



# ALFA\*tech

*Product Guide 2015*



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## Product - Assembled

- ❖ Track Motor (Final Drive)
- ❖ Swing Motor
- ❖ Main Pump
- ❖ Axial Piston Motor
- ❖ Axial Piston Pump
- ❖ Radial Piston Motor
- ❖ Hydrostatic Transmission
- ❖ Joysticks Valve
- ❖ Pedal Valve

# Track Motor(Final Drive)

## JMV-R Series



Item	Travel motor
Use	Travel device for all crawler type equipment
Applicable machines	1.5 ~ 45 ton excavators, cranes, dozers etc.
Features	<ul style="list-style-type: none"><li>- Double speed sloping board type axial piston motor</li><li>- Brake valve &amp; Mechanical brake are built in type</li><li>- Enable to converse from high-speed low torque to low-speed high torque</li><li>- Highly durable</li></ul>



# Track Motor(Final Drive)

## JMV-R Series (Specification)

Specification		Model														
		JMF-16	JMV-16	JMV-21	JMV-23	JMV-44	JMV-47	JMV-53	JMV-67	JMV-76	JMV-147	JMV-168	JMV-155	JMV-173	JMV-185	JMV-274
hydraulic motor	Input Flow (L / min)	17	17	35	35	55	82	80	112	123.5	220	247.3	260	260	290	366
	Set Press. of Relief V/V (kgf / cm <sup>2</sup> )	214	220	250	240	220	300	280	330	350	360	350	330	330	360	350
	Motor Displacement (cm <sup>3</sup> / rev)	16.1	10.4 / 16.4	11.2 / 21	14.7 / 23.5	43.7 / 22.7	46.6 / 27.5	53.21/31.37	67.3 / 41.2	76.62 / 44.8	146.5 / 95	168.4/102.5	154.8 / 88.5	173	185/114.13	274/169.8
	Amount of Gear oil ( L )	0.33	0.6	0.6	0.6	1.2	1.2	1.4	2.2	2.2	2.2	2.2	4.3	4.3	4.3	4.3
Reduction Gear	Gear Ratio	31 / 1	31 / 1	53.7 / 1	53.7 / 1	53.706 / 1	53.706 / 1	47.065/1	53.706 / 1	54 / 1	50.508 / 1	50.508/1	72.978 / 1	72.978/1	70.18/1	63/1
	Theoretical output torque (kgf.m)	144.5	195.3 / 308	241.6 / 451	301.5 / 482	822 / 4278	1195 / 705	1115.9/657.9	1908 / 1168	2301.5 / 1347.3	3886 / 2520	4738.1/2884	8856 / 3348	6630	7438/4598	9614/5953.5
	Theoretical output speed (r.p.m)	33.4	33.4	58 / 31	44.3 / 27.7	23.4 / 45.1	32.7 / 55.5	31.9 / 54.2	30.82 / 50.34	29.85 / 51.05	29.7 / 45.8	29 / 47.7	23 / 40.2	20.6	22.3 / 36.2	21.2 / 34.2
Parking Brake	Theoretical Brake Torque (kgf.m)	min 1.8	min 1.8	min 5	min 5	min 8.4	min 451	min 451	1855.44	1063.8	2490	2490	2919	2919	2807	4599
	Brake Release Press (kgf / cm <sup>2</sup> )	15	6.6 ~ 9.9	6.6 ~ 9.9	6.6 ~ 9.9	9	9	9	9	9.5	11	11	9	9	9	17
Applicable excavator class (ton)		1.5	3	3.5	3.5	5	7	8	11	14	22	25	29	30/33	36	45



# Swing Motor

## JMF-VBR Series



Item	Slewing motor
Use	Allows machine body to turn or rotate
Applicable machines	1.5 ~ 45 ton excavators, cranes
Features	<ul style="list-style-type: none"><li>- Axial swash type piston motor</li><li>- Mechanical brake relief valve and make-up valve built in type</li><li>- Mechanical shocks are minimized by absorbing changes pressure</li><li>- High capacity and durability</li></ul>



