



World No.1 Hydraulic Expert

MOTROS

PRODUCT CATALOGUE

Move Your Machine, Move the Earth

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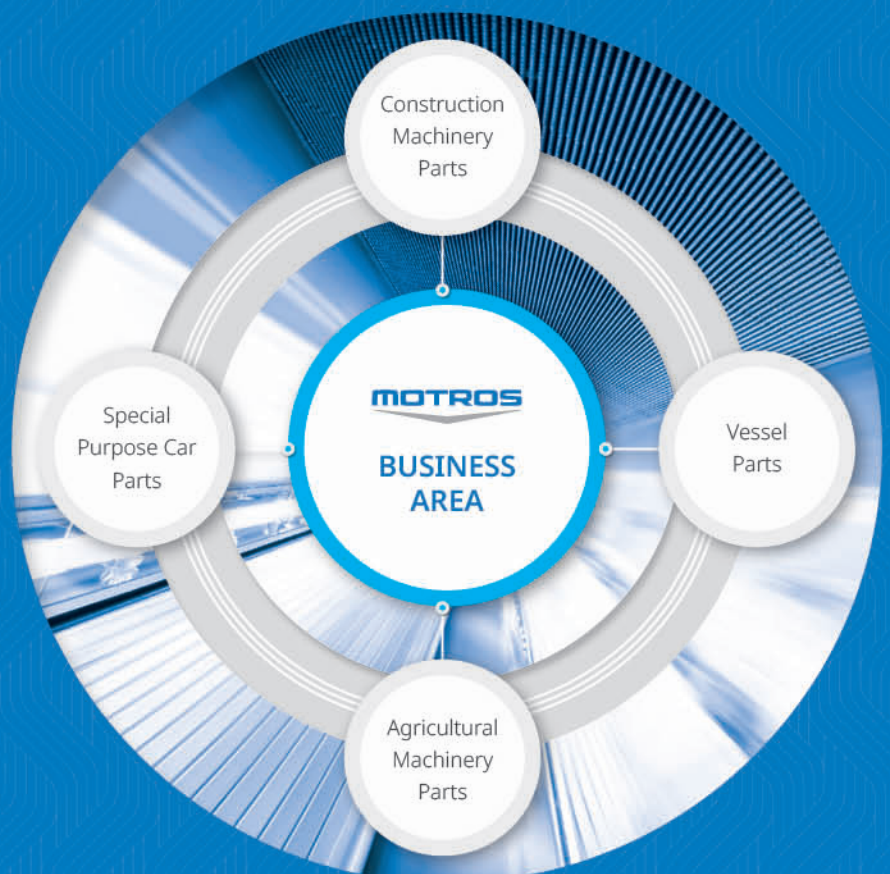
INTRODUCE

Motros

Motros has the meaning of 'Motion Control System'. In other words Motros covers all hydraulics system which control machines by hydraulics. Motros parts will move your machine and help to work.

Motros parts used to

Our parts are widely used in various industries such as earth moving machineries, vessels, industrial equipment, agricultural machines etc. We believe our hydraulic parts can make your machines and life work more efficiently. In order to realize this belief, we are doing our best to maintain high quality and quick service. We are very sure that Motros can be your best partner in hydraulics.



INTRODUCE

We have produced all our parts under strict standard. The quality management based on this harsh standard makes our parts stronger and more durable



BUSINESS AREA

You can find our high technology hydraulic parts in various industries.
Now we try to develop more sectors that our parts can be applied to.



Construction Machinery Parts

TRACK DRIVE MOTORS FOR CRAWLER TYPE MACHINES

MTA Series

Motros MTA track drive motors are compact with integrated reduction gear and multi-functioning valves. Advanced technology reduces power loss and ensures smooth start & stop. Also we improve overall mechanical efficiency for the best operation.



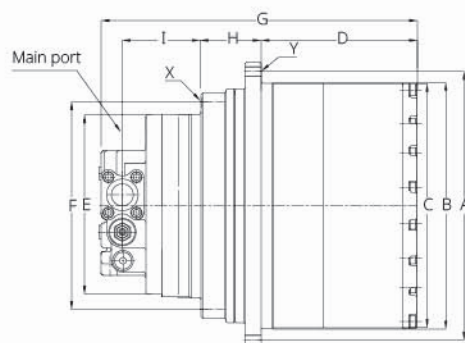
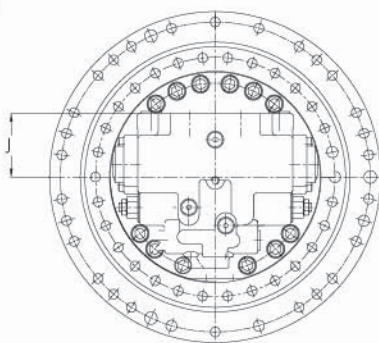
• MT1A / MT2A / MT3A / MT7A

	MT1A Series	MT2A Series	MT3A Series	MT7A Series
1.5 ton	15A16 15B16	15B11	18B12	
3 ton	30B16 30B16-N 35B21 35B23		35B23	
4 ton		40B25 40B25-N 40B33		40B33
5 ton	50B44 50B44-N	50B43 50B43-N 50B43-O	50B44	50B33
7 ton	70B47		70B47	70B40 70B56
8 ton	80B53 80B53-N	80B46 80B49 85B53	80B58	80B56
10 ton				100B86
11 ton	110B67			110B56 110B86
14 ton	140B76 140B76-N 140B76-O	140B81 140B76		140B86
18 ton				180B157
22 ton	220B147 220B147-N			220B183 220B174
25 ton	250B168			
30 ton	290B155			300B195
33 ton	300B173			330B280
36 ton	360B185			360B195
42 ton				420B280
52 ton				520B280

