MJP

PT. MULINDOTAMA JAYA PERKASA



HYDRAULIC COMPONENTS & SPARE PART

Main **Products**

VE / VF Series

VC / VD Series

DSA Series

TSM/T3X Series

DPB Series

DPA Series

DPA-V Series

T5V Series

DPS27

PLS85

MV270

MV450

HYDRAULIC COMPONENTS & SPARE PART



TRAVEL DEVICE

VE/VF Series

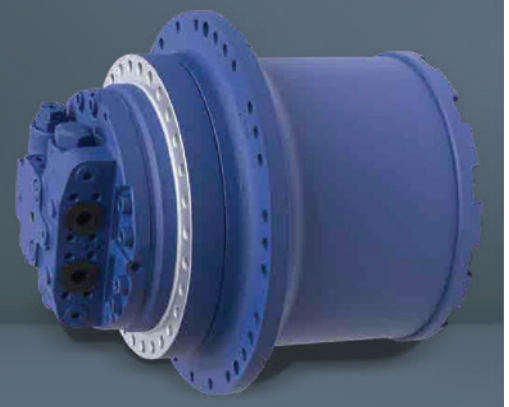
The VE and VF series provide powerful output torque and smooth operability with verified for high pressure and high reliability.

Features

1) Compact design
- Reduced weight and total length by optimal design

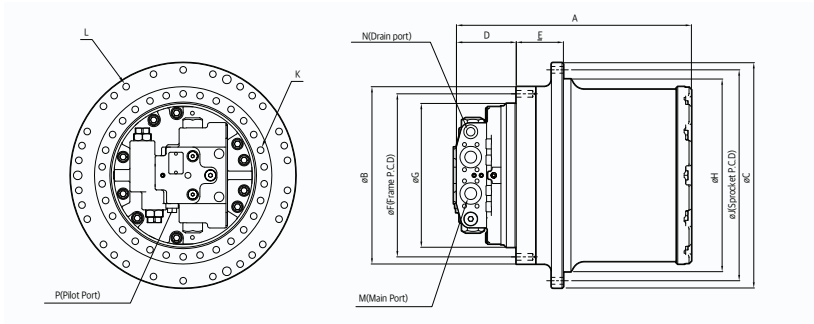
2) Performance up
- High-pressure design of hydraulic motor
- Enhanced traction with high-starting efficiency
- Improved driving maneuverability with excellent controllability

3) Reliability up
- Verified B5 10,000hr life through severe durability tests
- Improved durability by applying HRFS(High Reliability Floating Seal)



Applications

Excavator | Crawler crane | Crawler drill | Crusher | Screen



Dimensions

Model	A	B	C	D	E	F (Frame P.C.D)	G	H	J (Sprocket P.C.D)	K (Frame)	L (Sprocket)	M (Main port)	N (Drain port)	P (Pilot port)
DM04VE	247.7	215	255	78	70	192	165	204	232	11-M12XP1.75	9-M12XP1.75	G1/2	G1/4	9/16-18UNF
DM07VE	315.5	246	288	102	75.5	220	180	230	262	14-M14XP2.0	12-M14XP2.0	G1/2	G1/4	G1/4
DM12VE	347.8	280	326	126	80	250	210	265	300	12-M16XP2.0	12-M14XP2.0	G1/2	G3/8	G1/4
DM25VE	401	308	394	129	99.5	280	246	324	364	20-M16X2.0	15-M16X2.0	G3/4	G1/2	G1/4
DM40VE	496	370	470	229	98.5	340	300	402	440	30-M16X2.0	30-M16X2.0	G1	G1/2	G1/4
DM80VE	603	460	570	307	112	425	380	490	535	20-M24X3.0	28-M20X2.5	G1	G1/2	G1/4
DM100VF	668	500	586	207	130	460	420	510	550	26-M24XP3.0	36-M20XP2.5	G-1/4"	G1/2	G1/4

TRAVEL DEVICE

VC/VD Series

Mottrol's VC and VD series are speed shift travel motors with a gear box, providing powerful output torque, excellent controllability and high reliability.

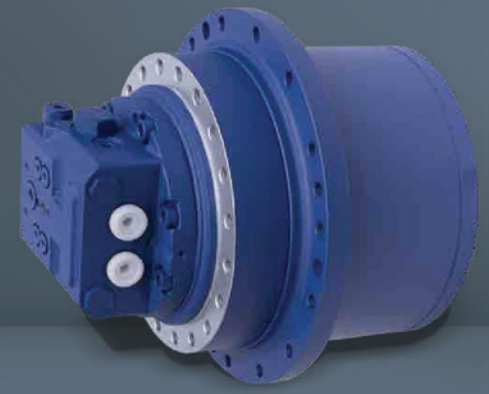
Features

1) Powerful travel device with high performance

2) Provides various functions to satisfy customer's requirements
- Built-in automatic speed shift function
- Built-in parking brake system
- Built-in shockless function at start and stop

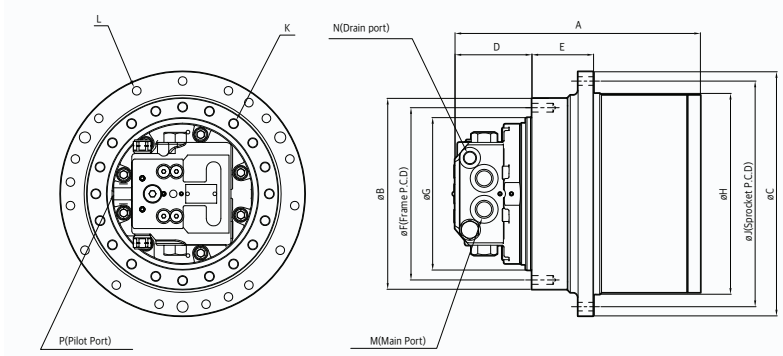
3) Reliable gear box with long life

4) Provides advanced technologies to supply value for customers



Applications





Dimensions

Model	A	B	C	D	E	F (Frame P.C.D)	G	H	J (Sprocket P.C.D)	K (Frame)	L (Sprocket)	M (Main port)	N (Drain port)	P (Pilot port)
TM07VC	348.5	268	306	126	68	244	210	250	282	12-M14XP2.0	12-M14XP2.0	G1/2	G3/8	G1/4
DM09VD	340	280	326	126	80	250	210	265	300	12-M16XP2.0	12-M14XP2.0	G1/2	G3/8	G1/4
TM10VD	356	278	328	123	80	250	210	265	300	12-M16XP2.0	15-M14XP2.0	G1/2	G3/8	G1/4
TM18VC	388.5	308	394	134	99.5	280	246	324	364	20-M16XP2.0	15-M16XP2.0	G3/4	G1/2	G1/4
TM22VC	396	308	394	124	99.5	280	246	324	364	20-M16XP2.0	18-M16XP2.0	G3/4	G1/2	G1/4
TM30VD	467.5	370	432	140.5	99.5	340	300	362	402	30-M16XP2.0	24-M16XP2.0	G3/4	G1/2	G1/4
TM40VD	502.5	370	470	138	98.5	340	300	402	440	30-M16XP2.0	30-M16XP2.0	G1, SAE 1"	G1/2	G1/4
TM60VD	553	460	525	166	112	425	380	450	490	30-M20XP2.5	28-M20XP2.5	SAE 1"	G1/2	G1/4
TM70VD	553	460	525	166	112	425	380	450	490	24-M24XP3.0	32-M20XP2.5	SAE 1"	G1/2	G1/4

SWING DEVICE

DSA Series

The DSA series provide high torque capacity, compactness and fine operability by built-in function valves.



