

HYDRAULIC MOTOR

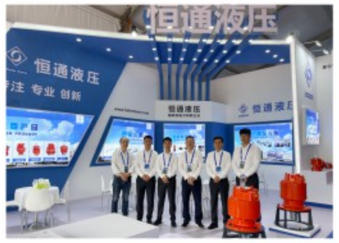
CATALOG

NINGBO HELM TOWER NODA HYDRAULIC CO., LTD.

ADD: NO.1818Zhenluo East Road, Zhenhai, Ningbo, China
Tel: +86-574-86361510
Fax: +86-574-86369630
P.C: 315207
E-mail:info@helmtower.com
Website:www.helmtower-hydraulics.com

NINGBO HELM TOWER NODA HYDRAULIC CO., LTD.

COMPANY PROFILE







Helm Tower Hydraulics, established in 2004, is a high-tech enterprise specialized in radial piston motors and drum cutters. The company is located in Ningbo, China, covers an area of over 20 acres and has the capacity to produce 20,000+ motors annually.

We have a highly skilled technical R&D team, and experienced engineers in the hydraulic industry, which give us the advantage in product development, quality control, and technical service support.

We will continuously improve product quality and service, committed to supporting customers around the world.

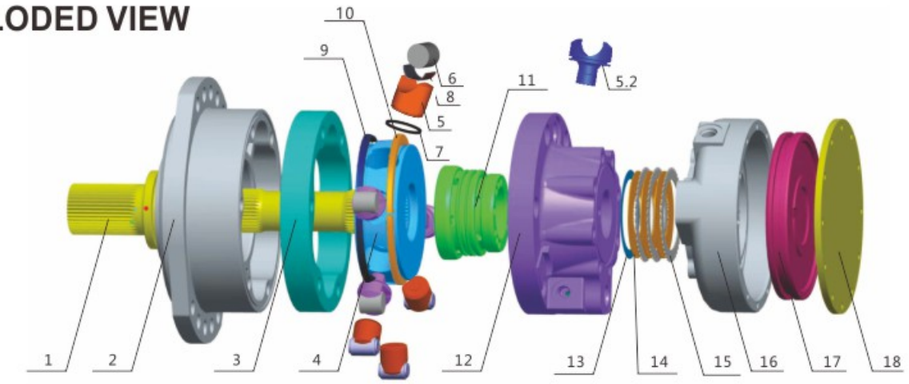
CATALOG

HMCR3 ---- 1
HMCR4 ---- 3
HMCR5 ---- 5
HMCR6 ---- 7
HMCR10 ---- 9
HMS02 ---- 11
HMSE03 ---- 13
HMS05 ---- 15
HMS08 ---- 17
HMS11 ---- 19
HMS18 ---- 21
HMS25 ---- 23
HMS35 ---- 25
HMS50 ---- 27
HMS83 ---- 29
HMS125 ---- 31
HMK04 ---- 33
HMK18 ---- 34
HMK23 ---- 35
HMK35 ---- 36
HMK47 ---- 37
HMG05 ---- 38
HMG21 ---- 39
HMF08 ---- 40
HP13 ---- 41
HP20 ---- 42





EXPLODED VIEW



PART LIST

Item	Description	Quantity
1	Drive Shaft	1
2	Front Cover	1
3	Stator	1
4	Rotor	1
5.1	Plunger Piston(Standard displacement)	8
5.2	Plunger Piston(Large displacement)	8
6	Roller	8
7	Piston Ring	8
8	Bushing	8
9	Baffle Ring	2
10	Clip Ring	2
11	Distributor	1
12	Rear Cover	1
13	Adjusting Shim	2
14	Dynamic Friction	13
15	Static Friction	15
16	Brake Cylinder	1
17	Brake Plunger	1
18	Cover Plate	1

APPLICATIONS



Skid Steer Loader



Fire Fighting Robot

MOTOR CODE

1	2	3	4	5	6	7	8	9	10	11	12	13
HMCR	3											

Mounting Type

3	A	Front case flanged
	D	Front case square mounting flange - SAE 4 off holes
	E	Front case mounting - 4 off M16 tapped holes
	F	Rear case mounting flange
	H	Hydrobase motor
	W	High radial load bearings fitted, rear case mounting flange

Displacement/Technical Data

		Displacement(ml/r)	Rated Torque(N.m)	Max.Torque(N.m)	Rated Speed(rpm)	Speed Range(rpm)	Max.Pressure(Mpa)
4	160	160	635	1018	250	0-670	40
	225	225	892	1431	160	0-475	40
	255	255	1012	1622	160	0-420	40
	280	280	1112	1781	125	0-385	40
	325	325	1290	2067	160	0-330	40
	365	365	1450	2321	125	0-295	40
	400	400	1590	2544	125	0-270	40

Maximum Power: standard displacement (160-280) 18KW, large displacement (325-400) 22KW.

Drive Shaft

5	A45	Spline shaft ANSI B92.1
	L40	Parallel keyed shaft (ø40 mm only for MCR3D)
	F180	With flange ø180 mm
	Z	Without drive shaft

Rear Shaft

6	Z	Without rear shaft

Series

7	32	Series 32
	33	Series 33

Brake

8	A0	Without Brake
	B2	Multidisc Brake-2200Nm

Seals

9	M	NBR (nitrile rubber)
	V	FKM (fluoroelastomer / Viton)

Speed Options

10	1L	Single Speed
	2WL	Two Speed, symmetrical

Ports

11	01	Tapped with BSP thread
	12	Tapped with UNF thread

Studs

12		(No Code)-Without studs
	W	With Wheel Studs
	S	With Wheel Studs and nuts (only for MCR3H)

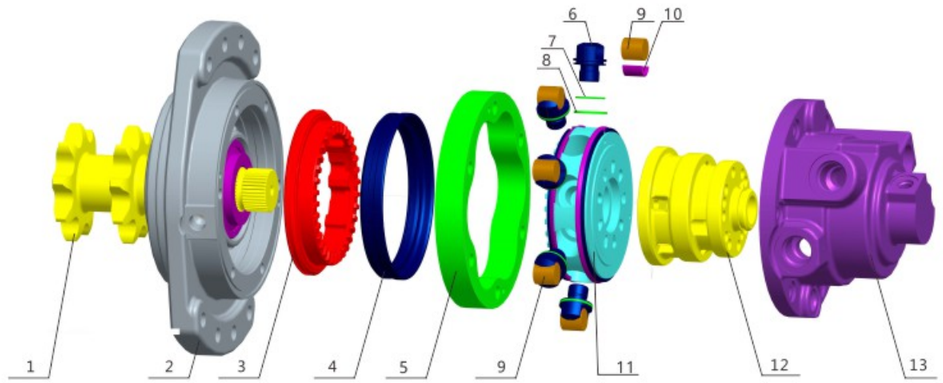
Options

13	**Other Options/Special Features**





EXPLODED VIEW



PART LIST

Item	Description	Quantity
1	Drive Shaft	1
2	Front Cover	1
3	Brake Plunger	1
4	Brake Plunger Plate	1
5	Stator	1
6	Plunger Piston	9
7	O-ring(∅24*1.5)	9
8	Piston Ring	9
9	Roller	9
10	Oilless Bearing	9
11	Rotor	1
12	Distributor	1
13	Rear Cover	1

APPLICATIONS



Skid Steer Loader

MOTOR CODE

1	2	3	4	5	6	7	8	9	10	11	12	13
HMCR	4											

Mounting Type

3	K	Front case mounting flange
	S	Front case mounting flange

Displacement/Technical Data

		Displacement(ml/r)	Rated Torque(N.m)	Max.Torque(N.m)	Rated Speed(rpm)	Speed Range(rpm)	Max.Pressure(Mpa)
4	470	470	1868	2989	148	0-420	29

Maximum Power: 29KW

Drive Shaft

5	F180	With flange ø180 mm
	S106	Sprocket shaft (9 teeth)
	S130	Sprocket shaft (11 teeth)

Rear Shaft

6	Z	Without rear shaft

Series

7	33	Series 33

Brake

8	A0	Without Brake
	F2	Form Brake-2200Nm

Seals

9	M	NBR (nitrile rubber)

Speed Options

10	1L	Single Speed
	2WL	Two Speed, symmetrical

Ports

11	12	Tapped with UNF thread

Studs

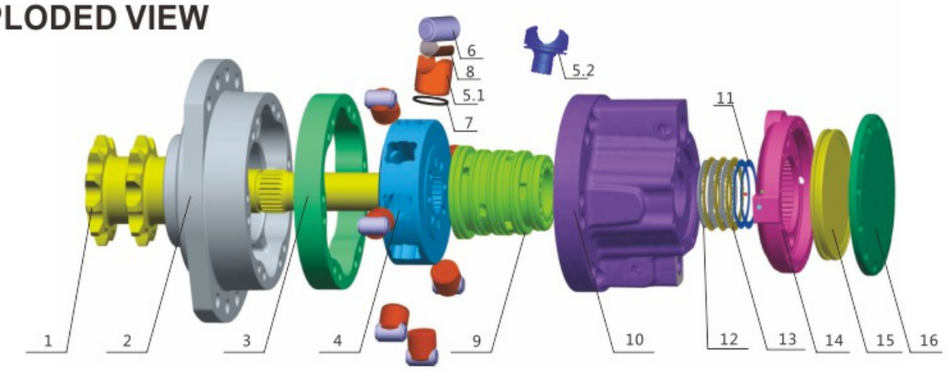
12		(No Code)-Without studs

Options

13	**Other Options/Special Features**



EXPLODED VIEW



PART LIST

Item	Description	Quantity
1	Drive Shaft	1
2	Front Cover	1
3	Stator	1
4	Rotor	1
5.1	Plunger Piston(Standard displacement)	8
5.2	Plunger Piston(Large displacement)	8
6	Roller	8
7	Piston Ring	8
8	Bushing	8
9	Distributor	1
10	Rear Cover	1
11	Adjusting Shim	2
12	Dynamic Friction	13
13	Static Friction	15
14	Brake Cylinder	1
15	Brake Plunger	1
16	Cover Plate	1

APPLICATIONS



Skid Steer Loader



Road Header

MOTOR CODE

1	2	3	4	5	6	7	8	9	10	11	12	13
HMCR	5											

Mounting Type

3	A	Front case flanged
	D	Front case square mounting flange - SAE 4 off holes
	E	Front case mounting - 4 off M16 tapped holes
	F	Rear case mounting flange
	H	Hydrobase motor
	T	Front case flanged
	W	High radial load bearings fitted, rear case mounting flange

Displacement/Technical Data

		Displacement(ml/r)	Rated Torque(N.m)	Max.Torque(N.m)	Rated Speed(rpm)	Speed Range(rpm)	Max.Pressure(Mpa)
4	380	380	1510	2417	160	0-475	40
	470	470	1867.5	2989	125	0-385	40
	520	520	2065	3307	125	0-350	40
	565	565	2225	3593	125	0-320	40
	620	620	2462.5	3943	125	0-290	40
	680	680	2770	4325	100	0-265	40
	750	750	2980	4770	100	0-240	40
	820	820	3225	5215	100	0-220	40

Maximum Power: standard displacement (380-565) 29KW, large displacement (620-820) 35KW.