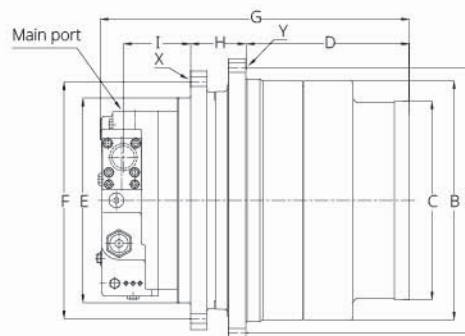
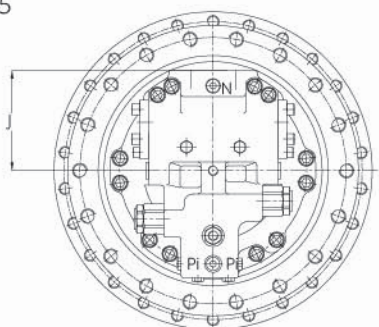
Track Drive Motor

MT1A Series

15A16 ~ 220B147, 220B168



290B155, 300B173, 360B185



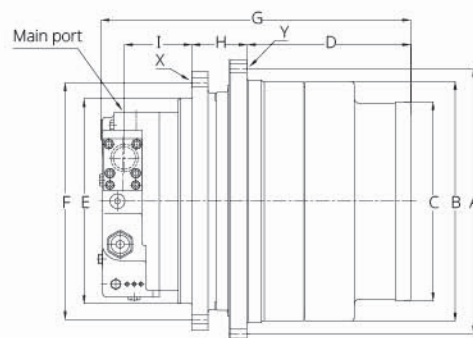
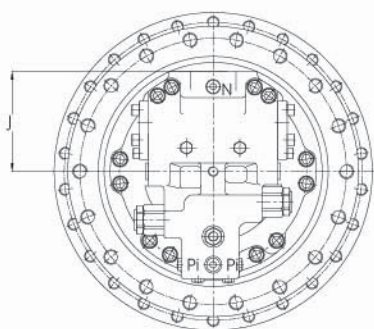
Dimension Table

Unit : mm

Model	ØA	ØB	ØC	D	ØE	ØF	G	H	I	J	X	Y	Main port
MT1A-15A16	180	160	154	99.5	150	170	214	40	58.5	39	10-M10	9-M10	2-G3/8 (2-PF3/8)
MT1A-35B21	232	204	196	132	165	192	257.5	50	55.5	51	9-M12	10-M12	2-G1/2 (2-PF1/2)
MT1A-35B23	232	204	196	132	165	192	257.5	50	55.5	51	9-M12	10-M12	2-G1/2 (2-PF1/2)
MT1A-50B44	282	250	244	155	210	244	342	68	76	74	12-M14	12-M14	2-G1/2 (2-PF1/2)
MT1A-70B47	300	265	244	148.5	210	250	351.5	80	74	74	12-M16	12-M14	2-G1/2 (2-PF1/2)
MT1A-80B53	300	265	261	149	210	250	344	80	72	76	12-M16	12-M14	2-G1/2 (2-PF1/2)
MT1A-110B67	364	324	320	204	225	320	400	83	88.5	74	16-M16	15-M16	2-1-1/16-12 UNF-2B
MT1A-140B76	364	324	320	193	246	280	396.5	98.5	81	74	20-M16	21-M16	2-G3/4 (2-PF3/4)
MT1A-220B147	440	402	400	250	300	340	515.5	98.5	123	90	30-M16	30-M16	Ø25 Flange
MT1A-250B168	440	402	400	250	300	340	515.5	98.5	123	90	30-M16	30-M16	2-G1 (2-PF1)
MT1A-290B155	492	450	369	305	380	440	572.5	102.5	103	165	18-M24	26-M20	Ø25 Flange
MT1A-300B173	492	450	369	305	380	440	572.5	102.5	103	165	18-M24	26-M20	2-G1 (2-PF1)
MT1A-360B185	490	450	369	295.5	380	425	572.5	112	103	165	26-M20	24-M20	Ø25 Flange

Track Drive Motor

MT2A / MT3A Series



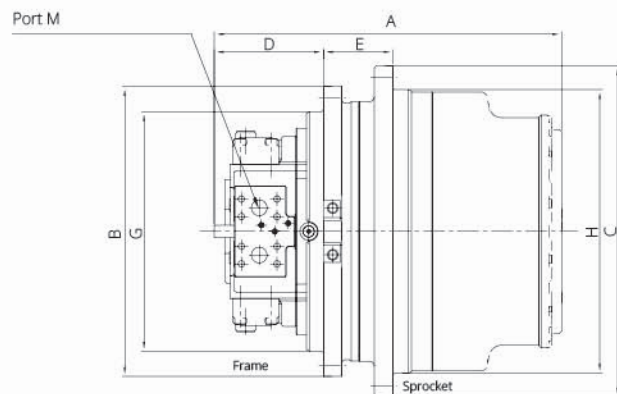
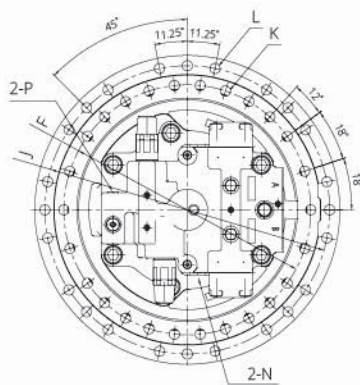
Dimension Table

Unit : mm

Model	ØA	ØB	ØC	D	ØE	ØF	G	H	I	X	Y
MT2A-15B11	155	133	133	76.6	140	155	190.1	45	68.5	9-M10	8-M10
MT2A-40B25	262	230	225	115.8	180	220	273.3	75.5	82	9-M14	12-M14
MT2A-40B25-N	262	230	225	115.8	180	220	273.3	75.5	82	12-M14	12-M14
MT2A-40B33	262	230	225	129	200	240	200	68	98	9-M14	12-M14
MT2A-50B43	262	250	244	154.5	210	244	344	68	121.5	12-M14	12-M14
MT2A-50B43-N	262	250	244	154.4	210	244	337.9	68	115.5	12-M14	12-M14
MT2A-50B43-O	282	250	244	154.5	210	244	338	68	89.5	12-M14	12-M14
MT2A-80B46	300	265	245	148.5	210	250	338	80	89.5	12-M16	12-M14
MT2A-80B49	300	265	245	137	210	250	332.5	80	89.5	12-M16	12-M14
MT2A-80B53	300	265	245	137	210	250	332.5	80	89.5	12-M16	12-M14
MT2A-140B81	364	324	320	208.5	290	320	414.5	83	123	16-M16	15-M16
MT2A-140B76	364	324	320	193	246	280	414.5	98.5	123	20-M16	15-M16