Features

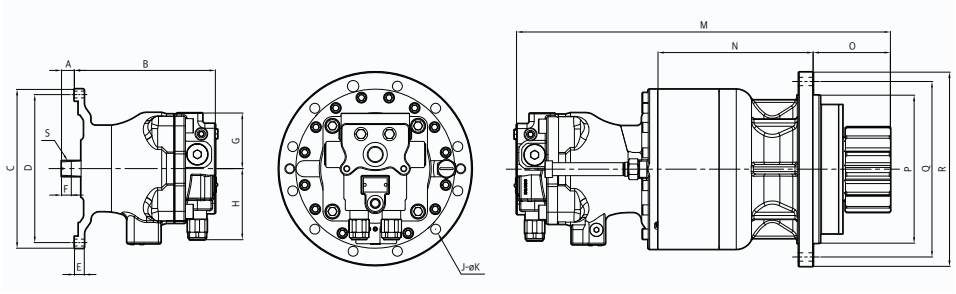
1) Compact design
- Reduced weight and total length by optimal design

2) Performance up
- High-pressure design of hydraulic motor
- High-torque capacity design of reduction gear box
- Enhanced swing with high-starting efficiency

3) Reliability up
- Verified B5 10,000hr life through severe durability tests
- Improved durability by applying long life bearing

Applications

Excavator



Dimensions

Model	A	B	C	D	E	F	G	H	S	J-Øk	M	N	O	P	Q	R
DSA80	143	513	323	290	22	24.5	97	161	m=1.5, z=20	12 - ø13	656	252.5	119	ø220	ø290	ø323
DSA160	36.5	301	ø335	ø305	18.5	34.5	117	150	m=2.0, z=20	11 - ø21	788	325	162	ø310	ø360	ø407

SWING DEVICE

TSM/T3X Series

The TSM/T3X series have various functions (anti-shock relief valve, anti-cavitation valve, anti-reaction valve etc.) to ensure high performance and good feeling of operation.



Features

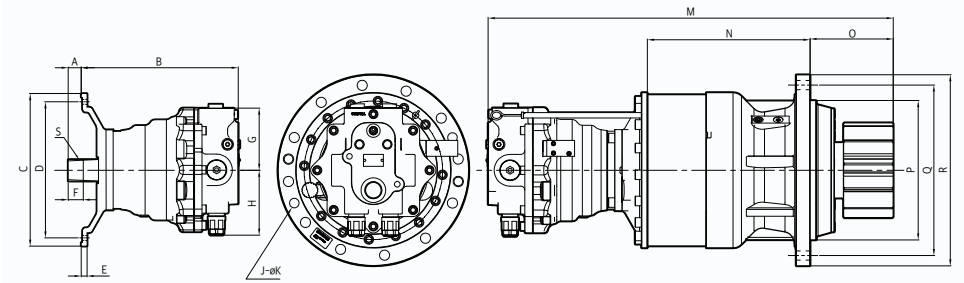
1) Powerful swing device with high performance

2) Provides various functions to satisfy customer's requirements
- Built-in anti-shock relief valve
- Built-in time delay valve
- Built-in anti-cavitation valve with make-up function
- Built-in anti-reaction valve

3) Reliable reduction gear box with long life

Applications

Excavator



Dimensions

Model	A	B	C	D	E	F	G	H	S	J-øK	M	N	O	P	Q	R
TSM32-RG250	16.7	140.5	ø200	ø203	15	20.5	72	108.5	16/32 DP, z=15	6 - ø17	367	129	97	ø175	ø220	ø248
TSM56-RG400	16.7	205	ø235	ø210	15	20.5	66	102.5	16/32 DP, z=15	7 - ø17	438	153	106	ø200	ø275	ø303
TSM86-RG700	17	282	ø288	ø260	19	25	96	168	m=1.667, z=16	9 - ø18	653	228.5	136	ø200	ø290	ø323
TSM140-RG1600	31.5	301.5	ø307	ø282	20.5	34.5	117	169	m=2.5, z=16	11 - ø21	808	344	162	ø310	ø360	ø407
T3X170-RG2000	19	306	ø382	ø344	20	28	117	169	m=2.5, z=16	12 - ø25.5	894.5	392.5	184	ø350	ø430	ø480
TSM260-RG2400	57.5	344	ø183	ø162	18	39.5	99.5	166	m=2.5, z=20	12 - ø25.5	1,002	472.5	194	ø350	ø430	ø480
TSM260-RG2700	57.5	344	ø183	ø162	18	39.5	99.5	166	m=2.5, z=20	12 - ø25.5	1,002	472.5	194	ø350	ø430	ø480

MAIN PUMP

DPB Series

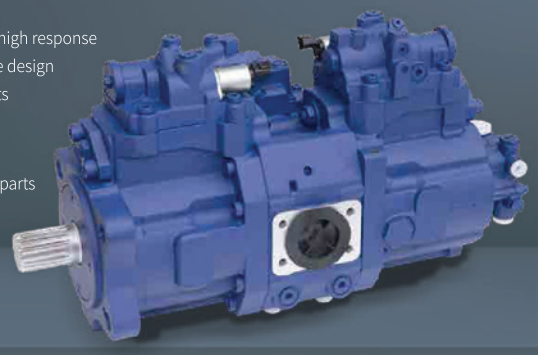
The DPB series provides high capacity, high reliability and high performance with various controls for mobile applications such as excavators, cranes, etc.

Features

1) Increased Displacement
- Increased 10% from DPA117 for engine speed down
- Possible to match customer requirements on faster operating speed of machine

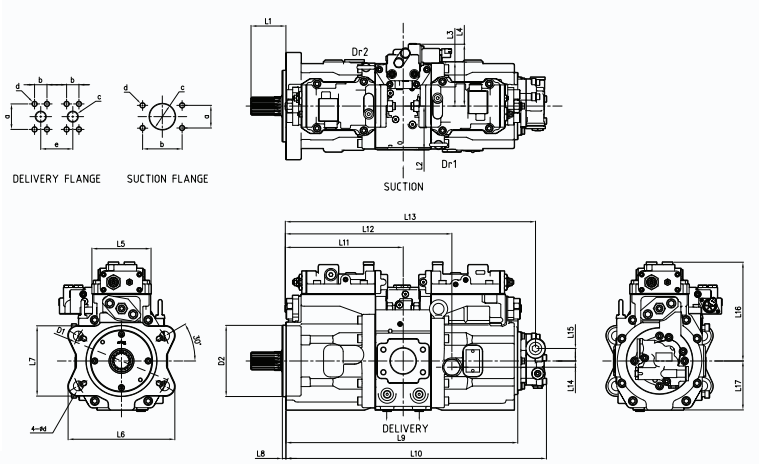
2) High Performance
- Developed new regulator with low hysteresis and high response
- Reduced pressure pulsation by optimal valve plate design
- Improved efficiency by optimization of sliding parts

3) High Reliability
- Increased bearing capacity
- Improved reliability by stronger design of rotating parts
- Applied metal sealing plug to prevent oil leakage



Applications

Excavator | Crawler crane | Crawler drill



Dimensions

Model	D1	D2	d	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15	L16	L17
DPB125	ø224	ø160	ø22	78	98	95	139	133	240	158	8	521	586	263	373	561	14	28	229	110
DPB140	ø224	ø160	ø22	78	98	95	139	133	240	158	8	521	586	263	373	561	14	28	229	110

MAIN PUMP

DPA Series

The DPA series provides low pulsation, low-noise, high efficiency and high reliability with various controls for excavators.

Features

1) Compact Design
- The total length of DPA series is 30% shorter than T5V series pumps
- Possible to match customer requirements on faster operating speed of machine

2) Various kinds of controls
- Power control, Power shift control, Negative flow control, Positive flow control, Electric flow control, Electric pressure control

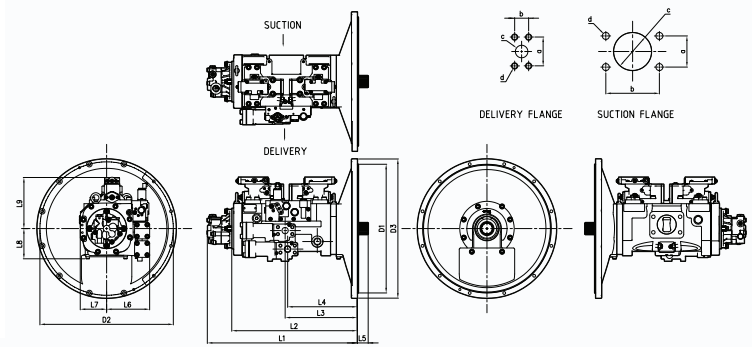
3) Low Noise
- Applied PCU(Pressure Control Unit) device to minimize pressure pulsation
- Improved the stiffness of main casing to reduce sound level
- Improved the low pulsation by optimal design of valve plate

4) High Reliability
- Applied copper alloy between swash plate and support
- Applied mono type casing to reduce the possibility of external leakage and vibration
- Improved the strength of rotary parts



