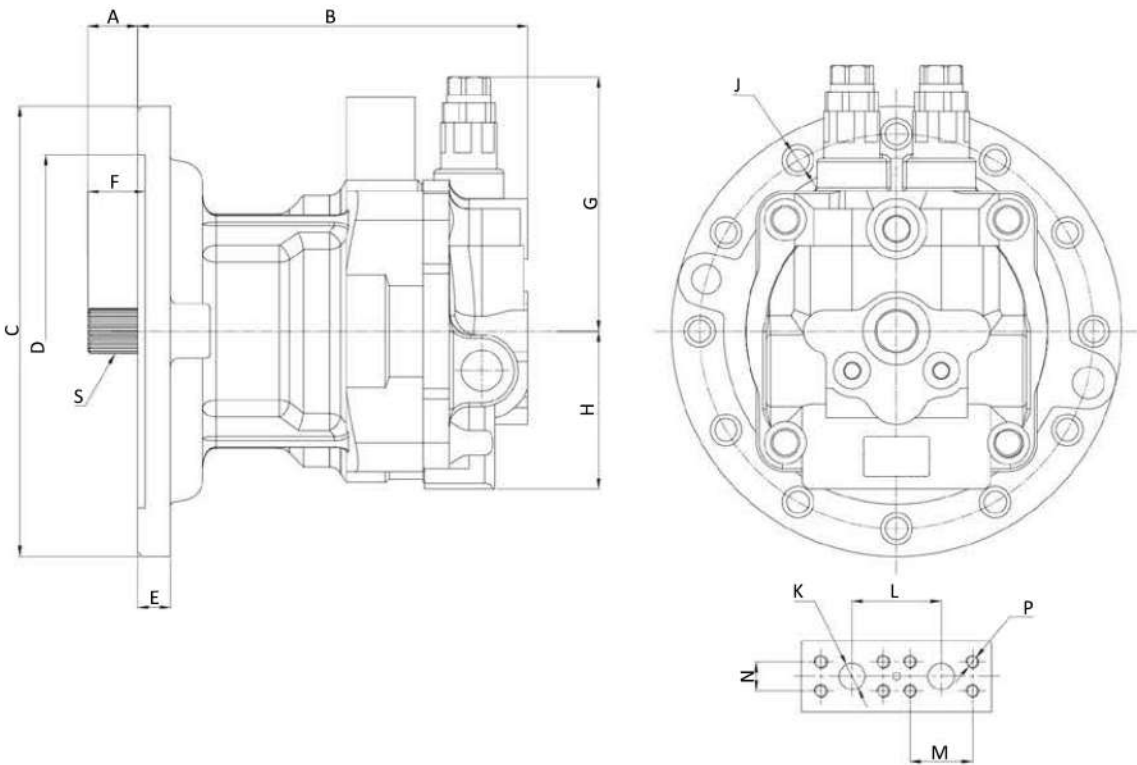
SWING MOTOR

M2X150



Specification

Model	Output Torque kgf.m	Max Speed rpm	Displacement cc/rev	Brake Torque kgf.m	Rated Pressure kgf/cm ²	Weight kgf	Application ton
M2x150	82.7	1600	148.5	71	350	66	21-55



Dimensions

Model	A	B	C	D	E	F	G	H	J	K	L	M	N	P	S
M2X150	22	303	ø340	ø330	25	27.5	168.5	117	12-ø17	2-ø340	68	47.6	22.2	M10*P1.5	M2.5, Z:16T

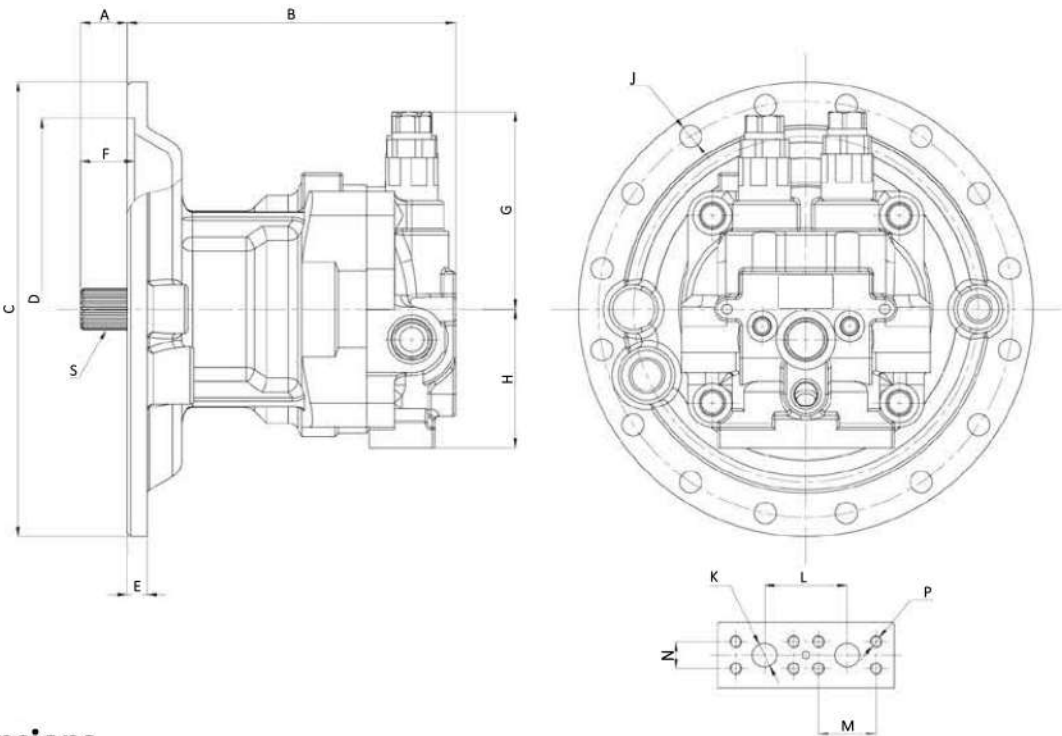
SWING MOTOR

M5X130



Specification

Model	Output Torque	Max Speed	Displacement	Brake Torque	Rated Pressure	Weight	Application
	kgf.m	rpm	cc/rev	kgf.m	kgf/cm ²	kgf	ton
M5X130	67.8	1500	148.5	63.5	350	52.5	21-25

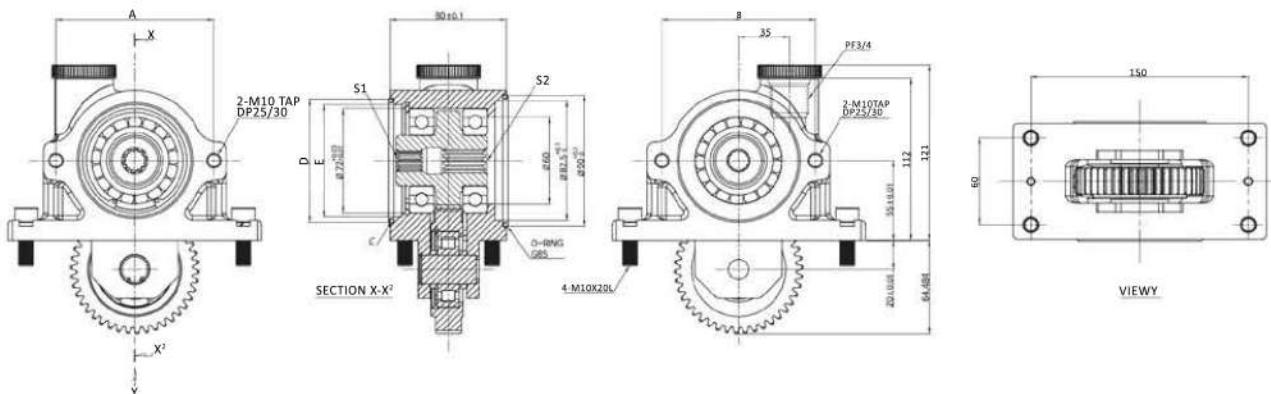


Dimensions

Model	A	B	C	D	E	F	G	H	J	K	L	M	N	P	S
M5X130	38	270	Ø374	Ø314	16.5	44	162	188	16-Ø18	2-Ø20	68	47.6	22.2	M10*P1.5	DP16/32, Z:21T

PTO GEAR BOX

Application: PTO GEAR BOX FOR T3V/T5V MAIN PUMP ASS'Y



Dimensions

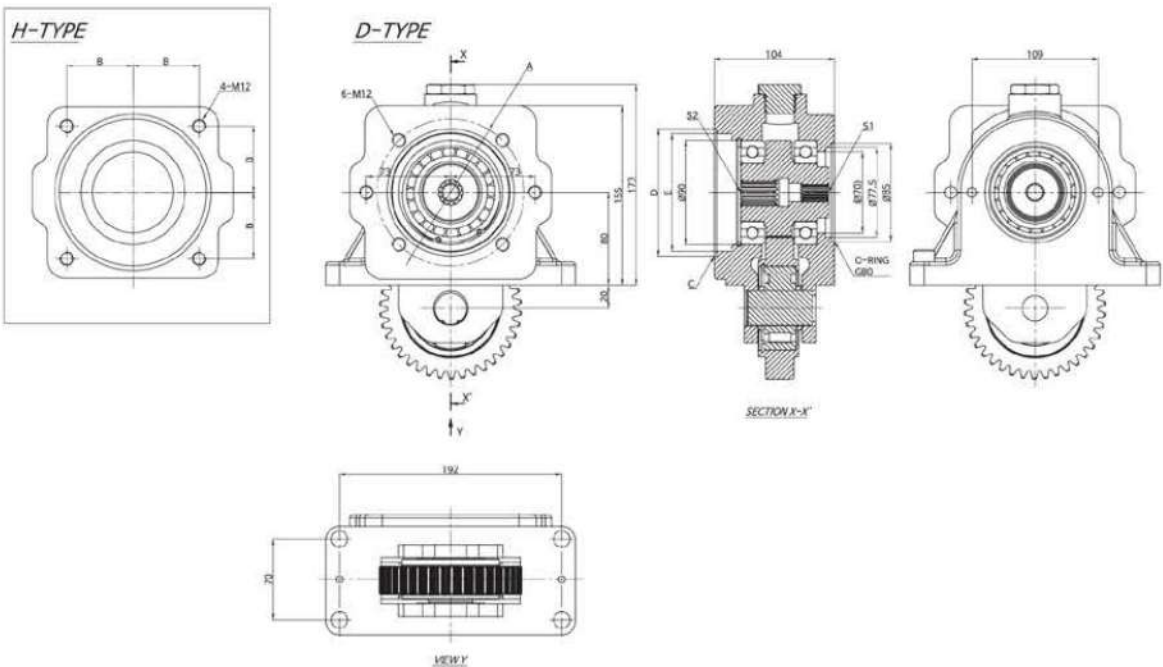
Model		A	B	C	D	E
TV3V63DTP	A-TYPE	109	106.4	G80	85	77.5
T3V112DTP	B-TYPE	109	106	G80	85	77.5
T5V80DTP	C-TYPE	106.4	106.4	G85	90	82.5
T5V140DTP	D-TYPE	106.4	106.4	G85	90	82.5

Dimensions of shaft end

Model		S1				S2			
		NO. of teeth	Module	Pressure	Rule	No. of teeth	Module	Pressure	Rule
T3V63DTP	A-TYPE	13	1	20°	JIS	10	16/32	30°	SAE
T3V112DTP	A-TYPE	13	1	20°	JIS	10	16/32	30°	SAE
T5V80DTP	A-TYPE	13	1	20°	JIS	10	16/32	30°	SAE
T5V140DTP	A-TYPE	13	1	20°	JIS	9	16/32	30°	SAE

PTO GEAR BOX

Application: PTO GEAR BOX FOR T3V180DTP MAIN PUMP ASS'Y



Dimensions

Model		A	B	C	D	E
T3V180DTP	D-TYPE	Ø127	-	G105	Ø110	Ø101.6
	H-TYPE	-	57.2	G130	Ø135	Ø127

Dimensions of shaft end

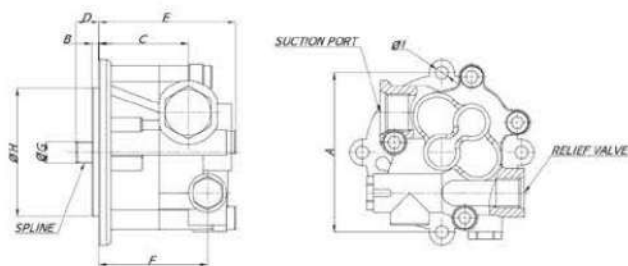
Model		S1				S2			
		NO. of teeth	Module	Pressure	Rule	No. of teeth	Module	Pressure	Rule
T3V180DTP	D-TYPE	13	1	20°	JIS	13	16/32	30°	SAE
	H-TYPE	13	1	20°	JIS	13	16/32	30°	SAE

GEAR PUMP

T3V / T5V SERIES

Specification

Model	T3V63DT	T3V112DT	T3V140DT	T3V63DT
Discharge Rate(cc/rev.)	12		15	
Max. Pressure (kgf/cm ²)		40		
Max. Speed	3250	2700	2500	2200



