PMC

AMERICA & EUROPE

DRIVING YOUR INNOVATION



Hydraulic Mission

Hydraulic Motor

Hydraulic Pump

Hydraulic Valve

Leading hydraulic solution provider in the world

Applications



PTM Series
PSM Series
PRCVJ Series
PRCVP Series



HPVMF Series



PMV Series
PMF Series
PPF Series
PBVM Series



THE SPIRIT OF CRAFTSMANSHIP

For the last 50 years, we have started everyday with the passion for producing perfection with every single product. We believe that we've never really "made it" until clients are satisfied. We put in all the hours for our craft to become a habit of daily life. And it continues to live within us today, as ever.



PTM Series

Track Motor

The PTM Series are swash type axial piston motors with built in double-counter balance valve, mechanical brake, and reduction gear. It is used in various areas, including construction, shipbuilding, industrial machinery, and special vehicles.



Key Features:

- High-pressure and high-capacity optimized motor design
- Various built-in functions for excellent operational performances
- Superior performance in a wide range of speed and temperature
- Smooth conversion from high speed low torque to low speed high torque
- Excellent shock absorption by absorbing changes in pressure and torque

Crane | Excavator | Piercer

Model	Output Torque (kgf.m)	Output Speed (rpm)	Gear Ratio	Motor					
				Displacement (cc/rev)	Set Pressure (kgf/cm²)	Two Speed Ctrl. Pressure (kgf/cm²)	Parking Torque (kgf.m)	Brake Release Pressure (kgf/cm²)	Max Flow (L/min)
PTM-12-01-37	153.2	40.9	36.964/1	12.4	210	-	MIN 2	16	18.75
PTM-13-01-37	164.5	38.1	36.964/1	13.3	210	-	MIN 2	16	18.75
PTM-12/6-01-R25	104.7/52.3	38.6/77.3	25.26/1	12.4/6.2	210	MIN 15	MIN 2	MIN 15	12.1
PTM-12/6-01-R37	153.2/76.5	40.9/81.8	36.964/1	12.4/6.2	210	MIN 15	MIN 2	16	18.75
PTM-13/7-01-R37	164.5/83.9	38.1/74.6	36.964/1	13.3/6.8	210	MIN 15	MIN 2	16	18.75
PTM-13/7-02-R37	164.5/83.9	38.1/74.6	36.964/1	13.3/6.8	210	MIN 15	MIN 2	16	18.75
PTM-16/10-01-R53	308/195.4	39.7/62.6	53.7/1	16.4/10.4	220	30	MIN 6.6	MIN 7	35
PTM-16/10-02-R53	308/195.4	39.7/62.6	53.7/1	16.4/10.4	220	30	MIN 6.6	MIN 7	35
PTM-16/11-01-R43	284/197.4	50/72	42.636/1	16.4/11.4	255	40	MIN 3.8	15	35
PTM-18/10-01-27	162.4/83.8	37.1/71.9	23.938/1	18.4	206	MIN 15	MIN 3.8	15(ABOVE)	18.4
PTM-21/11-01-R53	241.6/451	3125/1666	53.7/1	11.2/21	250	15	MIN 6.6	30	35
PTM-23/14-02-R53	478/300	27.7/44.3	53.7/1	23.5/14.7	240	15	MIN 6.6	30	35
PTM-44/22-01-R53	822/425	23.4/45.1	53.706/1	43.7/22.6	220±5	20 ~ 70	MIN 451	9	55
PTM-47/27-01-R53	1195/705	32.7/55.5	53.706/1	46.6/27.5	300±5	20 ~ 70	MIN 451	9	82
PTM-47/27-03-R53	1195/705	32.7/55.5	53.706/1	46.6/27.5	300±5	20-70	MIN 451	9	82
PTM-53/34-01-R45	1080/686	41.2/64.9	45.569/1	53.2/33.8	285±5	20 ~ 70	MIN 820	9	100
PTM-59/34-01-R53	1520.6/877	26.7/46.3	53.706/1	59.3/34.2	300±5	20 ~ 70	MIN 820	9	85
PTM-67/41-01-54R	1909/1169	30.8/50.3	54/1	67.3/41.2	330	20-70	MIN 20	8.8-10.7	112
PTM-81/42-01-R53	1706/885.7	15.2/29.2	53/1	80.9/42	320±5	20 ~ 70	MIN 1235	9	112
PTM-86/45-01-R53	1809/957	14.3/27	53/1	85.8/45.4	320±5	20 ~ 70	MIN 1235	9	112