Applications

Excavator | Crawler crane | Crawler drill



Dimensions

Model	D1	D2	D3	L1	L2	L3	L4	L5	L6	L7	L8	L9
DPA63	ø409.6	ø428.6	ø450	507	432	261	231	49.5	153	91	120	194
DPA90	ø409.6	ø428.6	ø450	530	455	289	225	55	157	93	120	199
DPA117	ø409.6	ø428.6	ø450	548	452	287	223	55	157	93	120	199
DPA140	ø511.2	ø530.2	ø553	595	499	287	277	43	171	104	120	208

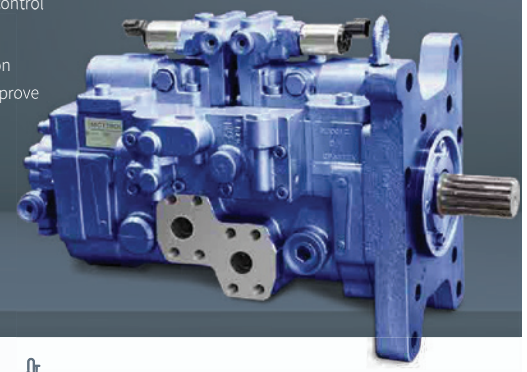
MAIN PUMP

DPA-V Series

The DPA-V series provides high power density, low-noise, high efficiency and high reliability with various controls for excavators.

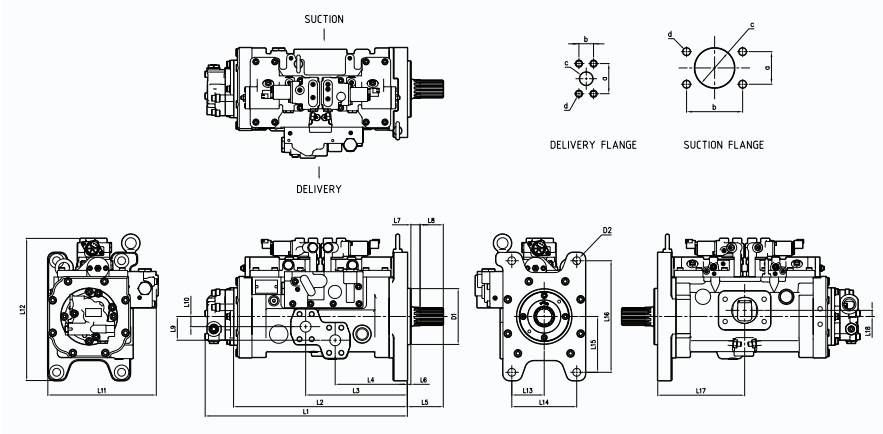
Features

1) High Power Density
   - Reduced pump weight and size through structure optimization
2) Various kinds of controls
   - Power control, Power shift control, Negative flow control, Positive flow control, Electric flow control, Electric pressure control
3) Low Noise
   - Optimized valve plate to minimize pressure pulsation
   - Reduced sound level at high frequency region to improve sound quality
4) High Efficiency & Long Life
   - Shoe and swash plate bearing to decrease leakage loss
   - Improved tensile strength of shoe material



Applications





Dimensions

Model	D1	D2	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15	L16	L17	L18
DPA117V	ø127	ø18	459	396	231.5	164.5	78	8	15	63	21	53	251	341	74	148	127	254	198	14
DPA140V	ø160	ø22	514	439	225	215	78	10	13.5	48	8	81.5	318	312	125	250	72	144	220	16

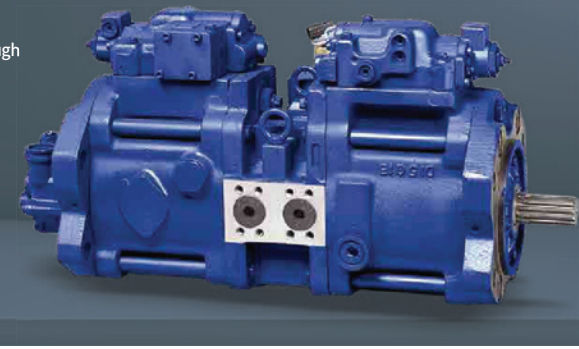
MAIN PUMP

T5V Series

The T5V series are swash plate type hydraulic pumps, which provides high durability and good efficiency with various controls for construction and industrial machines.

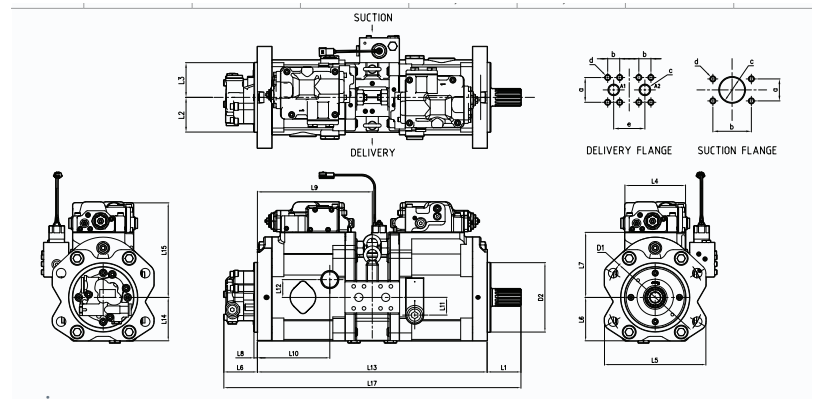
Features

1) High durability with high strength bearing and anti-wear design
2) Low pulsation by optimal design of rotary parts
3) Various kinds of controls
   - Flow control, Power control, Power shift control, Electric control
4) Available to various attachments through optional high pressure gear pump



Applications





Dimensions

Model	D1	D2	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15	L16	L17
T5V63	ø180	ø125	76	70	70	140	190	89	98	8	228	138	37	37	464	97	195	78	618
T5V80	ø180	ø125	76	70	70	140	190	89	98	8	228	138	37	37	464	97	195	78	618
T5V112	ø224	ø160	78	80	80	140	234	100	110	8	265	167	41	41	538	109	220	78	694
T5V140	ø250	ø180	93	92	92	140	256	112	123	8	305	190	53	53	618	121	245	80	791

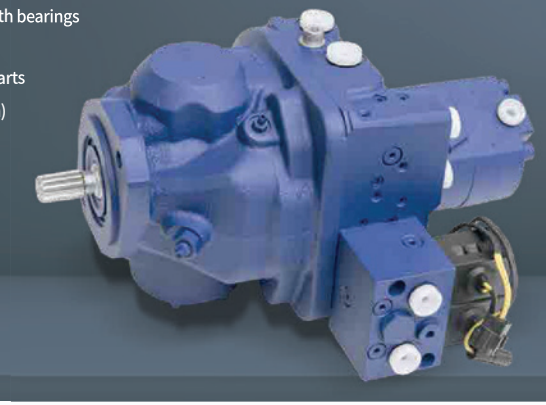
MAIN PUMP

DPS27

The DPS27, which is duplex swash plate pump, provides superior work performance with it's compact size and high efficiency.