Drive Shaft

5	A60	Spline shaft ANSI B92.1
	L50	Parallel keyed shaft (ø50 mm available for MCR5D and MCR5E)
	F180	With flange ø180 mm
	F250	With flange ø250 mm
	F284	With flange ø284 mm (only available with MCR5T)
	Z	Without drive shaft

Rear Shaft

6	Z	Without rear shaft

Series

7	32	Series 32
	33	Series 33

Brake

8	A0	Without Brake
	B2	Multidisc Brake-2200Nm
	B4	Multidisc Brake-4400Nm

Seals

9	M	NBR (nitrile rubber)
	V	FKM (fluoroelastomer / Viton)

Speed Options

10	1L	Single Speed
	2WL	Two Speed, symmetrical
	2L	Two Speed, counter-clockwise
	2R	Two Speed, clockwise

Ports

11	01	Tapped with BSP thread
	12	Tapped with UNF thread

Studs

12		(No Code)-Without studs
	W	With Wheel Studs
	S	With Wheel Studs and nuts (only for MCR5H)

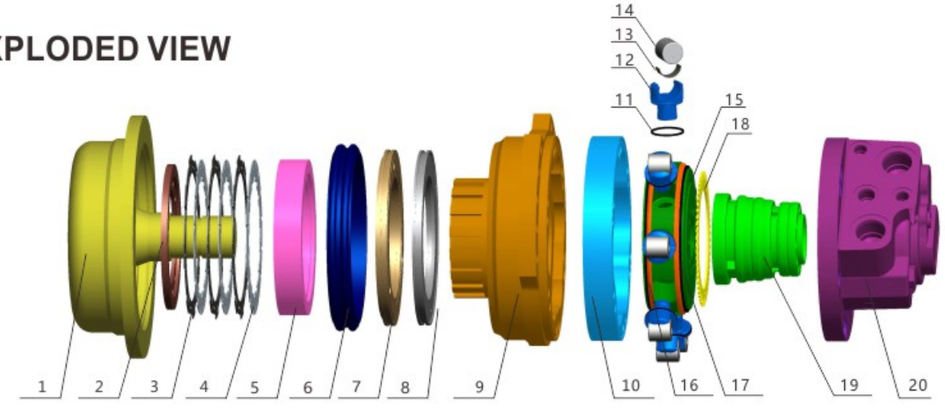
Options

13	**Other Options/Special Features**





EXPLODED VIEW



PART LIST

Item	Description	Quantity
1	Drive Shaft	1
2	Friction Disc Plate	1
3	Dynamic Friction Disc	10
4	Static Friction Disc	11
5	Brake Plate	1
6	Floating Oil Seal	1
7	Brake Plunger Plate	1
8	Brake Plunger	1
9	Front Cover	1
10	Stator	1
11	Piston Ring	9
12	Plunger Piston	9
13	Oilless Bearing	9
14	Roller	9
15	Rotor	1
16	Baffle Ring	2
17	Clip Ring	2
18	Log Ship	1
19	Distributor	1
20	Rear Cover	1

APPLICATIONS



Skid Steer Loader



Compact Track Loader

MOTOR CODE

1	2	3	4	5	6	7	8	9	10	11	12	13
HMCR	6											

Mounting Type

3	F	Rear case mounting flange
	T	Front case flanged
	W	High radial load bearings fitted, rear case mounting flange

Displacement/Technical Data

		Displacement(ml/r)	Rated Torque(N.m)	Max.Torque(N.m)	Rated Speed(rpm)	Speed Range(rpm)	Max.Pressure(Mpa)
4	820	820	3259	5215	102	0-220	40
	920	920	3657	5851	91	0-195	40

Maximum Power: 35KW

Drive Shaft

5	F180	With flange ø180 mm
	F250	With flange ø250 mm
	F284	With flange ø284 mm (only available with MCR6T)

Rear Shaft

6	Z	Without rear shaft

Series

7	32	Series 32
	33	Series 33

Brake

8	A0	Without Brake
	B2	Multidisc Brake-2200Nm
	B4	Multidisc Brake-4400Nm

Seals

9	M	NBR (nitrile rubber)
	V	FKM (fluoroelastomer / Viton)

Speed Options

10	1L	Single Speed
	2WL	Two Speed, symmetrical

Ports

11	01	Tapped with BSP thread
	12	Tapped with UNF thread

Studs

12		(No Code)-Without studs
	W	With Wheel Studs

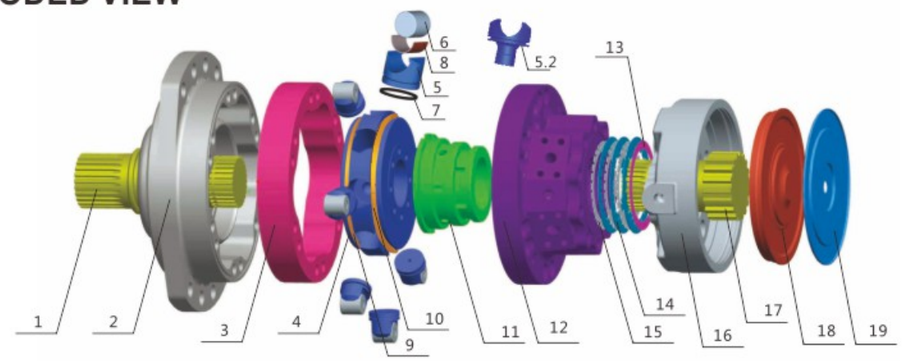
Options

13	**Other Options/Special Features**





EXPLODED VIEW



PART LIST

Item	Description	Quantity
1	Drive Shaft	1
2	Front Cover	1
3	Stator	1
4	Rotor	1
5	Plunger Piston	10
6	Roller	10
7	Piston Ring	10
8	Bushing	10
9	Baffle Ring	2
10	Clip Ring	2
11	Distributor	1
12	Rear Cover	1
13	Adjusting Shim	1
14	Dynamic Friction	14
15	Static Friction	15
16	Brake Cylinder	1
17	Brake Shaft	1
18	Brake Plunger	1
19	Cover Plate	1

APPLICATIONS


Combine


Paper

MOTOR CODE

1	2	3	4	5	6	7	8	9	10	11	12	13
HMCR	10											

Mounting Type

3	A	Front case flanged
	D	Front case square mounting flange - SAE 4 off holes
	E	Front case mounting - 4 off M16 tapped holes
	F	Rear case mounting flange
	H	Hydrobase motor
	R	Rotating case hydrobase
	T	Front case flanged
	W	High radial load bearings fitted, rear case mounting flange

Displacement/Technical Data

		Displacement(ml/r)	Rated Torque(N.m)	Max.Torque(N.m)	Rated Speed(rpm)	Speed Range(rpm)	Max.Pressure(Mpa)
4	780	780	3100	4961	125	0-215	40
	860	860	3417.5	5470	100	0-195	40
	940	940	3735	5978	100	0-180	40
	1120	1120	4450	7123	100	0-150	40
	1250	1250	4967.5	7950	80	0-135	40
	1340	1340	5325	8522	80	0-125	40

Maximum Power: standard displacement (780-940) 44KW, large displacement (1120-1340) 50KW.