PSM Series

Swing Motor

The PSM Series are swash type axial piston motors with built in mechanical brake, relief valve, and make-up valve. It is used for swing of industrial machinery and industrial vehicles.



Key Features:

- Smooth swing movement of the motor
- Optimized design for high capacity and reliability of the motor
- Various built-in functions for excellent operational performances
- Excellent shock absorption by absorbing changes in pressure and torque

Crane | Excavator | Piercer

Model	Output Torque (kgf.m)	Output Speed (rpm)	Gear Ratio	Motor				
				Displacement (cc/rev)	Set Pressure of Relief Valve (kgf/cm²)	Brake Torque (kgf.m)	Brake Release Pressure (kgf/cm²)	Max Flow (L/min)
PSM-22-02-10R	5.98	470.6	1/10	22.1	170±5	MIN 7	MIN20/MAX50	10.4
PSM-29-01-R19	10.11	1233	1/19.464	28.87	220±10	MIN 14	20 ~ 40	35.6
PSM-36-01-R19	13.46	2263	1/19.464	36	235±10	MIN 14	20 ~ 40	82.5
PSM-36-02-R19	13.46	2263	1/19.464	36	235±10	MIN 14	20 ~ 40	82.5
PSM-43-01-R19	13.68	1919	1/19.464	43	200±10	MIN 14	25 ~ 50	82.5

PRCVJ & PRCVD Series

Joystick

The PRCVJ Series are pressure-reducing type remote control valves to simultaneously control spools of multiple control valves and the tilting angle of variable displacement pumps. They are applied for various mobile machinery.

Key Features:

- Customizable operational torque
- Excellent response and precise control
- Optimized design for high durability and reliability
- Minimum pressure loss and high performance over a wide range of temperatures

Crane Excavator Piercer









Model	Product	Max Inlet Pressure (kgf/cm²)	Max Back Pressure (kgf/cm²)	Rated Flow (l/min)	Operation Torque (kgf.m)
PRCVJ-A-11-01	Joystick	100	3	30	5.8±2-14.5±3 (20.2)
PRCVJ-A-11-06	Joystick	100	3	30	6.8±2-18.4±3 (20.2)
PRCVJ-A-11-07	Joystick	100	3	30	6.7±2-18.7±3 (22.3) 6.7±2-18.1±3 (21.8)
PRCVJ-A-11-11	Joystick	100	3	30	5.6±2-9.7±3 (11.6)
PRCVJ-A-21-01	Joystick	100	3	20	5.8±2-14.5±3 (20.2)
PRCVJ-A-22-07	Joystick	100	3	30	6.7±2-18.7±3 (22.3) 6.7±2-18.1±3 (21.8)
PRCVJ-A-31-08	Joystick	100	3	20	5±1-18.9 5±1-19.8
PRCVJ-A-32-02	Joystick	100	3	20	6.5±0.5-20.5
PRCVJ-A-33-09	Joystick	100	3	20	5.8-19.1 5.8-20.3