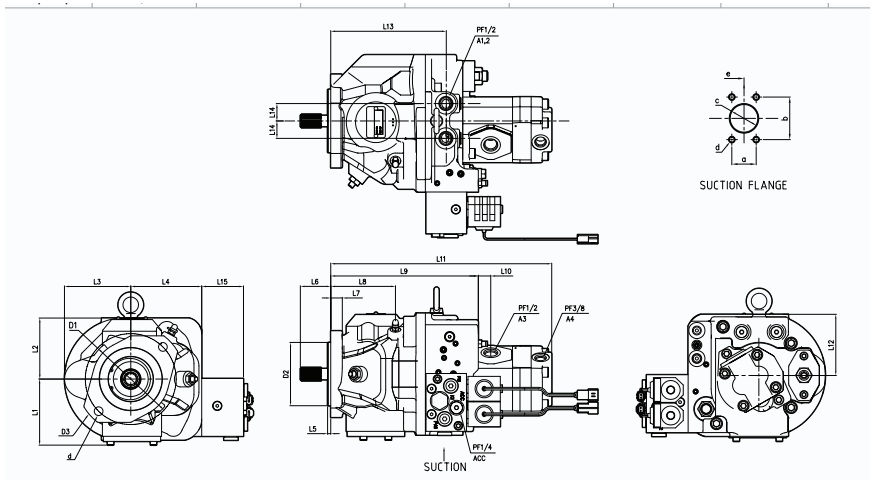
Features

1) Double pump with one cylinder block
2) Compact size with simple casing structure design
3) Excellent durability by adopting high strength bearings and anti-wear design
4) Low pulsation by optimal design of rotary parts
5) Power shift control using EPPR valve(option)



Applications

Excavator | Crawler crane | Crawler drill



Dimensions

Model	D1	D2	D3	d	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15
DPS27	ø146	ø101.6	ø175	ø14	106	98	106	114	5	48.8	18.5	104	237	20	355	93.5	185	28	67

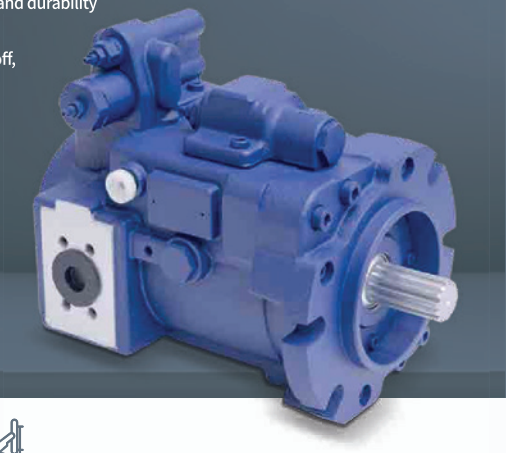
MAIN PUMP

DPLS85

The DPLS85 is a load sensing pump, which provides high efficiency and high reliability with various controls including pressure cut-off control and electric control.

Features

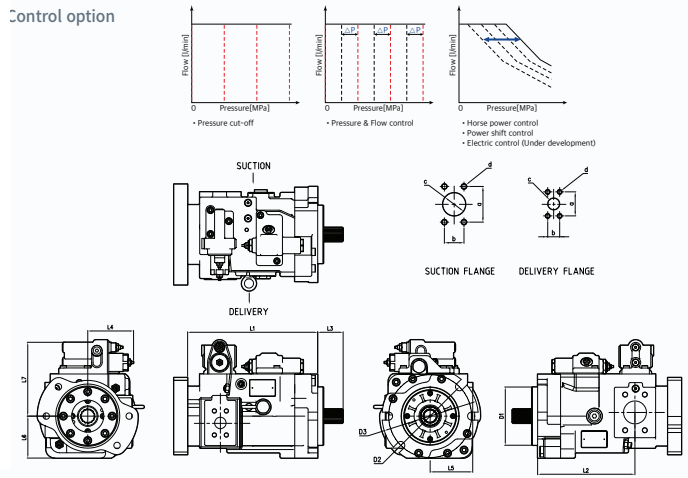
1) High-efficiency by optimal design of rotary parts
2) Applied mono casing type combined with main case and valve block
3) Applied large capacity bearings to improve life time and durability
4) Strong control stability and rapid dynamic response
5) Provide various controls(flow control, pressure cut-off, power control, power shift control, electric control)



Applications

Excavator | Fork lift | Crawler drill

Control option



Dimensions

Model	D1	D2	D3	L1	L2	L3	L4	L5	L6	L7
DPLS85	ø127	ø181	ø210	284	212.5	55.4	100	98	91.5	161

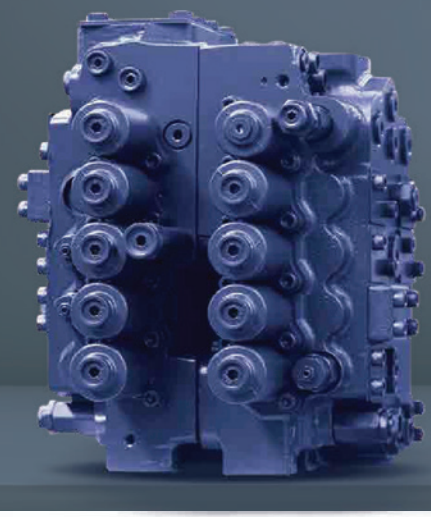
MAIN CONTROL VALVE

MV270

The MV270 provides the excellent controllability and reliability with various priority functions for 20~30ton excavators.

Features

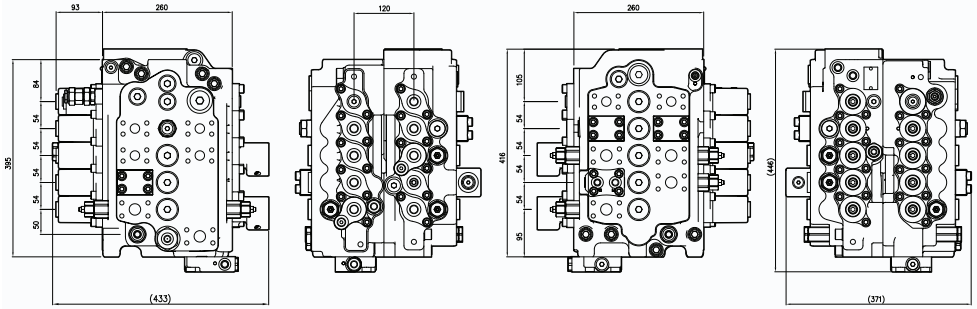
1) 2-Block Type MCV
2) Various priority functions
3) Built-in Bucket conflux function for bucket speed up
4) Overload relief valve with make-up function
5) Long life with high reliability



Applications

Excavator

Dimensions



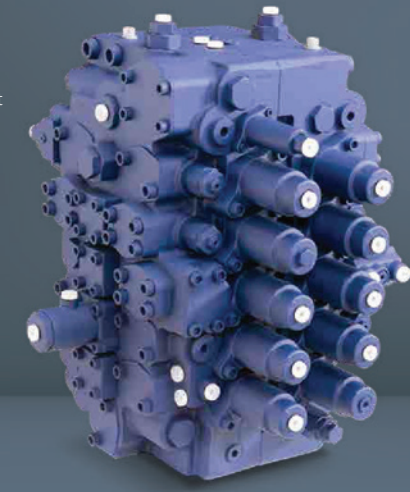
MAIN CONTROL VALVE

MV450

The MV450 provides the excellent controllability and reliability with low pressure loss, full electric control for 34~70ton excavators.

Features

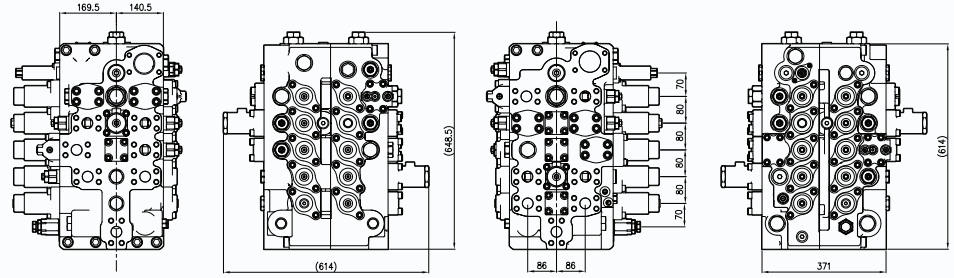
1) Provide excellent single and combined operations
   - Various priority functions(swing priority, arm priority, straight travel etc.)
   - Possible to tune the optimized operation according to applications (tuning technique)
2) Low fuel consumption
   - Reduced pressure loss
   - Provides full electric control function (optional)
3) Long life with high reliability



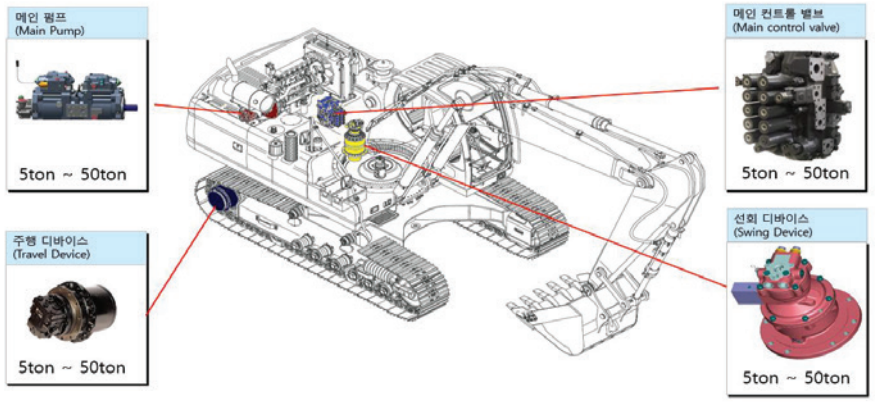
Applications

Excavator

Dimensions



Regarding to Excavator Aftermarket product order Receipt.