Drive Shaft

5	A75	Spline shaft ANSI B92.1
	L60	Parallel keyed shaft (ø60 mm only for MCR10D)
	F250	With flange ø250 mm
	F280	With flange ø280 mm
	F315	With flange ø284 mm ((only available with MCR10T)
	Z	Without drive shaft

Rear Shaft

6	Z	Without rear shaft

Series

7	32	Series 32
	33	Series 33
	41	Series 41

Brake

8	A0	Without Brake
	B5	Multidisc Brake-4400Nm
	B7	Multidisc Brake-7000Nm

Seals

9	M	NBR (nitrile rubber)
	V	FKM (fluoroelastomer / Viton)

Speed Options

10	1L	Single Speed
	2WL	Two Speed, symmetrical

Ports

11	11	Tapped with BSP thread
	42	Tapped with UNF thread

Studs

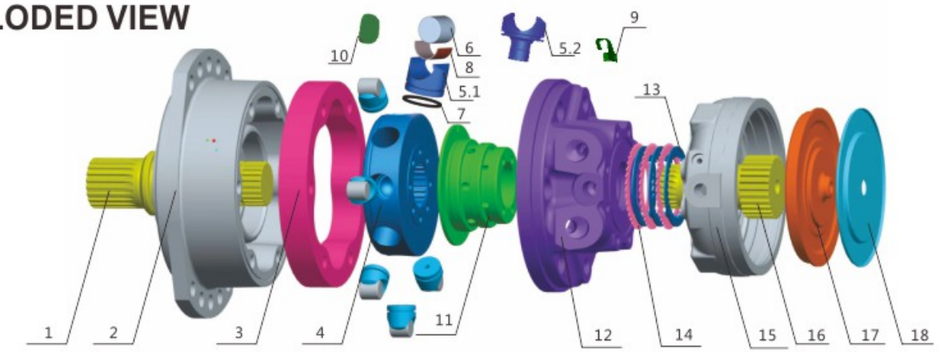
12		(No Code)-Without studs
	W	With Wheel Studs
	S	With Wheel Studs and nuts (only for MCR10H)

Options

13	**Other Options/Special Features**



EXPLODED VIEW



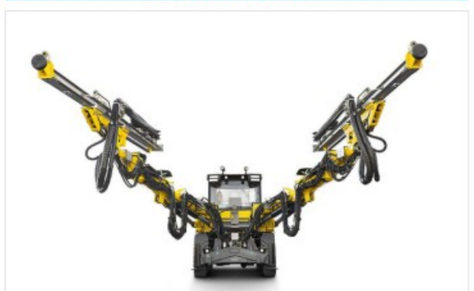
PART LIST

Item	Description	Quantity
1	Drive Shaft	1
2	Front Cover	1
3	Stator	1
4	Rotor	1
5.1	Plunger Piston(Standard displacement)	8
5.2	Plunger Piston(Large displacement)	8
6	Roller	8
7	Piston Ring	8
8	Bushing	8
9	Spring Pin	8
10	Plastic Block	16
11	Distributor	1
12	Rear Cover	1
13	Dynamic Friction	10
14	Static Friction	10
15	Brake Cylinder	1
16	Brake Shaft	1
17	Brake Plunger	1
18	Cover Plate	1

APPLICATIONS



Road Sweeper



Rock Drilling Trolley

MOTOR CODE

1	2	3		4		5	6	7		8		9		10
HMS		02	–		–				–		–		–	

Housing Type

2		Normal Displacement
	E	Large Displacement

Displacement/Technical Data

			Displacement(ml/r)	Rated Torque(N.m)	Max.Torque(N.m)	Rated Speed(rpm)	Speed Range(rpm)	Max.Pressure(Mpa)
4	(HMS)	8	172	683	1094	200	0-390	40
		0	213	848	1355	200	0-310	40
		1	235	935	1495	160	0-280	40
		2	255	1013	1622	160	0-260	40
	(HMSE)	0	332	1320	2112	160	0-200	40
		1	364	1448	2315	125	0-182	40
		2	398	1583	2531	100	0-165	40

Maximum Power: first displacement 18KW, second displacement preferred 12KW, non-preferred 9KW (Normal displacement)
first displacement 22KW, second displacement preferred 16.5KW, non-preferred 11KW (Large displacemen)

Speed Options

5	1	Single Speed
	D	Two Speed, Clockwise, Ratio=2
	E	Two Speed, Clockwise, Ratio<2
	F	Two Speed, Clockwise, Ratio>2
	G	Two Speed, Counter-clockwise, Ratio=2
	H	Two Speed, Counter-clockwise, Ratio<2
	J	Two Speed, Counter-clockwise, Ratio>2

Mounting Type

6	1	Shaft Motor
	2	Wheel Motor

Ports

7	A	1 1/16-12SAE
	1	BSPT G1/2
	4	M22x1.5

Brake

8	R02	Without Brake (reinforced plate)
	T03	Multidisc Brake-2500Nm

Output Type

9	2A10	NFE2214 Splines
	2A40	Cylindrical Key
	2A50	DIN 5480 Splines
	1120	5xØ18,Ø140
	0000	Hydrobase

* More options available, please see details in selection guide, or contact us directly.

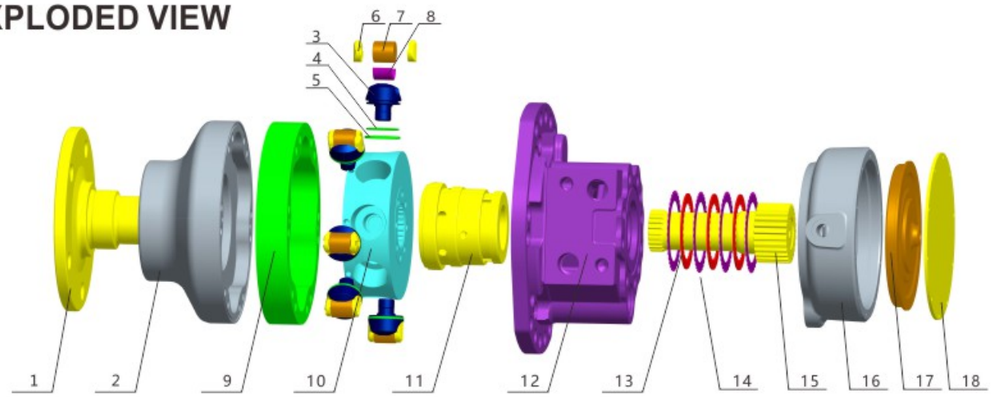
Options

10	Other Options/Special Features





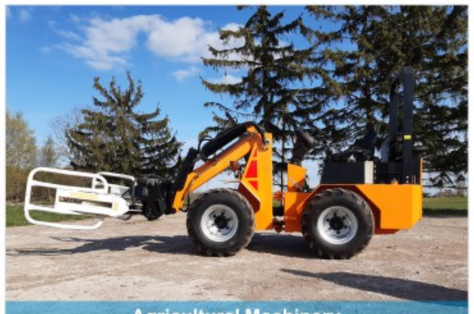
EXPLODED VIEW



PART LIST

Item	Description	Quantity
1	Drive Shaft	1
2	Front Cover	1
3	Plunger Piston	8
4	O-ring(∅31*1.5)	8
5	Piston Ring	8
6	Plastic Block	16
7	Roller	8
8	Oilless Bearing	8
9	Stator	1
10	Rotor	1
11	Distributor	1
12	Rear Cover	1
13	Static Friction	12
14	Dynamic Friction	11
15	Brake Shaft	1
16	Brake Cylinder	1
17	Brake Plunger	1
18	Cover Plate	1

APPLICATIONS



Agricultural Machinery



Plot Harvester

MOTOR CODE

1	2	3		4		5	6	7		8		9		10
HMS		03	–		–				–		–		–	

Housing Type

2	E	Large Displacement

Displacement/Technical Data

		Displacement(ml/r)	Rated Torque(N.m)	Max.Torque(N.m)	Rated Speed(rpm)	Speed Range(rpm)	Max.Pressure(Mpa)
4	1	450	1788	2862	117	0-155	40
	2	500	1987	3180	105	0-140	40

Maximum Power: first displacement 22KW, second displacement preferred 16.5KW, non-preferred 11KW

Speed Options

5	1	Single Speed
	D	Two Speed, Clockwise, Ratio=2
	E	Two Speed, Clockwise, Ratio<2
	F	Two Speed, Clockwise, Ratio>2
	G	Two Speed, Counter-clockwise, Ratio=2
	H	Two Speed, Counter-clockwise, Ratio<2
	J	Two Speed, Counter-clockwise, Ratio>2

Mounting Type

6	2	Wheel Motor

Ports

7	1	ISO 11926-1

Brake

8	R03	Without Brake (reinforced plate)
	T03	Multidisc Brake-2500Nm

Output Type

9	1110	5×Φ18,Φ140
	0000	Hydrobase

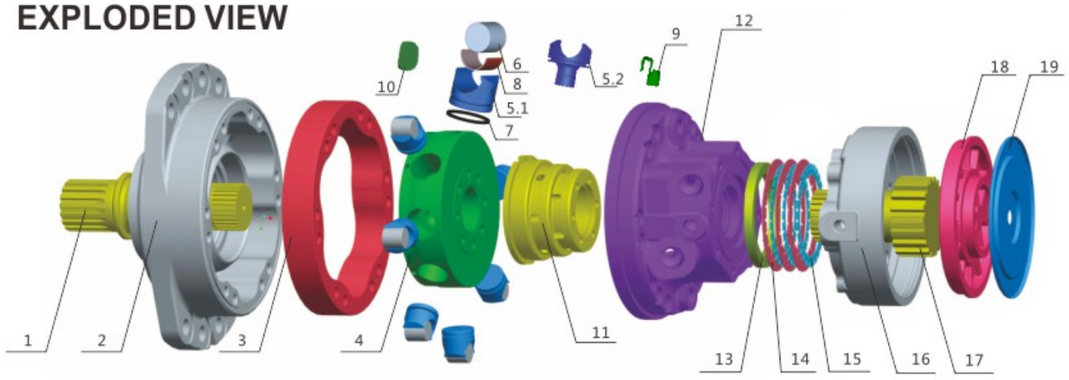
* More options available, please see details in selection guide, or contact us directly.