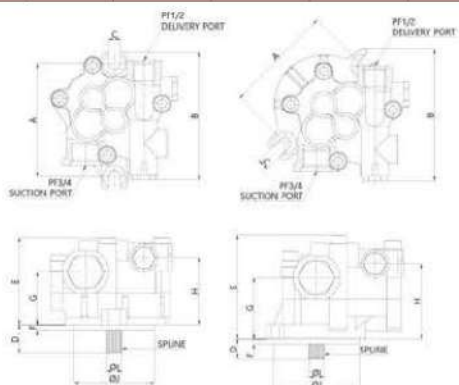
Dimensions

Model	A	B	C	D	E	F	G	H	I	SPLINE
T3V63DT	100							80	6.6	Z12
T3V112DT	112	5	59.8	19.2	93	72.8	14.8	30	9	Z13
T3V140&180DT	138		62.8	16.2	96	75.8		100	11	Z13

T3V / T5V SERIES

Specification

Model	T3V63DT	T3V112DT	T3V140DT	T3V63DT
Discharge Rate(cc/rev.)	12		15	
Max. Pressure (kgf/cm ²)		40		
Max. Speed	3250	2700	2500	2200



Dimensions

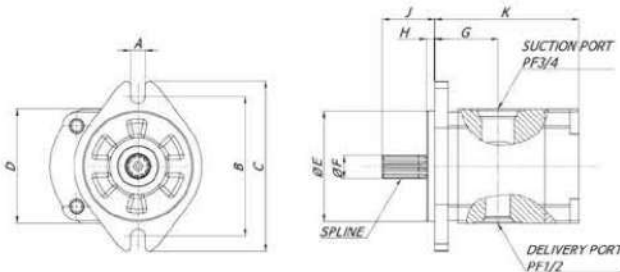
Model		A	B	C	D	E	G	H	I	J	K	L	SPLINE
T3V63DTP	A-TYPE	109	149	11	27.2	93	5	51.8	64.8	77.5	-	-	Z13
T5V80DTP	A-TYPE	109	30.5	20.5	149	11	27.2	61	5	64.8	14.8	77.5	
T4V112DTP													
T5V140DTP	A-TYPE	106	161	11.5	19.2	100.8	5	59.8	72.8	82.55	-	-	

GEAR PUMP

HPVO50/O102/O91EW/116/145/A7VO250 SINGLE TYPE

Specification

Model	PV116
Discharge Rate [ct/rev.]	SINGLE
	16.8
Max. Pressure [kgf/cm ²]	180
Max. Speed	3200
DIRECTION	CW(R)



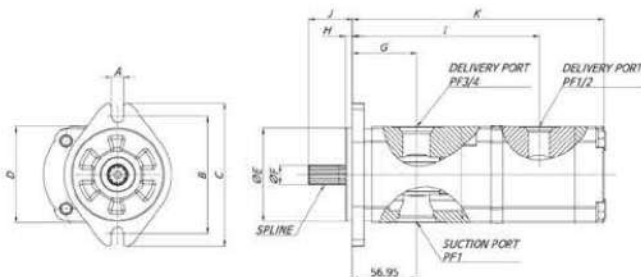
Dimensions

Model	A	B	C	D	ØE	ØF	G	H	J	K	SPLINE
HPV116[16.8CC]	11	104	127	85	82.5	17	47.2	6.2	38.95	107.7	NT:10T

T3V63DTP/112DTP&T5V80DTP/140DTP DOUBLE TYPE

Specification

Model	T3V63DT T3V140DT	T3V112DT T3V63DT
Discharge Rate [cc/rev.]	P1 25	P2 10/16
Max. Pressure [kgf/cm ²]	180	
Max. Speed	32000	
DIRECTION	CCW[L]	CW[R]



Dimensions

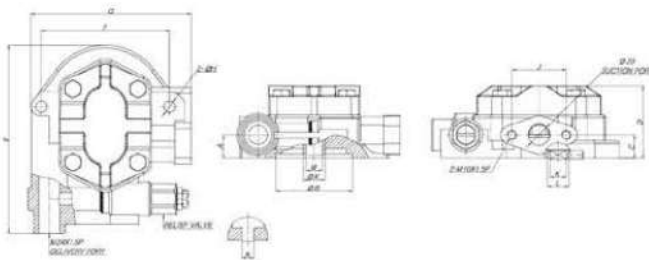
Model	A	B	C	D	ØE	ØF	G	H	I	J	K	SPLINE	
T3V63DTP/112DTP & T5V80DTP/140DTP	25/10cc 25/16cc	11	104	127	85	82.5	17	56.55	6.2	133.55 165.6	38.95	185.4 223	NT:10T NT:10T

GEAR PUMP

PV90(PC200-3/5)

Specification

Model	HPV90(PC200-3/5)
Discharge Rate(cc/rev.)	23.5
Max. Pressure (kgf/cm ²)	50
Max. Speed	3200



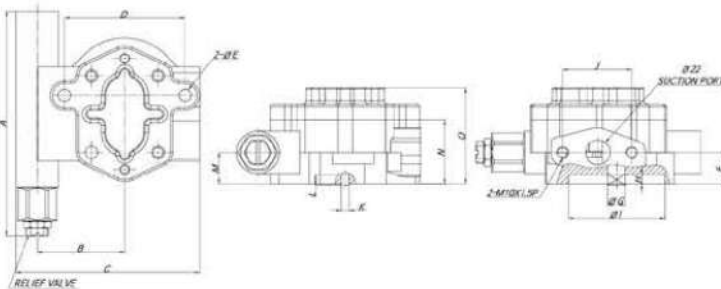
Dimensions

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N
PV90 [16.8CC]	26.5	85	26.5	78.5	210	142	181	13	-	-	24	-	18.2	-
									10	60	18.2	24	-	9

HPV95(PC200-6/7)/ HPV132(PC300-6)

Specification

Model	HPV95 [PC200-6/7]	HPV132 [PC300-6]
Discharge Rate [cc/rev.]	13.2	17.6
Max. Pressure [kgf/cm ²]	40	
Max. Speed[rpm]	3200	



Dimensions

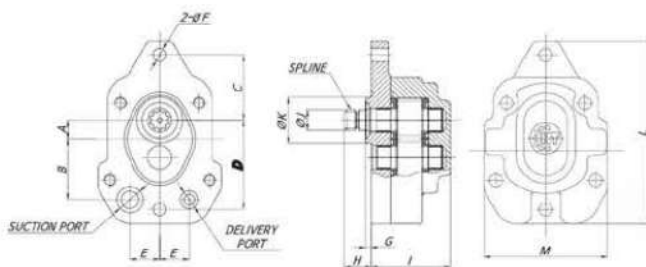
Model	A	B	C	D	ØE	F	ØG	H	ØI	J	K	L	M	N	O
HPV95[PC200&PC220-6/7]	195	76	161.5	105	11	27.2	16	8.2	64	60	7	9.2	27.2	49.2	77.2
HPV132[PC300-6]												9.5		55.5	83.5

GEAR PUMP

A8V55/59/80/86/107/115

Specification

Model	A8V55/59/80/86/107/115
Discharge Rate(cc/rev.)	12
Max. Pressure (kgf/cm ²)	50
Max. Speed	2500



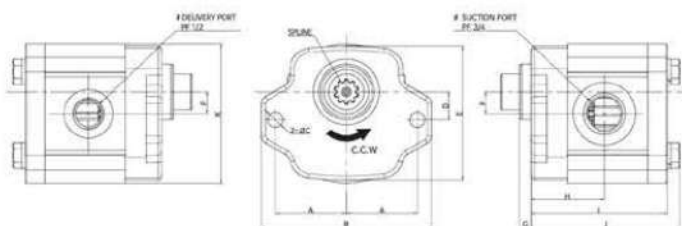
Dimensions

Model	A	B	C	D	E	ØF	G	H	I	ØJ	ØK	L	M	SPLINE
A8V SERIES	15.7	51.2	55	75	25	11	4.7	22.5	66.7	17	39	153.3	104	NT:10T

A10V43

Specification

Model	PUMP1
Discharge Rate(cc/rev.)	12[10]
Max. Pressure (kgf/cm ²)	180
Max. Speed[rpm]	2800
Rotation [viewed from shaft end]	C.C.W
Max Continuous Temp. [°C]	-20-90°C



Dimensions

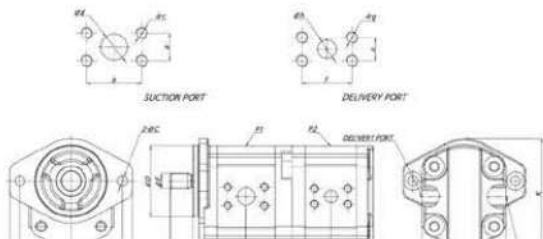
Model	A	B	ØC	D	E	F	G	H	I	J	K	SPLINE
A10V43	51	122	11	20	96	15.7	6	52.8	98.1	107	100	NT:10

GEAR PUMP

REXROTH DOUBLE TYPE

▶ Specification

Model	AP2D21/25/28/36	
Discharge Rate[cc/rev.]	P1 30	P2 23
Max. Pressure (kgf/cm ²)	250	
Max. Speed	2800	



▶ Dimensions

Model	A	B	C	D	E	F	G	H	I	J	K	L
REXROTH [30/23CC]	146	175	14.5	101.6	21.8	9.5	40.975	66.8	120.7	289.375	154	120

EPPR VALVE ASS'Y

5K-10/40,5K-20/40,5K-30/31(POSITIVE)5KR-20/40(NEGATIVE)



REGULATOR

REGULATOR TYPE FOR 9C/9N/GN/9P/1N/2N

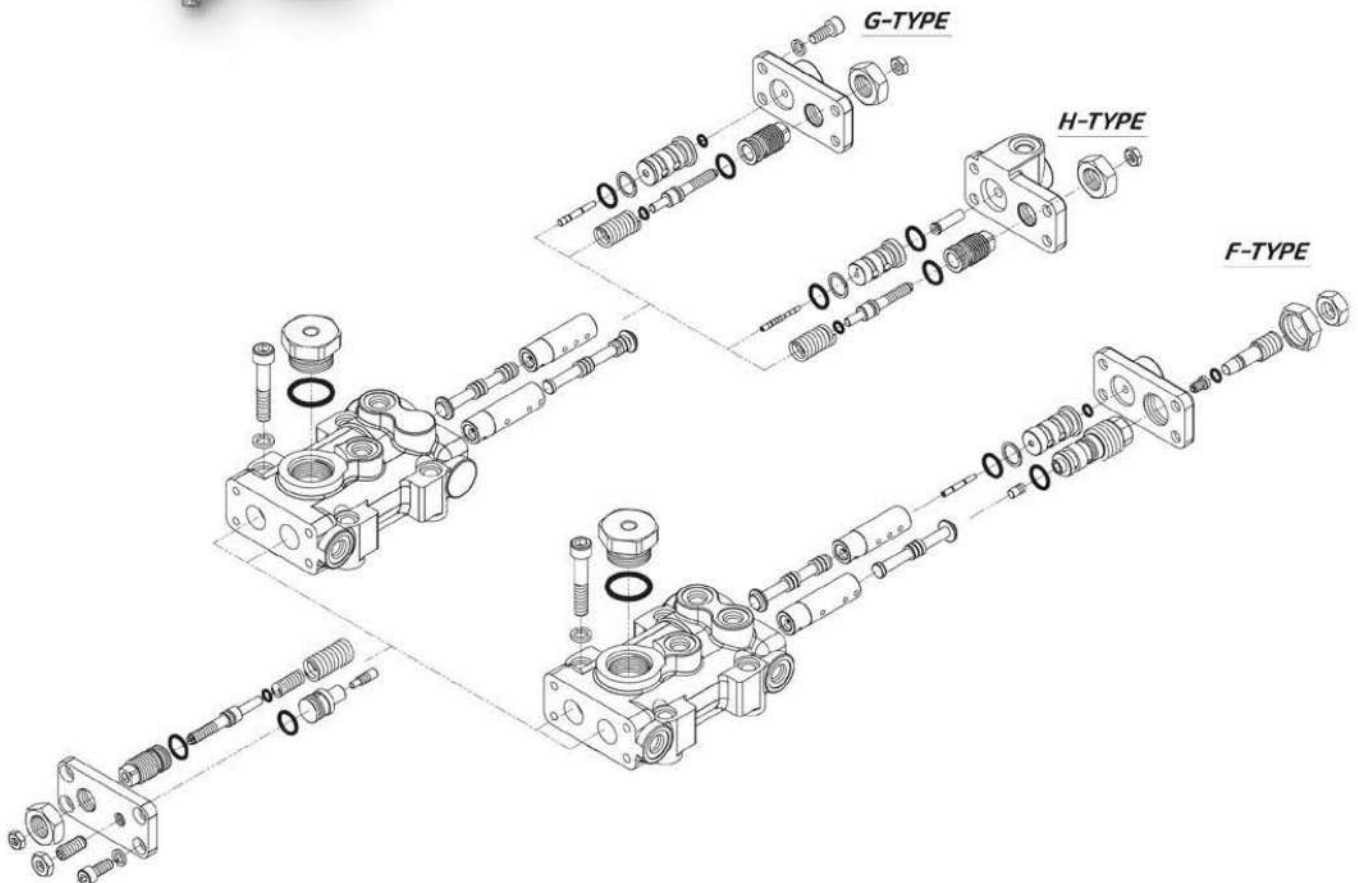


REGULATOR TYPE FOR 9T/YT/OE



REGULATOR

HPV145 (C/D/F/G/H)