# Swing Motor

## JMF-VBR Series (Specification)

		JMF-29	JMF-43	JMF-64	JMF-68	JMF-151	JMF-195	JMF-250
Hydraulic Motor	Displacement (cc)	28.87	43	64.3	67.8	151	194.5	233
	Pressure (kg.f/cm <sup>2</sup> )	215	200	240	250	240	275	290
	Output torque (kg.f-m)	9.87	13.68	24.57	25.89	57.67	85.1	107.54
	Brake torque (kg.f/cm <sup>2</sup> )	14	14	59	25	59	88.2	107
	Brake Release Pressure (kg.f/cm <sup>2</sup> )	Min20 – Max40	Min25 – Max50	Min33 – Max50	Min33 – Max50	Min33 – Max50	Min33 – Max50	Min33 – Max50
	Applicable machine class	5 ton	7 ton	13 ton	14 ton	22 ton	30 ton	36 ton

\* Various types of reduction gears are available.



# Main Pump

## OEM MAIN PUMP



Item	Main Pump
Use	Main pump for Heavy equipment
Applicable machines	13 ~ 45 ton excavators, cranes, dozers etc.
Features	<ul style="list-style-type: none"><li>- Swash-plate type axial piston pump (Single/Double)</li><li>- High efficiency and reliability</li><li>- Various sizes of optional gear pumps are attachable</li><li>- Rotary &amp; Seal kits also available</li></ul>





# Main Pump

## Main Pump (Double Tandem Type)

Model	Displacement (cc/rev)	Pressure(kgf/cm <sup>2</sup> )		Max Speed (rpm)	Max input torque (kgf/m)	Weight (kg)	Application (ton)
		Rated Pressure	Instantaneous Max Pressure				
A3V63DP	63x2	320	350	3,250	35	81	13
A3V112DP	112x2	320	350	2,700	60	125	20~25
A3V140DP	140x2	320	350	2,500	114	160	29~34
A3V180DP	180x2	320	350	2,300	112	160	36~45

\* Regulators and optional pumps are attachable



# Axial Piston Motor

## JMF Series



Item	Axial Piston Motor(Fix type)
Use	Multi purpose portable motor
Applicable machines	Construction, Agricultural and industrial machinery
Features	<ul style="list-style-type: none"><li>- Axial swash type piston motor</li><li>- Fixed displacement swash type</li><li>- Light, small and highly durable</li><li>- Using for harsh torque/pressure, rapid acceleration/deceleration</li></ul>



# Axial Piston Motor

## JMF Series (Specification)

Model	Displacement (cc/rev)	Pressure(kgf/cm <sup>2</sup> )		Speed (rpm)	Weight (kg)
		Rated Pressure	Instantaneous Max Pressure (rpm)		
JMF-25-01	25.7	210	250	2,500	7.5
JMF-36-01	36	210	250	2,500	11
JMF-43-01	43	210	250	2,500	11
JMF-47-01	47	210	250	2,000	10

\* Spline/Key types are available



# Axial Piston Pump

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## JPF Series



Item	Axial Piston Pump(Fix type)
Use	Multi purpose portable pump
Applicable machines	Construction, Agricultural and industrial machinery
Features	<ul style="list-style-type: none"><li>- Axial swash type piston pump</li><li>- Fixed displacement swash type</li><li>- Light, small and highly durable</li><li>- Easy Maintenance and repair because of simple structure</li></ul>



# Axial Piston Pump

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## JPF Series (Specification)

Model	Displacement (cc/rev)	Pressure(kgf/cm <sup>2</sup> )		Speed(rpm)		Weight (kg)
		Rated Pressure	Instantaneous Max Pressure (rpm)	Min	Max	
JPF-48-01	48	250	300	500	2500	15
JPF-54-01	54	250	300	500	2500	16



# Radial Piston Motor

## JRC Series



Item	Radial Piston Motor
Use	Wide range of applications
Applicable machines	Injection molding machines, construction, industrial, marine machineries
Features	<ul style="list-style-type: none"><li>- Low speed high-torque</li><li>- Operating at a wide range of speed</li><li>- High durability</li></ul>