Model	Product	Max Inlet Pressure (kgf/cm²)	Max Back Pressure (kgf/cm²)	Rated Flow (l/min)	Operation Torque (kgf.m)
PRCVJ-A-42-01	Joystick	100	3	20	5.8±2-14.5±3 (20.2)
PRCVJ-A-42-07	Joystick	100	3	20	6.7±2-18.7±3 (22.3) 6.7±2-18.1±3 (21.8)
PRCVJ-A-43-07	Joystick	100	3	20	6.7±2-18.7±3
PRCVJ-B-11-10	Joystick	100	3	20	5.5±2-15.4±3 (19.6) 5.5±2-15.9±3 (20)
PRCVJ-B-31-21(G)	Joystick	100	3	30	7.2±2-19.9±3 7.2±2-21.8±3
PRCVJ-B-42-10	Joystick	100	3	20	5.5±2-15.4±3 (19.6) 5.5±2-15.9±3 (20)
PRCVJ-B-43-10	Joystick	100	3	20	5.5±2-15.4±3 (19.6) 5.5±2-15.9±3 (20)
PRCVD-01	Dozer	50(40)	3	8 - 35	6±2-20.4±3
PRCVD-02	Dozer	50(40)	3	8 - 35	2.4±1.5-16.6±3
JVLJ2000	Joystick	100	3	20	

PRCVP Series

Pedal

The PRCVP Series are pressure-reducing type remote control valves to control spools of multiple control valves. They are applied for various mobile machinery.

Key Features:

- Customizable operational torque
- Damping function
- Excellent response and precise control
- Optimized design for high durability and reliability
- Minimum pressure loss and high performance over a wide range of temperatures

Crane Excavator Piercer









Model	Product	Max Inlet Pressure (kgf/cm²)	Max Back Pressure (kgf/cm²)	Rated Flow (l/min)	Operation Torque (kgf.m)
PRCVP-A-1-01	Pedal	50(30)	3	8 ~ 27	10~35
PRCVP-A-1-02	Pedal	50(40)	3	8 ~ 27	5.8±1.5~27.2
PRCVP-A-1-03	Pedal	50(40)	3	10	5.8±1.5~27.2
PRCVP-A-1-06	Pedal	50(40)	3	8 ~ 27	5.8±1~26±1.5
PRCVP-A-2-01	Pedal	100	3	10	73.9~158.1
PRCVP-A-2-02	Pedal	100	3	10	73.9±10~158.1±10

Model	Product	Max Inlet Pressure (kgf/cm²)	Max Back Pressure (kgf/cm²)	Rated Flow (l/min)	Operation Torque (kgf.m)
PRCVP-A-2-03	Pedal	100	3	20	45.8~111.8
PRCVP-B-1-01	Pedal	100	3	10	40±3~80±7
PRCVP-B-1-02	Pedal	100	3	10	19.5±1.5~117±7
PRCVP-B-1-06	Pedal	100	3	10	51±3~117±7
PRCVP-B-1-09	Pedal	100	3	10	31±2~69±5 (106±2)
PRCVP-B-1-10	Pedal	100	3	10	40±3~80±7

HPVMF Series

Hydrostatic Transmission (HST)

The HPVMF Series are all-in-one driving devices consisting of the closed loop axial piston pump and the closed circuit high speed swash plate type axial piston motor in one housing. They are applied for farm machinery and construction heavy machinery.



Key Features:

- High efficient and powerful driving performance
- Smooth driving speed adjustment without operating the gear shaft
- Can be utilized on applications that require high torque output at low driving speed or repeat reversing direction

Tractor | Combine Harvester | Rice Transplanter

Model	Pump Displacement (cc/rev)	Motor Displacement (cc/rev)	Max Input Speed (rpm)	Max Output (rpm)	Max Pressure (kgf/cm^2)	Max Output Torque (kgf·m)	Charge Pump Displacement (cc/rev)
HPVMF-16-L-01	0-16.4	16.4	3600	0-3600	210-280	6.5	4.9
HPVMF-18-L-01	0-18.3	18.3	3260	0-3260	280	8.2	6
HPVMF-18-L-03	0-18.3	18.3	3260	0-3260	280	8.2	-
HPVMF-20-L-01	0-20	20	2700	0-2700	280	8.9	-
HPVMF-21-L-01	0-21.5	21.5	3600	0-3600	180	6.2	-
HPVMF-21-L-02	0-21.5	21.5	3400	0-3400	245	8	2.1
HPVMF-21-R-04	0-21	21	3600	0-3600	245	8	-
HPVMF-23-L-02	0-23.7	23.7	3260	0-3260	250-315	11.9	6