02 SPARE PARTS

A8V55/86/107

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		2
2	VAVLE PLATE-RH		1
3	VAVLE PLATE-LH		1
4	PISTON ASS'Y	7PCS/SET	2SET
5	SET PLATE		2
6	CENTER PIN		2
7	SERVO PISTON		2
8	DRIVE SHAFT-LONG		1
9	DRIVE SHAFT-SHORT		1



A8VO80/O107/O160/O200

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		2
2	VAVLE PLATE-RH		1
3	VAVLE PLATE-LH		1
4	PISTON ASS'Y	7PCS/SET	2SET
5	SET PLATE		2
6	CENTER PIN		2
7	SERVO PISTON		2
8	DRIVE SHAFT-LONG		1
9	DRIVE SHAFT-SHORT		1



A10V40/43

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK	Ø40	2
2	VAVLE PLATE-RH		1
3	VAVLE PLATE-LH		1
4	PISTON ASS'Y	9PCS/SET	2SET
5	BALL GUIDE		2
6	SET PLATE		2
7	SHOE PLATE		2
8	SPRING (CLYINDER)		2
9	PIN (CLYINDER)	3PCS/SET	2SET
10	WASHER (CLYINDER)		4
11	DRIVE SHAFT-SHORT		2

**A10VD43**

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK	Ø36.6	2
2	VAVLE PLATE-RH	Ø45.3	1
3	VAVLE PLATE-LH	Ø34.2	1
4	PISTON ASS'Y	9PCS/SET	2SET
5	BALL GUIDE		2
6	SET PLATE		2
7	SHOE PLATE		2
8	PIN (CLYINDER)	3PCS/SET	2SET
9	WASHER (CLYINDER)		4
10	SPRING (CLYINDER)		2
11	DRIVE SHAFT-SHORT		2



02 SPARE PARTS

A10VO71

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		1
2	VAVLE PLATE[RH/LH]-5.9T	UCHIDA TYPE	1
2-1	VAVLE PLATE-LH[RH/LH]-5.9T	REXROTH TYPE	1
4	PISTON ASS'Y	9PCS/SET	1SET
5	BALL GUIDE		1
6	SET PLATE		1
7	SHOE PLATE		1



AP12(E320B)

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		2
2	VAVLE PLATE-RH		1
3	VAVLE PLATE-LH		1
4	PISTON ASS'Y	9PCS/SET	2SET
5	BALL GUIDE		2
6	SPACER		2
7	SET PLATE		2
8	SHOE PLATE		1
9	SPRING (CYLINDER)	9PCS/SET	2SET
10	TILTING PIN		2
11	DRIVE SHAFT-LONG		1
12	DRIVE SHAFT-SHORT		1
13	SWASH PLATE		1



SBS80/120/140

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		2
2	VAVLE PLATE-RH		1
3	VAVLE PLATE-LH		1
4	PISTON ASS'Y	9PCS/SET	2SET
5	BALL GUIDE		2
6	SPACER		2
7	SET PLATE		2
8	SHOE PLATE		1
9	SPRING (CYLINDER BLOCK)	9PCS/SET	1SET
10	TILTING PIN		2
11	SLIDING BEARING (SUPPORT)		1
12	SLIDING BEARING (SWASH)		1
13	DRIVE SHAFT-LONG		1
14	DRIVE SHAFT-SHORT		1
15	SWASH PLATE		1

**AP2D21/25/28**

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		1
2	VAVLE PLATE		1
3	PISTON ASS'Y	10PCS/SET	1SET
4	BALL GUIDE		1
5	SET PLATE		1
6	SHOE PLATE	3.5mm/2mm/1mm	2
7	PIN (CLYINDER)		1
8	SPRING (CLYINDER)		1
9	SPACE (CLYINDER)		1
10	WASHER (CLYINDER)		1
11-1	DRIVE SHAFT	13T L235	1
11-2	DRIVE SHAFT (NEW)	15T L250	1
12	SWASH PLATE		1



02 SPARE PARTS

TP2D36

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		1
2	VAVLE PLATE		1
3	PISTON ASS'Y	10PCS/SET	1SET
4	BALL GUIDE		1
5	SET PLATE		1
6	PIN (CYLINDER)		3
7	SPRING (CYLINDER)		1
8	SPACER (SPRING)		1
9	WASHER (CYLINDER)		2
10	DRIVE SHAFT		1
11	SWASH PLATE		1



HPVO91EW/DW/DS

No.	DESCRIPTION	SPEC	Q'TY
1	HEAD COVER		1
2	CYLINDER BLOCK		2
3	VAVLE PLATE		1
4	PISTON ASS'Y	7PCS/SET	2SET
5	CENTER PIN		2
6	SERVO PISTON		2
7	SERVO PISTON PIN		1
8	DRIVE SHAFT-LONG	EW/DW/DS	1
9	DRIVE SHAFT-SHORT	EW/DW	1



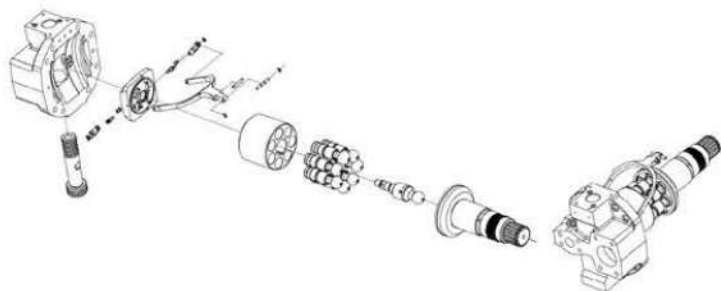
HPVO50/102/105/118

No.	DESCRIPTION	SPEC	Q'TY
1	HEAD COVER		1
2	CYLINDER BLOCK		2
3	VAVLE PLATE - RH		1
4	VAVLE PLATE - LH		1
5	PISTON ASS'Y	7PCS/SET	2SET
6	CENTER PIN		2
7	SERVO PISTON		2
8	DRIVE SHAFT-LONG		1
9	DRIVE SHAFT-SHORT		1



HPV116/145

No.	DESCRIPTION	SPEC	Q'TY
1	HEAD COVER	116, 145 C TYPE	1
2	HEAD COVER	116, 145 D TYPE	1
3	HEAD COVER	145 F TYPE	1
4	CYLINDER BLOCK		1
5	VAVLE PLATE		1
6	PISTON ASS'Y	7PCS/SET	1SET
7	CENTER PIN	C/G TYPE	1
8	SERVO PISTON		1
6	SERVO PISTON PIN		1
10	DRIVE SHAFT		1



02 SPARE PARTS

HPV75(PC60-7/8)

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		1
2	VAVLE PLATE		1
3	PISTON ASS'Y	9PCS/SET	1SET
4	BALL GUIDE		1
5	SET PLATE		1
6	DRIVE SHAFT		1
7	CAM ROCKER		1
8	CRADLE		1



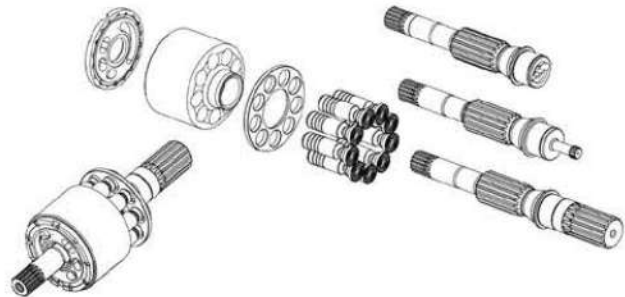
HPV55(PC120-3/5)

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		2
2	VAVLE PLATE-RH		1
3	VAVLE PLATE-LH		1
4	PISTON ASS'Y	9PCS/SET	2SET
5	BALL GUIDE		2
6	SET PLATE		2
7	DRIVE SHAFT-LONG	PC120-3 296mm	1
8	DRIVE SHAFT-LONG	PC120-5 296.8mm	1
9	DRIVE SHAFT-SHORT		1
10	CAM ROCKER		1
11	CRADLE-RH		1
12	CRADLE-LH		1



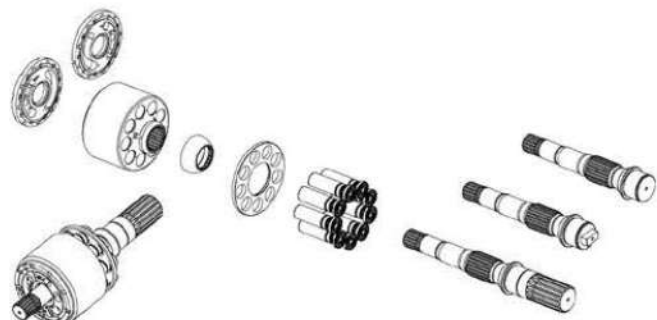
HPV90(PC200-3/5)

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		2
2	VALVE PLATE - RH/LH	PC200-3	2
3	VALVE PLATE - RH/LH	PC200-5	2
4	PISTON ASS'Y	9PCS/SET	2SET
5	BALL GUIDE		2
6	SET PLATE		2
7	DRIVE SHAFT-LONG		1
8	DRIVE SHAFT-SHORT	PC200-4	1
9	DRIVE SHAFT-SHORT	PC200-5	1
10	CAM ROCKER		2
11	CRADLE-RH		1
12	CRADLE-RH		1



HPV95(PC200-6/7/8)

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK	PC200-6/7	2
2	CYLINDER BLOCK	PC200-8	2
3	VALVE PLATE-RH/LH	PC200-6 1KEY	1
4	VALVE PLATE-RH/LH	PC200-7 1KEY	1
5	VALVE PLATE-RH/LH	PC200-6/7 2KEY	1
6	PISTON ASS'Y	9PCS/SET	2SET
7	BALL GUIDE		2
8	SET PLATE	PC200-6	2
9	SET PLATE	PC200-7/8	2
10	PINI (CYLINDER)		6
11	SPRING(CYLINDER)		2
12	DRIVE SHAFT-LONG		1
13	DRIVE SHAFT-SHORT	PC200-6 6D95	1
14	DRIVE SHAFT-SHORT	PC200-7 6D102	1
15	SERVO PISTON		2
16	TILTING PIN		2
17	CAM ROCKER	PC200-6 OLD L156.3	2
18	CAM ROCKER	PC200-6 NEW L156.3	2
19	CAM ROCKER	PC200-7/8 L153.5	2
20	CRADLE - RH		1
21	CRADLE - LH		1



02 SPARE PARTS

HPV132(PC300-6)/HPV140(PC300-7/8)/HPV165(PC400-7)

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		2
2	VAVLE PLATE - RH		2
3	VAVLE PLATE - LH		2
4	PISTON ASS'Y	9PCS/SET	1SET
5	BALL GUIDE		2
6	SET PLATE		2
7	PIN (CYLINDER)		6
8	DRIVE SHAFT-LONG		1
9	DRIVE SHAFT-SHORT		1
10	CAM ROCKER		2
11	CRADLE-RH		1
12	CRADLE-LH		1



T3V63/112/140/180DT

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK	BUSH	2
1-1	CYLINDER BLOCK	BIMETAL	2
1-2	CYLINDER BLOCK	NON BUSH	2
2	VAVLE PLATE-RH		1
3	VAVLE PLATE-LH		1
4	PISTON ASS'Y	9PCS/SET	2SET
5	BALL GUIDE	STEELBRONZE	2
6	SPACER		2
7	SET PLATE		2
8	SPRING (CYLINDER)	9PCS/SET	1
9	TILTING PIN		1
10	SERVO PISTON		2
11	DRIVE SHAFT-LONG	K3V63DT 14T	1
11-1	DRIVE SHAFT-LONG	K3V112DT 12T/14T/17T	1
11-2	DRIVE SHAFT-LONG	K3V112DT 180DT 12T/14T/17T	1
12	DRIVE SHAFT-SHORT	13T/12T	1
13	SWASH PLATE		2
14	SUPPORT		2



T5V 80/140/180DTP

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK	BUSH	2
1-1	CYLINDER BLOCK	BIMETAL	2
2	VALVE PLATE - RH		2
3	VALVE PLATE - RH		2
4	PISTON ASS'Y	9PCS/SET	2SET
5	BALL GUIDE	STELL	2
6	SET PLATE		2
7	SPRING (CYLINDER)	9PCS/SET	2SET
8	TILTING PIN		2
9	SERVO PISTON		2
10	DRIVE SHAFT-LONG	12T	1
10-1	DRIVE SHAFT-LONG	K5V140DTP,K3V180TP	17T
11	DRIVE SHAFT-SHORT	13T	1
12	SWASH PLATE		2
13	SUPPORT		2



