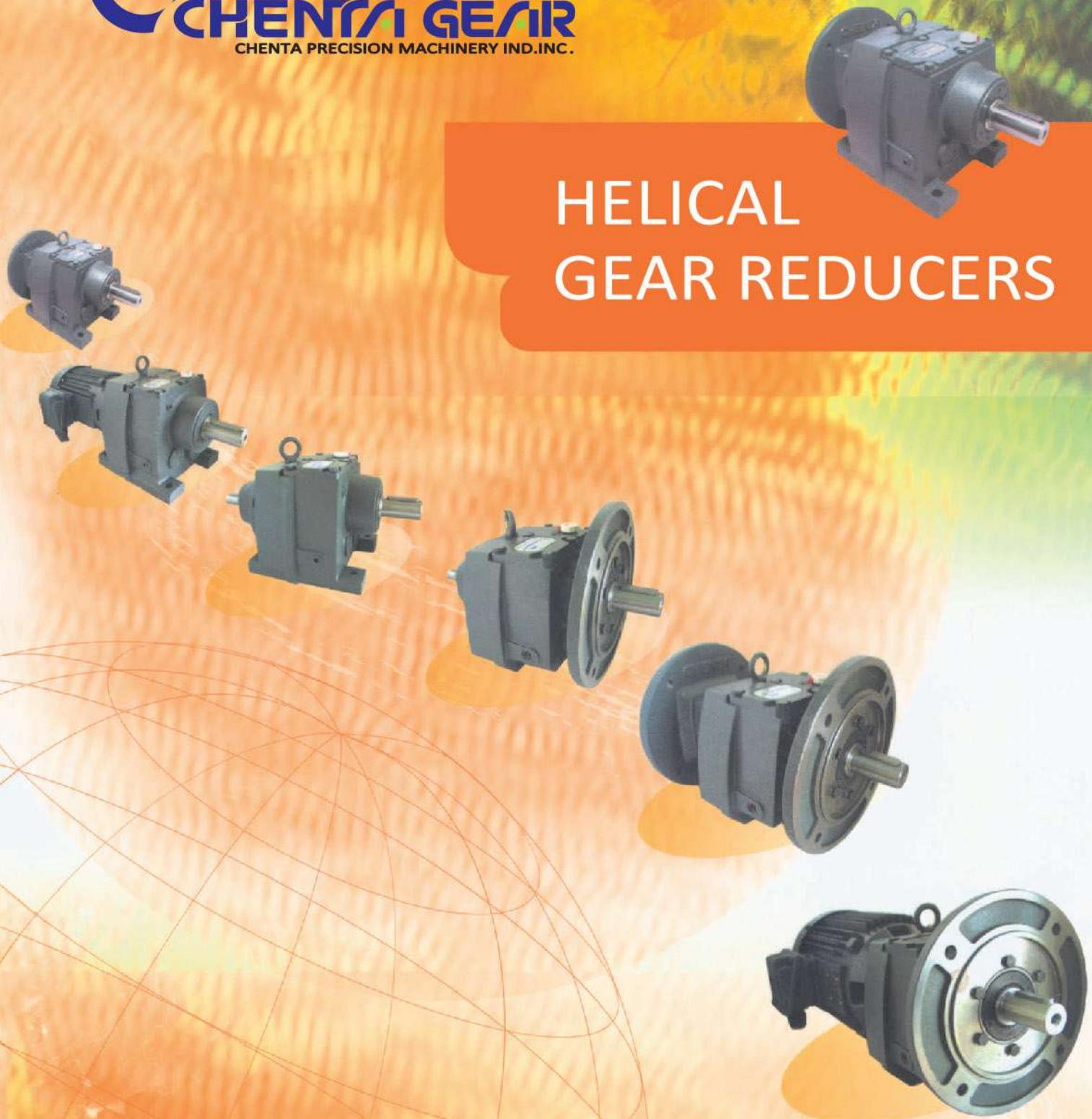




HELICAL GEAR REDUCERS



INSTALLATION DIMENSION ARE CONSISTENT WITH GERMAN MODEL





Certificate TW98/14175

The management system of

Chen Ta Precision Machinery Industrial Inc./ Jen Wu Machinery Co., Ltd.

No. 118, Hall Tran Lane, Jen Wu Dist.,
Kaohsiung City, Taiwan



has been assessed and certified as meeting the requirements of

ISO 9001:2008

For the following activities

Design and manufacture of helical gear speed reducer, worm gear speed reducer and gear motor, gear box and water paddle-wheel aerator.

Further clarifications regarding the scope of this certificate and the applicability of ISO 9001:2008 requirements may be obtained by consulting the organisation

This certificate is valid from 18 September 2015 until 15 September 2018
and remains valid subject to satisfactory surveillance audits.

Re certification audit due before 25 August 2018
Issue 7. Certified since 18 September 1998

Authorised by

SGS United Kingdom Ltd Systems & Services Certification
Rossmore Business Park, Ellesmere Port, Cheshire CH65 3EN, UK
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Page 1 of 1



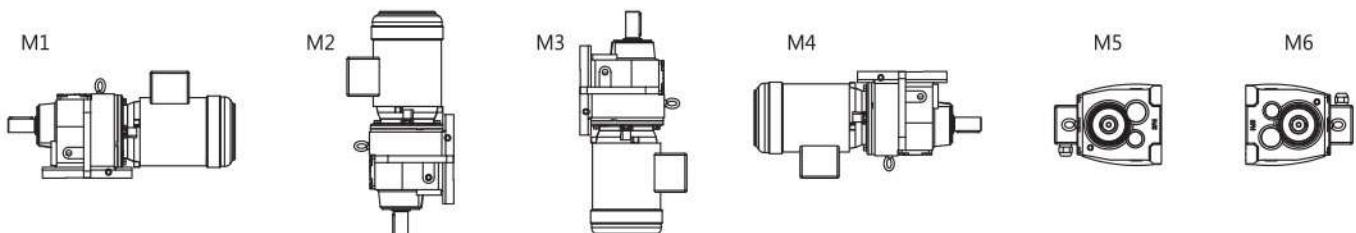
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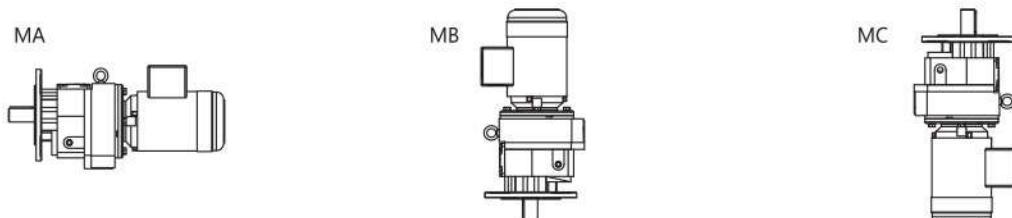


- 1) Desain menyesuaikan Institut Standarisasi Jerman (DIN) – efisiensi tinggi, kekuatan tinggi, dan kebisingan rendah
- 2) Spesifikasi lengkap menghasilkan beragam instalasi
- 3) Cast iron membuat kerangka yang kuat dan tahan benturan
- 4) Kecuali rasio 1/5 – 1/25 yang memiliki desain 2 stages gear, ratio 1/25 – 1/120 semuanya untuk desain 3 stages gear. Desain 3 stages gear meningkatkan kekuatan dan Service Factor
- 5) Berbeda dengan hanya 1 bearing support, 2 bearing support Input Pinion kami menghasilkan rotasi yang stabil
- 6) Desain Shaft Insert motor di Input Flange membuat kemudahan instalasi IEC atau Nema Motor
- 7) Rentang rasio dari 1/5 hingga 1/120
- 8) Rentang daya dari 1/8HP hingga 125HP
- 9) Gear part dengan prosesi yang presisi membuat rotasi gear yang lebih tenang dan efisien
- 10) Instalasi dan dimensi shaft cocok dengan merk Jerman
- 11) Penampilan lebih menarik dan lebih ringan

MOUNTING POSITION OF FOOT MOUNTING



MOUNTING POSITION OF FLANGE MOUNTING



Output RPM < 100 R.P.M., Please use CPC HD - 220 E.P. Lubricant or equivalent.

Output RPM > 100 R.P.M., Please use CPC HD - 320 E.P. Lubricant or equivalent.