Model	Pump Displacement (cc/rev)	Motor Displacement (cc/rev)	Max Input Speed (rpm)	Max Output (rpm)	Max Pressure (kgf/cm^2)	Max Output Torque (kgf·m)	Charge Pump Displacement (cc/rev)
HPVMF-23-L-11	0-23	23	3300	0-3300	210	7.69	-
HPVMF-28-L-09	0-28.1	28.1	3000	0-3000	300	13.4	6.2
HPVMF-28-L-10	0-28.2	28.2	3260	0-3260	340	15.3	6
HPVMF-32-L-01	0-32	32	3300	0-3300	315	16.05	6
HPVMF-37-L-01	0-37	37	3000	0-3000	250-290	17	7.35
HPVMF-37-L-11	0-37	37	3300	0-3300	350	20.6	7.35
HPVMF-40-L-02	0-40.3	40.3	3250	0-3250	350	22.5	8.2
HPVMF-40-L-03	0-40.3	40	3400	0-3400	350	22.3	8.2

PMF Series

Axial Piston Motor

The PMF Series are fixed displacement axial piston motors of swash plate design for winch and mobile applications. They are used for traveling, swing, and winching of industrial machinery and vehicles.



Key Features:

- Great self-priming capability and high starting efficiency
- Superior performance in operation at any speed
- Outstanding durability against acceleration/deceleration, torque changes by frequent rotation/reverse rotation, and pressure variation

Crane | Ship | Special Vehicle

Model	Displacement (cc/rev)	Pressure (kgf/cm²)		Torque (kgf·m)		Speed (rpm)
		Rated	Max	Rated	Max	
PMF-16-01-K	16.2	210	250	5.4	6.4	3000
PMF-16-01-S	16.2	210	250	5.4	6.4	3000
PMF-20-01-K	20	210	250	6.6	8	3000
PMF-20-01-S	20.2	210	250	6.7	8	3000
PMF-25-01-S	25.7	210	250	8.6	10.2	3000
PMF-25-01-K	25.7	210	250	8.6	10.2	3000
PMF-25-01-K,D	25.7	210	250	8.6	10.2	3000
PMF-25-01-S, F	25.7	210	250	8.6	10.2	3000
PMF-25-02-K	25.7	210	250	8.6	10.2	3000
PMF-25-02-S	25.7	210	250	8.6	10.2	3000
PMF-25-03-K	25.7	210	250	8.6	10.2	3000
PMF-25-05-S	25.7	210	250	8.6	10.2	3000
PMF-25-06-S	25.7	210	250	8.6	10.2	3000
PMF-25-07-K	25.7	210	250	8.6	10.2	3000
PMF-25-08-S	25.7	210	250	8.6	10.2	3000
PMF-25-09-S	25.7	210	250	8.6	10.2	3000
PMF-27-01-K	27.08	210	300	9.1	12.9	3200
PMF-36-01-K	36	210	250	12	14.3	3000
PMF-36-01-S	36	210	250	12	14.3	3000



Model	Displacement (cc/rev)	Pressure (kgf/cm²)		Torque (kgf·m)		Speed (rpm)
		Rated	Max	Rated	Max	
PMF-36-04-S	36	210	250	12	14.3	2800
PMF-36-05-K	36	210	250	12	14.3	2800
PMF-36-06-K	36	210	250	12	14.3	3000
PMF-39-00-K	39	210	250	13	15.5	2500
PMF-39-00-S	39	210	250	13	15.5	2500
PMF-39-01-K	39	210	250	13	15.5	2500
PMF-39-01-S	39	210	250	13	15.5	2500
PMF-39-02-K	39	210	250	13	15.5	2500
PMF-39-03-K	39	210	250	13	15.5	2500
PMF-43-01-K	43	210	250	14.3	17.1	3000
PMF-43-02-K	43.2	210	250	14.3	17.2	2800
PMF-43-03-S	43.2	210	250	14.3	17.2	2800
PMF-43-04-K	43.2	210	250	14.3	17.2	2800
PMF-43-05-K	43.2	210	250	14.3	17.2	2800
PMF-47-01-K	47	210	250	15.7	18.7	3000
PMF-47-01-K,C	47	210	250	15.7	18.7	3000
PMF-47-01-S	47	210	250	15.7	18.7	3000
PMF-47-04-K	47	210	250	15.7	18.7	3000
PMF-47-11-K	47	210	250	15.7	18.7	3000



PMV Series

Winch Drum

The PMV Series are hydraulic motor-driven units with a variable displacement axial piston motor of swash plate design and an integrated balancing valve unit for controlling the load while it is descending. They are used in construction, shipbuilding, industrial machinery, and special vehicles.