T5V 160/180/200DTH

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK	BUSH	2
1-1	CYLINDER BLOCK	BIMETAL	2
2	VAVLE PLATE - RH		1
3	VAVLE PLATE - LH		1
4	PISTON ASS'Y	9PCS/SET	1SET
5	BALL GUIDE	STEEL	2
6	SET PLATE		2
7	SPRING (CYLINDER)		6
8	TILTING PIN		2
9	SERVO PISTON		2
10	DRIVE SHAFT-LONG	17T	2
11	DRIVE SHAFT-SHORT	13T	2
12	SWASH PLATE		2
13	SUPPORT		2



02 SPARE PARTS

K5V212DP

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		1
2	VAVLE PLATE-PIVOT TYPE		1
3	PISTON ASS'Y	9PCS/SET	1SET
4	BALL GUIDE		1
5	SET PLATE		1
7	DRIVE SHAFT-F		1
8	DRIVE SHAFT-R		1



K3V280DT

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		1
2	VAVLE PLATE		1
3	PISTON ASS'Y	9PCS/SET	1SET
4	BALL GUIDE		2
5	SET PLATE		2
6	SHOE PLATE		1
7	DRIVE SHAFT-F		1
8	DRIVE SHAFT-R		1
13	SWASH PLATE		1



K3SP30/36C

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		1
2	VALVE PLATE		1
3	PISTON ASS'Y	10PCS/SET	2SET
4	BALL GUIDE		1
5	SET PLATE		1
6	SPRING (CYLINDER)	10PCS/SET	1SET
7	TILTING PIN		1
8	SERVO PISTON		1
9	DRIVE SHAFT	SINGLE 13T/252.5L	1
10	DRIVE SHAFT	DOUBLE 10T/280L	1
11	SWASH PLATE		1



KVC925

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		1
2	VALVE PLATE		1
3	PISTON ASS'Y	9PCS/SET	1SET
4	SET PLATE		1
5	SHOE PLATE		1
6	DRIVE SHAFT		1
7	AXLE SHAFT		2
12	AXLE BUSHING		2
13	FIX PLATE		2
14	GUIDE PIECE		1
15	GUIDE RING		1



02 SPARE PARTS

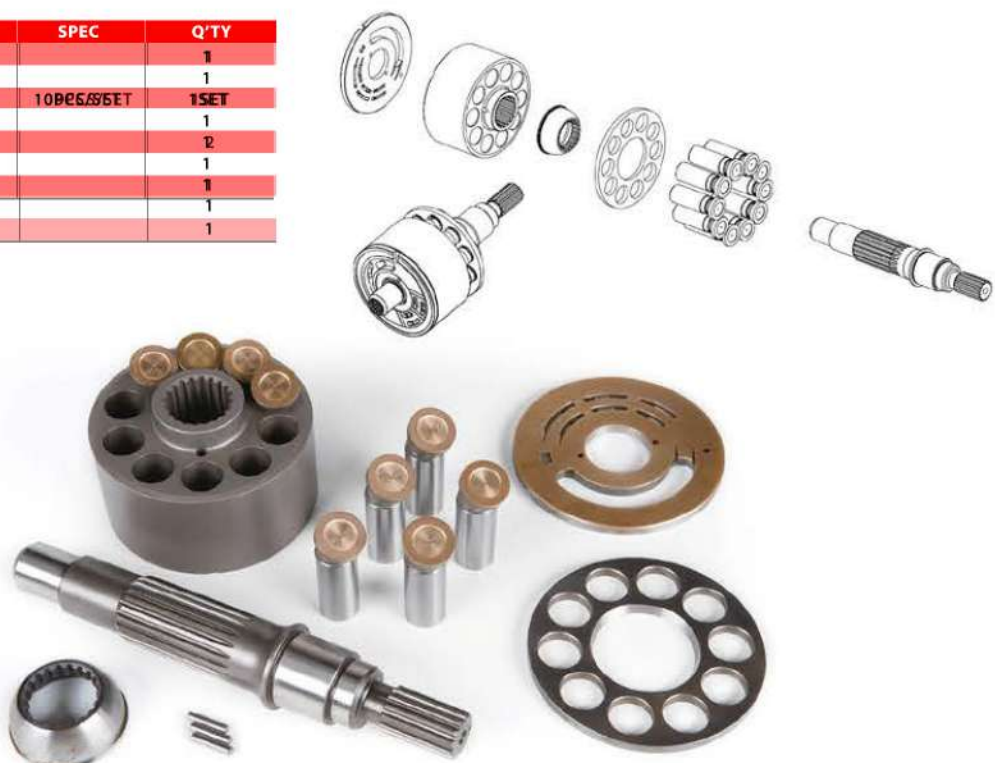
K7V63

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		1
2	VAVLE PLATE-RH		1
3	VAVLE PLATE-LH		1
4	PISTON ASS'Y	9PCS/SET	2SET
5	BALL GUIDE		2
6	SET PLATE		2
7	SHOE PLATE		2
8	DRIVE SHAFT-LONG		1
9	DRIVE SHAFT-SHORT		1
10	SWASH PLATE		2
11	SUPPORT		2



PSVD2-27E

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		1
2	VAVLE PLATE		1
3	PISTON ASS'Y	10PCS/SET	1SET
4	BALL GUIDE		1
5	SET PLATE		2
6	PUSH ROD		1
7	DRIVE SHAFT-F		1
8	DRIVE SHAFT-R		1
9	SWASH PLATE		1



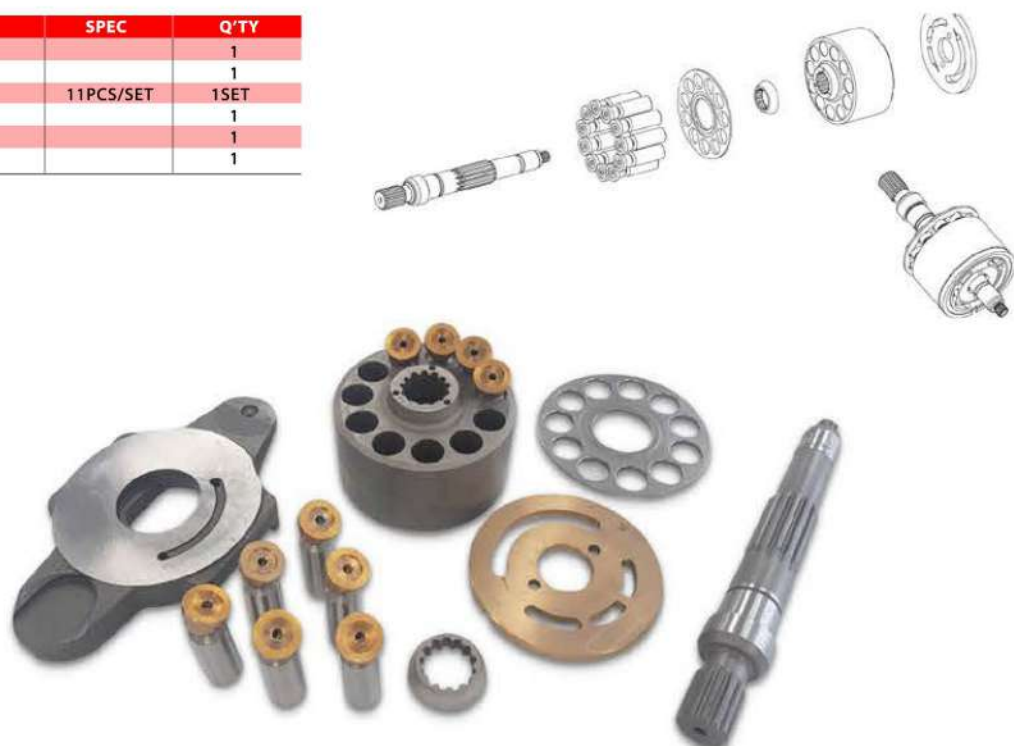
PVD-2B-40

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		1
2	VAVLE PLATE-PIVOT TYPE		1
3	PISTON ASS'Y	11PCS/SET	1SET
4	BALL GUIDE		1
5	SET PLATE		1
6	DRIVE SHAFT		1
7	SWASH PLATE		1



PVK-2B-505

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		1
2	VAVLE PLATE		1
3	PISTON ASS'Y	11PCS/SET	1SET
4	BALL GUIDE		1
5	SET PLATE		1
6	DRIVE SHAFT		1



02 SPARE PARTS

LPD25-PI

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		1
2	VAVLE PLATE-PIVOT TYPE		1
3	PISTON ASS'Y	10PCS/SET	1SET
4	SET PLATE		1
5	BALL GUIDE		1
6	DRIVE SHAFT-PIVOT TYPE		1
7	CAM ROCKER-PIVOT TYPE		1



HPKO55K

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		2
2	VAVLE PLATE-RH		1
3	VAVLE PLATE-LH		1
4	PISTON ASS'Y	9PCS/SET	2SET
5	BALL GUIDE		2
6	SET PLATE		2
7	SHOE PLATE		2
8	DRIVE SHAFT-LONG		1
9	DRIVE SHAFT-SHORT		1
10	SWASH & SUPPORT - RH		1
11	SWASH & SUPPORT - LH		1
12	SUPPORT		2



JMV16/21/23/40/44

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		1
2	VAVLE PLATE		1
3	PISTON ASS'Y	9PCS/SET	1SET
4	BALL GUIDE		1
5	SET PLATE		1
6	SPRING (CLYINDER)	9PCS/SET	1SET
7	DRIVE SHAFT		1
8	SWASH PLATE		1
9	SUPPORT		1

**JMV147**

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		1
2	VAVLE PLATE		1
3	PISTON ASS'Y	9PCS/SET	1SET
4	BALL GUIDE		1
5	SET PLATE		1
6	SPRING (CYLINDER)	9PCS/SET	1SET
7	DRIVE SHAFT		1



02 SPARE PARTS

JMV155

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		1
2	VAVLE PLATE		1
3	PISTON ASS'Y	9PCS/SET	1SET
4	SET PLATE		1
5	BALL GUIDE		1
6	SPRING (CYLINDER)	9PCS/SET	1SET
7	DRIVE SHAFT		1
8	SWASH PLATE		1
9	SUPPORT		1



HMT36

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		1
2	VAVLE PLATE		1
3	PISTON ASS'Y	9PCS/SET	1SET
5	BALL GUIDE		1
5	SET PLATE		1
6	DRIVE SHAFT	20T NEW	1
7	DRIVE SHAFT	23T	1
8	SWASH PLATE		1



R220LC-9

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		1
2	VAVLE PLATE		1
3	PISTON ASS'Y	9PCS/SET	1SET
4	BALL GUIDE		1
5	SET PLATE		1
7	DRIVE SHAFT		1



RMV173/R300

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		1
2	VAVLE PLATE		1
3	PISTON ASS'Y	9PCS/SET	1SET
4	BALL GUIDE		1
5	SET PLATE		1



02 SPARE PARTS

DX225LC(TM40VD)

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		2
2	VAVLE PLATE		1
3	PISTON ASS'Y	9PCS/SET	1SET
4	BALL GUIDE		1
5	SET PLATE		1
6	SPRING (CYLINDER)	9PCS/SET	1SET
7	COUPLING		1
8	DRIVE SHAFT		1
9	SWASH PLATE		1
10	PIVOT		1
11	FRICTION PLATE		2
12	SEPARATION PLATE		2



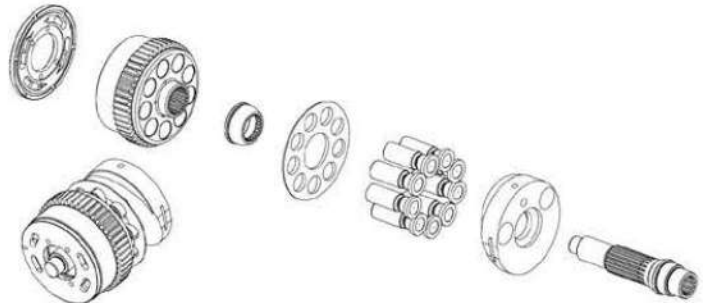
GM06/07/09

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		2
2	VAVLE PLATE		1
3	PISTON ASS'Y	9PCS/SET	1SET
4	BALL GUIDE		1
5	SET PLATE		1
6	SHOE PLATE		1
7	PIN (CYLINDER)		3
8	SPRING (CYLINDER)		1
9	WASHER (CYLINDER)		2
10	COUPLING		1
11	DRIVE SHAFT		1
12	SWASH PLATE		1
13	FRICTION PLATE		2
14	SEPARATION PLATE		2