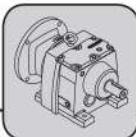
SELECTION TABLE OF LUBRICANT

Standard Load, Input 600 RPM or more.

Temperature (°C)	CPC	ISO VG	Mobil	Shell
-30 ~ -15	HD 100	VG 100	Mobilegear 627	Omala 100
-15 ~ -3	HD 150	VG 150	Mobilegear 629	Omala 150
-3 ~ 23	HD 220	VG 220	Mobilegear 630	Omala 220
23 ~ 40	HD 320	VG 320	Mobilegear 632	Omala 320
40 ~ 80	HD 460	VG 460	Mobilegear 634	Omala 460

Heavy Load, Input 600 RPM or more.

Temperature (°C)	CPC	ISO VG	Mobil	Shell
-30 ~ -15	HD 150	VG 150	Mobilegear 629	Omala 150
-15 ~ -3	HD 220	VG 220	Mobilegear 630	Omala 220
-3 ~ 23	HD 320	VG 320	Mobilegear 632	Omala 320
23 ~ 40	HD 460	VG 460	Mobilegear 634	Omala 460
40 ~ 80	HD 680	VG 680	Mobilegear 636	Omala 680



Kode Sistem

Column only for Couple with Motor

Helical Gear	Model	Input Type	Flange Frame / Input Shaft	Size	Ratio	Voltage	Hz	Pole
M	H	F	H Q	0 1 7	0 0 5	2 - 220 V	5 - 50HZ	2 - 2P
H - Foot Mounting V - Flange Mounting - big flange W - Flange Mounting - small flange			IEC standard : 4 - POLE			0 10 05 - 1/5		
F - Input Flange IEC B5 B - Input Flange IEC B14 N - Input Flange NEMA D - Input Solid Shaft M - Couple with Motor			HQ - 1/8HP φ9 (B14) QQ - 1/4HP φ11 HH - 1/2HP φ14 01 - 1HP φ19 02 - 2HP φ24 03 - 3HP φ28 05 - 5HP φ28 07 - 7.5/10HP φ38 15 - 15/20HP φ42 25 - 25/30HP φ48 40 - 40HP φ55 50 - 50/60HP φ60 75 - 75HP φ65 100 - 100HP φ75 125 - 125HP φ75			017 - 17 037 - 37 047 - 47 057 - 57 067 - 67 077 - 77 087 - 87 097 - 97 107 - 107 137 - 137 147 - 147 167 - 167		
			NEMA standard			005 - 1/5 010 - 1/10 015 - 1/15 020 - 1/20 025 - 1/25 030 - 1/30 035 - 1/35 040 - 1/40 045 - 1/45 050 - 1/50 055 - 1/55 060 - 1/60 065 - 1/65 070 - 1/70 080 - 1/80 090 - 1/90 100 - 1/100 110 - 1/110 120 - 1/120		
			Input Shaft Diameter			01 - 56C 02 - 143T 04 - 182/184T 06 - 213/215T		
			16 - φ16 19 - φ19 24 - φ24 28 - φ28 38 - φ38 42 - φ42 48 - φ48 55 - φ55					



p.19

MHF

Type of Hollow-Bore Input with Flange (foot mounting)



p.20

MHD

Type of Double Solid Shafts (foot mounting)



p.21

MHFM

Type of Couple with Motor (foot mounting)



p.22

MHM

Type of Couple with Motor (foot mounting)



p.23

MVF / MWF

Type of Hollow-Bore Input with Flange (flange mounting)



p.24

MVD / MWD

Type of Double Solid Shafts (flange mounting)



p.25

MVFM / MWFM

Type of Hollow-Bore Input with Motor (flange mounting)



p.26

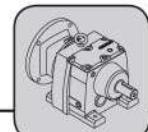
MVM / MWM

Type of Couple with Motor (flange mounting)

* For actual ratio, please refer to p.6 - 14

Remark: the mounting dimension is compatible with German brand.

* Please specify Voltage, Hz, Pole, Phase, IP grade, Brake require or not if type of Couple with Motor needed.



Column only for Couple with Motor

Helical Gear	Model	Input Type	Flange Frame / Input Shaft	Size	Ratio	Voltage	Hz	Pole
M	N	F	H Q	37 - 47	1 2 3	5 - 50HZ 6 - 60HZ		
N - Foot Mounting								
X - Flange Mounting - big flange								
F - Input Flange IEC B5 B - Input Flange IEC B14 N - Input Flange NEMA D - Input Solid Shaft M - Couple with Motor								
IEC standard : HQ - 1/8HP φ9 (B14) QQ - 1/4HP φ11 HH - 1/2HP φ14 01 - 1HP φ19 02 - 2HP φ24 03 - 3HP φ28 05 - 5HP φ28 07 - 7.5/10HP φ38 15 - 15/20HP φ42 25 - 25/30HP φ48 40 - 40HP φ55 50 - 50/60HP φ60 75 - 75HP φ65 100 - 100HP φ75 125 - 125HP φ75								
4 - POLE 37 - 47 37 - 67 37 - 77 47 - 87 47 - 97 77 - 107 77 - 137 87 - 147								
1/123 1/14775								
2 - 220 V 3 - 380 V 4 - 415 V 5 - 440 V								
2 - 2P 4 - 4P 6 - 6P 8 - 8P								
NEMA standard 01 - 56C 02 - 143T 04 - 182/184T 06 - 213/215T 08 - 254/256T								
Input Shaft Diameter 16 - φ16 19 - φ19 24 - φ24 28 - φ28 38 - φ38 42 - φ42 48 - φ48 55 - φ55								



p.27

MNF

Horizontal Multi-stage / Hollow-Bore Input with Flange



p.31

MXF

Vertical Multi-stage / Hollow-Bore Input with Flange



p.28

MND

Horizontal Multi-stage / Double Shafts



p.32

MXD

Vertical Multi-stage / Double Shafts



p.29

MNFM

Horizontal Multi-stage / Couple with Motor



p.33

MXFM

Vertical Multi-stage / Couple with Motor



p.30

MNM

Horizontal Multi-stage / Couple with Motor



p.34

MXM

Vertical Multi-stage / Couple with Motor

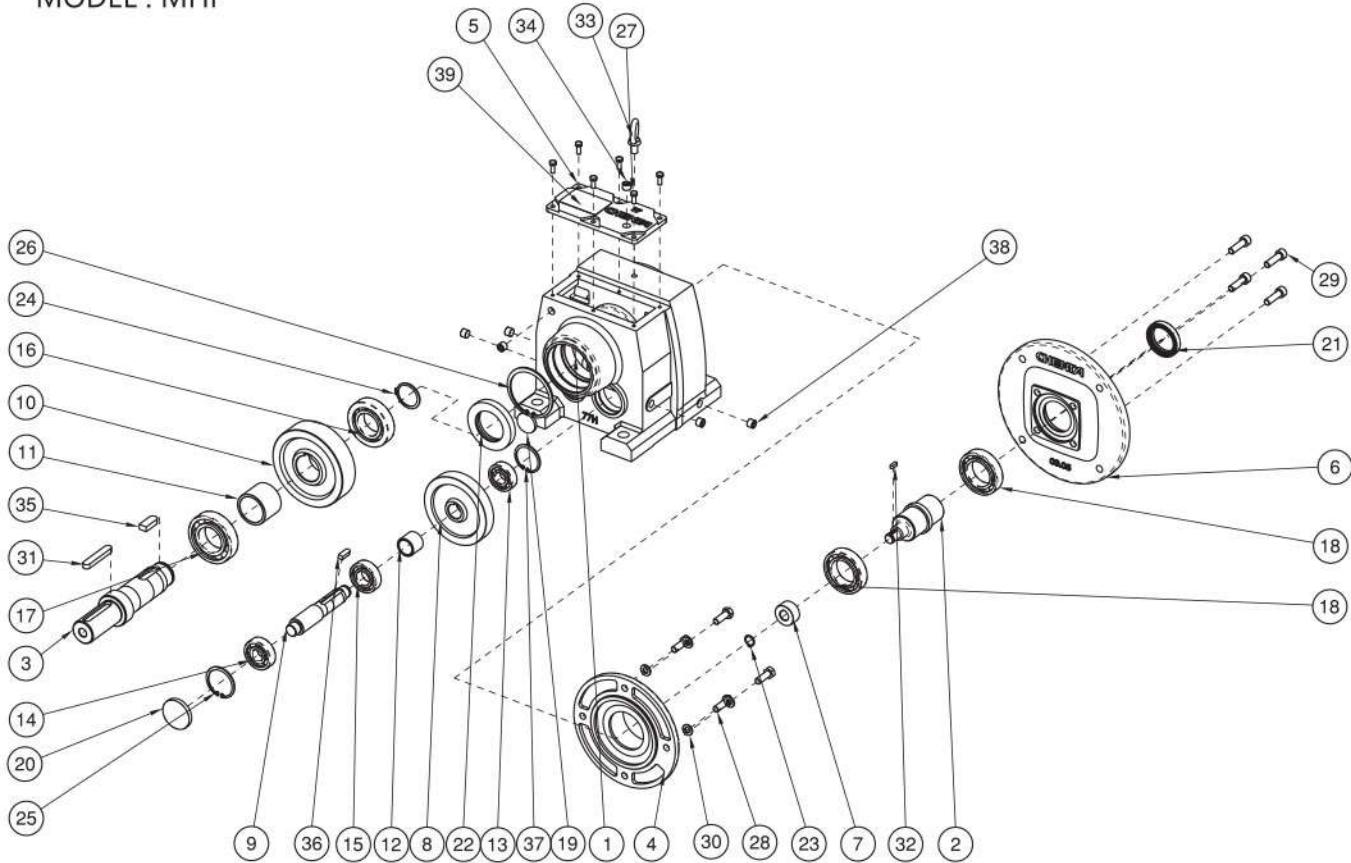
* For actual ratio, please refer to p. 15 - 18
 Remark: the mounting dimension is compatible with German brand.