# Radial Piston Motor

## JRC Series (Specification)

Model	Displacement (cc/rev)	Pressure(kgf/cm <sup>2</sup> )		Speed(rpm)		Torque (kgf · m)		Rated Output (kw)	Weight (kg)
		Rated Pressure	Instantaneous Max Pressure (rpm)	Rated Speed	Continuous Max Speed	Rated	Max		
JRC-200	201	160	210	360	600	47	62	17	43
JRC-400	403	160	210	230	400	97	115	23	70
JRC-500	499	210	250	290	500	155	184	46	80
JRC-650	654	210	250	276	457	201	239	57	114
JRC-750	748	210	250	260	400	233	277	62	114
JRC-1000	1005	210	250	240	360	313	372	77	150
JRC-1200	1206	210	250	230	330	369	439	87	154
JRC-1350	1357	210	250	215	315	417	496	92	170
JRC-1500	1507	210	250	200	300	463	551	95	174
JRC-2100	2099	210	250	180	260	645	767	119	237
JRC-3200	3203	210	250	140	205	982	1168	141	292
JRC-3500	3516	210	250	135	195	1076	1280	149	300
JRC-4500	4516	210	250	120	145	1382	1643	170	396
JRC-5000	5032	210	250	110	130	1534	1727	174	400
JRC-6600	6580	210	250	90	120	1979	2230	183	490

# Radial Piston Motor

## JRT Series



Item	Radial Piston Motor
Use	Wide range of applications
Applicable machines	Injection molding machines, construction, industrial, marine machineries
Features	<ul style="list-style-type: none"><li>- JRC Motor with pilot valve</li><li>- Two-speed changeover</li><li>- Output torque control available</li><li>- Energy saving</li></ul>





# Radial Piston Motor

## JRT Series (Specification)

Model	Displacement (cc/rev)		Pressure(kgf/cm <sup>2</sup> )		Speed(rpm)		Torque (kgf · m)		Max. Fluid Temperature (°C)	Weight (kg)
	100%	50%	Rated Pressure	Instantaneous Max Pressure (rpm)	100%	50%	100%	50%		
JRT-500	499	250	210	250	500	1000	155	78	70	95
JRT-750	748	374	210	250	400	800	233	116	70	127
JRT-1000	1005	502	210	250	360	720	313	156	70	170
JRT-1200	1206	603	210	250	330	660	369	184	70	170
JRT-1350	1357	678	210	250	315	630	417	208	70	190
JRT-1500	1507	753	210	250	300	600	463	231	70	190
JRT-2100	2099	1049	210	250	260	520	645	322	70	260
JRT-3200	3203	1601	210	250	205	410	982	491	70	310
JRT-3500	3516	1758	210	250	195	390	1076	538	70	330



# Hydrostatic Transmission

## HST Series



Item	Hydrostatic Transmission
Use	Hydraulic power transfer device
Applicable machines	Agricultural and Construction machines
Features	<ul style="list-style-type: none"><li>- Composed of Hydraulic pump and motor in single body</li><li>- Displacement is variable upon the swash plate degree</li><li>- Forward, reverse and stop mode available with simple lever control</li><li>- Easy use of transporting system</li></ul>



# Hydrostatic Transmission

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## HST Series (Specification)

Model	Pump Displacement (cc/rev)	Motor Displacement (cc/rev)	Max. Input Speed(rpm)	Max. Output Speed(rpm)	Max. Pressure (kgf/cm <sup>2</sup> )	Max. Output Torque (kgf · m)	Charge Pump Displacement (cc/rev)	Weight (kg)
HPVMF-16-L-01	0~16.4	16.34	3600	0~3600	210~280	6.5	4.9	16
HPVMF-16-L-02	0~16.4	16.4	3200	0~3200	210~280	5.5	4.0	16
HPVMF-23-L-01	0~23.3	23.3	3200	0~3200	250~320	11.9	6.2	21
HPVMF-23-L-02	0~23.7	23.7	3260	0~3260	250~315	11.9	6.0	23
HPVMF-37-L-01	0~37	37	3000	0~3000	250~290	17	7.35	26
HPVMF-37-L-02	0~37	37	3000	0~3000	300~320	19	7.35	26



# Remote Control Valve

## JRCVJ Series



Item	Joysticks
Use	Joysticks for excavators
Applicable machines	Doosan, Hyundai, Volvo machines
Features	<ul style="list-style-type: none"><li>- Excellent response to little movement</li><li>- High durability and reliability</li><li>- Minimum pressure loss</li><li>- High performance over wide range of temperature (-20℃~90℃)</li></ul>