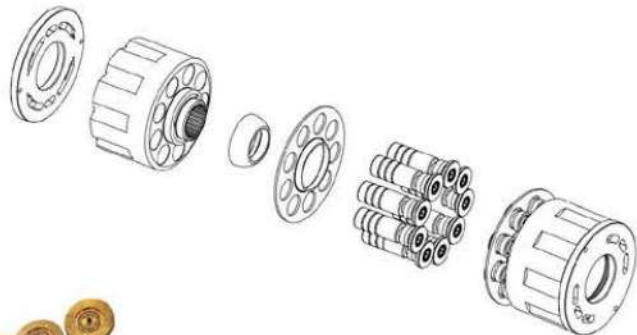
TM10/18

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		2
2	VAVLE PLATE		1
3	PISTON ASS'Y	9PCS/SET	1SET
4	BALL GUIDE		1
5	SPAVER		1
6	SET PLATE		1
7	PIN (CYLINDER)		3
8	SPRING (CYLINDER)		1
9	WASHER (CYLINDER)		2
10	COUPLING		1
11	DRIVE SHAFT		1
12	SWASH PLATE		1
13	FRICTION PLATE		2
14	SEPARATION PLATE		2



GM05/15/17VA

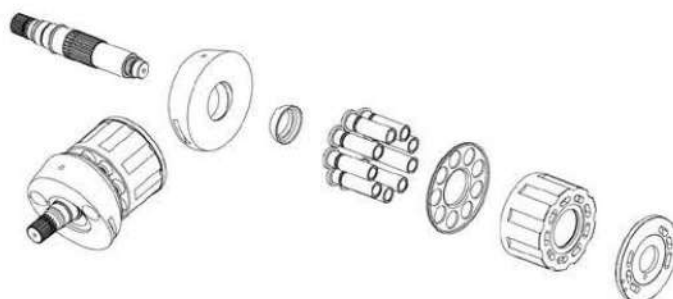
No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		1
2	VAVLE PLATE		1
3	PISTON ASS'Y	9PCS/SET	1SET
4	BALL GUIDE		1
5	SET PLATE		3



02 SPARE PARTS

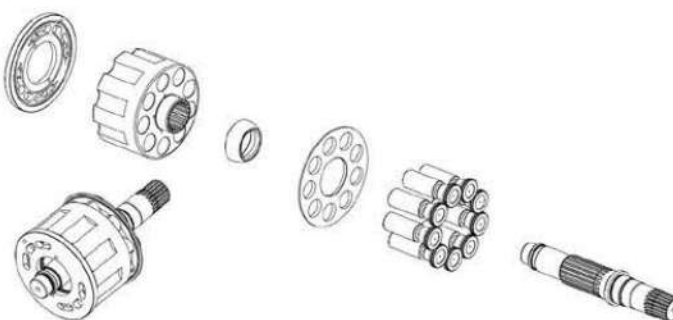
TM35VA/40VC

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK	HTM40VC-BRONZE	1
2	VAVLE PLATE		1
3	PISTON ASS'Y	9PCS/SET	1SET
4	BALL GUIDE		1
5	SET PLATE		1
6	SHOE PLATE		1
7	PIN (CYLINDER)		6
8	SPRING (CYLINDER)		1
9	WASHER (CYLINDER)		2
10	COUPLING		1
11	DRIVE SHAFT		1
12	SWASH PLATE		1
13	FRICTION PLATE		3
14	SEPARATION PLATE		4



GM35VL

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		2
2	VAVLE PLATE		1
3	PISTON ASS'Y	9PCS/SET	1SET
4	BALL GUIDE	BRONZE	1
5	SET PLATE		1
6	SHOE PLATE		1
7	PIN (CYLINDER)		5
8	SPRING (CYLINDER)		1
9	WASHER (CYLINDER)		2
10	COUPLING		1
11	DRIVE SHAFT		1
12	SWASH PLATE		1
13	FRICTION PLATE		2
14	SEPARATION PLATE		2



HMGF68

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		1
2	VAVLE PLATE		1
3	PISTON ASS'Y	9PCS/SET	1SET
4	BALL GUIDE		1
5	SET PLATE		1
6	DRIVE SHAFT		1
7	SWASH PLATE		1



MSF170

No.	DESCRIPTION	SPEC	Q'TY
1	ROTOR		1
2	VAVLE PLATE		1
3	PISTON ASS'Y	9PCS/SET	1SET
4	BALL GUIDE		1
5	SET PLATE		1
6	SHOE PLATE		1
7	DRIVE SHAFT		1



02 SPARE PARTS

MSF340

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		1
2	VAVLE PLATE		1
3	PISTON ASS'Y	9PCS/SET	1SET
4	BALL GUIDE		1
5	SET PLATE		1
6	DRIVE SHAFT		1
7	SWASH PLATE		1



JMF29/43/64/68

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		1
2	VAVLE PLATE		1
3	PISTON ASS'Y	9PCS/SET	1SET
4	BALL GUIDE	BRONZE	1
5	SET PLATE		1
6	SHOE PLATE		1
7	SPRING (CYLINDER)	9PCS/SET	1SET
8	DRIVE SHAFT		1
9	FRICTION PLATE		1
10	SEPARATION PLATE		1



JMF151

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		1
2	VAVLE PLATE		1
3	PISTON ASS'Y	9PCS/SET	1SET
4	BALL GUIDE	BRONZE	1
5	SET PLATE		1
6	SHOE PLATE		1
7	SPRING (CYLINDER)	9PCS/SET	1SET
8	DRIVE SHAFT		1
9	FRICTION PLATE		1
10	SEPARATION PLATE		1



JMF195

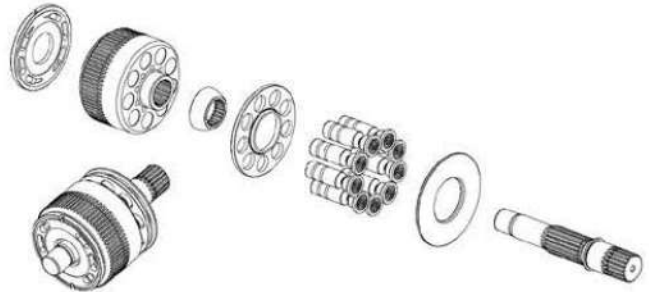
No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		1
2	VAVLE PLATE		1
3	PISTON ASS'Y	9PCS/SET	1SET
4	BALL GUIDE	BRONZE	1
5	SET PLATE		1
6	SHOE PLATE		1
7	SPRING (CYLINDER)	9PCS/SET	1SET
8	DRIVE SHAFT		1
9	FRICTION PLATE		3
10	SEPARATION PLATE		3



02 SPARE PARTS

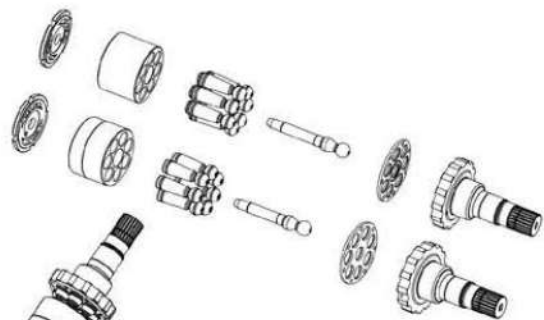
HTMF250

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		1
2	VAVLE PLATE		1
3	PISTON ASS'Y	9PCS/SET	1SET
4	BALL GUIDE	BRONZE	1
5	SET PLATE		1
6	SHOE PLATE		1
7	SPRING (CYLINDER)	9PCS/SET	1SET
8	DRIVE SHAFT		1
9	FRICTION PLATE		3
10	SEPARATION PLATE		3



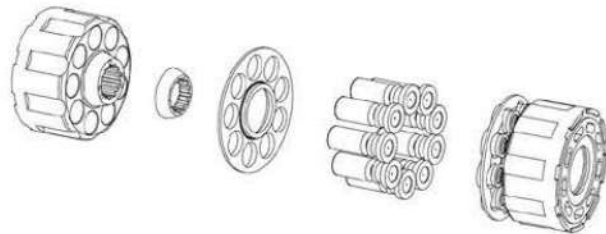
KMF125

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		1
2	VAVLE PLATE		1
3	PISTON ASS'Y(ONE RING)	7PCS/SET	1SET
3-1	PISTON ASS'Y(TWO RING)	7PCS/SET	1SET
4	CENTER PIN		1
5	SET PLATE		1
6	DRIVE SHAFT		1



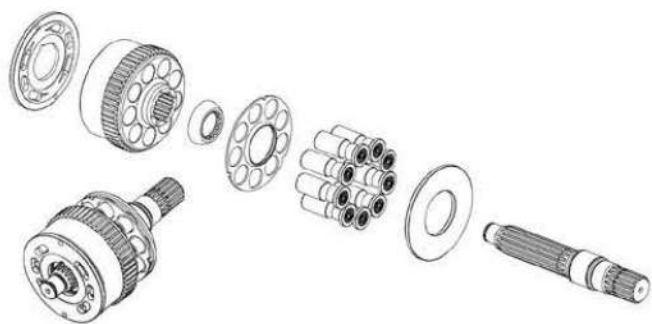
NACHI

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		1
2	PISTON ASS'Y	9PCS/SET	1SET
3	BALL GUIDE	BRONZE	1
4	SET PLATE		1
5	SPRING (CYLINDER)	9PCS/SET	1SET



M2X63/96/120

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		1
2	VALVE PLATE		1
3	PISTON ASS'Y	9PCS/SET	1SET
4	BALL GUIDE	STEEL	1
4-1	BALL GUIDE	M2X63 BRONZE	1
5	SPACER		1
6	SET PLATE		1
7	SHOE PLATE		1
8	PIN (CYLINDER)		12
9	SPRING (CYLINDER)		1
10	WASHER (CYLINDER)		2
11	DRIVE SHAFT		1
12	FRICTION PLATE		2
13	SEPARATION PLATE		3



02 SPARE PARTS

M2X146/150/170/210

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		1
2	VALVE PLATE		1
3	PISTON ASS'Y	9PCS/SET	1SET
4	BALL GUIDE	STEEL	1
4-1	BALL GUIDE	M2X150/170 BRONZE	1
5	SPACER(BALLGUIDE)		1
6	SET PLATE		1
7	SHOE PLATE		1
8	PIN (CYLINDER)		12
9	SPRING (CYLINDER)		1
10	WASHER(CYLINDER)		2
11	DRIVE SHAFT		1
12	FRICTION PLATE		2
13	SEPARATION PLATE		3



M5X130/180

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		1
2	VALVE PLATE		1
3	PISTON ASS'Y	9PCS/SET	1SET
4	SET PLATE		1
5	SHOE PLATE		1
6	DRIVE SHAFT	M5X130 19T/21T	1
7	DRIVE SHAFT	M5X180 13T/16T/21T	1
8	FRICTION PLATE		2
9	SEPARATION PLATE		3



SG04/08/20

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		1
2	VALVE PLATE		1
2-1	VALVE PLATE	SG08	2/4/6 HOLE
3	PISTON ASS'Y	9PCS/SET	1SET
4	SET PLATE		1
5	SPRING (SET PLATE)		1
6	SHOE PLATE		1
7	FRICTION PLATE		2
8	SEPARATION PLATE		3

**R140**

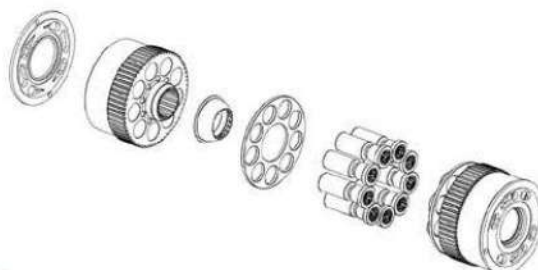
No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		1
2	VAVLE PLATE		1
3	PISTON ASS'Y	9PCS/SET	1SET
4	BALL GUIDE		1
5	SET PLATE		1
6	DRIVE SHAFT		1



02 SPARE PARTS

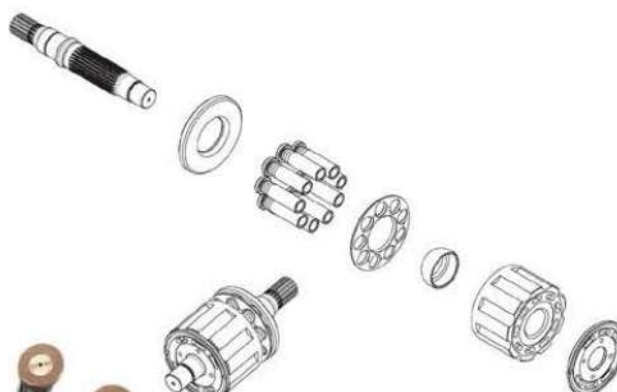
R220LC-9

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		1
2	VAVLE PLATE		1
3	PISTON ASS'Y	9PCS/SET	1SET
4	BALL GUIDE		1
5	SET PLATE		1
6	DRIVE SHAFT		1



HMS072/067

No.	DESCRIPTION	SPEC	Q'TY
1	ROTOR		1
2	VAVLE PLATE		1
3	PISTON ASS'Y	9PCS/SET	1SET
4	BALL GUIDE		1
5	SET PLATE		1
6	SHOE PLATE		1
7	DRIVE SHAFT		1



DX55/60(TSM32)

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		1
2	PISTON ASS'Y	9PCS/SET	1SET
3	SET PLATE		1
4	SHOE PLATE		1
4	BALL GUIDE		1
6	VALVE PLATE		1
7	DRIVE SHAFT		1