Main pump, Traver device, Swing device check point

1. Confirm the excavator model of Maker.

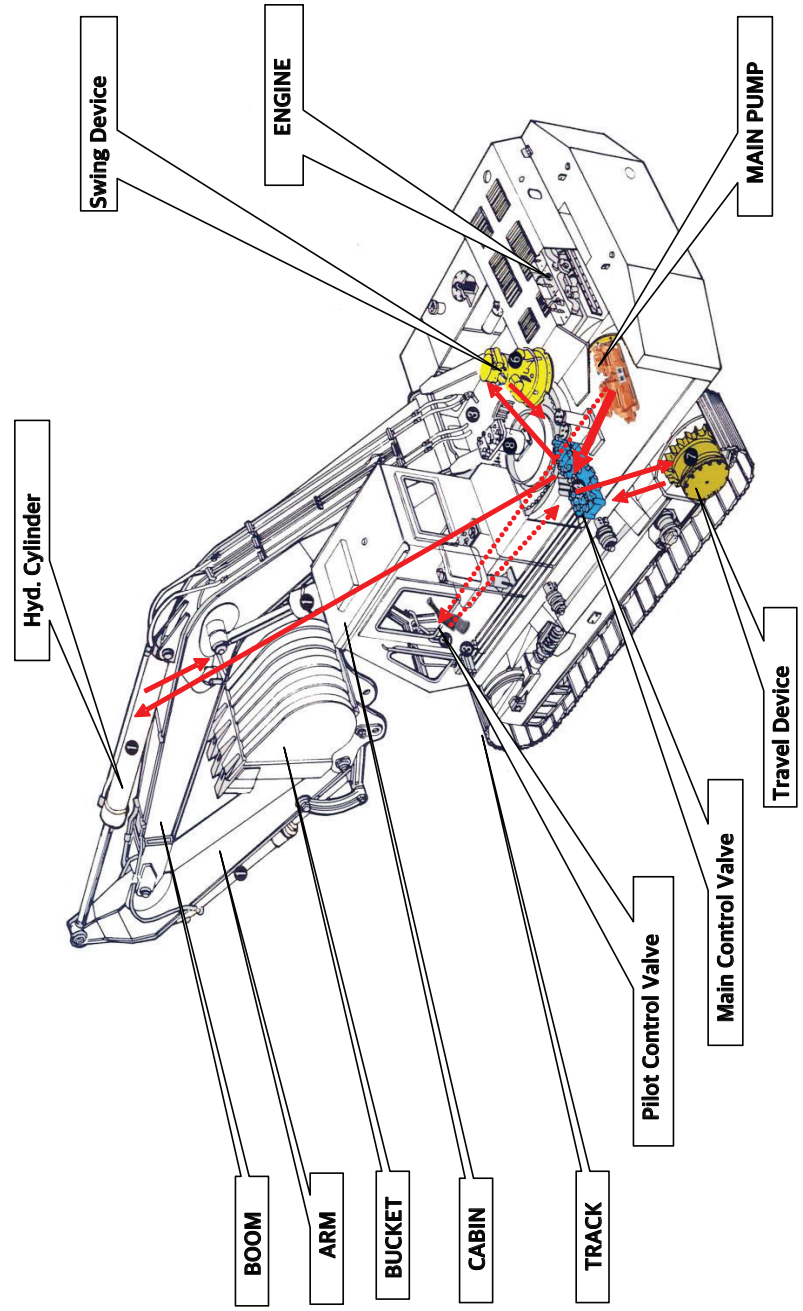
2. Take photos of the necessary items, which are either listed with **part numbers** for each excava tor manufacturer or recorded on **the nameplate**."
   - **Part numbers** for each excavator manufacturer

Checking the components of main pump, Travei device, swing device

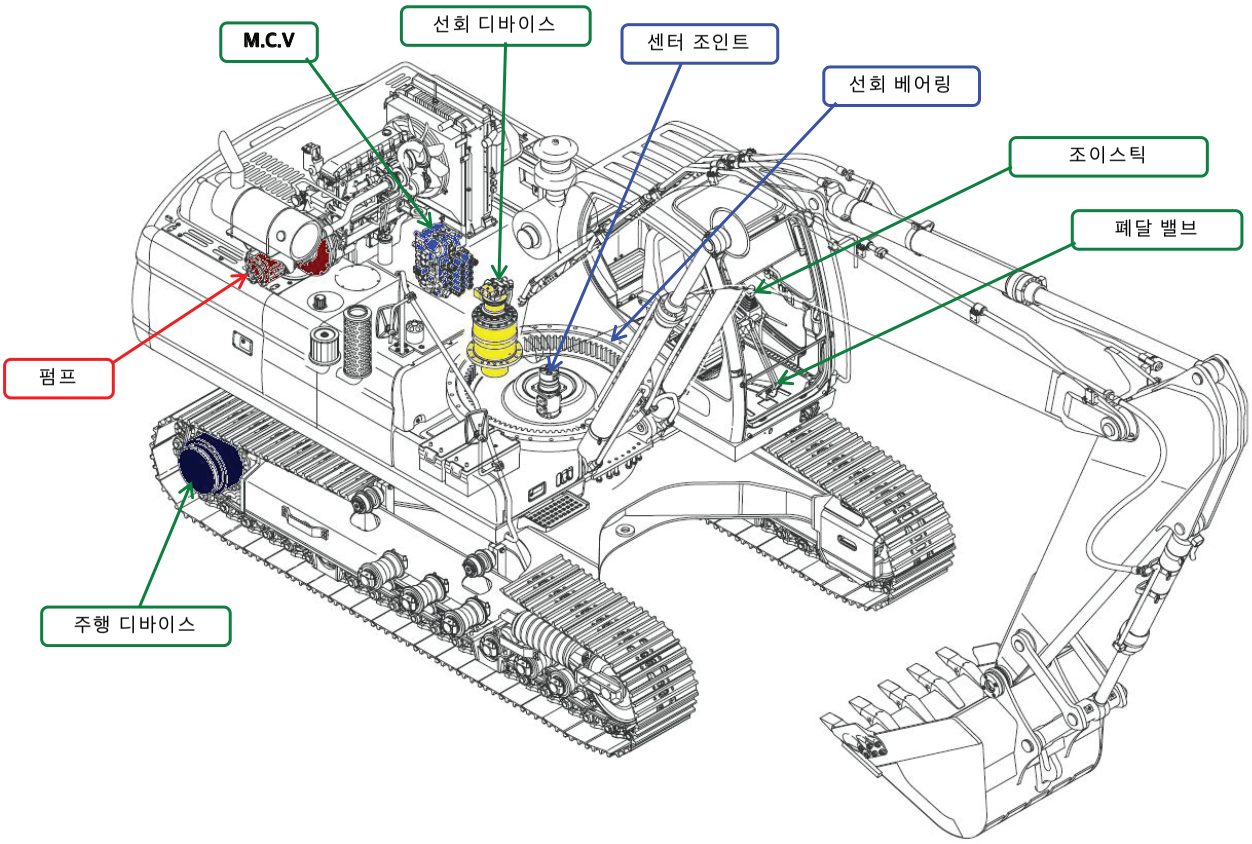
1. Confirm the excavator model of Maker.