Options

10	Other Options/Special Features



EXPLODED VIEW



PART LIST

Item	Description	Quantity
1	Drive Shaft	1
2	Front Cover	1
3	Stator	1
4	Rotor	1
5.1	Plunger Piston(Standard displacement)	8
5.2	Plunger Piston(Large displacement)	8
6	Roller	8
7	Piston Ring	8
8	Bushing	8
9	Spring Pin	8
10	Plastic Block	16
11	Distributor	1
12	Rear Cover	1
13	Adjusting Shim	1
14	Dynamic Friction	14
15	Static Friction	15
16	Brake Cylinder	1
17	Brake Shaft	1
18	Brake Plunger	1
19	Cover Plate	1

APPLICATIONS


Cotton Picker


Monorail Crane

MOTOR CODE

1	2	3		4		5	6	7		8		9		10
HMS		05	–		–				–		–		–	

Housing Type

2		Normal Displacement
	E	Large Displacement

Displacement/Technical Data

			Displacement(ml/r)	Rated Torque(N.m)	Max.Torque(N.m)	Rated Speed(rpm)	Speed Range(rpm)	Max.Pressure(Mpa)
4	(HMS)	6	260	1033	1654	160	0-265	40
		8	376	1495	2391	160	0-250	40
		0	468	1860	2976	125	0-240	40
		1	514	2043	3269	125	0-220	40
		2	560	2225	3562	125	0-200	40
	(HMSE)	8	503	2000	3199	100	0-200	40
		0	625	2485	3975	100	0-190	40
		1	688	2735	4376	100	0-175	40
		2	750	2983	4770	80	0-160	40
		3	820	3260	5215	80	0-140	40

Maximum Power: first displacement 29KW, second displacement preferred 19KW, non-preferred 15KW

Speed Options

5	1	Single Speed
	A	Two Speed, Symmetrical, Ratio=2
	B	Two Speed, Symmetrical, Ratio<2
	C	Two Speed, Symmetrical, Ratio>2
	D	Two Speed, Clockwise, Ratio=2
	E	Two Speed, Clockwise, Ratio<2
	F	Two Speed, Clockwise, Ratio>2
	G	Two Speed, Counter-clockwise, Ratio=2
	H	Two Speed, Counter-clockwise, Ratio<2
	J	Two Speed, Counter-clockwise, Ratio>2

Mounting Type

6	1	Shaft Motor
	2	Wheel Motor
	3	Horseshoe

Ports

7	A	1 1/16 -12SAE
	3	BSPT G3/4
	4	M27×2

Brake

8	A05	Without Brake (standard plate)
	M05	Without Brake (closed cover)
	R05	Without Brake (reinforced plate)
	T04	Multidisc Brake-4220Nm

Output Type

9	2A10	NFE2214 Splines
	2A40	Cylindrical Key
	2A50	DIN 5480 Splines
	1120	10×Φ18,Φ140 / 16×Φ20,Φ205
	0000	Hydrobase

* More options available, please see details in selection guide, or contact us directly.

Options

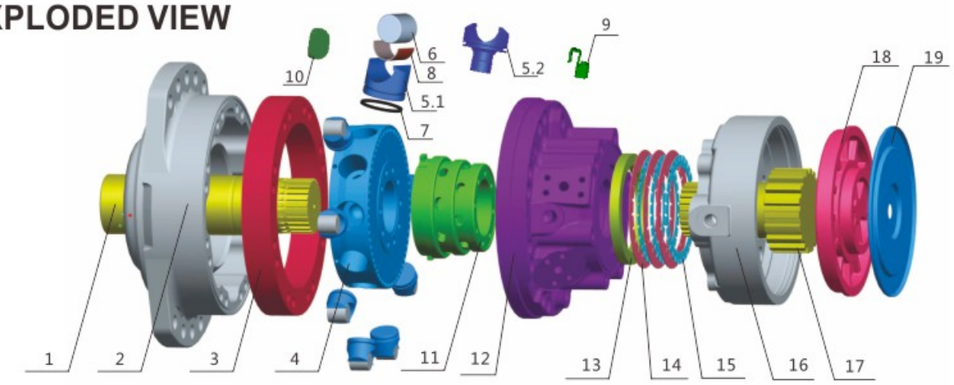
10	Other Options/Special Features







EXPLODED VIEW



PART LIST

Item	Description	Quantity
1	Drive Shaft	1
2	Front Cover	1
3	Stator	1
4	Rotor	1
5.1	Plunger Piston(Standard displacement)	10
5.2	Plunger Piston(Large displacement)	10
6	Roller	10
7	Piston Ring	10
8	Bushing	10
9	Spring Pin	10
10	Plastic Block	20
11	Distributor	1
12	Rear Cover	1
13	Adjusting Shim	1
14	Dynamic Friction	14
15	Static Friction	15
16	Brake Cylinder	1
17	Brake Shaft	1
18	Brake Plunger	1
19	Cover Plate	1

APPLICATIONS



Scraper Conveyor



Grain Harvester

MOTOR CODE

1	2	3		4		5	6	7		8		9		10
HMS		08	–		–				–		–		–	

Housing Type

2		Normal Displacement
	E	Large Displacement

Displacement/Technical Data

			Displacement(ml/r)	Rated Torque(N.m)	Max.Torque(N.m)	Rated Speed(rpm)	Speed Range(rpm)	Max.Pressure(Mpa)
4	(HMS)	6	467	1858	2970	160	0-210	40
		8	627	2493	3988	160	0-210	40
		9	702	2790	4465	125	0-185	40
		0	780	3100	4961	125	0-170	40
		1	857	3408	5451	100	0-155	40
		2	934	3713	5940	100	0-140	40
	(HMSE)	0	1043	4145	6633	80	0-130	40
		1	1146	4555	7289	80	0-110	40
		2	1248	4960	7937	80	0-105	40

Maximum Power: first displacement 41KW, second displacement preferred 27KW, non-preferred 21KW

Speed Options

5	1	Single Speed
	A	Two Speed, Symmetrical, Ratio=2
	B	Two Speed, Symmetrical, Ratio<2
	C	Two Speed, Symmetrical, Ratio>2
	D	Two Speed, Clockwise, Ratio=2
	E	Two Speed, Clockwise, Ratio<2
	F	Two Speed, Clockwise, Ratio>2
	G	Two Speed, Counter-clockwise, Ratio=2
	H	Two Speed, Counter-clockwise, Ratio<2
	J	Two Speed, Counter-clockwise, Ratio>2

Mounting Type

6	1	Shaft Motor
	2	Wheel Motor

Ports

7	A	1 1/16 -12SAE
	1	ISO6162
	5	M27×2

Brake

8	M08	One-piece valving cover single displacement
	R08	Without Brake (reinforced plate)
	T09	Multidisc Brake-9000Nm

Output Type

9	2A10	NFE2214 Splines
	2A40	Cylindrical Key
	2A50	DIN 5480 Splines
	1120	6×Φ20,Φ205 / 8×Φ22,Φ203.5
	0000	Hydrobase

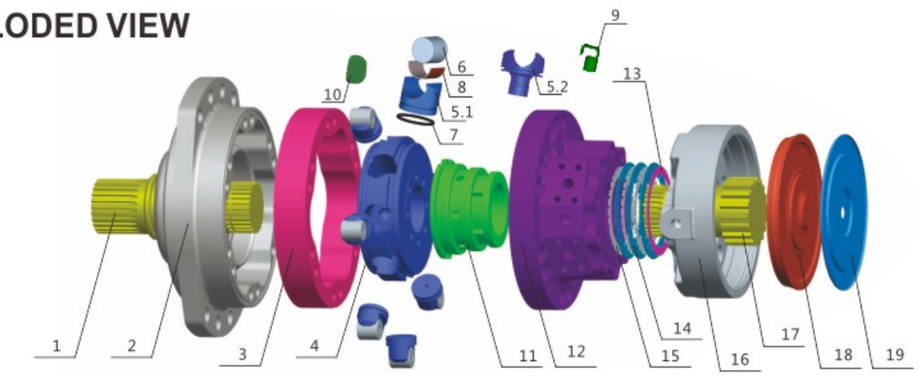
* More options available, please see details in selection guide, or contact us directly.

Options

10	Other Options/Special Features



EXPLODED VIEW



PART LIST

Item	Description	Quantity
1	Drive Shaft	1
2	Front Cover	1
3	Stator	1
4	Rotor	1
5.1	Plunger Piston(Standard displacement)	8
5.2	Plunger Piston(Large displacement)	8
6	Roller	8
7	Piston Ring	8
8	Bushing	8
9	Spring Pin	8
10	Plastic Block	16
11	Distributor	1
12	Rear Cover	1
13	Adjusting Shim	1
14	Dynamic Friction	19
15	Static Friction	19
16	Brake Cylinder	1
17	Brake Shaft	1
18	Brake Plunger	1
19	Cover Plate	1

APPLICATIONS


Sprayer


Forest Machinery

MOTOR CODE

1	2	3		4		5	6	7		8		9		10
HMS		11	–		–				–		–		–	

Housing Type

2		Normal Displacement
	E	Large Displacement

Displacement/Technical Data

			Displacement(ml/r)	Rated Torque(N.m)	Max.Torque(N.m)	Rated Speed(rpm)	Speed Range(rpm)	Max.Pressure(Mpa)
4	(HMS)	7	730	2903	4643	125	0-200	40
		8	837	3328	5323	125	0-195	40
		9	943	3748	5997	125	0-190	40
		0	1048	4165	6665	100	0-185	40
		1	1147	4560	7295	100	0-180	40
		2	1259	5005	8007	80	0-170	40
	(HMSE)	9	1263	5020	8033	80	0-170	40
		0	1404	5580	8929	80	0-155	40
		1	1536	6105	9769	63	0-140	40
		2	1687	6705	10729	63	0-130	40

Maximum Power: first displacement 50KW, second displacement preferred 33KW, non-preferred 25KW

Speed Options

5	1	Single Speed
	D	Two Speed, Clockwise, Ratio=2
	E	Two Speed, Clockwise, Ratio<2
	F	Two Speed, Clockwise, Ratio>2
	G	Two Speed, Counter-clockwise, Ratio=2
	H	Two Speed, Counter-clockwise, Ratio<2
	J	Two Speed, Counter-clockwise, Ratio>2

Mounting Type

6	1	Shaft Motor
	2	Wheel Motor

Ports

7	A	1 1/16 -12SAE
	1	ISO6162
	5	M27×2

Brake

8	A11	Without Brake (standard plate)
	R11	Without Brake (reinforced plate)
	T12	Multidisc Brake-11840Nm

Output Type

9	2A10	NFE2214 Splines
	2A40	Cylindrical Key
	2A50	DIN 5480 Splines
	1120	5×Φ24,Φ255 / 10×Φ22,Φ255
	0000	Hydrobase

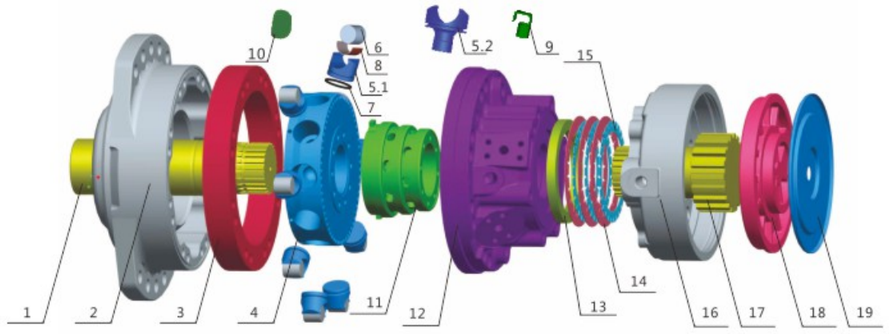
* More options available, please see details in selection guide, or contact us directly.