Model	ØA	ØB	ØC	D	ØE	ØF	G	H	I	X	Y
MT3A-18B12	232	140	133	81.5	140	155	202.5	45	63	8-M10	9-M10
MT3A-35B23	232	204	200	139	165	192	264	50	75	9-M12	10-M12
MT3A-50B44	282	250	244	164.5	210	244	352.5	68	101.5	12-M14	12-M14
MT3A-70B47	300	265	244	156.5	210	280	352.5	80	97.5	12-M16	12-M14
MT3A-80B59	300	265	244	156.5	210	250	352.5	80	97.5	12-M16	12-M14

MT7A Series



Dimension Table

Unit : mm

Model	A	ØB	ØC	D	E	ØF	ØG	ØH	ØJ	K	L	M	N	P
MT7A-40B33	288	264	290	92	68	240	200	230	262	12-M14 X P2.0	9-M14 X P2.0	3/4-16UNF	9/16-18UNF	9/16-18UNF
MT7A-50B33	288	264	290	92	68	240	200	230	262	12-M14 X P2.0	9-M14 X P2.0	3/4-16UNF	9/16-18UNF	9/16-18UNF
MT7A-70B40	340	268	306	119	68	244	210	250	282	12-M14 X P2.0	12-M14 X P2.0	PF1/2	PF3/8	PF1/4
MT7A-70B56	345	268	306	124	68	244	210	250	282	12-M14 X P2.0	12-M14 X P2.0	PF1/2	PF3/8	PF1/4
MT7A-80B56	340	280	326	126	80	250	210	265	300	12-M16 X P2.0	12-M14 X P2.0	PF1/2	PF3/8	PF1/4
MT7A-100B86	389	298	362	134	88	270	230	292	332	15-M16 X P2.0	12-M16 X P2.0	PF3/4	PF1/2	PF1/4
MT7A-110B56	353	278	328	120	80	250	210	265	300	12-M16 X P2.0	12-M16 X P2.0	PF1/2	PF3/8	PF1/4
MT7A-110B86	392	308	394	134	99.5	280	246	324	364	20-M16 X P2.0	15-M16 X P2.0	PF3/4	PF1/2	PF1/4
MT7A-140B86	398	308	394	124	99.5	280	246	324	364	20-M16 X P2.0	15-M16 X P2.0	PF3/4	PF1/2	PF1/4
MT7A-180B157	464	372	432	138	99.5	340	300	362	402	30-M16 X P2.0	24-M16 X P2.0	PF1, PF3/4	PF1/2	PF1/4
MT7A-220B183	540	370	470	159	98.5	340	300	402	440	30-M16 X P2.0	30-M16 X P2.0	SAE 1"	PF1/2	PF1/4
MT7A-220B174	502	370	470	138	98.5	340	300	402	440	30-M16 X P2.0	30-M16 X P2.0	SAE 1"	PF1/2	PF1/4
MT7A-300B195	569	462	525	175	112	425	380	450	490	26-M20 X P2.5	24-M20 X P2.5	SAE 1"	PF1/2	PF1/4
MT7A-330B280	553	460	525	166	112	425	380	450	490	30-M20 X P2.5	28-M20 X P2.5	SAE 1"	PF1/2	PF1/4
MT7A-360B195	569	462	525	175	112	425	380	450	490	26-M20 X P2.5	24-M20 X P2.5	SAE 1"	PF1/2	PF1/4
MT7A-420B280	553	460	525	166	112	425	380	450	490	24-M24 X P3.0	32-M20 X P2.5	SAE 1"	PF1/2	PF1/4
MT7A-520B280	668	500	586	207	130	460	420	510	550	26-M24 X P3.0	36-M20 X P2.0	SAE 1-1/4"	PF1/2	PF1/4

Construction Machinery Parts

SLEWING MOTORS FOR CONSTRUCTION MACHINES

MSD Series

Motros MSD series is fixed displacement axial piston motor for slewing applications. Integrated reduction gears and multi functioning valves can absorb pressure and shocks when the motor stops. This high technology makes the machine work with high performance..



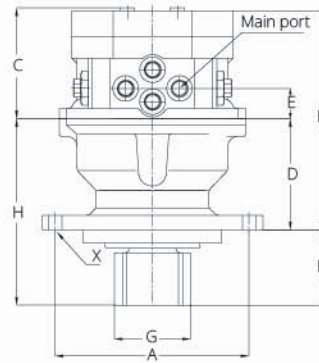
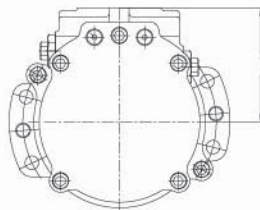
• MS1D / MS2D / MS3D / MS7D

	MS1D Series	MS2D Series	MS3D Series	MS7D Series
4 ton		40B27		
5 ton	50B29	50B29	50B29	50B32
6 ton		60B33		
7 ton	70B43		70B36	70B55
8 ton		80B43	80B43	
13 ton	130B68			140B72
17 ton				170B86
22 ton	220B151			180B128
29 ton				220B140
30 ton	300B195			290B160
33 ton	330B250			300B170
36 ton				300B180
				330B250
				380B280

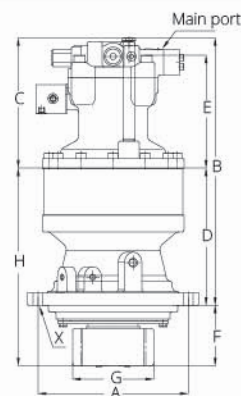
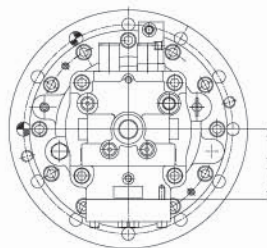
Slewing Motor