* Please specify Voltage, Hz, Pole, Phase, IP grade, Brake require or not if type of Couple with Motor needed.



Struktur dasar untuk stage 2

MODEL : MHF

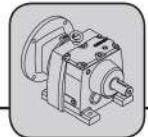


ITEM	PARTS NAME	QTY	ITEM	PARTS NAME	QTY	ITEM	PARTS NAME	QTY	ITEM	PARTS NAME	QTY
1	housing	1	10	gear #3	1	19	oil seal	1	28	bolt	4
2	input shaft	1	11	ring spacer #1	1	20	oil seal	1	29	bolt	4
3	output shaft	1	12	ring spacer #2	1	21	oil seal	1	30	spring washer	4
4	high speed cover	1	13	bearing	1	22	oil seal	1	31	key	1
5	top cover	1	14	bearing	1	23	ext snap ring	1	32	key	1
6	input flange	1	15	bearing	1	24	ext snap ring	1	33	eye - bolt	1
7	pinion #1	1	16	bearing	1	25	int snap ring	1	34	breather cap	1
8	gear #1	1	17	bearing	1	26	int snap ring	1	35	key	1
9	pinion #3	1	18	bearing	2	27	bolt	6	36	key	1
						37	int snap ring	1			
						38	plug	5			
						39	name plate	1			

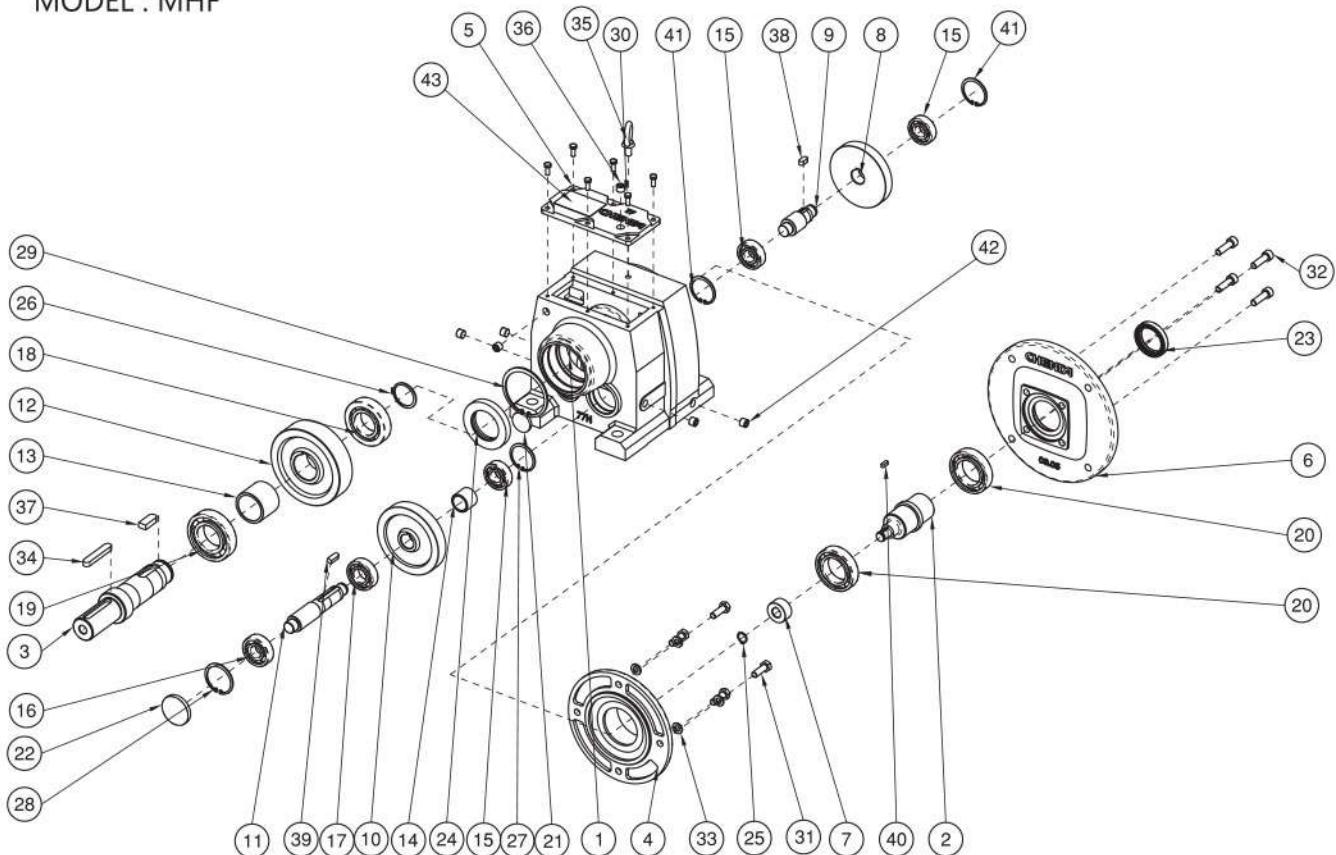
MATERIAL GLANCE :

1. HOUSING, COVER, FLANGE / FC 20
2. INPUT SHAFT, OUTPUT SHAFT / SCM 440
3. PINION / SCM 415
4. GEAR / SCM 440

Struktur dasar untuk stage 3



MODEL : MHF



ITEM	PARTS NAME	QTY	ITEM	PARTS NAME	QTY	ITEM	PARTS NAME	QTY	ITEM	PARTS NAME	QTY
1	housing	1	11	pinion #3	1	21	oil seal	1	31	bolt	4
2	input shaft	1	12	gear #3	1	22	oil seal	1	32	bolt	4
3	output shaft	1	13	ring spacer #1	1	23	oil seal	1	33	spring washer	4
4	high speed cover	1	14	ring spacer #2	1	24	oil seal	1	34	key	1
5	top cover	1	15	bearing	3	25	ext snap ring	1	35	eye - bolt	1
6	input flange	1	16	bearing	1	26	ext snap ring	1	36	breather cap	1
7	pinion #1	1	17	bearing	1	27	int snap ring	1	37	key	1
8	gear #1	1	18	bearing	1	28	int snap ring	1	38	key	1
9	pinion #2	1	19	bearing	1	29	int snap ring	1	39	key	1
10	gear #2	1	20	bearing	2	30	bolt	6	40	key	1
						41	int snap ring	2			
						42	plug	5			
						43	name plate	1			

MATERIAL GLANCE :

1. HOUSING, COVER, FLANGE / FC 20
2. INPUT SHAFT, OUTPUT SHAFT / SCM 440
3. PINION / SCM 415
4. GEAR / SCM 440



Daya yang tersedia & Torsi keluar

NOMINAL RATIO	ACTUAL RATIO	INPUT POWER (HP)	OUTPUT TORQUE (kgm)	OUTPUT (RPM)	S.F	STAGE	TYPE
---------------	--------------	------------------	---------------------	--------------	-----	-------	------