Options

10	Other Options/Special Features



EXPLODED VIEW



PART LIST

Item	Description	Quantity
1	Drive Shaft	1
2	Front Cover	1
3	Stator	1
4	Rotor	1
5.1	Plunger Piston(Standard displacement)	10
5.2	Plunger Piston(Large displacement)	10
6	Roller	10
7	Piston Ring	10
8	Bushing	10
9	Spring Pin	10
10	Plastic Block	20
11	Distributor	1
12	Rear Cover	1
13	Adjusting Shim	1
14	Dynamic Friction	19
15	Static Friction	19
16	Brake Cylinder	1
17	Brake Shaft	1
18	Brake Plunger	1
19	Cover Plate	1

APPLICATIONS


Sprayer


Intelligent Straddle Carriers

MOTOR CODE

1	2	3		4		5	6	7		8		9		10
HMS		18	–		–				–		–		–	

Housing Type

2		Normal Displacement
	E	Large Displacement

Displacement/Technical Data

			Displacement(ml/r)	Rated Torque(N.m)	Max.Torque(N.m)	Rated Speed(rpm)	Speed Range(rpm)	Max.Pressure(Mpa)
4	(HMS)	6	1091	4338	6939	100	0-170	40
		8	1395	5545	8872	100	0-155	40
		9	1571	6245	9992	100	0-140	40
		0	1747	6945	11111	80	0-125	40
		1	1911	7595	12154	80	0-115	40
		2	2099	8343	13350	80	0-100	40
	(HMSE)	0	2340	9303	14882	63	0-90	40
		1	2560	10175	16282	63	0-85	40
		2	2812	11178	17884	50	0-75	40

Maximum Power: first displacement 70KW, second displacement preferred 47KW, non-preferred 35KW

Speed Options

5	1	Single Speed
	A	Two Speed, Symmetrical, Ratio=2
	B	Two Speed, Symmetrical, Ratio<2
	C	Two Speed, Symmetrical, Ratio>2
	D	Two Speed, Clockwise, Ratio=2
	E	Two Speed, Clockwise, Ratio<2
	F	Two Speed, Clockwise, Ratio>2
	G	Two Speed, Counter-clockwise, Ratio=2
	H	Two Speed, Counter-clockwise, Ratio<2
	J	Two Speed, Counter-clockwise, Ratio>2

Mounting Type

6	1	Shaft Motor
	2	Wheel Motor

Ports

7	A	1 1/16 -12SAE
	1	ISO6162
	4	M27×2

Brake

8	A18	Without Brake (standard plate)
	R18	Without Brake (reinforced plate)
	T12	Multidisc Brake-11840Nm
	T20	Multidisc Brake-19000Nm

Output Type

9	2A10	NFE2214 Splines
	2A40	Cylindrical Key
	2A50	DIN 5480 Splines
	1120	8×Φ22,Φ275 / 10×Φ24,Φ225
	0000	Hydrobase

* More options available, please see details in selection guide, or contact us directly.

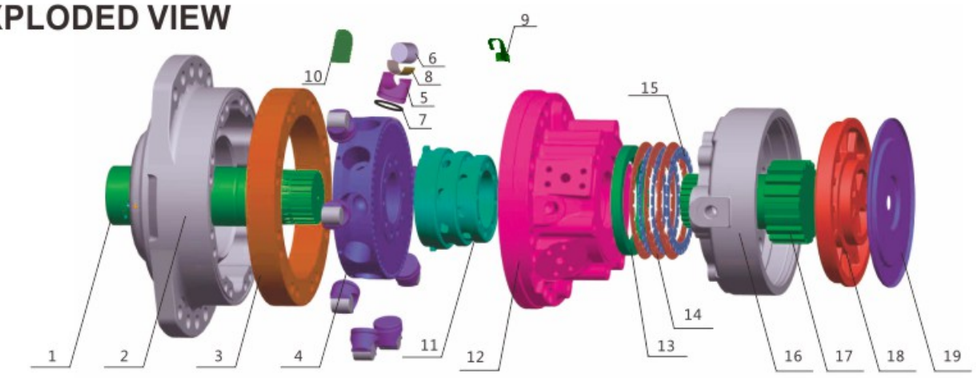
Options

10	Other Options/Special Features





EXPLODED VIEW



PART LIST

Item	Description	Quantity
1	Drive Shaft	1
2	Front Cover	1
3	Stator	1
4	Rotor	1
5	Plunger Piston	8
6	Roller	8
7	Piston Ring	8
8	Bushing	8
9	Spring Pin	8
10	Plastic Block	16
11	Distributor	1
12	Rear Cover	1
13	Adjusting Shim	1
14	Dynamic Friction	18
15	Static Friction	20
16	Brake Cylinder	1
17	Brake Shaft	1
18	Brake Plunger	1
19	Cover Plate	1

APPLICATIONS


Mud Master


Self-Propelled Modular Transporter

MOTOR CODE

1	2	3		4		5	6	7		8		9		10
HMS		25	–		–				–		–		–	

Housing Type

2		Normal Displacement

Displacement/Technical Data

		Displacement(ml/r)	Rated Torque(N.m)	Max.Torque(N.m)	Rated Speed(rpm)	Speed Range(rpm)	Max.Pressure(Mpa)
4	8	2004	7965	12745	100	0-145	40
	0	2498	9930	15887	80	0-137	40
	1	2752	10940	17503	63	0-125	40
	2	3006	11950	19118	63	0-115	40

Maximum Power: first displacement 90KW, second displacement preferred 60KW, non-preferred 45KW

Speed Options

5	1	Single Speed
	A	Two Speed, Symmetrical, Ratio=2
	B	Two Speed, Symmetrical, Ratio<2
	C	Two Speed, Symmetrical, Ratio>2
	D	Two Speed, Clockwise, Ratio=2
	E	Two Speed, Clockwise, Ratio<2
	F	Two Speed, Clockwise, Ratio>2
	G	Two Speed, Counter-clockwise, Ratio=2
	H	Two Speed, Counter-clockwise, Ratio<2
	J	Two Speed, Counter-clockwise, Ratio>2

Mounting Type

6	1	Shaft Motor
	2	Wheel Motor

Ports

7	A	1 1/16 -12SAE
	1	ISO6162

Brake

8	A25	Without Brake (standard plate)
	R25	Without Brake (reinforced plate)
	T42	Multidisc Brake-25000Nm
	T50	Multidisc Brake-30000Nm

Output Type

9	2A10	NFE2214 Splines
	2A40	Cylindrical Key
	2A50	DIN 5480 Splines
	1120	10×Φ22,Φ275 / 10×Φ24,Φ335
	0000	Hydrobase

* More options available, please see details in selection guide, or contact us directly.

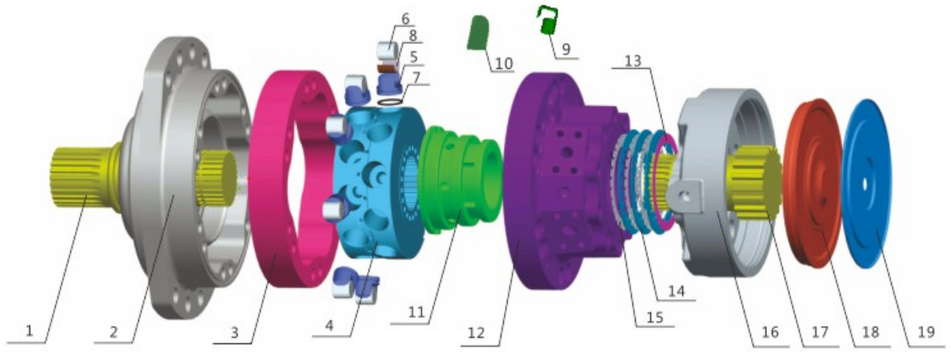
Options

10	Other Options/Special Features





EXPLODED VIEW



PART LIST

Item	Description	Quantity
1	Drive Shaft	1
2	Front Cover	1
3	Stator	1
4	Rotor	1
5	Plunger Piston	20
6	Roller	20
7	Piston Ring	20
8	Bushing	20
9	Spring Pin	20
10	Plastic Block	40
11	Distributor	1
12	Rear Cover	1
13	Adjusting Shim	1
14	Dynamic Friction	18
15	Static Friction	20
16	Brake Cylinder	1
17	Brake Shaft	1
18	Brake Plunger	1
19	Cover Plate	1

APPLICATIONS



Pipe Jacking Machine



Greenbeans And Pea Harvesting Machines

MOTOR CODE

1	2	3		4		5	6	7		8		9		10
HMS		35	–		–				–		–		–	

Housing Type

2		Normal Displacement

Displacement/Technical Data

		Displacement(ml/r)	Rated Torque(N.m)	Max.Torque(N.m)	Rated Speed(rpm)	Speed Range(rpm)	Max.Pressure(Mpa)
4	7	2439	9695	15512	100	0-140	40
	9	3143	12493	19989	80	0-140	40
	0	3494	13888	22222	63	0-130	40
	2	4198	16688	26699	63	0-110	40

Maximum Power: first displacement 110KW, second displacement preferred 73KW, non-preferred 55KW

Speed Options

5	1	Single Speed
	A	Two Speed, Symmetrical, Ratio=2
	B	Two Speed, Symmetrical, Ratio<2
	C	Two Speed, Symmetrical, Ratio>2
	D	Two Speed, Clockwise, Ratio=2
	E	Two Speed, Clockwise, Ratio<2
	F	Two Speed, Clockwise, Ratio>2
	G	Two Speed, Counter-clockwise, Ratio=2
	H	Two Speed, Counter-clockwise, Ratio<2
	J	Two Speed, Counter-clockwise, Ratio>2

Mounting Type

6	1	Shaft Motor
	2	Wheel Motor

Ports

7	A	1 1/16 -12SAE
	1	ISO6162

Brake

8	A35	Without Brake (standard plate)
	R35	Without Brake (reinforced plate)
	T42	Multidisc Brake-25000Nm
	T50	Multidisc Brake-30000Nm

Output Type

9	2A10	NFE2214 Splines
	2A40	Cylindrical Key
	2A50	DIN 5480 Splines
	1120	8×Φ24,Φ275 / 10×Φ24,Φ335
	0000	Hydrobase

* More options available, please see details in selection guide, or contact us directly.