# Remote Control Valve

## JRCVJ Series (Specification)

Model	Max Pressure (kgf/cm <sup>2</sup> )	Rated Flow (ℓ/min)	Max Back Pressure (kgf/cm <sup>2</sup> )	Weight (kg)
JRCVJ-01 ~ 05	100	20	3	4
JRCVJ-06	100	30	3	4
JRCVJ-07	100	30	3	2.5
JRCVJ-08	100	20	3	2
JRCVJ-09	100	20	3	2
JRCVJ-10 ~ 13	100	30	3	4
JRCVJ-20 ~ 25	100	20	3	4
JRCVD-01	50	35	3	2
JRCVD-02 ~03	50	8~35	3	2

\* If you make an inquiry with the serial number of Doosan or Hyundai, it is easier to find

\* Every models have different performance curve even same specification.



# Remote Control Valve

## JRCVP Series



Item	Pedals
Use	Pedals for excavators
Applicable machines	Doosan, Hyundai machines
Features	<ul style="list-style-type: none"><li>- Excellent response to little movement</li><li>- High durability and reliability</li><li>- Minimum pressure loss</li><li>- High performance over wide range of temperature (-20℃~90℃)</li></ul>



# Remote Control Valve

## JRCVP Series (Specification)

Model	Max Pressure (kgf/cm <sup>2</sup> )	Rated Flow (ℓ/min)	Max Back Pressure (kgf/cm <sup>2</sup> )	Weight (kg)
JRCVP-A-1-01 ~ 05	50	8~27	3	2
JRCVP-B-1-01 ~ 07	100	10	3	6
JRCVP-A-2-01 ~ 02	100	10	3	12
JRCVP-A-2-03	100	20	3	9.5
JRCVP-A-2-04	100	10	3	12

\* If you make an inquiry with the serial number of Doosan or Hyundai, it is easier to find  
\* Every models have different performance curve even same specification.



# Brands

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Travel Device(Final Drive), Swing Motor, RCV



Main Pump & Parts

**HITACHI**  
Inspire the Next

**KOBELCO**

**KOMATSU**

**LIEBHERR**

**CATERPILLAR®**

 **Sumitomo**







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## Product – Single Parts

- ❖ Rotary Kit
- ❖ Examples
- ❖ Parts List

# Single Parts

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# Single Parts

## A8V55ERIR, A8V55SR1R

Part No. :

## A8V59ESBR

Part No. :

## A8V80SR1R

Part No. : A8V80SR1R-#

## A8V86ESBR/ERBR/ERAR

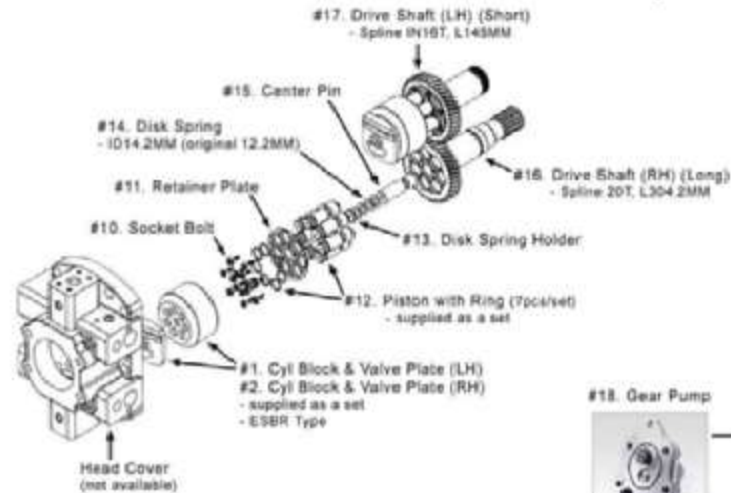
Part No. :

## A8V107ESBR/ERBR/ERAR

Part No. : A8V107-#

Head  
(not

Head  
(not



#18. Gear Pump

EX) Uchida A8V Series

[Alfa-tech.co.kr](http://Alfa-tech.co.kr)