0.125HP

4	4.05	1.95	4	358	15.60	2	17
5	4.99	1.79	4	291	14.32		
7.5	7.44	1.45	5	195	11.60		
10	10.04	1.25	6	144	10.00		
12.5	12.65	1.10	7	115	8.80		
15	15.02	1.00	8	97	8.00		
20	19.69	0.88	9	74	7.04		
25	24.76	0.7	9	59	5.60		
30	29.36	0.59	9	49	4.72		
35	35.17	0.49	9	41	3.92		
40	39.61	0.44	9	37	3.52		
45	45.45	0.38	9	32	3.04		
50	49.90	0.35	9	29	2.80		
60	59.23	0.29	9	24	2.32		
70	68.73	0.25	9	21	2.00		
80	79.85	0.22	9	18	1.76		

0.25HP

4	4.05	1.95	4	358	7.80	2	17
5	4.99	1.79	4	291	7.16		
7.5	7.44	1.45	5	195	5.80		
10	10.04	1.25	6	144	5.00		
12.5	12.65	1.10	7	115	4.40		
15	15.02	1.00	8	97	4.00		
20	19.69	0.88	9	74	3.52		
25	24.76	0.7	9	59	2.80		
30	29.36	0.59	9	49	2.36		
35	35.17	0.49	9	41	1.96		
40	39.61	0.44	9	37	1.76		
45	45.45	0.38	9	32	1.52		
50	49.90	0.35	9	29	1.40		
60	59.23	0.29	9	24	1.16		
70	68.73	0.25	9	21	1.00		

4	4.20	4.30	8	345	17.20	2	37
5	4.88	3.50	8.1	297	14.00		
7	6.84	3.40	11	212	13.60		
10	10.42	2.50	12	139	10.00		
13	12.68	2.40	14	114	9.60		
15	15.75	2.10	16	92	8.40		
20	19.95	1.60	15	73	6.40		
25	24.50	1.10	13	59	4.40		
20	20.99	2.30	22	69	9.20		
25	24.81	1.60	18	58	6.40		
30	30.18	1.40	19	48	5.60		
35	32.51	1.40	21	45	5.60		
40	39.27	1.10	20	37	4.40		
45	46.07	0.95	20	31	3.80		
50	49.28	0.93	21	29	3.72		
55	57.20	0.83	22	25	3.32		
60	59.94	0.71	20	24	2.84		
70	69.57	0.62	20	21	2.48		
80	79.29	0.55	20	18	2.20		
90	91.47	0.50	21	16	2.00		
100	96.44	0.35	16	15	1.40		
110	106.18	0.30	15	14	1.20		
120	119.93	0.25	14	12	1.00		

50	49.45	1.0	23	29	4.00	3	47
55	55.56	1.2	31	26	4.80		
60	60.16	1.1	30	24	4.40		
70	72.29	0.8	27	20	3.20		
80	84.26	0.7	25	17	2.20		
90	91.24	0.6	21	29	1.96		
100	102.47	0.5	20	14	1.00		
110	112.90	0.4	18	12	1.00		
120	120.20	0.5	28	12	2.00		
80	79.65	1.24	441	18	4.96		
83	82.45	1.20	441	18	4.80		
90	91.24	0.6	25	16	2.40		
100	102.47	0.5	24	14	2.00		
110	106.30	0.5	24	14	2.00		
120	120.20	0.5	28	12	2.00		

80	79.65	1.24	441	18	4.96	3	57
83	82.45	1.20	441	18	4.80		
90	91.91	1.08	441	16	4.31		
100	101.77	0.97	441	14	3.87		
110	112.90	0.87	441	13	3.49		
130	129.16	0.76	441	11	3.06		
140	141.40	0.70	441	10	2.78		
165	164.13	0.60	441	9	2.40		
183	182.99	0.55	441	8	2.18		
70	68.44	1.20	38	21	4.80		
80	79.85	1.10	40	18	4.40		
90	84.79	1.00	39	17	4.00		
100	98.82	0.80	36	15	3.20		

NOMINAL RATIO	ACTUAL RATIO	INPUT POWER (HP)	OUTPUT TORQUE (kgm)	OUTPUT (RPM)	S.F	STAGE	TYPE
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0.25HP

110	105.60	0.65	32	14	2.60	3	67
120	123.20	0.56	32	12	2.24		

0.5HP

4	4.05	1.95	4	358	3.90	2	17
5	4.99	1.79	4	291	3.58		
7.5	7.44	1.45	5	195	2.90		
10	10.04	1.25	6	144	2.50		
12.5	12.65	1.10	7	115	2.20		
15	15.02	1.00	8	97	2.00		
20	19.69	0.88	9	74	1.76		
25	24.76	0.70	9	59	1.40		
30	29.36	0.59	9	49	1.18		
35	35.17	0.49	9	41	1.00		
40	39.61	0.44	9	37	0.80		
45	45.45	0.38	9	32	0.60		
50	49.90	0.35	9	29	0.40		
60	59.23	0.29	9	24	0.20		
70	68.73	0.25	9	21	0.10		
80	79.85	0.22	9	18	0.05		
18	18.37	2.00	17	79	4.00	3	47
20	20.36	1.80	17	71	3.60		
23	23.02	1.70	19	63	3.40		
20	22.30	3.30	34	65	6.60		
25	25.38	2.50	29	57	5.00		
30	30.44	2.10	29	48	4.20		
35	35.46	1.90	31	41	3.80		
40	39.26	1.80	33	37	3.60		
45	47.66	1.40	31	30	2.80		
50	49.45	1.00	23	29	2.00		
55	55.56	1.20	31	26	2.40		
60	60.16	1.10	30	24	2.20		
70	72.29	0.80	27	20	1.60		
80	84.26	0.65	25	17	1.30		
90	91.24	0.60	25	16	1.20		
100	102.47	0.50	24	14	1.00		
110	112.90	0.40	24	13	1.00		
120	120.20	0.50	28	12	1.00		
30	32.33	2.46	356	45	4.91	3	57
38	38.14	1.64	279	38	3.27		
43	42.48	1.64	311	34	3.27		

Daya yang tersedia & Torsi keluar



NOMINAL RATIO	ACTUAL RATIO	INPUT POWER (HP)	OUTPUT TORQUE (kgm)	OUTPUT (RPM)	S.F	STAGE	TYPE
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0.5HP

120	123.20	0.56	32	12	1.12	3	67
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0.75HP