**DX140W(TSM86)**

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		1
2	VAVLE PLATE		1
3	PISTON ASS'Y	9PCS/SET	1SET
4	BALL GUIDE		1
5	SET PLATE		1
6	DRIVE SHAFT		1



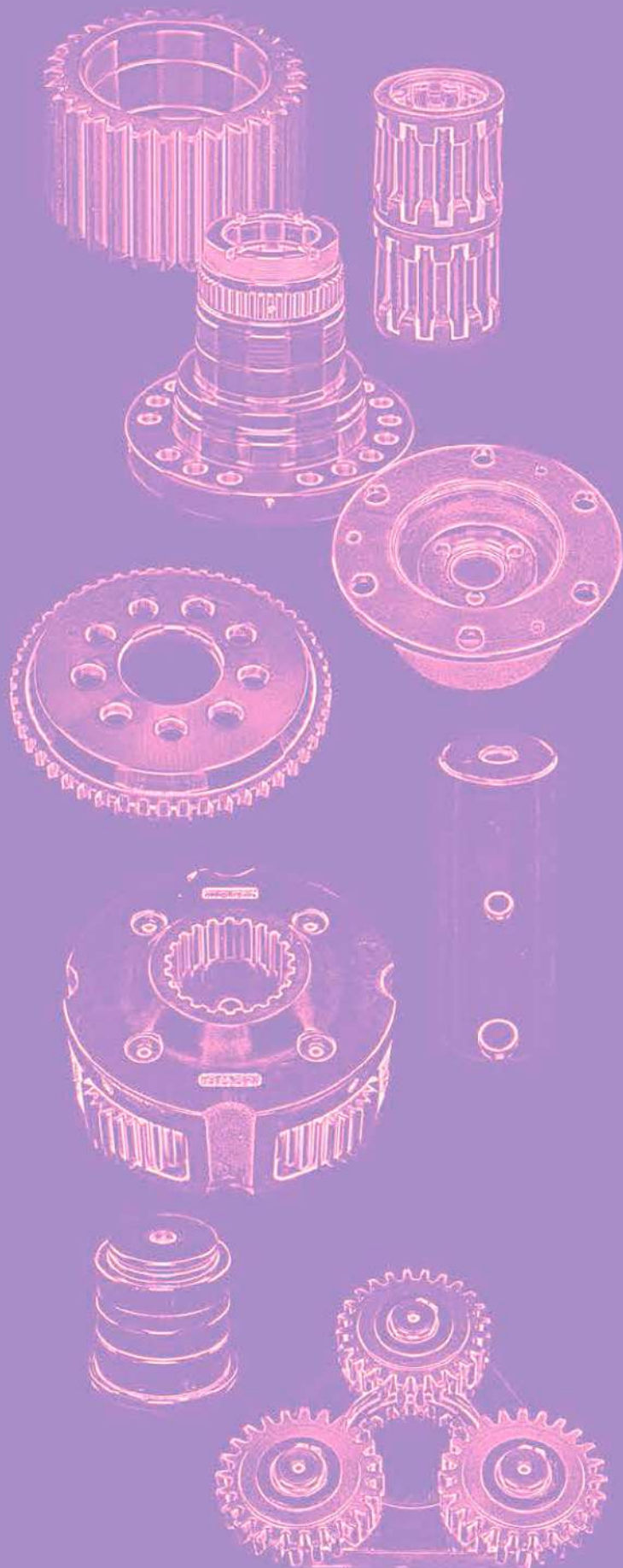
02 SPARE PARTS

DX225LC(TSM140)

No.	DESCRIPTION	SPEC	Q'TY
1	CYLINDER BLOCK		1
2	VAVLE PLATE		1
3	PISTON ASS'Y	9PCS/SET	1SET
4	BALL GUIDE		1
5	SET PLATE		1
6	SHOE PLATE		1
7	SPRING (CYLINDER)	9PCS/SET	1SET
7	DRIVE SHAFT		1



GEAR PARTS CONTENTS



HUB GROUP

555W-5/DX55W/R60W/MX3W-2

EW55B

R1400W-7

S120W

S130W-3/5/R1300W-3

DX140W/R140W

MX6W

S200W-3/5

DX210W

TRAVEL GROUP

S300LC-5

S220LC-5(GM35VA)

DX225LC

S290LC-5

R2200LC-7

EC210B

ZAXI5200

SWING GROUP

555

S13W-5/R1400W-7

S200W-3

S220LC-5

S220LC-7

S330LC-5

S290LC-5

R55

R210-7

MX6W-2/RG045

MX8W-2/MX222

EC120B

EC360B

PC60-7

PC120-6

PC200-6

PC200-7

PC200-8

SK200-1

SK200-3/5/6

SK200-8

03 SPARE PARTS OF HUB AXLE

S55W-5/DX55W/R60W/MX3W-2



CARRIER PLANET

ZTAM-00733/K9006386
171.06.003.05/171.06.003.01
8220-06410



SUPPORT

ZTAM-00721/171.06.004.01
2.197-00070/7415006



RING GEAR

ZTAM-00722/171.06.005.02
171.06.005.01/59917583
2.403-00332



PLANET GEAR

ZTAM-00726/171.06.007.01
2.403-00328/599117625



BEARING

ZTAM-00727/005.13.1365
2.19-00305/8220-00850



PIN

ZTAM-00732/171.06.009.01
2.123-00263/8220-06460



DOUBLE JOINT

ZTAM-00738/278.06.611.03
2.138-00027/8220-08830



SHAFT REAR

ZTAM-00778/171.06.008.13
171.06.008.09/8220-06450



FORK JOINT

ZTAM-00738A



FORK DOUBLE SHIFT

ZTAM-00738

EW55B



CARRIER PLANET

14503998



RING GEAR

7113-52300



SUPPORT

7113-52310



PLANET GEAR

7113-52420



BEARING

7113-52470DB



PIN

14504000



DOUBLE JOINT

7113-52500



SHAFT REAR

7116-12100/14539324

R1400W-7**CARRIER PLANET**ZTAM-00579/ZTAM-00076
112.06.052.02**RING GEAR**

ZTAM-0069/112.06.005.04

**SUPPORT**

ZTAM-0070/112.06.007.07

**PLANET GEAR**

ZTAM-0072/112.06.006.03

**BEARING**

ZTAM-00073/112.06.008.02

**DOUBLE JOINT**

ZTAM-00509/212.06.610.03

**SHAFT REAR**

ZTAM-00114/112.06.002.01

**FORK JOINT**

ZTAM-00509A

**FORK DOUBLE SHIFT**

ZTAM-00509C

S120W**RING GEAR**

4472 379 099 182 Ø

**PLANET GEAR**

4472 353 463

**ROLLER BEARING**

0750 118 072

**SUN GEAR-FRONT**

4472 373 190

**SUN GEAR-REAR**

4472 319 095

03 SPARE PARTS OF HUB AXLE

S130W-3/5 /R1300W-3



CARRIER PLANET

4472 386 005



RING BEAR

4472 319 218 180
4472 319 166 182 S130W



HUB

4472 373 226



HUB CARRIER; SPINDLE

4472 219 050



HUB NUT



DISC CARRIER REAR

4472 322 013



DISC CARRIER FRONT

4472 377 037



PLANET GEAR

4472 364 006/4472 364 264



ROLLER BEARING

0735 455 281



SUN GEAR FRONT

4472 319 157



SUN GEAR REAR

4472 319 161



ANGLE RING

0501 309 954

DX140W/R140W



CARRIER PLANET ASS'Y(OLD)

ZGAQ-02931
K9001545(OLD)



CARRIER PLANET ASS'Y(NEW)

ZGAQ-02931
100502-00130(NEW)



RING GEAR

ZGAQ-02920
K9001535/130422-00021



PLANET GEAR (OLD)

K9001547/4472 347 008

DX140W/R140W



PLANET GEAR (NEW)

ZGAQ-02933/130413-00005



ROLLER BEARING

1.109-00089/0735 455 281



ROLLER BEARING

ZGAQ-03163
140107-00072/0735 455 323



SUN GEAR RR

ZGAQ-02951/K9001 556



ANGLE RING

1.115-00178/0501 309 954



RETAINER RING

1.115-00038/0630 501 029



RETAINER RING

ZGAQ-02935/111104-00086

MX6W



RING GEAR

7114-17500



PLANET GEAR

7114-12710/14546564



SUN GEAR REAR

7116-12100/14539324

S200W-3/5



PLANET GEAR

4472 320 099/4472 319 095
4472 319 072/ZGAQ-01306



SUN GEAR FR

4472 375 005/ZGAQ-01321



SUN GEAR RR

4472 321 007



PLANET GEAR

ZGAQ-02226
K9004164/4472 348 032



RING GEAR

ZGAQ-02211/K90041671
4472 348 049



SUN GEAR RR

ZGAQ-03208/ZGAQ-02204
K9004163/4472 348 028

DX210W

04 SPARE PARTS OF HUB AXLE

S55



CARRIER ASS'Y NO.1



CARRIER ASS'Y NO.2



SUN GEAR NO.1



PLANET GEAR NO.1



PIN NO.1



BEARING NO.1



SUN GEAR NO.2



PLANET GEAR NO.2



PIN NO.2

S130W-5/R1400W-7



CARRIER ASS'Y NO.2

XKAQ-00272/230-0001KT



CARRIER ASS'Y NO.2

XKAQ-00272/230-0001KT



RING GEAR

XKAQ-00102/104-00019



DRIVE SHAFT (DOOSAN)

405-00006



DRIVE SHAFT (HYUNDAI)

XKAQ-00249



SUN GEAR NO.1

XKAQ-00277/404-00066



PLANET GEAR NO.1

XKAQ-00099/404-00065



PIN NO.1

XKAQ-00094/123-00095



SUN GEAR NO.2 (DOOSAN)

404-00064



SUN GEAR NO.2 (HYUNDAI)

XKAQ000278



PLANET GEAR NO.2

XKAQ-00101/404-00063



PIN NO.2

KXAQ-00095/123-00094

S200W-3**CARRIER ASS'Y NO.1**

2230-1016KT

**CARRIER ASS'Y NO.2**

2230-1029KT

**RING GEAR**

2104-1011

**SUN GEAR NO.1**

2101-1012

**PLANET GEAR NO.1**

2101-1011

**NEEDLE RING**

2216-9001

**PIN NO.1**

2123-1632

**SUN GEAR NO.2**

2101-1010

**PLANET GEAR NO.2**

2101-1009

**PIN ASS'Y NO.2**

2123-1638

S220LC-5**CARRIER ASS'Y NO.1**

230-00050

**CARRIER ASS'Y NO.2**

230-00051

**RING GEAR**

2104-1013

**SUN GEAR NO.1**

2104-1019

**PLANET GEAR NO.1**

2104-1020

**PIN NO.1**

2123-2327

**SUN GEAR NO.2**

2104-1021

**PLANET GEAR NO.2**

2104-1022

**PIN NO.2**

2123-2322

**BUSHING NO.2**

2110-1371

**CENTER WASHER**

2114-1902

03 SPARE PARTS OF HUB AXLE

S220LC-7



CARRIER ASS'Y NO.1

K90D6810/K9008337
230-00060 CARRIER ONLY



CARRIER ASS'Y NO.2

K90D6811/K9008338
230-00061 CARRIER ONLY



RING GEAR

104-00051/130422-00001
K1038210



SUN GEAR

104-00047/130425-00001



PLANET GEAR NO.1

104-00049



PIN NO.1

123-00435



SUN GEAR NO.2

104-00048



PLANET GEAR NO.2

104-00050



PIN NO.2

123-00437/K1038208



BUSHING NO.2

110-00219

S300LC-5



CARRIER ASS'Y NO.1

230-00066



CARRIER ASS'Y NO.2

230-00067



RING GEAR

104-00046



SUN GEAR NO.1

101-00024



PLANET GEAR NO.1

104-00041



PIN NO.1

123-00457



PIN ION GEAR

404-00092



SUN GEAR NO.2

104-00045



PLANET GEAR NO.2

104-00044



PIN ASS'Y NO.2

123-00471



BUSHING NO.2

110-000231

S330LC-5



CARRIER ASS'Y NO.1 (3P)

230-00064



CARRIER ASS'Y NO.1 (4P)