Crane | Ship | Special Vehicle

Key Features:

- All mechanical and hydraulic parts incorporated in the drum
- Excellent mechanical and hydraulic performance
- High braking torques
- Various built-in functions for excellent operational performances
- Optimized design for high durability and reliability
- Excellent shock absorption
- Automatic start and stop operation as the motor runs and stops running

Model	Output Torque (kgf.m)	Output Speed (rpm)	Gear Ratio	Motor						
				Displacement (cc/rev)	Max Speed (rpm)	Rated Pressure (kgf/cm²)	Two Speed Ctrl. Pressure (kgf/cm²)	Parking Torque (kgf.m)	Brake Release Pressure (kgf/cm²)	Max Flow (L/min)
PMV-28/19-03-42R	397/272	72/104	42.44	28/19.2	3036/4427	210	20	1103	10.6	85
PMV-31-01-R45	467.5	60.8	45.569	30.7	2770	210	20	1184	10	85
PMV-48/24-01-R45	736/373	34.1/67.2	45.569	48.3/24.5	1553/3061	210	20	1184	10	75
PMV-53/31-02-R41	740/427	38.4/66.5	41.625	53.2/30.7	1598/2769	210	20	1342	10	85
PMV-53/31-02-R45	810/468	35.1/60.8	45.569	53.2/30.7	1598/2769	210	20	1184	10	85
PMV-59/34-01-R45	903/521	31.5/54.5	45.569	59.3/34.2	1433/2485	210	20	1184	10	85



PBVM Series (Bent Axis)

Axial Piston Motor

The PBVM series are variable displacement axial piston motors of bent axis design for various applications such as winch machines, precision machinery, and special vehicles.

Key Features:

- High pump efficiency and reduced noise
- High rated pressure and long durability
- Easy maintenance and repair

Crane | Ship | Special Vehicle

Model	Max Displacement (cc/rev)	Max Speed (rpm) (at q_{min})	Max Pressure (kgf/cm²)	Pilot Control	Pressure Rise (kgf/cm²) (ΔP)	Weight (kg)
				Start of Control Range (kgf/cm²)		
PBVM-80	80	6000	350	80 - 300	10	47.5



PPF Series

Axial Piston Pump

The PPF Series are fixed displacement axial piston pumps of swash plate design for winch and mobile applications. They are used as a main pump for special vehicles, industrial machinery, and ship machinery.

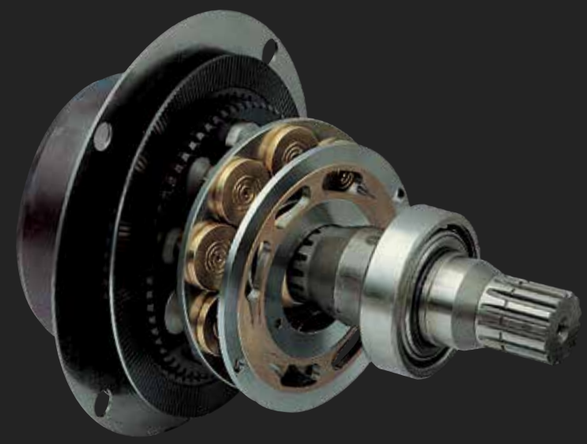
Key Features:

- High pump efficiency and reduced noise
- High rated pressure and long durability
- Easy maintenance and repair