MS1D Series

50B27



50B29 ~ 330B250

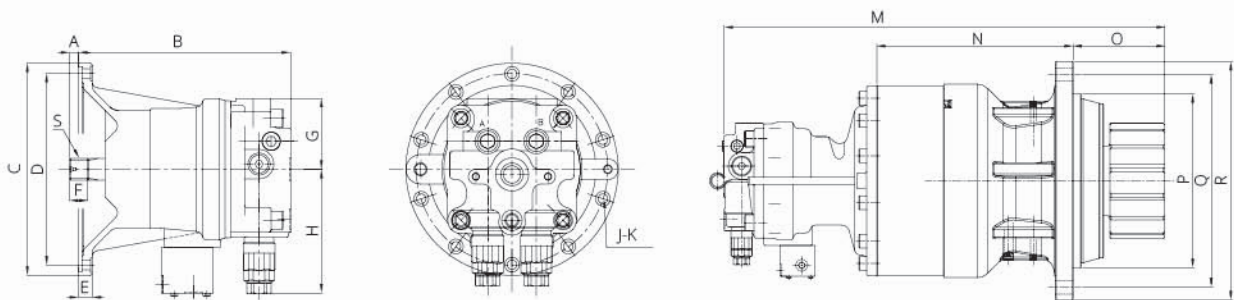


Dimension Table

Unit : mm

Model	ØA	B	C	D	E	F	ØG	H	I	X	Main port
MS1D-50B27	220	267	134.5	149	37	101	112	250	145	6-Ø17	2-G3/8 (2-PF3/8)
MS1D-50B29	275	405	210	194	184	98	112	292	72	7-Ø17	2-G1/2 (2-PF1/2)
MS1D-70B43	275	399	205	194	178	106	120.8	300	72	7-Ø17	2-G1/2 (2-PF1/2)
MS1D-130B68	290	468	234	234	196	113	143	347	97	9-Ø18	Ø13 Flange
MS1D-220B151	360	632	298	334	248	143	194	477	121	11-Ø22	Ø20 Flange
MS1D-300B195	430	737	342	395	258	184	232	579	112	12-Ø26	Ø25 Flange
MS1D-330B250	430	804	393	411	345	205	238	616	148	12-Ø26	Ø26 Flange

MS7D Series



Dimension Table

Unit : mm

Model	A	B	ØC	ØD	E	F	G	H		S	J - ØK	M	N	O	ØP	ØQ	ØR
MS7D-50B32	16.7	189.0	223	203	15	20.5	72	108.5	15tooth-16/32 Pitch	6 - 13	419	129.0	101	200	275	303	
MS7D-70B56	16.7	205.0	235	210	15	20.5	66	102.5	15tooth-16/32 Pitch	6 - 13	464	153.0	106	200	275	303	
MS7D-140B72	17.0	282.0	288	260	19	25.0	96	168.0	m=1.667, z=16	10 - 13	630	228.5	119	220	290	323	
MS7D-170B86	17.0	282.0	288	260	19	25.0	96	168.0	m=1.667, z=16	10 - 13	630	228.5	119	220	290	323	
MS7D-180B128	31.5	299.0	307	282	20.5	34.5	117	168.5	m=2.5, z=16	16 - 13	805	344.0	162	310	360	400	
MS7D-220B140	31.5	301.5	307	282	20.5	34.5	117	168.5	m=2.5, z=16	16 - 13	808	344.0	162	310	360	400	
MS7D-290B160	19.0	306.0	382	344	20	28.0	117	168.5	m=2.5, z=16	12 - 19	906	416.0	184	390	520	570	
MS7D-300B170	19.0	306.0	382	344	20	28.0	117	168.5	m=2.5, z=16	12 - 19	906	416.0	184	390	520	570	
MS7D-300B180	19.0	303.0	382	344	20	26.5	120	195.0	13tooth-8/16 Pitch	12 - 19	903	416.0	184	390	520	570	
MS7D-330B250	57.5	344.0	183	162	18	39.5	157	185.5	m=2.5, z=20	4 - 18	990	409.0	194	350	430	480	
MS7D-380B280	57.5	344.0	183	162	18	39.5	157	185.5	m=2.5, z=20	4 - 18	990	409.0	194	350	430	480	

Special Purpose Car Parts

WINCH MOTORS FOR CARGO CRANE

MWA Series

Motros MWA series is fixed displacement axial piston motor for multi purposes. It is mainly used for special purpose cars such as cargo cranes, aerial platforms, grass cutters etc. The quality for MWA has been proved by various clients for more than two decades. It is well known for powerful performance even though it has simple structure.