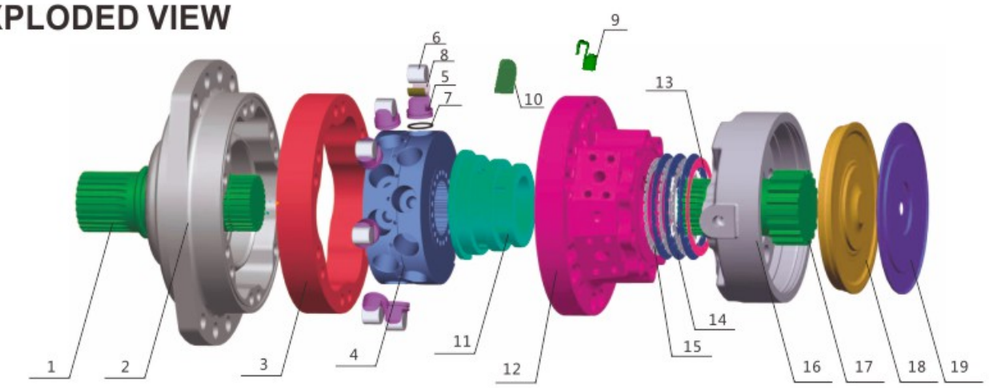
Options

10	Other Options/Special Features





EXPLODED VIEW



PART LIST

Item	Description	Quantity
1	Drive Shaft	1
2	Front Cover	1
3	Stator	1
4	Rotor	1
5	Plunger Piston	16
6	Roller	16
7	Piston Ring	16
8	Bushing	16
9	Spring Pin	16
10	Plastic Block	32
11	Distributor	1
12	Rear Cover	1
13	Adjusting Shim	1
14	Dynamic Friction	21
15	Static Friction	22
16	Brake Cylinder	1
17	Brake Shaft	1
18	Brake Plunger	1
19	Cover Plate	1

APPLICATIONS


Raise Boring Machine


Shredder Slewing

MOTOR CODE

1	2	3		4		5	6	7		8		9		10
HMS		50	–		–				–		–		–	

Housing Type

2		Normal Displacement

Displacement/Technical Data

		Displacement(ml/r)	Rated Torque(N.m)	Max.Torque(N.m)	Rated Speed(rpm)	Speed Range(rpm)	Max.Pressure(Mpa)
4	7	3500	13913	22260	80	0-148	40
	8	4008	15933	25491	80	0-138	40
	0	4997	19863	31781	63	0-111	40
	2	6011	23893	38230	50	0-92	40

Maximum Power: first displacement 140KW, second displacement preferred 93KW, non-preferred 70KW

Speed Options

5	1	Single Speed
	A	Two Speed, Symmetrical, Ratio=2
	B	Two Speed, Symmetrical, Ratio<2
	C	Two Speed, Symmetrical, Ratio>2
	D	Two Speed, Clockwise, Ratio=2
	E	Two Speed, Clockwise, Ratio<2
	F	Two Speed, Clockwise, Ratio>2
	G	Two Speed, Counter-clockwise, Ratio=2
	H	Two Speed, Counter-clockwise, Ratio<2
	J	Two Speed, Counter-clockwise, Ratio>2

Mounting Type

6	1	Shaft Motor
	2	Wheel Motor

Ports

7	1	ISO6162

Brake

8	A50	Without Brake (standard plate)
	R50	Without Brake (reinforced plate)
	T42	Multidisc Brake-25000Nm
	T50	Multidisc Brake-30000Nm
	T83	Multidisc Brake-42000Nm

Output Type

9	2A10	NFE2214 Splines
	2A40	Cylindrical Key
	2A50	DIN 5480 Splines
	1120	10×Φ24,Φ335 / 12×Φ26,Φ425
	0000	Hydrobase

* More options available, please see details in selection guide, or contact us directly.

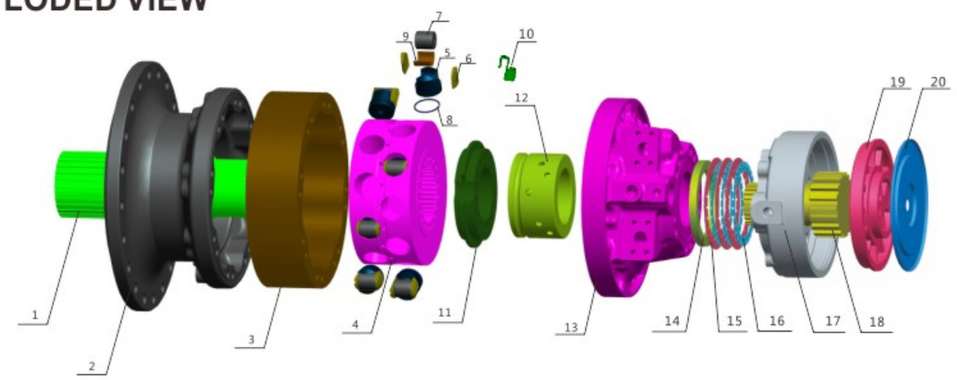
Options

10	Other Options/Special Features





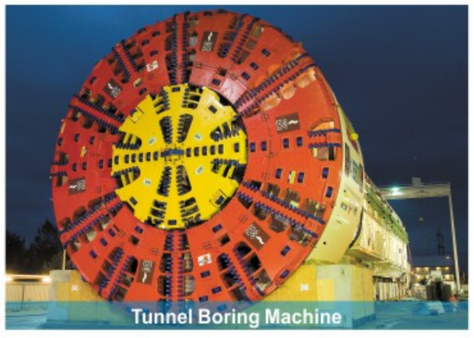
EXPLODED VIEW



PART LIST

Item	Description	Quantity
1	Drive Shaft	1
2	Front Cover	1
3	Stator	1
4	Rotor	1
5	Plunger Piston	20
6	Roller	20
7	Piston Ring	20
8	Bushing	20
9	Spring Pin	20
10	Plastic Block	40
11	Valve Plate	1
12	Distributor	1
13	Rear Cover	1
14	Adjusting Shim	1
15	Dynamic Friction	21
16	Static Friction	22
17	Brake Cylinder	1
18	Brake Shaft	1
19	Brake Plunger	1
20	Cover Plate	1

APPLICATIONS


Tunnel Boring Machine


Anchor Winch

MOTOR CODE

1	2	3		4		5	6	7		8		9		10
HMS		83	–		–				–		–		–	

Housing Type

2		Normal Displacement

Displacement/Technical Data

		Displacement(ml/r)	Rated Torque(N.m)	Max.Torque(N.m)	Rated Speed(rpm)	Speed Range(rpm)	Max.Pressure(Mpa)
4	8	6679	26550	42478	63	0-65	40
	0	8328	33105	52966	50	0-52	40
	2	10019	39825	63721	40	0-43	40

Maximum Power: 220KW

Speed Options

5	1	Single Speed
	A	Two Speed, Symmetrical, Ratio=2
	B	Two Speed, Symmetrical, Ratio<2
	C	Two Speed, Symmetrical, Ratio>2

Mounting Type

6	1	Shaft Motor
	2	Wheel Motor

Ports

7	1	ISO6162

Brake

8	R83	Without Brake (reinforced plate)
	T80	Multidisc Brake-72000Nm

Output Type

9	3A10	NFE2214 splines
	3A40	Cylindrical key
	3A50	DIN 5480 splines
	1320	42×Φ26,Φ425
	0000	Hydrobase

* More options available, please see details in selection guide, or contact us directly.