2. Identify which component among Main pump, Travel device, and Swing device.
3. Check for the parts number or the nameplate information for Main pump, Travel device, and Swing device.
4. Confirm **the component name** and **the components part number** from the exc avator manufacturer.
   - **the component name** and **the components part number**
   (example : Doosan PLATE,SEPARATION_TM70VC / 412-00036)

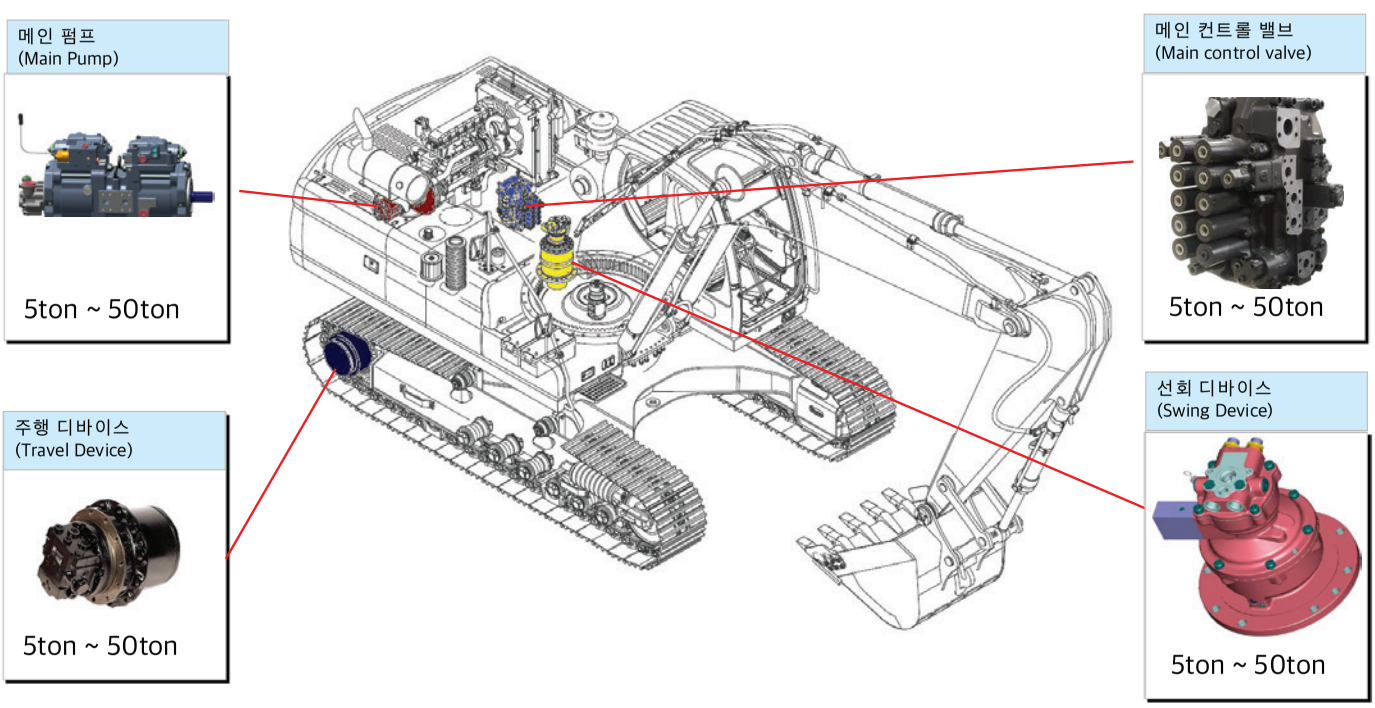
Brief Excavator System



주요 유압기기의 위치

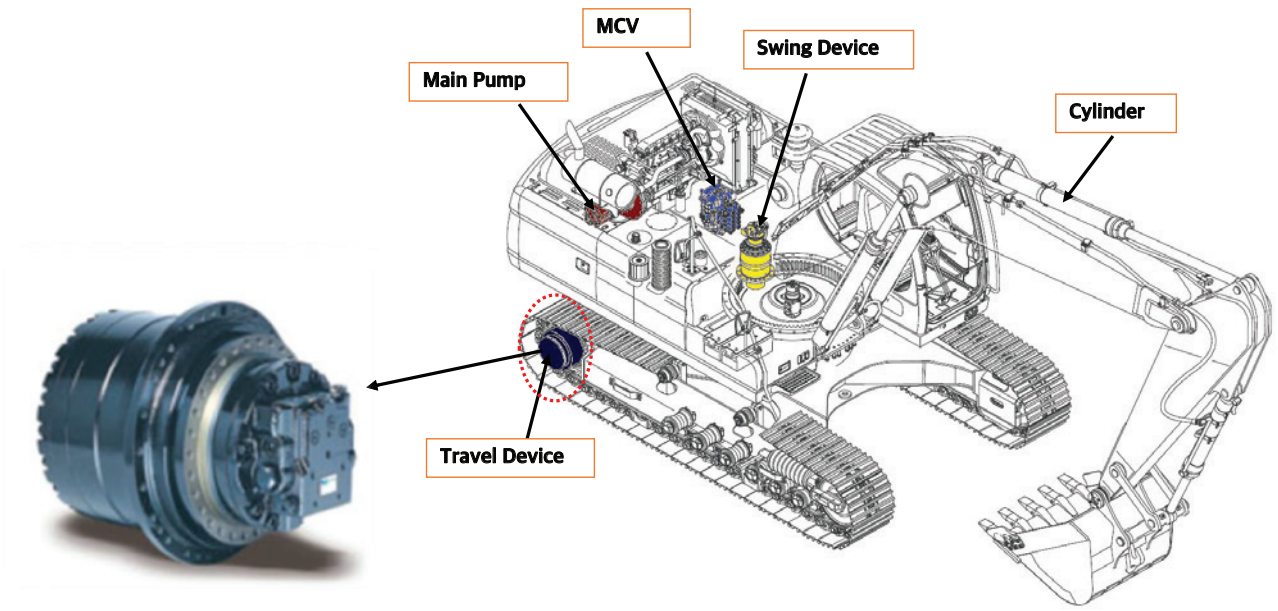