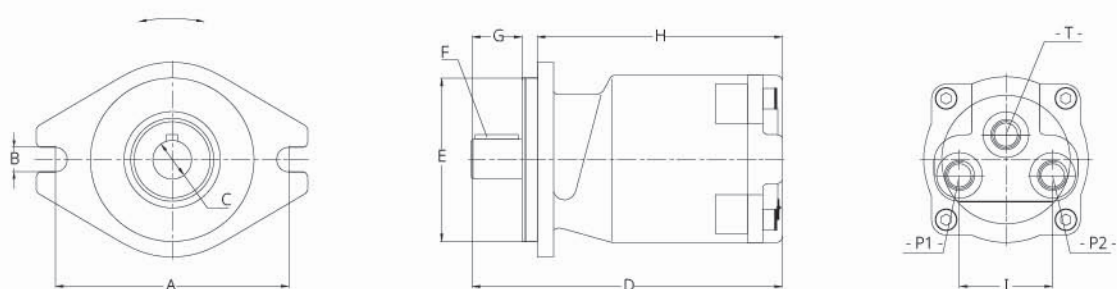


• MW3A

Motros part No.	Displacement (cc/rev)	Pressure (bar)		Torque (kgf/cm ²)		Speed rpm	Shaft type
		Rated	Max	Rated	Max		
MW3A-25A-S	25	210	250	8.6	10.2	150~3,000	Spline
MW3A-25B-K	25	210	250	8.6	10.2	150~3,000	Key
MW3A-25C-S	25	210	250	8.6	10.2	150~3,000	Spline
MW3A-25D-S	25	210	250	8.6	10.2	150~3,000	Spline
MW3A-25E-K	25	210	250	8.6	10.2	150~3,000	Key
MW3A-25F-S	25	210	250	8.6	10.2	150~3,000	Spline
MW3A-25G-S	25	210	250	8.6	10.2	150~3,000	Spline
MW3A-36A-K	36	210	250	12	14.3	150~3,000	Key
MW3A-36B-S	36	210	250	12	14.3	150~3,000	Spline
MW3A-36C-S	36	210	250	12	14.3	150~3,000	Spline
MW3A-39A-S	39	210	250	13	15.5	150~3,000	Spline
MW3A-39B-K	39	210	250	13	15.5	150~3,000	Key
MW3A-39C-S	39	210	250	13	15.5	150~3,000	Spline
MW3A-39D-K	39	210	250	13	15.5	150~3,000	Key
MW3A-43A-K	43	210	250	14.3	17	150~3,000	Key
MW3A-43B-K	43	210	250	14.3	17	150~3,000	Key
MW3A-43C-S	43	210	250	14.3	17	150~3,000	Spline
MW3A-43D-K	43	210	250	14.3	17	150~3,000	Key
MW3A-43E-K	43	210	250	14.3	17	150~3,000	Key
MW3A-47A-K	47	210	250	15.7	18.7	150~3,000	Key
MW3A-47B-S	47	210	250	15.7	18.7	150~3,000	Spline
MW3A-47C-K	47	210	250	15.7	18.7	150~3,000	Key
MW3A-47D-K	47	210	250	15.7	18.7	150~3,000	Key

Winch Motor

MW3A Series



Dimension Table

Unit : mm

Model	A	B	ØC	D	ØE	F	G	H	I
MW3A-25A/B/C	106	12.2	25	194.5	82.5	25 X 13 X 1.667 (Spline)	51.5	153.5	58
MW3A-25D/E/F/G	146	15	24	194.5	101.6	7 X 7 X 27 (Key)	32.1	153.5	58
MW3A-36A/B MW3A-39B/C	146	15	24	213.2	101.6	7 X 7 X 27 (Key)	32.1	172	67
MW3A-43A	146	11.2	22	218	101.6	7 X 7 X 32 (Key)	39.5	172	67
MW3A-43G/C/D/E	106	11.2	25	218	82.5	25 X 13 X 1.667 (Spline)	39.5	172	67
MW3A-47A/B/C/D	146	15	24	213.2	101.6	7 X 7 X 27 (Key)	32.1	172	67

Model	P1	P2	T1
MW3A-25A/B/C	PF3/8	PF3/8	PF3/8
MW3A-25D/E/F/G	PF3/8	PF3/8	PF3/8
MW3A-36A/B	PF1/2	PF1/2	PF1/4
MW3A-39B/C	PF1/2	PF1/2	PF3/8
MW3A-43A	PF1/2	PF1/2	PF3/8
MW3A-43G/C/D/E	PF1/2	PF1/2	PF3/8
MW3A-47A/B/C/D	PF1/2	PF1/2	PF3/8

Special Purpose Car Parts

HYDRAULIC PUMP FOR CONCRETE PUMP CAR

MPA Series

The MPA series Swash Plate Type Axial Piston Pumps are designed to satisfy the marine, mobile and industrial markets where a medium/high pressure variable displacement pump is required.

MPA pumps are available in nominal displacements ranging from 28 to 200 cm³/rev with various pressure, torque limiter, and combination of load sensing control options.



- MP4A

Pump type	Capacity (cm ³ /rev)	Rated pressure (bar)	Maximum self-priming speed (rpm)
MP4AL28	28	320	3,000
MP4AL45	45	320	2,700
MP4AL60	60	250	2,400
MP4AL80	80	320	2,400
MP4AL112	112	320	2,200
MP4AL140	140	320	2,200
MP4AL200	200	320	1,900
MP4AL200H	200	320	2,200

Hydraulic Pump

MP4A Series

Specification

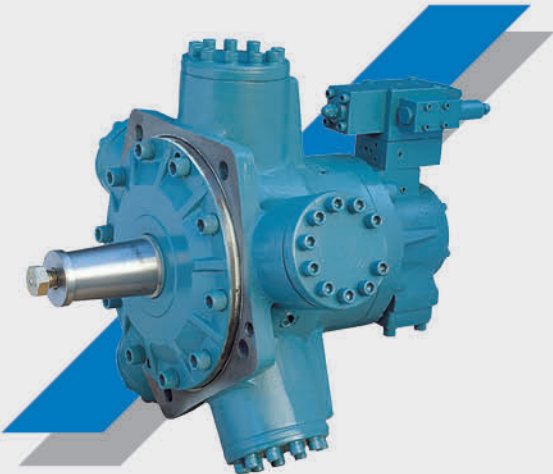
Model			MP4AL28	MP4AL45	MP4AL60	MP4AL80	MP4AL112	MP4AL140	MP4AL200	MP4AL200H	
Capacity		cc/rev	28	45	60	80	112	140	200	200	
Pressure ratings	Rated	bar	320	320	250	320	320	320	320	320	
	Peak	bar	350	350	280	350	350	350	350	350	
Speed ratings	Self prime	rpm	3,000	2,700	2,400	2,400	2,200	2,200	1,900	2,200	
	Max. boosted	rpm	3,600	3,250	3,000	3,000	2,700	2,500	2,200	2,200	
Minimum operating speed		rpm	600	600	600	600	600	600	600	600	
Case drain pressure	Max. continuous	bar	1	1	1	1	1	1	1	1	
	Peak	bar	4	4	4	4	4	4	4	4	
Weight		kg	20	27	25	35	65	65	95	130	
Case fill capacity		L	0.6	0.6	0.6	0.8	1.5	1.5	3.0	3.2	
Temperature range		°C	-20 to 95	-20 to 95	-20 to 95	-20 to 95	-20 to 95	-20 to 95	-20 to 95	-20 to 95	
Viscosity range		cSt	10 to 1,000 - Viscosities greater than 200 will require a no load warm up								
Maximum contamination level			ISO 4406 18/15								
Standard SAE mounting flange and shaft			Mounting	2 bolt SAE B	2 bolt SAE B	2 bolt SAE B	2 bolt SAE C	4 bolt SAE D	4 bolt SAE D	4 bolt SAE E	4 bolt SAE E
			Shaft	SAE B spline or key	SAE B-B spline or key	SAE B-B spline or key	SAE C spline or key	SAE D spline or key	SAE D spline or key	SAE D spline or key	SAE D spline or key
Optional SAE mounting flange and shaft			Mounting	-	-	-	-	2 bolt SAE C	2 bolt SAE C	-	-
			Shaft	-	SAE B spline	SAE B spline	-	SAE C or C-C spline or key	SAE C or C-C spline or key	SAE F spline	SAE F spline
Standard ISO mounting flange and shaft			Mounting	-	2 bolt ISO 100	2 bolt ISO 100	2 bolt ISO 100	4 bolt ISO 180	4 bolt ISO 180	-	-
			Shaft	-	ISO 25mm key	ISO 25mm key	ISO 25mm key	ISO 45mm key	ISO 45mm key	-	-
Through drive torque rating (Nm)			SAE A	61	123	123	123	123	123	123	123
			SAE B	155	290	290	340	340	340	340	340
			SAE B-B	-	290	290	550	550	550	550	550
			SAE C	-	-	-	400	700	700	990	990
			SAE C-C	-	-	-	-	700	700	990	990
			SAE D	-	-	-	-	700	700	990	990
			SAE E	-	-	-	-	-	-	990	990