230-00068



CARRIER ASS'Y NO.2

230-00065



RING GEAR

104-00040



SUN GEAR NO.1 (3P) 22T

104-00038



SUN GEAR NO.1 (4P) 19T

104-00043



PLANET GEAR NO.2

104-00042



PIN NO.1

125051-00457



PINION GEAR

2404-1065



SUN GEAR NO.2

104-00039



PLANET GEAR NO.2

104-00037



PIN ASS'Y NO.2

123-00459



BUSHING NO.2

100-00228

R55



CARRIER ASS'Y NO.1

XKBR-00010



CARRIER ASS'Y NO.2

XKBR-00012



SUN GEAR NO.1

XKBR-00009



PLANET GEAR NO.1

XKBR-00021



SUN GEAR NO.2

XKBR-00007



PLANET GEAR NO.2

XKBR-00028

04 SPARE PARTS OF HUB AXLE

R210-7



CARRIER ASS'Y NO.1

XKQA-00754
XKQA-00266/268
XKQA-00015 CARRIER ONLY



CARRIER ASS'Y NO.2

XKQA-00753/XKQA-00270
XKQA-00075 CARRIER ONLY



RING GEAR

XKQA-00073



SUN GEAR NO.1 16T

XKQA-00010/XKQA-00648



SUN GEAR NO.1 13T

XKQA-00067



PLANET GEAR NO.1

XKQA-00025



NEEDLE BEARING

XKQA-00030



PIN NO.1

XKQA-00019



PINION GEAR

XKQA-00014



SUN GEAR NO.2

XKQA-00011



PLANET GEAR NO.2

XKQA-00023



PIN ASS'Y NO.2

XKQA-00070

MX6W-2/RG04S



CARRIER ASS'Y NO.1

7213-046KT



CARRIER ASS'Y NO.2

7513-043KT



RING GEAR

7514-183



SUN GEAR NO.1

7514-184



PLANET GEAR NO.1

7514-186



PIN NO.1

7510-001



SUN GEAR NO.2

7514-188



PLANET GEAR NO.2

7514-189



PIN NO.2

7509-155



BUSHING NO.2

7591-009

MX8W-2/MX222



CARRIER ASS'Y NO.1

7118-00560



CARRIER ASS'Y NO.2

7118-01771



RING GEAR

7118-00220



SUN GEAR NO.1

7118-00200



PLANET GEAR NO.1

7118-00191

MX8W-2/MX222**PIN ASS'Y NO.1**

7118-00630

**SUN GEAR NO.2**

7118-00091

**PLANET GEAR NO.2**

7118-00121

**PIN NO.2**

7118-00140

**BUSHING NO.2**

7118-00130

EC210B**CARRIER ASS'Y NO.1**7118-30400/14528725
7118-30410 CARRIES ONLY**CARRIER ASS'Y NO.2**7118-30200
7118-30210 CARRIES ONLY**RING BEAR**

7118-30350

**SUN GEAR NO.1**

7118-30490

**PLANET GEAR NO.1**

7118-30420

**PIN NO.1**

7118-30430

**BEARING NO.1**

7118-30440/14550879

**SUN GEAR NO.2**

7118-30390

**PLANET GEAR NO.2**

7118-30220

**PIN ASS'Y NO.2**

7118-30230

EC360B**CARRIER ASS'Y NO.1**

8230-22850/14519956

**CARRIER ASS'Y NO.2**

8230-22660KT/14596614

**RING BEAR**

8230-22750

**PINION GEAR**

1055-00481

**SUN GEAR NO.2**

8230-22760

**PLANET GEAR NO.1**

8230-22770

**PIN NO.1**

8230-22600

**SUN GEAR NO.2**

8230-22790/14596620

**PLANET GEAR NO.2**

8230-22780/14596616

**PIN NO.2**

8230-22570

**BUSH NO.2**

8230-22880

04 SPARE PARTS OF HUB AXLE

PC60-7



PC120-6



PC200-6**CARRIER ASS'Y NO.1**

20Y-26-22160

**CARRIER ASS'Y NO.2**

20Y-26-22170

**SUN GEAR NO.1 22/19T**

20Y-26-22110

**PLANET GEAR NO.1 39T**

20Y-26-22120

**PIN NO.1**

20Y-26-22240

**BEARING NO.1**

20Y-26-2180

**PINION SHAFT**

20Y-26-21141

**SUN GEAR NO.2**

20Y-26-21131

**PLANET GEAR NO.2**

20Y-26-22150

**PIN NO.2**

20Y-26-22250

**BEARING NO.2**

20G-26-11240

PC200-7**CARRIER ASS'Y NO.1**

22U-26-21570

**CARRIER ASS'Y NO.2**

22U-26-21580

**SUN GEAR NO.1**

22U-26-21510

**PLANET GEAR NO.1**

22U-26-21520

**PIN NO.1****BEARING NO.1**

20Y-26-21281

**PINION SHAFT**

20U-26-21560

**SUN GEAR NO.2**

22U-26-21530

**PLANET GEAR NO.2**

22U-26-21540

**PIN NO.2**

20Y-27-21280

**BEARING NO.2**

20G-26-11240

04 SPARE PARTS OF HUB AXLE

PC200-8



CARRIER ASS'Y NO.1

22U-26-21572KT



CARRIER ASS'Y NO.2

22U-26-21580KT



SUN GEAR NO.1

22U-26-21510



PLANET GEAR NO.1

22U-26-21520



PIN NO.1

22U-26-21210



BEARING NO.1

20Y-26-21281



PINION SHAFT

206-26-69111



SUN GEAR NO.2

22U-26-21530



PLANET GEAR NO.2

22U-26-21540



PIN NO.2

20Y-26-22250



BEARING NO.2

20G-26-11241

SK200-1



CARRIER ASS'Y NO.1



CARRIER ASS'Y NO.2



SUN GEAR NO.1



PLANET GEAR NO.1



PIN NO.1



BEARING NO.1



SUN GEAR NO.2



PLANET GEAR NO.2



PIN NO.2



BUSHING NO.2

SK200-3/5/6



CARRIER ASS'Y NO.1



CARRIER ASS'Y NO.2



SUN GEAR NO.1



PLANET GEAR NO.1



PIN NO.1



BEARING NO.1



SUN GEAR NO.2



PLANET GEAR NO.2



PIN NO.2



BUSHING NO.2

SK200-8



CARRIER ASS'Y NO.1



CARRIER ASS'Y NO.2



SUN GEAR NO.1



PLANET GEAR NO.1



PIN NO.1



BEARING NO.1



SUN GEAR NO.2



PLANET GEAR NO.2



PIN NO.2



BUSHING NO.2

05 SPARE PARTS OF TRAVEL MOTOR

S300LC-5



CARRIER ASS'Y NO.1

K1003027



CARRIER ASS'Y NO.2

K1003028



CARRIER ASS'Y NO.3

K1003029



PLANET GEAR NO.1

K9000799



PLANET GEAR NO.2

K9000795



PLANET GEAR NO.3

K9000791



SUN GEAR NO.1

K9000602



SUN GEAR NO.2

K9000793



SUN GEAR NO.3

K9000794



PIN NO.1

K9000801



PIN NO.2

K9000797



BEARING NO.2



PIN NO.3

K9000793



BEARING NO.2

S220LC-5(GM35VA)



CARRIER/CARRIER ASS'Y

112567A/XKAH-00449 & 11256KT



RING GEAR A

119807/XKAH-00448



RING GEAR B

119808(55T)/XKAH-00447)



COUPLING GEAR

112566A/XKAH-00444



COUPLING

107589/XKAH-00022



SUN GEAR

119537/XKAH-00445



CLUSTER GEAR

119536(19T)/XKAH-00446



CLUSTER PIN

112568A, 124156A
XKAH-00443



NEEDLE BEARING

211663/XKAH-00433



THRUST COLLAR

119884/XKAH-00440

DX225LC(GM40VC)


CARRIER/CARRIER ASS'Y

1.230-00054
XKAH-00909/143527&
1.230-00053/XKAH-00908


RING GEAR A

1.104-00001/XKAH-00904


RING GEAR B

1.104-00003(56T)
XKAH-00914/143530


COUPLING GEAR

1.104-00002
XKAH-00907/143529


COUPLING

1.414-00009/XKAH-00022


SUN GEAR

1.403-00111/XKAH-00445


CLUSTER GEAR

1.404-00007(20T)
XKAH-00910/143528


CLUSTER PIN

1.405-00121
XKAH-00911/143526


THRUST COLLAR

1114-00541/XKAH-00912


DRIVE GEAR

K9007390


SUN GEAR NO.2

K9007391


NEEDLE BEARING

1.109-00145/XKAH-00913

S290LC-5


CARRIER ASS'Y NO.1

3550BX000-05


SUN GEAR NO.1

35050BAA-009


SUN GEAR NO.2

35050BAA-010


SUN GEAR NO.3

35050BAA-011


PLANET GEAR NO.1

35050BAA-012


PLANET GEAR NO.2

35050BAA-013


PLANET GEAR NO.3

35050BAA-014

05 SPARE PARTS OF TRAVEL MOTOR

R2200LC-7



CARRIER ASS'Y NO.1

XKAQ-00233



CARRIER ASS'Y NO.2

XKAQ-00226



SUN GEAR NO.1

XKAQ-00242



PLANET GEAR NO.1

XKAQ-00237



PIN NO.1

XKAQ-00240



BEARING NO.1

XKAQ-00238



SUN GEAR NO.2

XKAQ-00235



PLANET GEAR NO.3

XKAQ-00228



PIN NO.2

XKAQ-00231



BEARING NO.2

XKAQ-00229

EC290B



CARRIER ASS'Y NO.1

7117-38201



CARRIER ASS'Y NO.2

7117-3821D



SUN GEAR NO.1

7117-38371



SUN GEAR NO.2

7117-38400



SUN GEAR NO.3

7117-38330



PLANET GEAR NO.1

7117-38431



PLANET GEAR NO.1

7117-38350



PIN NO.1



PIN NO.2



BEARING NO.1



BEARING NO.2

EC210B**CARRIER ASS'Y NO.1**

7117-30270/14528727

**CARRIER ASS'Y NO.2**

7117-30200/14528723

**SUN GEAR NO.1**

7117-30330

**PLANET GEAR NO.1**

7117-30340

**PIN NO.1**

7117-30360

**BEARING NO.1**

7117-30320

**SUN GEAR NO.2**

7117-30290

**PLANET GEAR NO.2**

7117-30240

**PIN NO.2**

7117-30250

**BUSHING NO.2**

7117-30230

ZAXIS200**CARRIER ASS'Y NO.1 (OLD)**

1025826

**CARRIER ASS'Y NO.1 (NEW)**

1050691

**CARRIER ASS'Y NO.2**

2042432

**SUN GEAR NO.1 (OLD)**

2042351 (25*20T)

**SUN GEAR NO.1 (NEW)**

2050692 (25*23T)

**PLANET GEAR NO.1 (OLD)**

3082148(21T)

**PLANET GEAR NO.1 (OLD)**

3100544 (23T)

**PIN NO.1**

1025826

**BEARING NO.1**

4387383

**SUN GEAR NO.2**

3082149(20*22T)

**PLANET GEAR NO.2**

3082155(21T)

**PIN NO.2**

4402086

**BEARING NO.2**

4438592

EX120/ZAXIS120**SUN GEAR NO.1**

21*15T

**SUN GEAR NO.2**

24*15T

HITACHI GEAR

EX200/ZX200



GEAR SHAFT

3055594 (18*10T)



DRIVE GEAR

3063840 (34*18T)



DRIVE GEAR (LH)

3063842 (34*19T)



DRIVE GEAR (RH)

3063843 (34*19T)

EX300/ZX300



CENTER GEAR

3035852 (39*19T)



DRIVE GEAR

3035852 (37*19T)



DRIVE GEAR

3035853 (39*15T)



GEAR PUMP SHAFT

3038090 (15*19*10T)

EX330/ZX330



DRIVE GEAR

37*15T



DRIVE GEAR

41*19T

REDUCTION GEAR



GM09	THRUST WASHER (P/L GEAR)	
	SUN GEAR	
	PLANETARY GEAR-R	
	DRIVE GEAR	
	CENTER GEAR	16*14T
	P/GEAR	14*15T
	P/GEAR	32*18T
	P/GEAR	38*18T
	P/GEAR	39*18T
	PLANETARY GEAR-F	
GM10/18VC	CENTER GEAR SHAFT	
	PLANETARY GEAR-F	
	PLANETARY GEAR-R	
	THRUST WASHER (P/L GEAR)	
	SUN GEAR	
GM17	DRIVE GEAR	
	GEAR	27*26T
	GEAR	26*26T
	GEAR	14*15T
	GEAR	15*15T
	GEAR	16*15T

REDUCTION GEAR



GM18	GEAR	22*26T
	GEAR	38*26T
	GEAR	43*26T
	GEAR	44*26T
	GEAR	45*26T
	T/GEAR	14*13T
	T/GEAR	14*17T
	T/GEAR	16*14T
	T/GEAR	16*15T
	T/GEAR	16*16T
GM24VA	COUPLING GEAR	
	SUN GEAR	
	CLUSTER GEAR	
GM35VL	P/GEAR (M2.75)	43*30T
	P/GEAR	30*30T
	T/GEAR	12*21T
	T/GEAR	16*21T*107L
	T/GEAR	17*21T
	T/GEAR	18*21T
	T/GEAR	20*21T
	T/GEAR	23*21T
	P/GEAR	44*30T
	P/GEAR (M3)	43*30T
	P/GEAR	42*30T
	P/GEAR	40*30T