4	4.05	1.95	4	358	2.60	2	17
5	4.99	1.79	4	291	2.39		
7.5	7.44	1.45	5	195	1.93		
10	10.04	1.25	6	144	1.67		
12.5	12.65	1.10	7	115	1.47		
15	15.02	1.00	8	97	1.33		
4	4.20	4.30	8	345	5.73		
5	4.88	3.50	8	297	4.67		
7	6.84	3.40	11	212	4.53		
10	10.42	2.50	12	139	3.33		
13	12.68	2.40	14	114	3.20	2	37
15	15.75	2.10	16	92	2.80		
20	19.95	1.60	15	73	2.13		
25	24.50	1.10	13	59	1.47		
20	20.99	2.30	22	69	3.07		
25	24.81	1.60	18	58	2.13		
30	30.18	1.40	19	48	1.87		
35	32.51	1.40	21	45	1.87		
40	39.27	1.10	20	37	1.47		
45	46.07	0.95	20	31	1.27	3	37
50	49.28	0.93	21	29	1.24		
55	57.20	0.83	22	25	1.11		
15	14.27	3.00	20	102	4.00		
18	18.37	2.00	17	79	2.67		
20	20.36	1.80	17	71	2.40		
23	23.02	1.70	19	63	2.27		
20	22.30	3.30	34	65	4.40		
25	25.38	2.50	29	57	3.33		
30	30.44	2.10	29	48	2.80	3	47
35	35.46	1.90	31	41	2.53		
40	39.26	1.80	33	37	2.40		
45	47.66	1.40	31	30	1.87		
50	49.45	1.00	23	29	1.33		
55	55.56	1.20	31	26	1.60		
60	60.16	1.10	30	24	1.47		
70	72.29	0.80	27	20	1.07		
20	20.96	3.68	352	69	4.91		
24	23.55	3.41	366	62	4.55	2	57
25	25.27	3.27	374	57	4.36		
23	22.81	3.14	318	64	4.18		
25	25.40	2.86	328	57	3.82		
28	27.61	2.73	338	53	3.64		
30	32.33	2.46	356	45	3.27		
38	38.14	1.64	279	38	2.18		
43	42.48	1.64	311	34	2.18		
45	46.18	1.64	338	31	2.18		
55	54.07	1.64	396	27	2.18		
60	60.21	1.64	441	24	2.18	3	57
65	64.84	1.50	441	22	2.00		
70	72.56	1.36	441	20	1.82		
80	79.65	1.24	441	18	1.65		
83	82.45	1.20	441	18	1.60		
90	91.91	1.08	441	16	1.44		
100	101.77	0.97	441	14	1.29		
110	112.90	0.87	441	13	1.16		
130	129.16	0.76	441	11	1.02		
20	18.79	3.20	29	77	4.27	2	67
25	26.40	2.10	26	55	2.80		
15	16.34	6.20	47	89	8.27		
20	19.71	5.50	50	74	7.33		
25	25.51	4.30	51	57	5.73		
30	30.17	3.50	49	48	4.67		
35	34.25	2.90	46	42	3.87		
40	41.29	2.50	48	35	3.33		
45	46.13	2.00	42	31	2.67		
50	50.82	2.10	49	29	2.80	3	67
55	55.61	1.50	38	26	2.00		
60	59.29	1.80	49	24	2.40		
70	68.44	1.20	38	21	1.60		
80	79.85	1.10	40	18	1.47		
90	84.79	1.00	39	17	1.33		
100	98.82	0.80	36	15	1.07		
30	31.94	3.80	56	45	5.07		
35	33.98	3.50	55	43	4.67		
40	40.81	3.20	60	36	4.27		

NOMINAL RATIO	ACTUAL RATIO	INPUT POWER (HP)	OUTPUT TORQUE (kgm)	OUTPUT (RPM)	S.F	STAGE	TYPE
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0.75HP

45	44.46	3.10	63	33	4.13	3	77
50	50.25	2.80	65	29	3.73		
55	52.92	2.60	63	27	3.47		
60	63.05	2.00	58	23	2.67		
70	70.75	1.70	55	20	2.27		
80	79.23	1.30	47	18	1.73		
90	92.40	1.20	51	16	1.60		
100	101.24	1.00	47	14	1.33		
110	105.99	1.00	49	14	1.33		
120	116.13	1.00	53	12	1.33		
90	92.13	3.50	148	16	4.67	3	87
100	100.70	3.00	139	14	4.00		
110	107.20	3.00	148	14	4.00		
120	117.17	3.00	162	12	4.00		

1HP

4	4.05	1.95	4	358	1.95	2	17
5	4.99	1.79	4	291	1.79		
7.5	7.44	1.45	5	195	1.45		
10	10.04	1.25	6	144	1.25		
12.5	12.65	1.10	7	115	1.10		
15	15.02	1.00	8	97	1.00		
4	4.20	4.30	8	345	4.30		
5	4.88	3.50	8	297	3.50		
7	6.84	3.40	11	212	3.40		
10	10.42	2.50	12	139	2.50		
13	12.68	2.40	14	114	2.40	2	37
15	15.75	2.10	16	92	2.10		
20	19.95	1.60	15	73	1.60		
25	24.50	1.10	13	59	1.10		
20	20.99	2.30	22	69	2.30		
25	24.81	1.60	18	58	1.60		
30	30.18	1.40	19	48	1.40		
35	32.51	1.40	21	45	1.40		
40	39.27	1.10	20	37	1.10		
4	4.05	9.30	18	358	9.30	2	47
5	5.66	7.00	19	256	7.00		
7	6.79	6.70	22	214	6.70		
10	9.96	5.00	24	146	5.00		
15	14.27	3.00	20	102	3.00		
18	18.37	2.00	17	79	2.00		
20	20.36	1.80	17	71	1.80		
23	23.02	1.70	19	63	1.70		
20	22.30	3.30	34	65	3.30	3	47
25	25.38	2.50	29	57	2.50		
30	30.44	2.10	29	48	2.10		
35	35.46	1.90	31	41	1.90		
40	39.26	1.80	33	37	1.80		
45	47.66	1.40	31	30	1.40		
50	49.45	1.00	23	29	1.00		
55	55.56	1.20	31	26	1.20		
60	60.16	1.10	30	24	1.10		
16	15.53	4.50	319	93	4.50	2	57
19	18.80	3.96	339	77	3.96		
20	20.96	3.68	352	69	3.68		
24	23.55	3.41	366	62	3.41		
25	25.27	3.27	374	57	3.27		
23							



Daya yang tersedia & Torsi keluar

NOMINAL RATIO	ACTUAL RATIO	INPUT POWER (HP)	OUTPUT TORQUE (kgm)	OUTPUT (RPM)	S.F	STAGE	TYPE
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1HP

30	30.17	3.50	49	48	3.50	3	67
35	34.25	2.90	46	42	2.90		
40	41.29	2.50	48	35	2.50		
45	46.13	2.00	42	31	2.00		
50	50.82	2.10	49	29	2.10		
55	55.61	1.50	38	26	1.50		
60	59.29	1.80	49	24	1.80		
70	68.44	1.20	38	21	1.20		
80	79.85	1.10	40	18	1.10		
90	84.79	1.00	39	17	1.00		
20	21.27	4.50	45	68	4.50	2	77
23	23.31	4.00	44	62	4.00		
25	24.05	3.00	34	60	3.00		
15	14.95	7.50	52	97	7.50		
20	20.33	6.00	56	71	6.00		
25	25.97	5.20	62	56	5.20	3	77
30	31.94	3.80	56	45	3.80		
35	33.98	3.50	55	43	3.50		
40	40.81	3.20	60	36	3.20		
45	44.46	3.10	63	33	3.10		
50	50.25	2.80	65	29	2.80		
55	52.92	2.60	63	27	2.60		
60	63.05	2.00	58	23	2.00		
70	70.75	1.70	55	20	1.70		
80	79.23	1.30	47	18	1.30		
90	92.40	1.20	51	16	1.20	3	87
100	101.24	1.00	47	14	1.00		
110	105.99	1.00	49	14	1.00		
120	116.13	1.00	53	12	1.00		
50	50.35	5.30	123	29	5.30		
55	57.74	5.20	138	25	5.20		
60	61.99	5.50	157	23	5.50		
70	72.13	5.00	166	20	5.00		
80	80.06	5.00	184	18	5.00		
90	92.13	3.50	148	16	3.50		
100	100.70	3.00	139	14	3.00		
110	107.20	3.00	148	14	3.00		
120	117.17	3.00	162	12	3.00		

1.5HP

4	4.20	4.30	8	345	2.87	2	37
5	4.88	3.50	8	297	2.33		
7	6.84	3.40	11	212	2.27		
10	10.42	2.50	12	139	1.67		
13	12.68	2.40	14	114	1.60		
15	15.75	2.10	16	92	1.40		
20	19.95	1.60	15	73	1.07		
20	20.99	2.30	22	69	1.53		
25	24.81	1.60	18	58	1.07		
4	4.05	9.30	18	358	6.20		
5	5.66	7.00	19	256	4.67	2	47
7	6.79	6.70	22	214	4.47		
10	9.96	5.00	24	146	3.33		
15	14.27	3.00	20	102	2.00		
18	18.37	2.00	17	79	1.33		
20	20.36	1.80	17	71	1.20		
23	23.02	1.70	19	63	1.13		
20	22.30	3.30	34	65	2.20		
25	25.38	2.50	29	57	1.67		
30	30.44	2.10	29	48	1.40		
35	35.46	1.90	31	41	1.27		
40	39.26	1.80	33	37	1.20		
4	4.06	9.55	178	357	6.37		
5	4.93	8.32	190	294	5.55		
7	6.89	6.68	213	210	4.46		
8	8.24	6.82	258	176	4.55		
12	11.53	5.46	288	126	3.64		
16	15.53	4.50	319	93	3.00		
19	18.80	3.96	339	77	2.64		
20	20.96	3.68	352	69	2.46		
24	23.55	3.41	366	62	2.27		
25	25.27	3.27	374	57	2.18		
23	22.81	3.14	318	64	2.09	3	57
25	25.40	2.86	328	57	1.91		
28	27.61	2.73	338	53	1.82		
30	32.33	2.46	356	45	1.64		
38	38.14	1.64	279	38	1.09		
43	42.48	1.64	311	34	1.09		