Vessel Parts

RADIAL PISTON MOTOR FOR VESSEL

MRC / T Series

Motros MRC / T radial piston motor is low speed & high torque motor. It is suitable to wide range of applications such as injection molding machines, marine machineries etc. It is high efficient and low noise hydraulic motor.

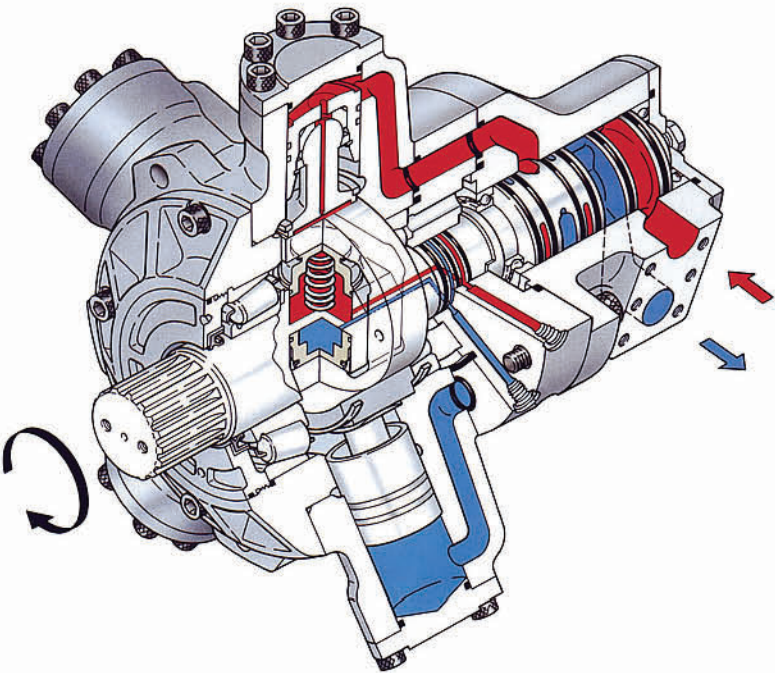


MR6C / MR6T

- High starting torque
- Operating wide range of speed
- Remarkable durability

MR6C / MR6T Series rotation

Supply	Emision	Rotational direction
A Port	B Port	Left counter clock wise
B Port	A Port	Right clock wise



Radial Piston Motor

MR6C Series

Specification

Model	Displacement (cc/rev)	Speed (rpm)		Torque (kgf·m)		Rated output (kw)
		Rated speed	Continuous max speed	Rated	Max	
MR6C-200	201	360	600	47	62	17
MR6C-400	403	230	400	97	115	23
MR6C-500	499	290	500	155	184	46
MR6C-650	654	276	457	201	239	57
MR6C-750	748	260	400	233	277	62
MR6C-1000	1,005	240	360	313	372	77
MR6C-1200	1,206	230	330	369	439	87
MR6C-1350	1,357	215	315	417	496	92
MR6C-1500	1,507	200	300	463	551	95
MR6C-2100	2,099	180	260	645	767	119
MR6C-3200	3,203	140	205	982	1,168	141
MR6C-3500	3,516	135	195	1,076	1,280	149
MR6C-4500	4,516	120	145	1,382	1,643	170
MR6C-5000	5,032	110	130	1,534	1,727	174
MR6C-6600	6,580	90	120	1,979	2,230	183

Radial Piston Motor

MR6T Series

Specification

Model	Displacement (cc/rev)		Speed (rpm)		Torque (kgf·m)	
	100%	50%	100%	50%	100%	50%
MR6T-500	499	250	500	1,000	155	78
MR6T-750	748	374	400	800	233	116
MR6T-1000	1,005	502	360	720	313	156
MR6T-1200	1,206	603	330	660	369	184
MR6T-1350	1,357	678	315	630	417	208
MR6T-1500	1,507	753	300	600	463	231
MR6T-2100	2,099	1,049	260	520	645	322
MR6T-3200	3,203	1,601	205	410	982	491
MR6T-3500	3,516	1,758	195	390	1,076	538

MR6C / MR6T Series

MR6C / MR6T Maintenance

- Rotational direction

Make sure of rotational direction for pipe connection.