Crane | Ship | Special Vehicle

Model	Displacement (cc/rev)	Pressure (kgf/cm²)		Speed (rpm)	
		Rated	Max	Min	Max
PPF-48-01	48	250	300	500	3000
PPF-48-02	48	320	350	500	3000
PPF-48-VR-03	48	320	350	500	3000
PPF-54-01	54	250	300	500	3000
PPF-54-02	54	320	350	500	3000
PPF-54-03	54	250	350	500	3000
PPF-54-04	54	320	350	500	3000

Model	Displacement (cc/rev)			Max Speed (rpm)	Max Pressure (MPa)			Weight (kg)
	P1, P2 (Max)	P3	P4		P1, P2	P3	P4	
JPV-024P	12	6	2.7	2450	23.5	21.6	3.9	20.9







Hydraulic Parts

PMC provides diverse hydraulic parts for piston pump and piston motor. With many years of experience and technical know-how, we can meet any customer's needs. We use high quality materials to manufacture rotary groups, cylinder blocks, valve plates, piston sets, set plates, shoe plates, shoe plates, shafts, swash plate assemblies, ball guides, seal kits, and more.





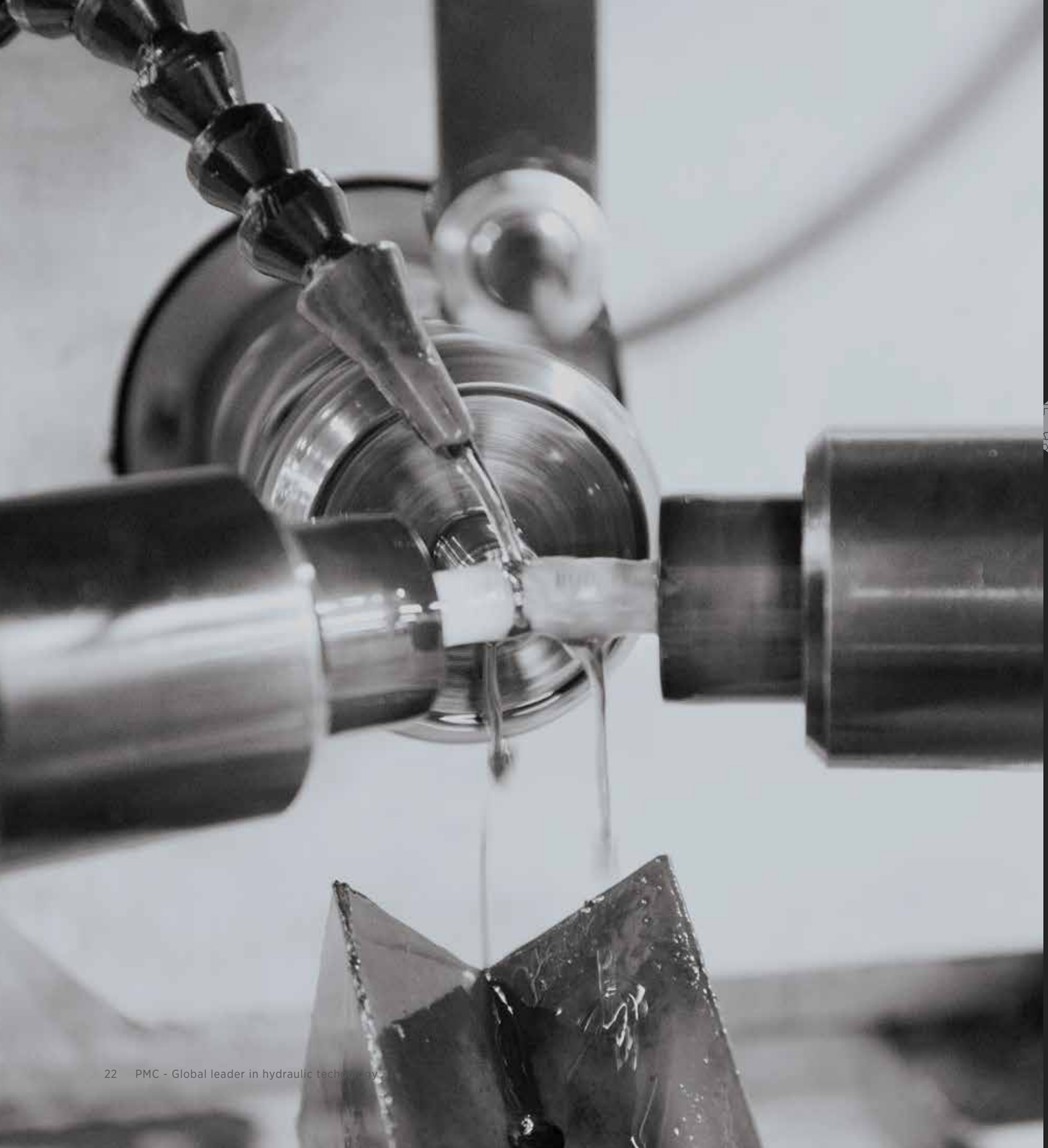


Kobelco	K907
	SK07II
	SK07N2
	SK60-5
	SK200
	SK015SR
Kayaba	MAG150/170/230
	MSF89/270/340
	MSF52/59P
	PSV2 55/60/63T
	PSVD2 17/21
	PSVK2 25/27
	PSVL 54CG
Komatsu	PC60/71/120/200/300/400/450
Nachi	PVD 1/2/3B
Kubota	DC60/68
	E300
Kawasaki	DNB08/50
	K3SP36
	K3V63/112/140/180/280DT
	K3V180/200DTH
	K5V80/140/160/200DT
	K5V212/K7V63/125
	KTM701
	KVC925/930/932
	M2X22/55/63/96/120/146/170/210
	M5X80/130/180
	MX03/80/150/173/750
	MX55S
	NV64/70/80/84/111/137/172DT
	NV137/270
	NVK45DT
Teijin Seiki	EM105
	GM08/09/15/17/18
	GM18VL2
	GM30F
	GM30H
	GM35VL
Hitachi	EX60/100/120/200/220/270/300/400
	HMT107/116/134CF
	HMV145