NOMINAL RATIO	ACTUAL RATIO	INPUT POWER (HP)	OUTPUT TORQUE (kgm)	OUTPUT (RPM)	S.F	STAGE	TYPE
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1.5HP

45	46.18	1.64	338	31	1.09	3	57
55	54.07	1.64	396	27	1.09		
60	60.21	1.64	441	24	1.09		
65	64.84	1.50	441	22	1.00		
10	10.05	6.40	31	144	4.27		
13	12.53	5.10	30	116	3.40		
15	15.07	4.50	32	96	3.00		
20	18.79	3.20	29	77	2.13		
25	26.40	2.10	26	55	1.40		
15	16.34	6.20	47	89	4.13		
20	19.71	5.50	50	74	3.67	3	67
25	25.51	4.30	51	57	2.87		
30	30.17	3.50	49	48	2.33		
35	34.25	2.90	46	42	1.93		
40	41.29	2.50	48	35	1.67		
45	46.13	2.00	42	31	1.33		
50	50.82	2.10	49	29	1.40		
55	55.61	1.50	38	26	1.00		
60	59.29	1.80	49	24	1.20		
15	14.83	6.10	43	98	4.07		
20	21.27	4.50	45	68	3.00	2	77
23	23.31	4.00	44	62	2.67		
25	24.05	3.00	34	60	2.00		
15	14.95	7.50	52	97	5.00		
20	20.33	6.00	56	71	4.00		
25	25.97	5.20	62	56	3.47		
30	31.94	3.80	56	45	2.53		
35	33.98	3.50	55	43	2.33		
40	40.81	3.20	60	36	2.13		
45	44.46	3.10	63	33	2.07		
50	50.25	2.80	65	29	1.87	3	87
55	52.92	2.60	63	27	1.73		
60	63.05	2.00	58	23	1.33		
70	70.75	1.70	55	20	1.13		
20	19.83	7.0	66	73	4.67		
23	22.83	4.5	49	64	3.00		
20	21.56	13.3	132	67	8.87		
25	27.50	8.7	110	53	5.80		
30	29.90	8.8	121	48	5.87		
35	34.47	8.5	135	42	5.67		
40	38.78	6.4	114	37	4.27	2	47
45	45.12	6.2	129	32	4.13		
50	50.35	5.3	123	29	3.53		
55	57.74	5.2	138	25	3.47		
60	61.99	5.5	157	23	3.67		
70	72.13	5.0	166	20	3.33		
80	80.06	5.0	184	18	3.33		
90	92.13	3.5	148	16	2.33		
100	100.70	3.0	139	14	2.00		
110	107.20	3.0	148	14	2.00		
120	117.17	3.0	162	12	2.00		
4	4.20	4.30	8	345	2.15	2	37
5	4.88	3.50	8	297	1.75		
7	6.84	3.40	11	212	1.70		
10	10.42	2.50	12	139	1.25		
13	12.68	2.40	14	114	1.20		
15	15.75	2.10	16	92	1.05		
20	20.99	2.30	22	69	1.15		
4	4.05	9.30	18	358	4.65		
5	5.66	7.00	19	256	3.50		
7	6.79	6.70	22	214	3.35		
10	9.96	5.					

Daya yang tersedia & Torsi keluar



NOMINAL RATIO	ACTUAL RATIO	INPUT POWER (HP)	OUTPUT TORQUE (kgm)	OUTPUT (RPM)	S.F	STAGE	TYPE
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2HP

25	25.27	3.27	374	57	1.64	2	57
23	22.81	3.14	318	64	1.57	3	57
25	25.40	2.86	328	57	1.43		
28	27.61	2.73	338	53	1.36		
30	32.33	2.46	356	45	1.23	2	67
4	3.96	11.50	22	366	5.75		
5	5.23	8.30	21	277	4.15		
8	7.46	7.70	27	194	3.85		
10	10.05	6.40	31	144	3.20		
13	12.53	5.10	30	116	2.55		
15	15.07	4.50	32	96	2.25		
20	18.79	3.20	29	77	1.60		
25	26.4	2.10	26	55	1.05		
15	16.34	6.20	47	89	3.10		
20	19.71	5.50	50	74	2.75	3	67
25	25.51	4.30	51	57	2.15		
30	30.17	3.50	49	48	1.75		
35	34.25	2.90	46	42	1.45		
40	41.29	2.50	48	35	1.25		
45	46.13	2.00	42	31	1.00		
50	50.82	2.10	49	29	1.05		
4	4.03	12.30	23	360	6.15		
5	4.78	9.50	22	303	4.75		
7	6.65	9.00	28	218	4.5		
10	9.96	8.70	41	146	4.35	2	77
13	13.54	7.20	46	107	3.6		
15	14.83	6.10	43	98	3.05		
20	21.27	4.50	45	68	2.25		
23	23.31	4.00	44	62	2		
25	24.05	3.00	34	60	1.5		
15	14.95	7.50	52	97	3.75		
20	20.33	6.00	56	71	3		
25	25.97	5.20	62	56	2.6		
30	31.94	3.80	56	45	1.9	3	77
35	33.98	3.50	55	43	1.75		
40	40.81	3.20	60	36	1.6		
45	44.46	3.10	63	33	1.55		
50	50.25	2.80	65	29	1.4		
55	52.92	2.60	63	27	1.3		
60	63.05	2.00	58	23	1		
20	19.83	7.0	66	73	3.50		
23	22.83	4.5	49	64	2.25		
20	21.56	13.3	132	67	6.65	2	87
25	27.50	8.7	110	53	4.35		
30	29.90	8.8	121	48	4.40		
35	34.47	8.5	135	42	4.25		
40	38.78	6.4	114	37	3.20		
45	45.12	6.2	129	32	3.10		
50	50.35	5.3	123	29	2.65		
55	57.74	5.2	138	25	2.60		
60	61.99	5.5	157	23	2.75		
70	72.13	5.0	166	20	2.50	3	87
80	80.06	5.0	184	18	2.50		
90	92.13	3.5	148	16	1.75		
100	100.70	3.0	139	14	1.50		
110	107.20	3.0	148	14	1.50		
120	117.17	3.0	162	12	1.50		

3HP

4	4.05	9.30	18	358	3.10	2	47
5	5.66	7.00	19	256	2.33		
7	6.79	6.70	22	214	2.23		
10	9.96	5.00	24	146	1.67	3	57
15	14.27	3.00	20	102	1.00		
20	22.3	3.30	34	65	1.10		
4	4.06	9.55	178	357	3.18		
5	4.93	8.32	190	294	2.77		
7	6.89	6.68	213	210	2.23		
8	8.24	6.82	258	176	2.27		
12	11.53	5.46	288	126	1.82		
16	15.53	4.50	319	93	1.50		
19	18.80	3.96	339	77	1.32		
20	20.96	3.68	352	69	1.23		
24	23.55	3.41	366	62	1.14		
25	25.27	3.27	374	57	1.09		
23	22.81	3.14	318	64	1.05	3	57
4	3.96	11.50	22	366	3.83	2	67
5	5.23	8.30	21	277	2.77		

NOMINAL RATIO	ACTUAL RATIO	INPUT POWER (HP)	OUTPUT TORQUE (kgm)	OUTPUT (RPM)	S.F	STAGE	TYPE
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3HP