REDUCTION GEAR



MODEL	PART NO.	DESCRIPTION
R3700LC-7 (TM70) DX300LC (TM50/60)	404-00080	SUN GEAR NO.1
	404-00081 XKAH-00993	SUN GEAR NO.2
	404-00080 XKAH-00994	SUN GEAR NO.3
	404-00082A/13985	SUN GEAR NO.3
	1.403-00061	PLANET GEAR NO.1
	1.403-00065 XKAH-00996	PLANET GEAR NO.2
	104-0036 XKAH-00997	PLANET GEAR NO.3
2HL100 SQUARE TYPE	4143 315 026	CARRIER PLANET
	4143 315 024	PLANET GEAR
	4143 302 013	INPUT SHAFT
CAT320		SUN GEAR NO.2
CAT320C		SUN GEAR NO.2
DH220-5		P/GEAR
		S/GEAR
DH55		P/GEAR NO.1
	2404-1044	P/GEAR NO.2
	2404-1040	SUN GEAR NO.2

MODEL	PART NO.	DESCRIPTION
DX380	K9005494	P/GEAR NO.1
	K9005496	SUN GEAR NO.1
JMV16/21/23		DRIVE GEAR
		SUN GEAR
		P/GEAR-R NO.1
		P/GEAR-F NO.2
JMV40/44	XKAY-00397	SUN GEAR NO.2
	XKAY-00404	DRIVE GEAR (YHHD-6)
MAG85VP		SUN GEAR (12*17T)
S130W	4143-315-028	SUN GEAR (TRANS MISSION)
	4143-315-024	PLANET GEAR (TRANS MISSION)
S150W		RING GEAR (HUB)
S180W-V	4472-377-046	SUN GEAR F (R170W-V)
PC40-5		CENTER GEAR (18*14T)
PC60-3/5 (SK03)		SPUR GEAR (25*18T)
PC60-6 (SK60)		SPUR GEAR(34*18T)
		SPUR GEAR(38*18T)
		SPUR GEAR (39*18T)
PC120-5 (SK120)		T/GEAR (15/14T)
		T/GEAR (15/14T)

07 SHAFT

1	A8V0107(CAT225)		SHAFT R
2	A8V0107(CAT320)	370609	SHAFT R
3	A8V0107(CAT320)		SHAFT L
4	A8V107		SHAFT R
5	A8V107		SHAFT L
6	A8V0200(CAT)		SHAFT R
7	A8V0200(CAT)		SHAFT L
8	A8V86		SHAFT R
9	A8V86		SHAFT L
10	A8V0160		SHAFT R
11	A8V0160		SHAFT L
12	AP5S53		DRIVE SHAFT
13	CAT311		MOTOR SHAFT(17*24T)
14	CAT320B(5-46-1)		PINION SHAFT
15	CAT320C		PINION SHAFT
16	DNB08		DRIVE SHAFT
17	EX120-5		DRIVE SHAFT(Ø30)
18	EX120-5		DRIVE SHAFT(Ø25)
19	EX200-1		GEAR PUMP SHAFT(15*19*10T)
20	EX200-5	3055594	GEAR SHAFT(18*10T)
21	GM06VL/PC50UU		DRIVE SHAFT(17*14T*220L)
22	GM07		CRANK SHAFT
23	GM08		CRANK SHAFT
24	GM09		SHAFT
25	GM09		CRANK SHAFT
26	GM09(6-45)		CENTER GEAR SHAFT
27	GM09		DRIVE SHAFT
28	TM09VC	142864/XKAH-00832	DRIVE SHAFT
29	TM10/18VC		SHAFT
30	GM18		PUMP SHAFT(211)
31	GM18		PUMP SHAFT(205)
32	TM18VC		CRANK SHAFT
33	TM18VC		DRIVE SHAFT
34	TM24VA	135209/116971	DRIVE SHAFT
35	TM24VA	127047	CLUSTER SHAFT
36	TM35VA	112568A/124156	CLUSTER SHAFT
37	GM35VL	131155	DRIVE SHAFT(DOOSAN TYPE)
38	GM35VL	131679	DRIVE SHAFT(VOLVO TYPE)
39	GM35VL		DRIVE SHAFT(EM140V25)
40	GM35VL		CRANK SHAFT
41	TM40VC		CLUSTER SHAFT
42	TM40VC/35VA	112580	DRIVE SHAFT
43	HMG C16A		SHAFT
44	HMG C32		SHAFT
45	HMG F35/36		SHAFT
46	HMG F48		SHAFT
47	HMG F57		SHAFT
48	HMT36		DRIVE SHAFT(23*26T*223L)
49	HMT36		DRIVE SHAFT(20*26T*225L)
50	HPK055K		DRIVE SHAFT F
51	HPK055K		DRIVE SHAFT R
52	HYMS22T/R220LC-9		DRIVE SHAFT(T/M)
53	JMV40/44(Ø31.5)		
54	JMV40/44(Ø32)	XXAY-00334	DRIVE SHAFT(14*21*157L)
55	K3SP36C		DOUBLE SHAFT(17T)
56	K3SP36C		SINGLE SHAFT(13T)
57	K3V112BDT		DRIVE SHAFT (14*14*13*306L)
58	K3V112BDT		DRIVE SHAFT R-12T
59	K3V112BDT		DRIVE SHAFT R-13T
60	K3V112DTP PTO CASE		IDLE SHAFT
61	K3V112RS		DRIVE SHAFT

62	K3V180RS		DRIVE SHAFT
63	K3V63BDT		DRIVE SHAFT R-13T(206.5L)
64	K3V63BDT		DRIVE SHAFT F
65	K3V63BDT		DRIVE SHAFT R-13T(199L)
66	K3V63BDT		DRIVE SHAFT R-12T
67	K3V63RS		DRIVE SHAFT RS
68	K5V200DPH		DRIVE SHAFT R(13*12*16*16*450)
69	K5V200DPH		DRIVE SHAFT S(13*16*16*396.5)
70	K5V200DPH		DRIVE SHAFT S(13*16*24*15*473.5)
71	K5V200DPH		DRIVE SHAFT F(15*16*24*15*500.5)
72	K5V200DPH		DRIVE SHAFT R(10*12*16*16*450)
73	K5V200DTH		DRIVE SHAFT F(13*16*17*415)
74	K5V200DTH		DRIVE SHAFT R(13*16*10*322)
75	K5V200DTH		DRIVE SHAFT R(13*16*13*322)
76	K7V63DT		DRIVE SHAFT F
77	K7V63DT		DRIVE SHAFT R
78	KMF41(PC60-7)S/M		DRIVE SHAFT(18*13T*157.3L)
79	KVC925		AXLE SHAFT
80	M2X96		DRIVE SHAFT
81	M5X130	640601	DRIVE SHAFT(14*19T 235.5)
82	M5X130		DRIVE SHAFT(14*21T 241L) CAT
83	M5X180		DRIVE SHAFT(15*13T*292MM)
84	M5X180		DRIVE SHAFT(15*16T*265MM)(KOBELCO)
85	MAG150		DRIVE SHAFT
86	MAG170		DRIVE SHAFT(25*22T 264L)
87	MCB172		DRIVE SHAFT
88	MSF170		DRIVE SHAFT
89	PC120-5(HTM17)		DRIVE SHAFT
90	PC120-5(SK120)		DRIVE SHAFT(27T*30T*31L)
91	PC120-6		PINION SHAFT
92	PC200-5		DRIVE SHAFT(T/M)
93	PC200-6		PUMP SHAFT(T/M NEW)14*18T L207
94	PC200-6		PUMP SHAFT(T/M OLD) 22*16T L246.3
95	PC200-6		PINION SHAFT
96	PC300-6		DRIVE SHAFT F
97	PC300-6		DRIVE SHAFT R
98	PC300-7		DRIVE SHAFT F
99	PC300-7		DRIVE SHAFT R
100	PC40		DRIVE SHAFT(13*15*130L)
101	PC60-3/5		DRIVE SHAFT F
102	PC60-3/5		DRIVE SHAFT R
103	PC60-6/7		DRIVE SHAFT (T/M) 20*14*179.6L
104	PC60-6/7		DRIVE SHAFT (T/M) 14*22*172L
105	PSV2-55		DRIVE SHAFT
106	PSVD2-27E		DRIVE SHAFT
107	PVK-2B-505		DRIVE SHAFT
108	R1400W		XKAQ-00249 PINION SHAFT
109	S130W-V	405-00006	PINION SHAFT
110	S300-5/JMV155		DRIVE SHAFT T/M
111	S330LC-5	J98A2002	DRIVE SHAFT
112	S55/HTMF43/HTMF29	M50D103 XKAY-00120	DRIVE SHAFT
113	SBS120/140		DRIVE SHAFT L
114	SBS140		DRIVE SHAFT R
115	SBS80		DRIVE SHAFT R
116	SBS80		DRIVE SHAFT L
117	SH200-A3		DRIVE SHAFT (20*25T 202L)
118	SK200-2/5		DRIVE SHAFT
119	SPK10/10		DRIVE SHAFT F
120	SPK10/10		DRIVE SHAFT R
121	VRD63		DRIVE SHAFT F
122	VRD63		DRIVE SHAFT R

MAIN PUMP SPARE PARTS

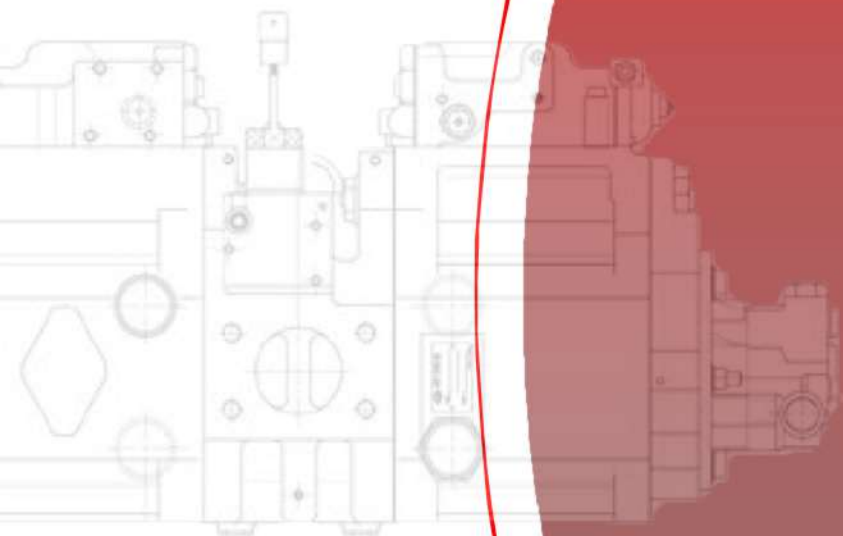
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	T3V140DT
	T3V180DT
	T3V280DT
	T5V140DTP
	T5V180DTP
	T5V160DTH
	T5V180DTH
	T5V200DTH
	T5V212DP(CAT345D)
	K3SP36
KOMATSU	HPV55(PC120-3/5)
	HPV75(PC60-7)
	HPV90(PC200-3/5)
	HPV95(PC200-6/7)
	HPV140(PC300-7)
	HPV165(PC400-7)
	LPD25-PI
HITACHI	HPK055K
	HPV116(EX200)
	HPVO91(EX200-2)
	HPV102(EX200-5)
	HPV118(ZX200-3/5)
	HPV145(EX300)
REXROTH/UCHIDA	A8V55
	A8V86
	A8V107
	A8VO80
	A8VO107
	AP2D21
	AP2D25
	AP2D28
	AP2D36
CATERPILLAR	AP12(E200B)
	SBS80
	SBS120
	SBS140
KAYABA	PSVD2-27E
NACHI	PVD-2B-40
	PVK-2B-505

SWING MOTOR SPARE PARTS

KAWASAKI	M2X63
	M2X96
	M2X120
	M2X146
	M2X150
	M2X170
	M2X210
	M5X130
	M5X180
EATON	JMF29
	JMF43
	JMF64
	JMF68
	JMF151
	JMF195
	JMF250
HITACHI	HMS072/067
SHIBAURA TOSHIBA	SG04
	SG08
HYUNDAI	R140LC-9S
	R220LC-9
DOOSAN	DX55/60(TSM32)
	DX140W(TSM86)
	DX225LC(TSM140)

TRAVEL MOTORS

TEIJIN SEIKI/DOOSAN	GM06
	GM07
	GM09
	TM10
	GM18
	TM35VA
	GM35VL
	TM40VC
	TM40VD
EATON	JMV16
	JMV21
	JMV23
	JMV40
	JMV44
	JMV146
	JMV155
HITACHI	HMT36
	HMGF68
KAYABA	MSF170
	MSF340
HYUNDAI	R220LC-9
	RMV173/R300



HYDRAULIC AMERICA

ADD 55 Oakdale Ave St.Catharines, ON L2P 2L3 Canada

TEL: (289) 434 4821 (647) 243 4474 **FAX:** (289) 217 5601

EMAIL: info@hydraulicamerica.com hydraulicamerica@gmail.com

MANUFACTURING FACTORY

ADD: 108, SANMAK GONGDAN BUK10-GIL, YANGSAN-SI, GYEONGNAM, KOREA

TEL: +82-55-374-8531 **FAX:** +82-55-374-8523

EMAIL: INFO@HYDRAULICAMERICA.COM HYDRAULICAMERICA@GMAIL.COM