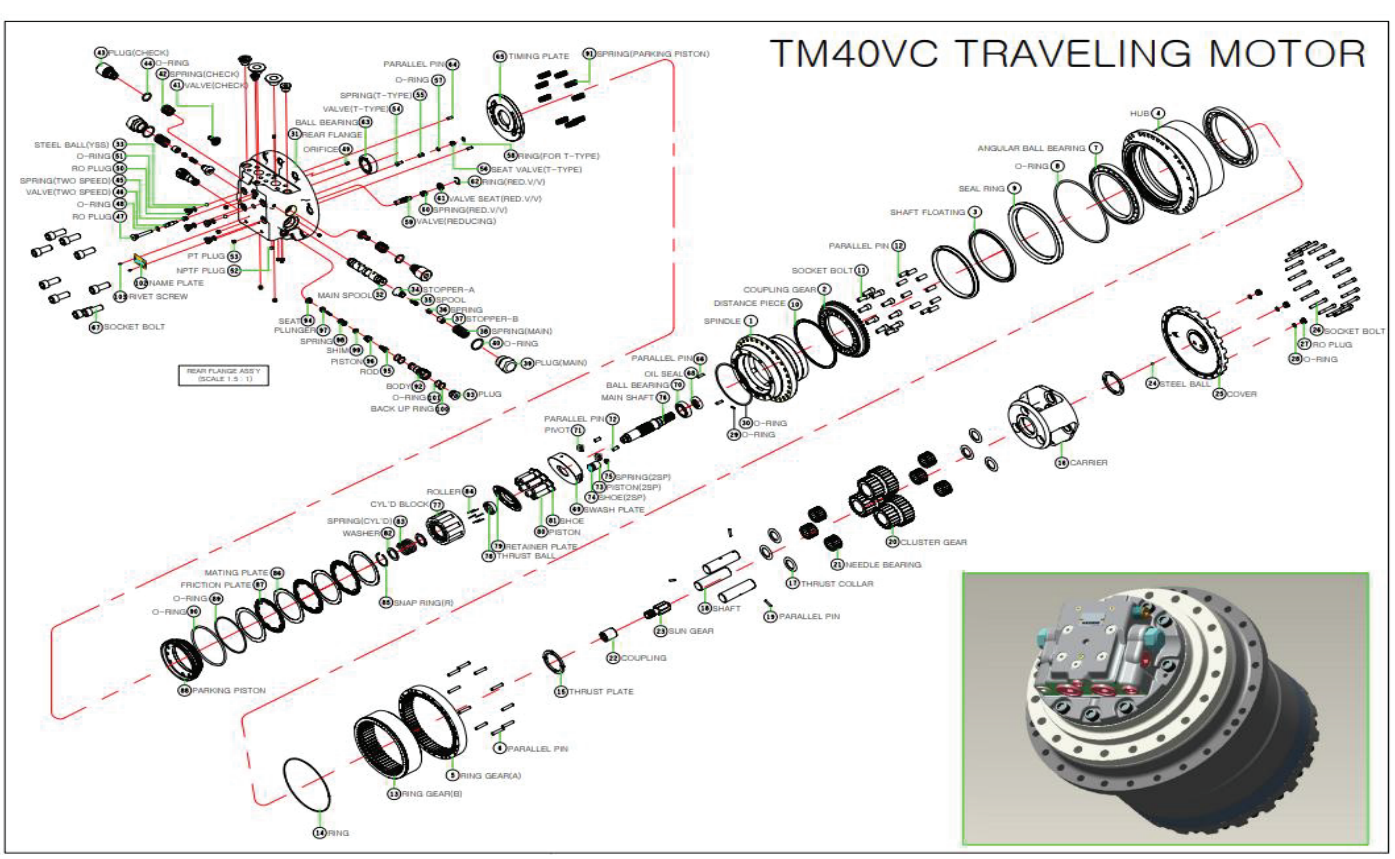
모트롤 굴삭기용 유압 생산품목



The function of the travel device

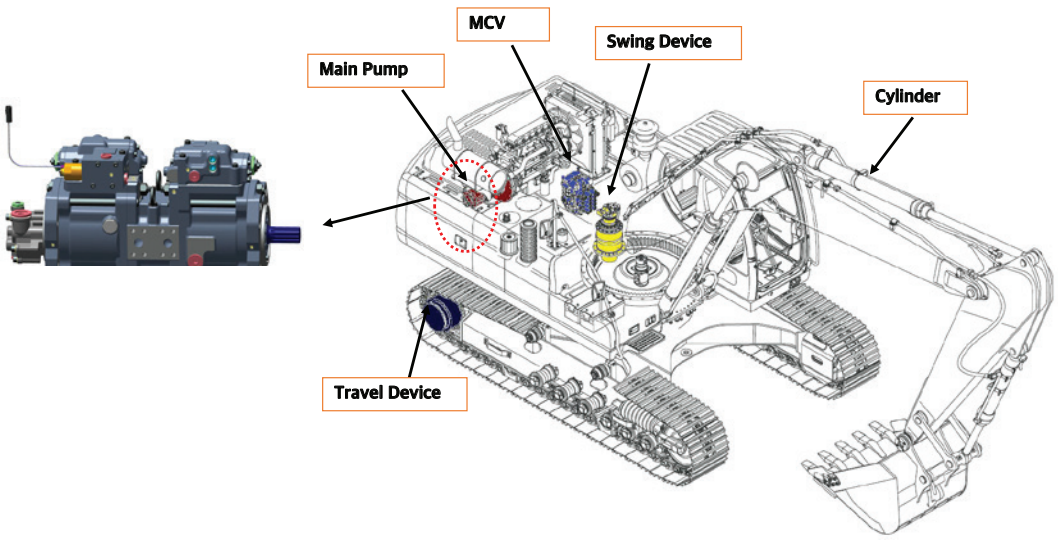
Travel Device: Mounted on the lower body of an excavator, this mechanical device enables forward and reverse movement as well as directional changes.

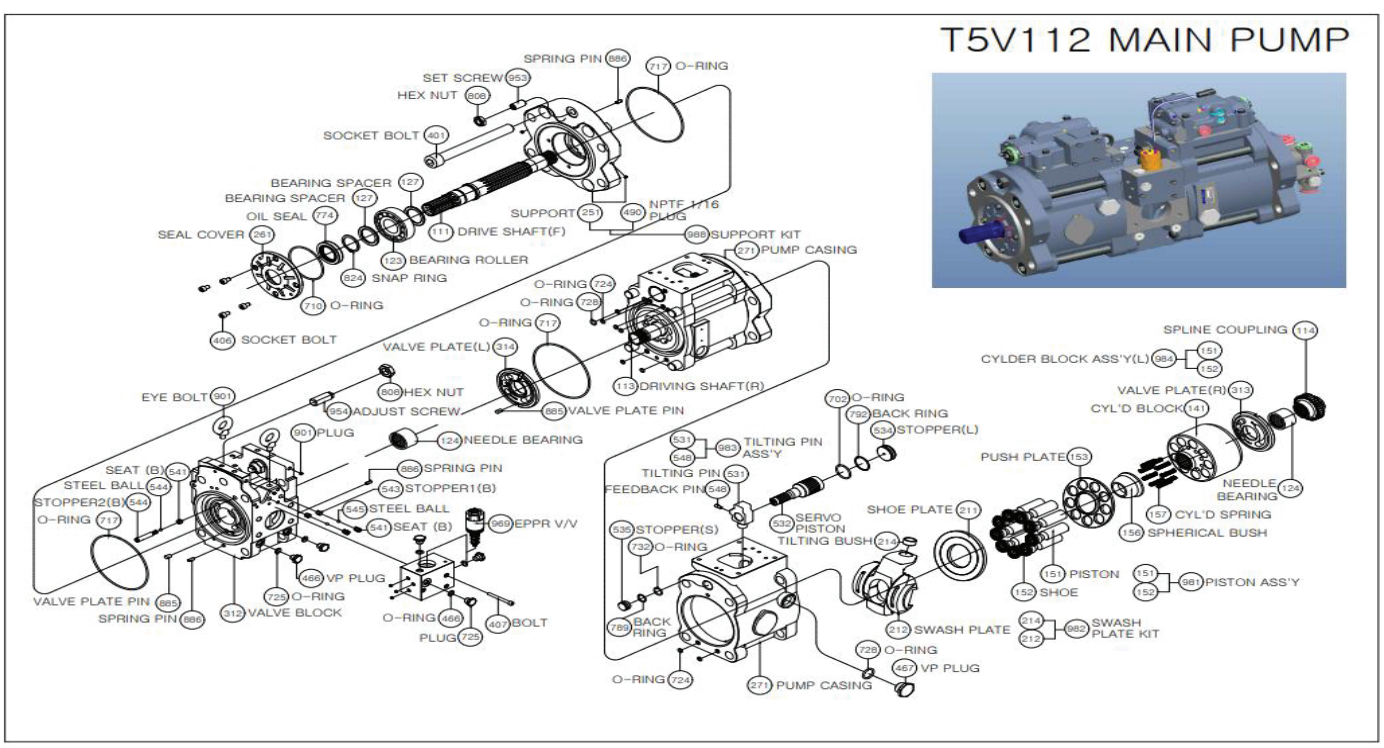




The function of the Main pump

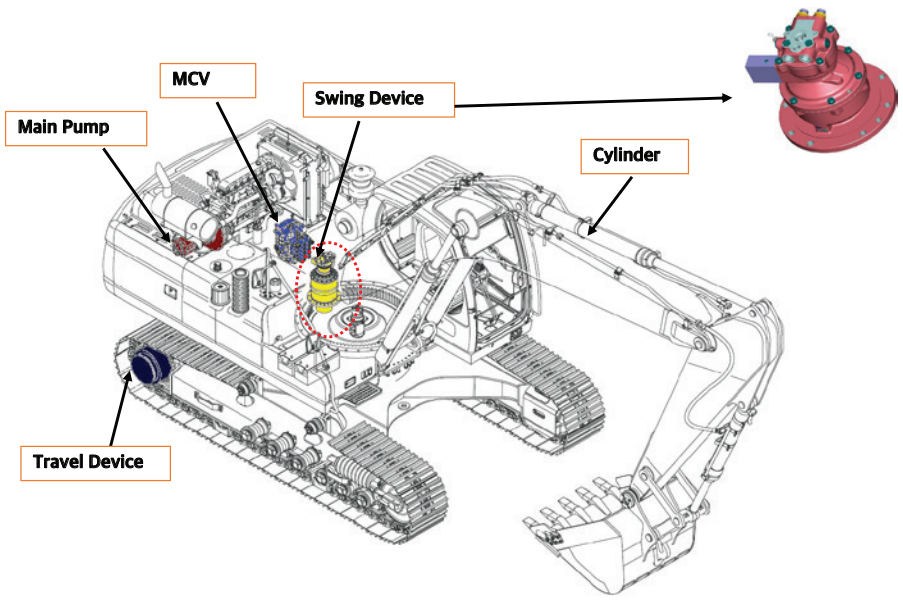
Main Pump : A machine device mounted on the excavator's engine, supplying hydraulic power to all components of the excavator based on the engine's operation