8	7.46	7.70	27	194	2.57	2	67
10	10.05	6.40	31	144	2.13		
13	12.53	5.10	30	116	1.70		
15	15.07	4.50	32	96	1.50		
20	18.79	3.20	29	77	1.07	3	67
15	16.34	6.20	47	89	2.07		
20	19.71	5.50	50	74	1.83		
25	25.51	4.30	51	57	1.43		
30	30.17	3.50	49	48	1.17		
4	4.03	12.30	23	360	4.10	2	77
5	4.78	9.50	22	303	3.17		
7	6.65	9.00	28	218	3.00		
10	9.96	8.70	41	146	2.90		
13	12.53	5.10	30	116	2.55		
15	15.07	4.50	32	96	2.25		
20	18.79	3.20	29	77	1.60		
25	26.4	2.10	26	55	1.05		
15	16.34	6.20	47	89	3.10		
20	19.71	5.50	50	74	2.75		
25	25.51	4.30	51	57	2.15		
30	30.17	3.50	49	48	1.75	3	77
35	34.25	2.90	46	42	1.45		
40	41.29	2.50	48	35	1.25		
45	46.13	2.00	42	31	1.00		
50	50.82	2.10	49	29	1.05		
4	4.03	12.30	23	360	6.15		
5	4.78	9.50	22	303	4.75		
7	6.65	9.00	28	218	4.5		
10	9.96	8.70	41	146	4.35		
13	13.54	7.20	46	107	3.6		
15	14.83	6.10	43	98	3.05	2	87
20	21.27	4.50	45	68	2.25		
23	23.31	4.00	44	62	2		
25	24.05	3.00	34	60	1.5		
15	14.95	7.50	52	97	3.75		
20	20.33	6.00	56	71	3		
25	25.97	5.20	62	56	2.6		
30	31.94	3.80	56	45	1.9		
35	33.98	3.50	55	43	1.75		
40	40.81	3.20	60	36	1.25	3	87
45	44.46	3.10	63	33	1.55		
50	50.25	2.80	65	29	1.4		
55	52.92	2.60	63	27	1.3		
60	63.05	2.00	58	23	1		
20	19.83	7.0	66	73	3.50		
23	22.83	4.5	49	64	2.25		
20	21.56	13.3	132	67	6.65		
25	27.50	8.7	110	53	4.35		
30	29.90	8.80	121	48	2.93		
35	34.47	8.50	135	42	2.83	2	97
40	38.78	6.40	114	37	2.13		
45	45.12	6.2	129	32	2.07		
50	50.35	5.3	123	29	1.77		
55	57.74	5.2	138	25	1.73		
60	61.99	5.5	157	23	1.77		
70	72.13	5.0	166	20	2.50		
80	80.06	5.0	184	18	2.50		
90	92.13	3.5	148	16	1.75		
100	100.70	3.0	139	14	1.50		
110	107.20	3.0	148	14	1.50		



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NOMINAL RATIO	ACTUAL RATIO	INPUT POWER (HP)	OUTPUT TORQUE (kgm)	OUTPUT (RPM)	S.F	STAGE	TYPE
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4HP

20	19.71	5.50	50	74	1.38	3	67
25	25.51	4.30	51	57	1.08		
4	4.03	12.30	23	360	3.08	2	77
5	4.78	9.50	22	303	2.38		
7	6.65	9.00	28	218	2.25	3	77
10	9.96	8.70	41	146	2.18		
13	13.54	7.20	46	107	1.80	2	87
15	14.83	6.10	43	98	1.53		
20	21.27	4.50	45	68	1.13	3	87
23	23.31	4.00	44	62	1.00		
15	14.95	7.50	52	97	1.88	2	87
20	20.33	6.00	56	71	1.50		
25	25.97	5.20	62	56	1.30	3	97
4	4.06	29.00	55	357	7.25		
5	5.02	23.80	57	289	5.95	2	87
8	8.03	21.00	80	181	5.25		
10	10.37	20.70	102	140	5.18	3	87
15	15.29	12.10	88	95	2.20		
18	18.15	7.80	67	80	1.42	2	97
20	19.83	7.00	66	73	1.75		
23	22.83	4.50	49	64	1.13	3	87
20	21.56	13.30	132	67	3.33		
25	27.50	8.70	110	53	2.18	2	97
30	29.90	8.80	121	48	2.20		
35	34.47	8.50	135	42	2.13	3	87
40	38.78	6.40	114	37	1.60		
45	45.12	6.20	129	32	1.55	2	97
50	50.35	5.30	123	29	1.33		
55	57.74	5.20	138	25	1.30	3	87
60	61.99	5.50	157	23	1.38		
70	72.13	5.00	166	20	1.25	2	107
80	80.06	5.00	184	18	1.25		
15	15.26	15.00	109	95	3.75	3	97
17	16.75	12.00	95	87	3.00		
20	20.92	7.10	70	69	1.78	2	97
23	22.96	6.40	70	63	1.60		
15	15.32	35.00	247	95	8.75	3	97
20	19.69	33.00	299	74	8.25		
25	24.63	23.50	266	59	5.88	2	107
30	28.33	22.30	291	51	5.58		
35	35.72	15.80	260	41	3.95	3	97
40	38.36	15.00	265	38	3.75		
45	44.72	12.30	253	32	3.08	2	107
50	48.03	11.30	250	30	2.83		
55	55.42	10.00	255	26	2.50	3	97
60	60.82	7.50	210	24	1.88		
70	69.95	7.50	241	21	1.88	2	107
80	81.51	7.50	281	18	1.88		
90	89.29	5.00	205	16	1.25	3	97
100	101.79	5.00	234	14	1.25		
110	111.71	5.00	257	13	1.25	2	107
120	115.43	5.00	265	13	1.25		

5.5HP

4	4.05	9.30	18	358	1.69	2	47
5	5.66	7.00	19	256	1.27		
7	6.79	6.70	22	214	1.22	3	67
10	9.96	5.00	24	146	0.91		
4	4.06	9.55	178	357	1.74	2	57
5	4.93	8.32	190	294	1.51		
7	6.89	6.68	213	210	1.22	3	67
8	8.24	6.82	258	176	1.24		
4	3.96	11.50	22	366	2.09	2	77
5	5.23	8.30	21	277	1.51		
8	7.46	7.70	27	194	1.40	3	67
10	10.05	6.40	31	144	1.16		
15	16.34	6.20	47	89	1.13	2	77
20	19.71	5.50	50	74	1.00		
4	4.03	12.30	23	360	2.24	3	77
5	4.78	9.50	22	303	1.73		
7	6.65	9.00	28	218	1.64	2	87
10	9.96	8.70	41	146	1.58		
13	13.54	7.20	46	107	1.31	3	87
15	14.83	6.10	43	98	1.11		
15	14.95	7.50	52	97	1.36	2	87
20	20.33	6.00	56	71	1.09		
4	4.06	29.00	55	357	5.27	2	87
5	5.02	23.80	57	289	4.33		

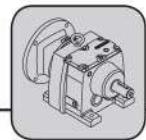
NOMINAL RATIO	ACTUAL RATIO	INPUT POWER (HP)	OUTPUT TORQUE (kgm)	OUTPUT (RPM)	S.F	STAGE	TYPE
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5.5HP

8	8.03	21.00	80	181	3.82	2	87
10	10.37	20.70	102	140	3.76		
15	15.29	12.10	88	95	2.20	3	87
18	18.15	7.80	67	80	1.42		
20	19.83	7.00	66	73	1.27	2	97
21	21.56	13.30	132	67	2.42		
25	27.50	8.70	110	53	1.58	3	97
30	29.90	8.80	121	48	1.60		
35	34.47	8.50	135	42	1.55	2	97
40	38.78	6.40	114	37	1.16		
45	45.12	6.20	129	32	1.13	3	97
50	50.35	5.30	123	29	0.96		
55	57.74	5.20	138	25	0.95	2	107
60	61.99	5.50	157	23	1.00		
13	13.38	21.50	136	108	3.91	3	97
15	15.26	15.00	109	95	2.73		
17	16.75	12.00	95	87	2.18	2	107
20	20.92	7.10	70	69	1.29		
23	22.96	6.40	70	63	1.16	3	97
15	15.32	35.00	247	95	6.36		
20	19.69	33.00	299	74	6.00	2	107
25	24.63	23.50	266	59	4.27		
30	28.33	22.30	291	51	4.05	3	97
35	35.72	15.80	260	41	2.87		
40	38.36	15.00	265	38	2.73	2	107
45	44.72	12.30	253	32	2.24		
50	48.03	11.30	250	30	2.05	3	97
55	55.42	10.00	255	26	1.82		
60	60.82	7.50	210	21	1.36	2	107
25	24.4	24.00	278	59	4.36		
40	39.52	25.50	464	37	4.64	3	97
45	44.50	22.50	461	33	4.09		
50	53.00	20.00	488	27	3.64	2	107
55	53.71	17.50	432	27	3.18		
60	62.90	16.00	463	23	2.91	3	97
70	68.27	13.00	408	21	2.36		
80	79.95	12.50	460	18	2.27	2	107
90	86.50	12.50	497	17	2.27		
100	103.02	11.50	545	14	2.09	3	97
110	106.76	10.50	516	14	1.91		
120	115.50	10.50	558	13	1.91	2	107