# Single Parts

Brand	Series	Brand	Series
<b>KAWASAKI</b>	K3V	<b>REXROTH-UCHIDA</b>	A4V
	K5V		A7V
	DNB		A8V
	M2X		A10V
	M5X		AP2D
<b>HITACHI</b>	NV	<b>LINDE</b>	B2PV
	HPV		HPR
	HMT		LPVD
<b>SUNDSTRAND</b>	SPV	<b>KAYABA</b>	MSF
	PVD		PSV2
<b>NACHI</b>	PVD-2B	<b>NABTESCO/TOSHIBA</b>	EM
	PVD-3B		GM
⋮			
<b>All parts Made in South Korea (Certificate of Origin available)</b>			





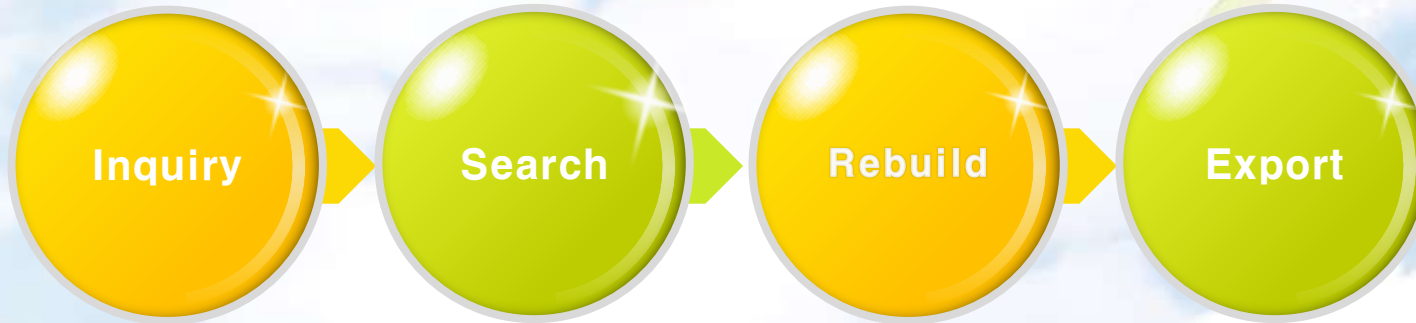
3

Product-Rebuild Product

❖ Rebuild Product

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# Rebuild Product



How to  
make an  
inquiry?

If you are looking for USED / REBUILD product, these information are required to inform us.

- Full model No. on the name tag
- Equipment Model No.
- Quantity

Rebuild  
Product?

Rebuild product means the pump or motor repaired with new inner parts. Generally cylinder blocks, piston shoes, plates, bearings and seal kit are replaced to new one.