- Fluid

Use either ISO VG 36 or 56 fluid

Application Range : 12 cSt ~ 500 cSt

Optimum viscosity : 30 cSt ~ 80 cSt

Max.Temp. (Short Period) : 70°C

Permissible Temp. Range : -25°C ~ 70°C

Optimum operating temp : 30°C ~ 50°C

Continuous Operating : Keep 60°C below

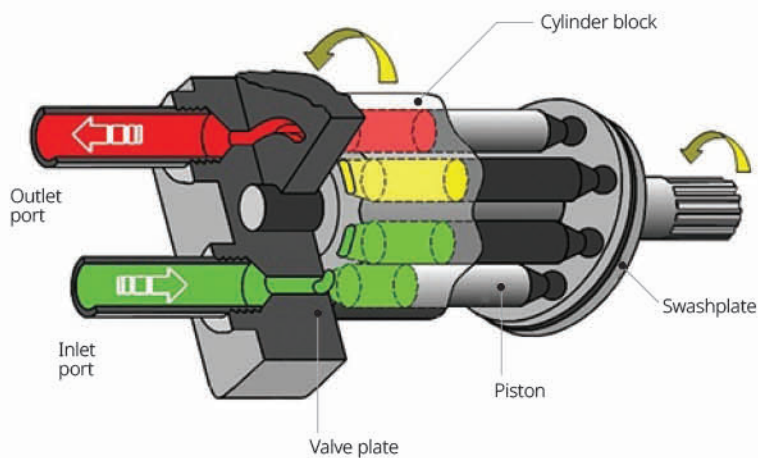
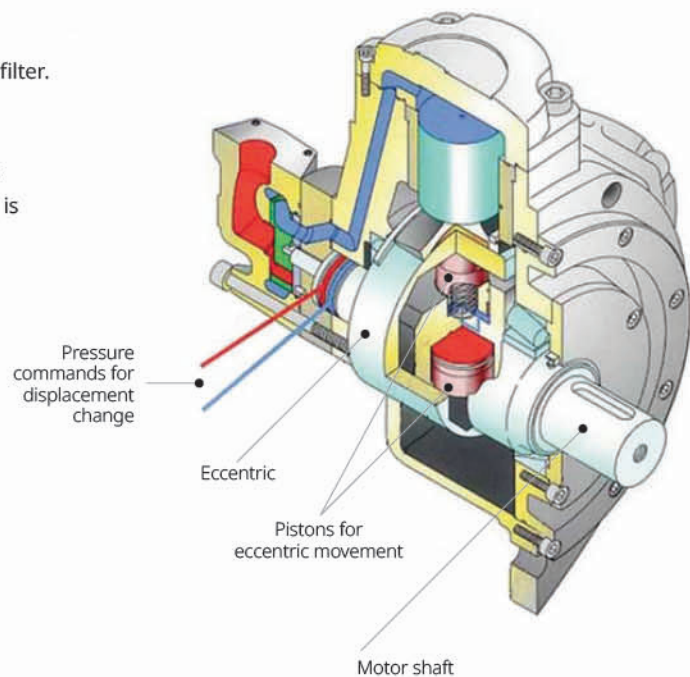
- Return line should be cleanly maintained using lower than 20 filter.

- Cleanness of fluid should be maintained below NAS class 9.

- If the temperature difference between motor case and fluid is more than 40°C, pre-running of motor without load at 30 rpm is recommended.

- Pressure of drain pipe should be maintained below 1 kgf/cm²

- Make sure not to load radial and thrust load to axle.



Vessel Parts

CONTROL VALVE FOR VESSEL

MVA Series

Motros MVA control valve is 3-position and 4-way changing valve. The valve works having functions which are pressure compensation and flow and pressure control valve. You can control the lever from vertical line to 45° (left and right). Flow rate is proportional according to angle of lever from 'B' port to 'A' and 'B' port. Also, pressure compensation valve is installed in the valve for pressure compensation function. Therefore, regular speed control of actuator is possible regardless of the loading. In case you need a counter balance & break valve, you can also order it and detachable.



- MV6A

MV6A	06	6C	P	C	B	BLC	S	120
Vertical type	Port size 06, 08 10, 12	Spool	Pressure compensation valve	Counter balance valve	Brake valve	Brake release valve	Spring return	Bypass flow rate

Control Valve

MV6A Series

Operation of MHA Valves

Operational Power of Lever

Control valve is a type of spool valve. So its operational force is very little. But it has own brake in order to avoid miscontrol. Therefore the lever is on position even if let go your hold of lever.

Change Position of Lever

You can rotate head cover 90 degree. The way to change the position of lever is dismantling lever stopper and rotate 4 bolt on head cover.

Relief Valve

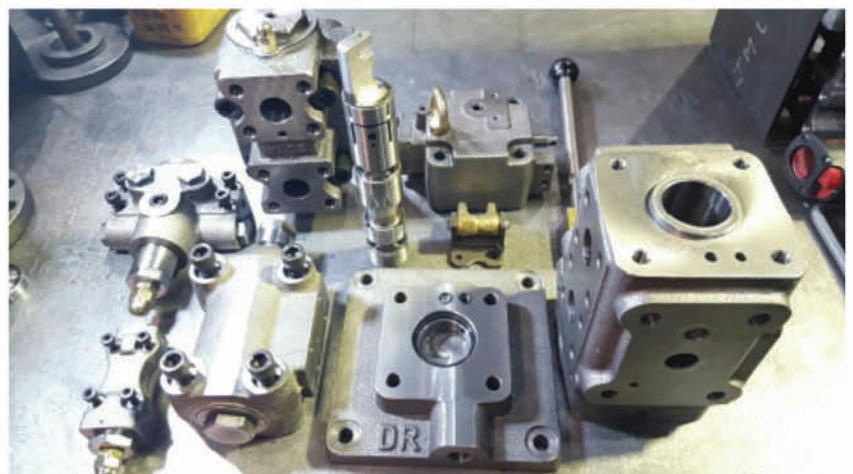
This relief valve is a type of pilot valve working as a pressure compensation valve as well. If you rotate the screw to clock wise, the pressure goes up and counter clock wise goes down.

Drain

If the T-port pressure is higher than 70 kgf/cm², please connect the outer drain pipe. If the pressure is lower than 70 kgf/cm², you can block drain port and use it as inner drain.

Removing Air

If you use inner drain port, the lever can be moved upon the T port pressure. Then you need to get rid of air in the head cover.



Agricultural Machinery Parts

HYDROSTATIC TRANSMISSION(HST) FOR AGRICULTURAL MACHINE

MHA Series

Motros MHA Series is power transfer unit composed of hydraulic pump and motor in single body. Pump displacement is varied with the swash plate degree. It is mainly used for agricultural machines such as tractors, combines, harvester etc.