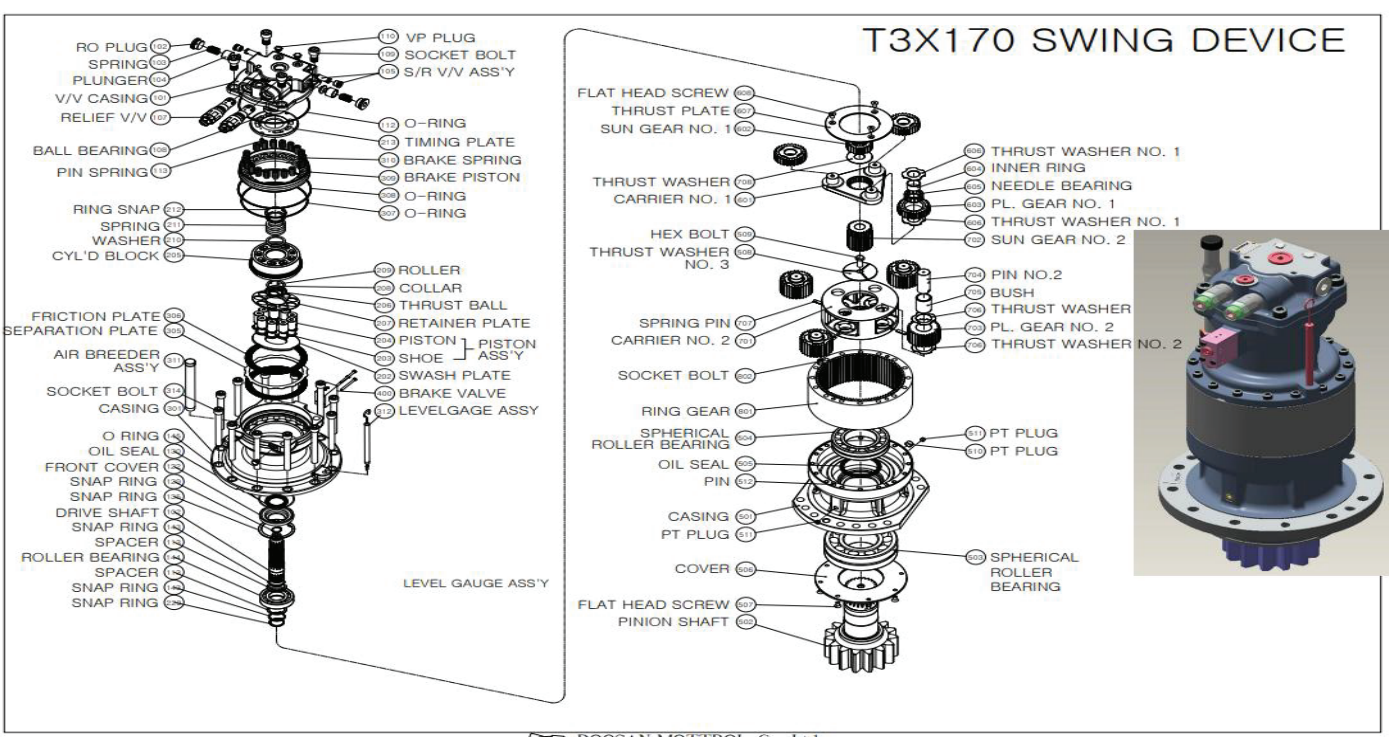




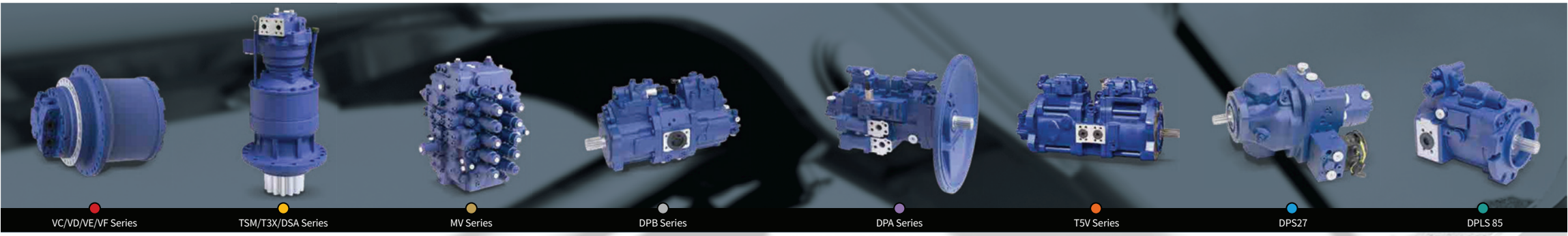
The function of the Swing device

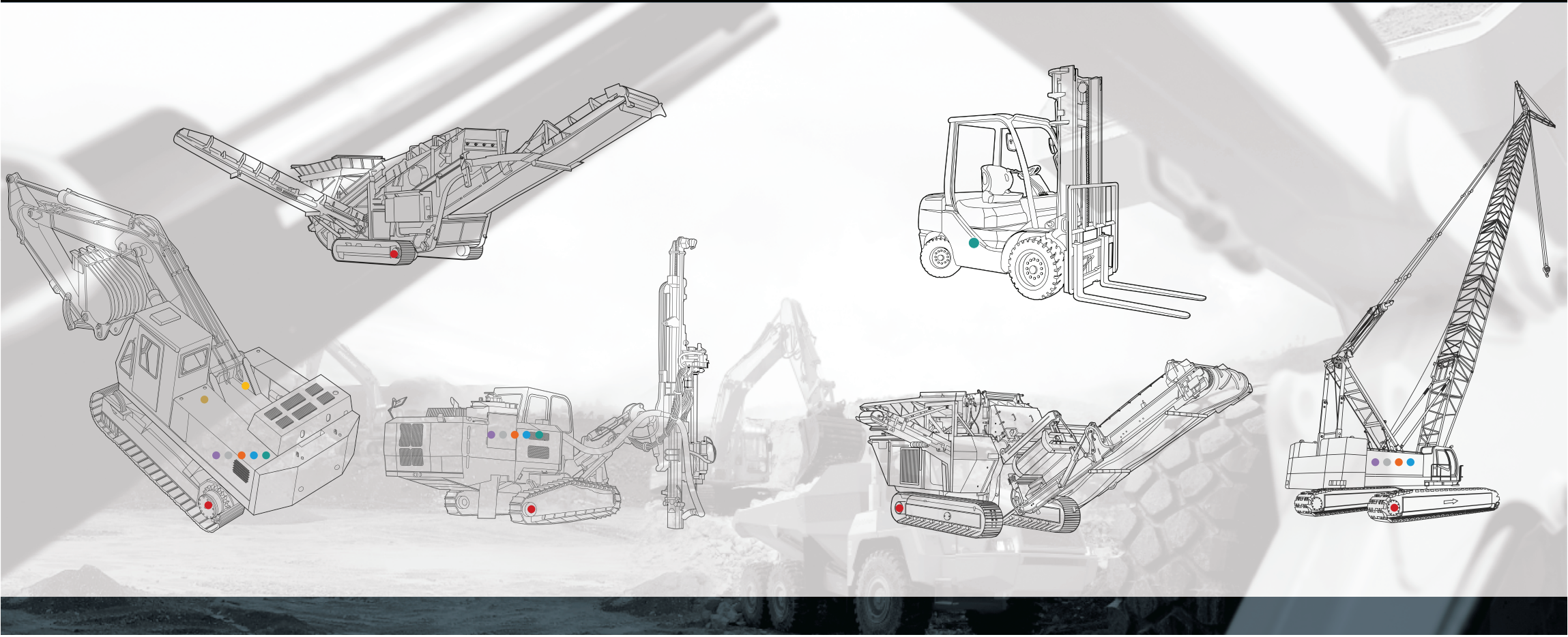
Swing Device : A mechanical device located in the middle of the excavator that assists in the upper rotation of the excavator





Application





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