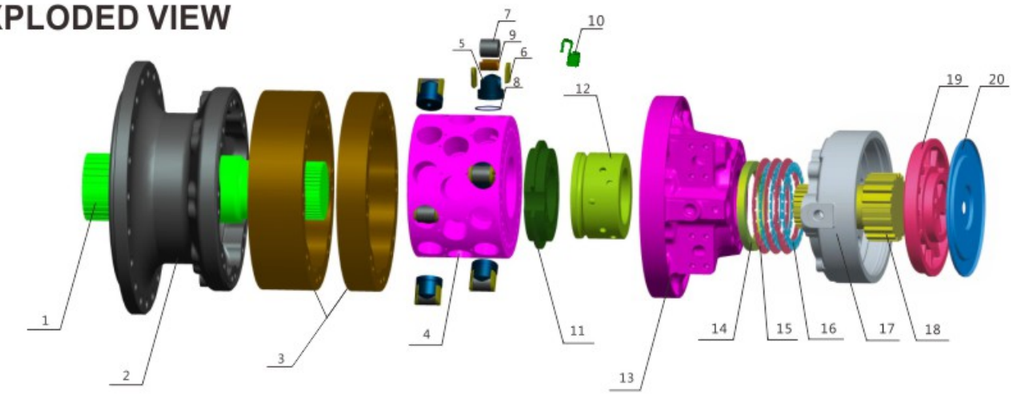
Options

10	Other Options/Special Features





EXPLODED VIEW



PART LIST

Item	Description	Quantity
1	Drive Shaft	1
2	Front Cover	1
3	Stator	1
4	Rotor	1
5	Plunger Piston	30
6	Roller	30
7	Piston Ring	30
8	Bushing	30
9	Spring Pin	30
10	Plastic Block	60
11	Valve Plate	1
12	Distributor	1
13	Rear Cover	1
14	Adjusting Shim	1
15	Dynamic Friction	21
16	Static Friction	22
17	Brake Cylinder	1
18	Brake Shaft	1
19	Brake Plunger	1
20	Cover Plate	1

APPLICATIONS



Bucket Wheel Machine



Injection Moulding Machine

MOTOR CODE

1	2	3		4		5	6	7		8		9		10
HMS		125	–		–				–		–		–	

Housing Type

2		Normal Displacement

Displacement/Technical Data

		Displacement(ml/r)	Rated Torque(N.m)	Max.Torque(N.m)	Rated Speed(rpm)	Speed Range(rpm)	Max.Pressure(Mpa)
4	8	10000	39750	63600	50	0-50	40
	0	12500	49688	79500	40	0-40	40
	2	15000	59825	95400	30	0-30	40

Maximum Power: 240KW

Speed Options

5	1	Single Speed
	A	Two Speed, Symmetrical, Ratio=2
	B	Two Speed, Symmetrical, Ratio<2
	C	Two Speed, Symmetrical, Ratio>2

Mounting Type

6	1	Shaft Motor
	2	Wheel Motor

Ports

7	1	ISO6162

Brake

8	R83	Without Brake (reinforced plate)
	T80	Multidisc Brake-72000Nm

Output Type

9	3A10	NFE2214 Splines
	3A40	Cylindrical Key
	3A50	DIN 5480 Splines
	1320	42×Φ26,Φ425
	0000	Hydrobase

* More options available, please see details in selection guide, or contact us directly.

Options

10	Other Options/Special Features

APPLICATIONS





Road Roller

MOTOR CODE

1	2	3		4		5	6	7		8		9		10
HMK		4	–		–				–		–		–	

Housing Type

2		Normal Displacement

Displacement/Technical Data

		Displacement(ml/r)	Rated Torque(N.m)	Max.Torque(N.m)	Rated Speed(rpm)	Speed Range(rpm)	Max.Pressure(Mpa)
4	8	272	1081	1730	120	0-120	40
	0	340	1351	2162	110	0-110	40
	2	408	1621	2595	100	0-100	40

Maximum Power: 18KW

Speed Options

5	1	Single Speed

Mounting Type

6	1	Without Bearing

Ports

7	4	ISO9974-1
	A	ISO11926-1

Brake

8	A04	Without Brake
	K04	Static Brake-3170Nm

Output Type

9	3340	5×M16,Φ100
	0000	Hydrobase

* More options available, please see details in selection guide, or contact us directly.

Options

10	Other Options/Special Features

APPLICATIONS





Road Roller

MOTOR CODE

1	2	3		4		5	6	7		8		9		10
HMK		18	–		–				–		–		–	

Housing Type

2		Normal Displacement
	E	Large Displacement

Displacement/Technical Data

			Displacement(ml/r)	Rated Torque(N.m)	Max.Torque(N.m)	Rated Speed(rpm)	Speed Range(rpm)	Max.Pressure(Mpa)
4	(HMK)	8	1395	5545	8872	120	0-155	40
		9	1571	6244	9992	107	0-140	40
		0	1747	6944	11111	96	0-125	40
		1	1911	7596	12154	88	0-115	40
		2	2099	8343	13350	80	0-100	40
	(HMKE)	0	2340	9301	14882	71	0-90	40
		1	2560	10176	16282	65	0-85	40
		2	2812	11177	17884	59	0-75	40

Maximum Power: first displacement 70KW, second displacement preferred 47KW, non-preferred 35KW

Speed Options

5	1	Single Speed
	A	Two Speed, Symmetrical, Ratio=2
	B	Two Speed, Symmetrical, Ratio<2
	C	Two Speed, Symmetrical, Ratio>2
	D	Two Speed, Clockwise, Ratio=2
	E	Two Speed, Clockwise, Ratio<2
	F	Two Speed, Clockwise, Ratio>2
	G	Two Speed, Counter-clockwise, Ratio=2
	H	Two Speed, Counter-clockwise, Ratio<2
	J	Two Speed, Counter-clockwise, Ratio>2

Mounting Type

6	2	Wheel Motor

Ports

7	1	ISO 6162 / ISO 9974-1
	4	ISO 9974-1

Brake

8	A18	Without Brake
	T12	Multidisc Brake-11840Nm
	T19	Multidisc Brake-18600Nm

Output Type

9	3340	5×M16,Φ100
	0000	Hydrobase

* More options available, please see details in selection guide, or contact us directly.

Options

10	Other Options/Special Features



APPLICATIONS



MOTOR CODE

1	2	3		4		5	6	7		8		9		10
HMK		23	–		–				–		–		–	

Housing Type

2		Normal Displacement
	E	Large Displacement

Displacement/Technical Data

			Displacement(ml/r)	Rated Torque(N.m)	Max.Torque(N.m)	Rated Speed(rpm)	Speed Range(rpm)	Max.Pressure(Mpa)
4	(HMK)	8	1395	5545	8872	65	0-65	40
		9	1571	6244	9992	65	0-65	40
		0	1747	6944	11111	65	0-65	40
		1	1911	7596	12154	65	0-65	40
		2	2099	8343	13350	65	0-65	40
	(HMKE)	0	2340	9301	14882	65	0-65	40
		1	2560	10176	16282	65	0-65	40
		2	2812	11177	17884	59	0-65	40

Maximum Power: first displacement 70KW, second displacement preferred 47KW, non-preferred 35KW

Speed Options

5	1	Single Speed
	A	Two Speed, Symmetrical, Ratio=2
	B	Two Speed, Symmetrical, Ratio<2
	C	Two Speed, Symmetrical, Ratio>2
	D	Two Speed, Clockwise, Ratio=2
	E	Two Speed, Clockwise, Ratio<2
	F	Two Speed, Clockwise, Ratio>2
	G	Two Speed, Counter-clockwise, Ratio=2
	H	Two Speed, Counter-clockwise, Ratio<2
	J	Two Speed, Counter-clockwise, Ratio>2

Mounting Type

6	2	Wheel Motor

Ports

7	1	ISO 6162 / ISO 9974-1
	7	ISO 6162 / ISO 11926-1

Brake

8	A18	Without Brake

Output Type

9	1040/1041/ 1140/1141	16×M20×2.5,Φ275
	0000	Hydrobase

* More options available, please see details in selection guide, or contact us directly.

Options

10	Other Options/Special Features



APPLICATIONS



MOTOR CODE

1	2	3		4		5	6	7		8		9		10
HMK		35	–		–				–		–		–	

Housing Type

2		Normal Displacement

Displacement/Technical Data

		Displacement(ml/r)	Rated Torque(N.m)	Max.Torque(N.m)	Rated Speed(rpm)	Speed Range(rpm)	Max.Pressure(Mpa)
4	9	3143	12493	19989	50	0-50	40
	0	3494	13888	22222	50	0-50	40
	1	3822	15192	24308	50	0-50	40
	2	4198	16687	26699	50	0-50	40
	A	3494	13888	22222	50	0-50	40

Maximum Power: first displacement 110KW, second displacement preferred 73KW, non-preferred 55KW

Speed Options

5	1	Single Speed
	A	Two Speed, Symmetrical, Ratio=2
	B	Two Speed, Symmetrical, Ratio<2
	C	Two Speed, Symmetrical, Ratio>2
	D	Two Speed, Clockwise, Ratio=2
	E	Two Speed, Clockwise, Ratio<2
	F	Two Speed, Clockwise, Ratio>2
	G	Two Speed, Counter-clockwise, Ratio=2
	H	Two Speed, Counter-clockwise, Ratio<2
	J	Two Speed, Counter-clockwise, Ratio>2

Mounting Type

6	1	Shaft Motor
	2	Wheel Motor

Ports

7	1	ISO 6162 / ISO 9974-1
	7	ISO 6162 / ISO 11926-1

Brake

8	A18	Without Brake

Output Type

9	1040/1041/ 1140/1141	16×M20×2.5,Φ275
	0000	Hydrobase

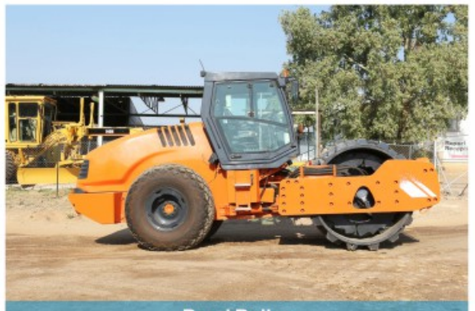
* More options available, please see details in selection guide, or contact us directly.