• MH3A

Model	Max. pressure (kgf/cm ²)	Max. output torque (kgf·m)	Charge pump displacement (cc/rev)	Weight (kg)
MH3A-16-L-01	210~280	6.5	4.9	16
MH3A-16-L-02	210~280	5.5	4.0	16
MH3A-23-L-01	250~320	11.9	6.2	21
MH3A-23-L-02	250~315	11.9	6.0	23
MH3A-37-L-01	250~290	17	7.35	26
MH3A-37-L-02	300~320	19	7.35	26

Model	Pump displacement (cc/rev)	Motor displacement (cc/rev)	Max. input speed (rpm)	Max. output speed (rpm)
MH3A-16-L-01	0~16.4	16.34	3,600	0~3,600
MH3A-16-L-02	0~16.4	16.4	3,200	0~3,200
MH3A-23-L-01	0~23.3	23.3	3,200	0~3,200
MH3A-23-L-02	0~23.7	23.7	3,260	0~3,260
MH3A-37-L-01	0~37	37	3,000	0~3,000
MH3A-37-L-02	0~37	37	3,000	0~3,000

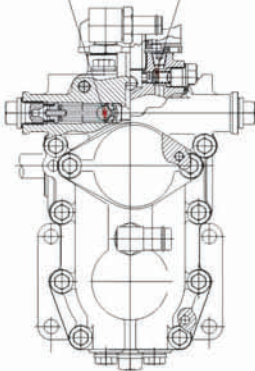
Hydrostatic Transmission

MH3A Series

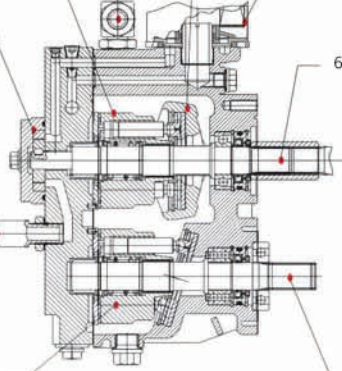
Diagram



7. High pressure relief 8. Low pressure relief



1. Charge pump 2. Pump 3. Oil outlet 4. Swash plate 5. Filter
6. Input shaft 9. Output shaft 10. Motor 11. Oil in let



1	2	3	4	5	6	7	8	9	10	11
Charge pump	Pump	Oil outlet	Swash plate	Filter	Input shaft	High pressure relief	Low pressure relief	Output shaft	Motor	Oil in let

SINGLE PARTS

WHY MOTROS PARTS?

High Performance

All our parts are manufactured in Korea by ourselves. We have very strict standard about the quality. This quality management makes our parts stronger and famous to world hydraulic market

Warranty

Motros guarantees safe delivery of your orders. We exchange all damaged items after claim investigation. Motros covers all charges when the exchange is required

Fast Supply

We try to maintain proper stocks for quick supply. Then this fast response helps your machine to get back to work quickly. With EMS or EMS Premium express, we can ship our parts to all over the world quickly and accurately.



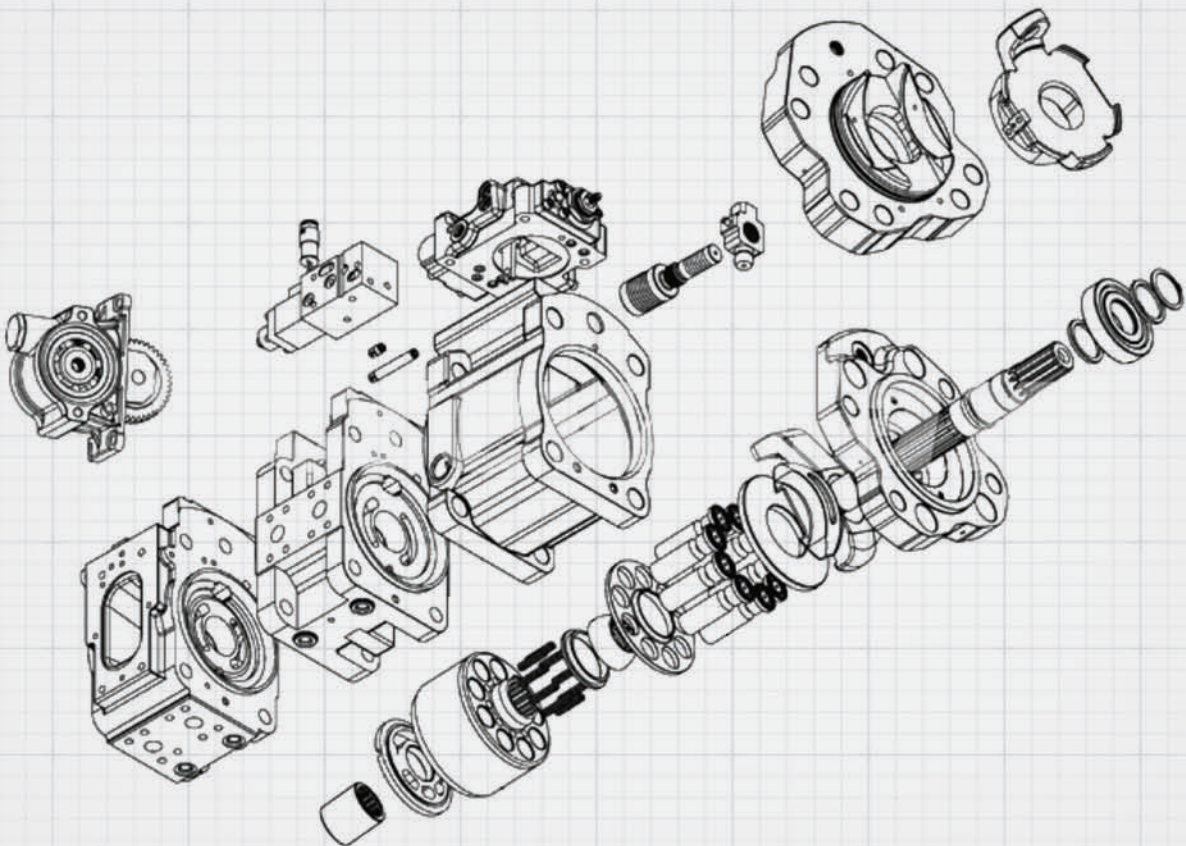
Request for Quotation (RFQ)

**Model
Number**

Quantity

**Machine Model
(if you have)**

From little washers to huge cover, Motros parts will always be with you!
Please make sure above stuffs when you make an inquiry.





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