4

## Product – Accessories

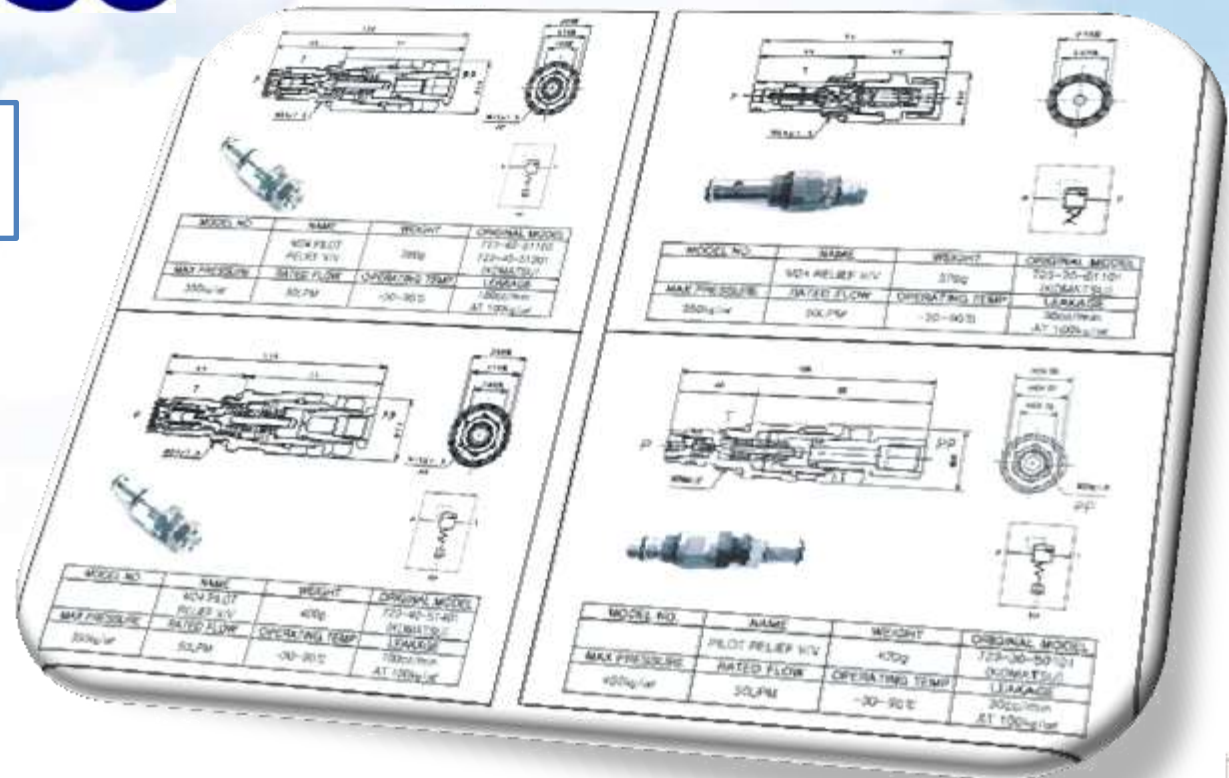
- ❖ Relief Valves
- ❖ Couplings
- ❖ Piston Rings

# Relief Valves

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# KOMATSU

Relief Valves for  
Komatsu machines





## COUPLING ASSY



	Model	Transmittable torque [N · m]	Element Material	Torsional angle under rated torque	Oil resistance
CENTAFLEX Coupling Series	CF-A	10~4000	Natural Rubber	3 ~ 6	X
	CF-H	100~2500	Polyester resin	0.2 ~ 0.3	O
	CF-X	15~370	Nylon resin	0.12	O



# Piston rings

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**Uchida A8V Type**



**Rexroth A2FO Type**



**Cassapa Type**



**OEM(Customized)**

*Minimum Order Quantity: 3,000 pcs per model*



## Test Report

Korea Institute of Industrial Technology 85 Yangdegiro-gil, Bhangryu-sa, Seodol-gu, ChonAn-si, Chungcheongnam-do 331-322, Korea (Tel: +82 41 589 8645 Fax: +82 41 589 8442)		Certificate No: C13N500003 Page( 3 ) of ( 4 ) Pages	
<b>1. Customer</b> o Company Name : Co. ALFA TECH o Address : 668, Gukhoe-daero, Yeongdeungpo-gu, Seoul, Korea o Date of Receipt : 03 January 2013			
<b>2. Use of Report</b> : Quality control			
<b>3. Test Sample</b> : Piston Ring			
<b>4. Date of Test</b> : 03 January 2013			
<b>5. Test method used</b> : KS B 0806 Method of Rockwell and Superficial hardness test			
<b>6. Testing Environment</b> o Temperature : ( 21 ~ 25 ) ℃			
<b>7. Test Results</b> : Attached			
The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This Test Report cannot be reproduced, except in full.			
Affirmation		Tested by Name : Juhes,Hong	
		Technical Manager Name : Jeongun,Yoon	
04 January 2013			
THE PRESIDENT OF THE KOREA INSTITUTE OF INDUSTRIAL TECHNOLOGY 			

## TEST RESULT

 Certificate No: C13N500003  
 page ( 4 ) of ( 4 )

1. Sample name : Piston Ring

2. Result

TEST TYPE	Load	Manufacturer	Model
Rockwell Hardness test	HRC	SATO	3K

	sample name			
	Piston Ring (AR080/96)	Piston Ring (ARVO107)	Piston Ring (ARV55)	Piston Ring (AZP028)
1號	62.5	63	62	63
2號	61.5	62.5	62	62.5
3號	62	62.5	62.5	62.5
평균	62	62.6	62.1	62.6



# Contact

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*Thank  
You*