Options

10	Other Options/Special Features

APPLICATIONS





Road Roller

MOTOR CODE

1	2	3		4		5	6	7		8		9		10
HMK		47	–		–				–		–		–	

Housing Type

2		Normal Displacement
	E	Large Displacement

Displacement/Technical Data

		Displacement(ml/r)	Rated Torque(N.m)	Max.Torque(N.m)	Rated Speed(rpm)	Speed Range(rpm)	Max.Pressure(Mpa)
4	0	4680	18603	29765	50	0-50	40
	2	5624	22355	35769	46	0-50	40
	A	4682	18610	29778	50	0-50	40

Maximum Power: first displacement 110KW, second displacement preferred 73KW, non-preferred 55KW

Speed Options

5	1	Single Speed
	A	Two Speed, Symmetrical, Ratio=2
	B	Two Speed, Symmetrical, Ratio<2
	C	Two Speed, Symmetrical, Ratio>2
	D	Two Speed, Clockwise, Ratio=2
	E	Two Speed, Clockwise, Ratio<2
	F	Two Speed, Clockwise, Ratio>2
	G	Two Speed, Counter-clockwise, Ratio=2
	H	Two Speed, Counter-clockwise, Ratio<2
	J	Two Speed, Counter-clockwise, Ratio>2

Mounting Type

6	2	Wheel Motor

Ports

7	1	ISO 6162 / ISO 9974-1
	7	ISO 6162 / ISO 11926-1

Brake

8	A18	Without Brake

Output Type

9	1040/1041/ 1140/1141	16×M20×2.5,Φ275
	0000	Hydrobase

* More options available, please see details in selection guide, or contact us directly.

Options

10	Other Options/Special Features

APPLICATIONS





Combine

MOTOR CODE

1	2	3		4		5	6	7		8		9		10
HMG		05	–		–				–		–		–	

Housing Type

2		Normal Displacement
	E	Large Displacement

Displacement/Technical Data

			Displacement(ml/r)	Rated Torque(N.m)	Max.Torque(N.m)	Rated Speed(rpm)	Speed Range(rpm)	Max.Pressure(Mpa)
4	(HMG)	6	260	1034	1860	267	0-420	45
		8	376	1495	2690	185	0-305	45
		0	468	1860	3349	148	0-250	45
		1	514	2043	3678	135	0-220	45
		2	560	2226	4007	124	0-205	45
	(HMGE)	8	503	1999	3599	138	0-225	45
		0	626	2488	4479	111	0-185	45
		1	687	2730	4915	101	0-165	45
		2	749	2977	5359	93	0-150	45

Maximum Power: 29KW

Speed Options

5	1	Single Speed
	A	Two Speed, Symmetrical, Ratio=2
	B	Two Speed, Symmetrical, Ratio<2
	C	Two Speed, Symmetrical, Ratio>2

Mounting Type

6	2	Wheel Motor

Ports

7	4	ISO 9974-1 (metric)
	A	ISO 11926-1 (SAE J514 with O-ring seal)

Brake

8	101	Standard Bracket

Output Type

9	1210	10xØ18,Ø140
	1W10	10xM14,Ø140 Without studs
	1W20	10xM14,Ø140 With studs + nuts
	0000	Hydrobase

* More options available, please see details in selection guide, or contact us directly.

Options

10	Other Options/Special Features

APPLICATIONS





Grader

MOTOR CODE

1	2	3		4		5	6	7		8		9		10
HMG		21	–		–				–		–		–	

Housing Type

2		Normal Displacement

Displacement/Technical Data

		Displacement(ml/r)	Rated Torque(N.m)	Max.Torque(N.m)	Rated Speed(rpm)	Speed Range(rpm)	Max.Pressure(Mpa)
4	8	1674	6654	10647	114	0-138	40
	9	1885	7493	11989	101	0-122	40
	0	2096	8331	13331	91	0-110	40
	1	2294	9119	14590	83	0-100	40
	2	2516	10013	16002	76	0-91	40

Maximum Power: first displacement 80KW, second displacement preferred 53KW, non-preferred 40KW

Speed Options

5	R	Single Speed
	D	Two Speed, Clockwise, Ratio=2
	E	Two Speed, Clockwise, Ratio<2
	F	Two Speed, Clockwise, Ratio>2
	G	Two Speed, Counter-clockwise, Ratio=2
	H	Two Speed, Counter-clockwise, Ratio<2
	J	Two Speed, Counter-clockwise, Ratio>2

Mounting Type

6	2	Wheel Motor

Ports

7	A	ISO 11926-1 Connections
	8	ISO 6149-1 Connections

Brake

8	101	Standard Bracket
	404	Reinforced Bracket

Output Type

9	1910	8xM20x1.5,Ø275
	0000	Hydrobase

* More options available, please see details in selection guide, or contact us directly.

Options

10	Other Options/Special Features

APPLICATIONS





SMPT Vehicle

MOTOR CODE

1	2	3		4		5	6	7		8		9		10
HMF		08	–		–				–		–		–	

Housing Type

2		Normal Displacement
	E	Large Displacement

Displacement/Technical Data

			Displacement(ml/r)	Rated Torque(N.m)	Max.Torque(N.m)	Rated Speed(rpm)	Speed Range(rpm)	Max.Pressure(Mpa)
4	(HMF)	6	627	2492	3988	150	0-150	40
		8	702	2790	4465	134	0-134	40
		0	780	3100	4961	121	0-121	40
		1	857	3406	5451	110	0-110	40
		2	934	3712	5940	101	0-101	40
	(HMFE)	8	838	3310	5330	112	0-112	40
		9	938	3728	5966	100	0-100	40
		0	1043	4145	6633	90	0-90	40
		1	1146	4555	7289	82	0-82	40
		2	1248	4960	7937	75	0-75	40

Maximum Power: 41KW

Speed Options

5	1	Single Speed

Mounting Type

6	1	Without Mounting

Ports

7	1	ISO 9974-1 (metric)

Brake

8	A08	Without Brake

Output Type

9	0000	Hydrobase

* More options available, please see details in selection guide, or contact us directly.

Options

10	Other Options/Special Features

APPLICATIONS





Horizontal Directional Drilling

MOTOR CODE

1	2	3		4		5	6	7		8		9		10
HP		13	–		–				–		–		–	

Housing Type

2		Normal Displacement

Displacement/Technical Data

		Displacement (ml/r)	Rated Torque (N.m)	Max.Torque (N.m)	Rated Speed (rpm)	Speed Range (rpm)	Max.Pressure (Mpa)	Max.Power (KW)
4	777	900	3578	5724	395	0-520	40	148
	888	1035	4114	6583	350	0-462	40	151
	999	1155	4591	7346	314	0-415	40	151
	000	1287	5080	8185	281	0-376	40	150
	111	1413	5617	8987	246	0-344	40	145
	222	1542	6219	9807	218	0-317	40	142

Speed Options

5	1	Single Speed
	A	Two Speed 8/3 Symmetrical

Mounting Type

6	1	Shaft Motor
	2	Wheel Motor

Ports

7	1	ISO 9974-1 (metric)
	3	ISO 1179-1 (BSPP)

Flanged Valve

8	0	Standard Without Block

Output Type

9	2A10	NF E22-141
	2A50	DIN 5480
	1610	10xØ22x1.5,Ø225
	0000	Hydrobase

* More options available, please see details in selection guide, or contact us directly.

Options

10	Other Options/Special Features

APPLICATIONS





Horizontal Directional Drilling

MOTOR CODE

1	2	3		4		5	6	7		8		9		10
HP		20	–		–				–		–		–	

Housing Type

2		Normal Displacement

Displacement/Technical Data

		Displacement (ml/r)	Rated Torque (N.m)	Max.Torque (N.m)	Rated Speed (rpm)	Speed Range (rpm)	Max.Pressure (Mpa)	Max.Power (KW)
4	777	1416	5629	9006	339	0-505	40	200
	888	1630	6479	10367	272	0-420	40	185
	999	1821	7238	11582	234	0-395	40	178
	000	2029	8065	12904	201	0-345	40	170
	111	2228	8856	14170	172	0-325	40	160
	222	2427	9467	15436	148	0-290	40	150

Speed Options

5	1	Single Speed
	A	Two Speed 8/3 Symmetrical
	B	Two Speed 8/5

Mounting Type

6	1	Shaft Motor
	2	Wheel Motor

Ports

7	1	ISO 9974-1 (metric)
	3	ISO 1179-1 (BSPP)

Flanged Valve

8	0	Standard Without Block

Output Type

9	2A10	NF E22-141
	2A50	DIN 5480
	1110	10xØ22x1.5,Ø335
	0000	Hydrobase

* More options available, please see details in selection guide, or contact us directly.

Options

10	Other Options/Special Features

Other options for HMCR series

N	With Flushing (Cracking Pressure 11.2 bar)
F	With Flushing (Cracking Pressure 14.4 bar)
A	With Flushing (Cracking Pressure 18.2 bar)
B	With Flushing (Cracking Pressure 21.4 bar)
C	With Flushing (Cracking Pressure 24.6 bar)
P0	Sensor ready
P1	Sensor without regulator
P2	Sensor with regulator
P3	Speed sensor ready
P5	Speed sensor DSA2 - 12+24V
P6	Speed sensor DSA1 - 12+24V
PA	Speed sensor ready (DST series 10, DSA series 20)
PB	DST series 10
PC	DSA1 series 20
PD	DSA2 series 20
W	With wheel studs
S	With wheel studs and nuts
SS	With twice normal number of wheel studs and nuts

Other options for HMS/HMK/HP/HMG/HMF series

1	Fluorinated elastomer seals compatible
2	T4 speed sensor
3	Brake environmental cover without plug
5	Drainage
6	Industrial bearing support
7	Diamond
8	Predisposition for speed sensor
9	Chassis mounting on cam ring side
A	Hollow shaft
B	Drain on the bearing support
C	Abrasive environment
D	Special paint or no paint
E	Reinforced sealing
G	Special wheel rim mounting
H	High efficiency
J	Surface heat treatment of the shaft
M	High speed
N	For vertical mounting
P	Customized identification plate
Q	TD speed sensor
R	Brake flushing
S	TR speed sensor
T	Soft Shift
U	Boosted Braking
W	Grip washer

Driven by market demand, Helm Tower will always put customer first, persistently pursuing excellence to become a world leading hydraulic motor manufacturer and service provider.

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