	HPV050/102/118/125/135/145
	HPV145F
	UH07/10/083
	ZAXIS120/270/450
Shibaura	HTM450D
	MFB80/160





Danfoss Daikin/Sauer Sundstrand	90L055/075/100/130
	90P055/100/130/250
	42R41
	M15/18
	M20/21/22/23/24/25/26/27
	M44/46
	PV16A/MF16A
	PV119
	PVA656SL
	PVD21/22
	SPV119
	SPV15/18/20/21/22/23/24/25/26/27
	VRD63
	S45J45
	S45F90
	H1P053
	90P250
Uchida/ Hydramatic Rexroth	A10V28/40/43/45/63/71
	A10V100
	A10VD17/43
	A7VO250
	A7V500
	A10VO28
	A2FO23
	A4V71EL
	A4V125
	A4VG125/180
	A6VM160
	A8VO55/107/160/200
	A8V55/80/86/107/172
	AP2D25/36
	AP5S53
	A20V060
Denison	P6P
Eaton Vickers	PVE19/21
	PVH131
	V38
	72400
	TA1919
Caterpillar Mitsubishi	CAT AP12 (OLD/NEW)
	CAT12G/14G
	CAT140/140G/160G
	CAT312/320/325
	CAT350L
	SBS80/120/140
	E200B
	SPK10/10
Caterpillar Mitsubishi	MS110/160/180
	MS230/300/450
Linde	B2PV35/50/75/105
	BPV200
	LPVD64/125
	HPR100/130/160
Fiat Allis	F85
Nabtesco	MF107Z
	MFC040/65/80/160
	MV150/90Z
	MV200/140Z
	EX105
Paker	PAVC38/100





Everyday, we challenge ourselves to become the best hydraulic devices manufacturer in the world.

We, PMC, are a global leader in hydraulic device technologies. For the last 50 years, PMC drove the success of its clients in a wide range of construction heavy machinery, farm machinery, special vehicles, ships, power plants, and precision machines markets. PMC's engineering expertise and broad range of core technologies uniquely positions the company to help to solve diverse hydraulic challenges in this world.



OUR INNOVATION NEVER STOPS

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