4	4.03	12.30	23	360	1.64	2	77
5	4.78	9.50	22	303	1.27		

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NOMINAL RATIO	ACTUAL RATIO	INPUT POWER (HP)	OUTPUT TORQUE (kgm)	OUTPUT (RPM)	S.F	STAGE	TYPE
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7.5HP

70	69.95	7.50	241	21	1.00	3	97
80	81.51	7.50	281	18	1.00		
4	4.00	70.00	126	363	9.33	2	107
5	4.50	66.00	141	322	8.80		
10	10.44	57.00	312	139	7.60	3	107
15	14.38	34.00	232	101	4.53		
20	21.77	24.00	248	67	3.20	3	107
25	24.40	24.00	278	59	3.20		
15	13.09	44.00	265	111	5.87	3	107
20	21.79	42.00	421	67	5.60		
25	25.52	34.50	405	57	4.60	3	107
30	29.23	31.00	417	50	4.13		
35	34.23	27.00	425	42	3.60	3	107
40	39.52	25.50	464	37	3.40		
45	44.50	22.50	461	33	3.00	3	107
50	53.00	20.00	488	27	2.67		
55	53.71	17.50	432	27	2.33	3	107
60	62.90	16.00	463	23	2.13		
70	68.27	13.00	408	21	1.73	3	107
80	79.95	12.50	460	18	1.67		
90	86.50	12.50	497	17	1.67	3	107
100	103.02	11.50	545	14	1.53		
110	106.76	10.50	516	14	1.40	3	107
120	115.50	10.50	558	13	1.40		
60	59.14	25.00	599	25	3.33	3	107
70	70.35	20.00	647	21	2.67		
80	79.05	20.00	727	18	2.67	3	107
90	91.63	16.00	674	16	2.13		
100	99.66	15.00	688	15	2.00	3	107
110	107.80	15.00	744	13	2.00		
120	117.25	15.00	809	12	2.00	3	107
100	99.44	25.70	1160	15	3.43		
110	109.03	23.00	1160	13	3.07	3	107
120	117.29	21.00	1160	12	2.80		

10HP

4	4.06	29.00	55	357	2.90	2	87
5	5.02	23.80	57	289	2.38		
8	8.03	21.00	80	181	2.10	3	87
10	10.37	20.70	102	140	2.07		
15	15.29	12.10	88	95	1.21	3	87
20	21.56	13.30	132	67	1.33		
4	4.00	50.00	94	363	5.00	2	97
5	5.42	37.00	95	268	3.70		
7	7.34	36.00	125	198	3.60	2	97
10	9.74	34.50	159	149	3.45		
13	13.38	21.50	136	108	2.15	3	97
15	15.26	15.00	109	95	1.50		
17	16.75	12.00	95	87	1.20	3	97
15	15.32	35.00	247	95	3.50		
20	19.69	33.00	299	74	3.30	3	97
25	24.63	23.50	266	59	2.35		
30	28.33	22.30	291	51	2.23	3	97
35	35.72	15.80	260	41	1.58		
40	38.36	15.00	265	38	1.50	2	107
45	44.72	12.30	253	32	1.23		
50	48.03	11.30	250	30	1.13	2	107
55	55.42	10.00	255	26	1.00		
4	4.00	70.00	126	363	7.00	2	107
5	4.50	66.00	141	322	6.60		
10	10.44	57.00	312	139	5.70	2	107
15	14.38	34.00	232	101	3.40		
20	21.77	24.00	248	67	2.40	3	107
25	24.40	24.00	278	59	2.40		
15	13.09	44.00	265	111	4.40	3	107
20	21.79	42.00	421	67	4.20		
25	25.52	34.50	405	57	3.45	3	107
30	29.23	31.00	417	50	3.10		
35	34.23	27.00	425	42	2.70	3	107
40	39.52	25.50	464	37	2.55		
45	44.50	22.50	461	33	2.25	3	107
50	53.00	20.00	488	27	2.00		
55	53.71	17.50	432	27	1.75	3	107
60	62.90	16.00	463	23	1.60		
70	68.27	13.00	408	21	1.30	3	107
80	79.95	12.50	460	18	1.25		
90	86.50	12.50	497	17	1.25	3	107
100	103.02	11.50	545	14	1.15		

NOMINAL RATIO	ACTUAL RATIO	INPUT POWER (HP)	OUTPUT TORQUE (kgm)	OUTPUT (RPM)	S.F	STAGE	TYPE
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10HP

110	106.76	10.50	516	14	1.05	3	107
120	115.50	10.50	558	13	1.05		
20	21.56	28.00	286	67	2.80	2	137
23	23.45	25.00	278	62	2.50		
15	14.60	91.00	611	99	9.10	3	137
20	20.68	77.00	732	70	7.70		
25	24.24	68.00	758	60	6.80	3	137
30	32.81	52.50	792	44	5.25		
35	35.39	43.00	700	41	4.30	3	137
40	43.25	41.00	816	34	4.10		
45	44.49	31.00	634	33	3.10	3	137
50	50.13	32.00	738	29	3.20		
55	54.38	27.50	663	27	2.75	3	137
60	59.14	25.00	599	25	2.50		
70	70.35	20.00	647	21	2.00	3	137
80	79.05	20.00	727	18	2.00		
90	91.63	16.00	674	16	1.60	3	137
100	99.66	15.00	688	15	1.50		
110	107.80	15.00	744	13	1.50	3	137
120	117.25	15.00	809	12	1.50		
60	60.38	42.30	1160	24	4.23	3	137
70	70.80	36.10	1160	20	3.61		
80	83.30	30.70	1160	17	3.07	3	137
90	89.86	28.40	1160	16	2.84		
100	99.44	25.70	1160	15	2.57	3	137
110	109.03	23.00	1160	13	2.30		
120	117.29	21.00	1160	12	2.10	3	137

4	4.06	29.00	55	357	1.93	2	87
5	5.02	23.80	57	289	1.59		
8	8.03	21.00	80	181	1.40	3	97
10	10.37	20.70	102	140	2.07		
15	15.29	12.10	88	95	1.21	3	97
20	21.56	13.30	132	67	1.33		
4	4.00	50.00	94	363	5.00	2	97
5	5.42	37.00	95	268	3.70		
7	7.34	36.00	125	198	3.60	2	97
10	9.74	34.50	159	149	3.45		
13	13.38	21.50	136	108	2.15	3	97
15	15.26	15.00	109	95	1.50		
17	16.75	12.00	95	87	1.20	3	97
15	15.						



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NOMINAL RATIO	ACTUAL RATIO	INPUT POWER (HP)	OUTPUT TORQUE (kgm)	OUTPUT (RPM)	S.F	STAGE	TYPE
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15HP

100	99.66	15.00	688	15	1.00	3	137
110	107.8	15.00	744	13	1.00		
120	117.25	15.00	809	12	1.00		
40	41.70	61.30	1160	35	4.09		
45	44.98	56.80	1160	32	3.79		
50	50.49	50.60	1160	29	3.37		
60	60.38	42.30	1160	24	2.82		
70	70.80	36.10	1160	20	2.41		
80	83.30	30.70	1160	17	2.05		
90	89.86	28.40	1160	16	1.89		
100	99.44	25.70	1160	15	1.71		
110	109.03	23.00	1160	13	1.53		
120	117.29	21.00	1160	12	1.40		
60	60.56	64.40	1770	24	4.29	3	147
70	69.80	55.80	1770	21	3.72		
80	80.58	48.40	1770	18	3.23		
90	88.17	44.20	1770	16	2.95		
100	101.64	38.30	1770	14	2.55		
110	109.89	35.50	1770	13	2.37		
120	121.56	32.10	1770	12	2.14		
140	139.60	27.90	1770	10	1.86		
160	158.37	24.60	1770	9	1.64		
170	169.42	23.00	1770	9	1.53		
180	178.17	21.90	1770	8	1.46		

20HP

4	4.00	50.00	94	363	2.50	2	97
5	5.42	37.00	95	268	1.85		
7	7.34	36.00	125	198	1.80		
10	9.74	34.50	159	149	1.73		
13	13.38	21.50	136	108	1.08		
15	15.32	35.00	247	95	1.75		
20	19.69	33.00	299	74	1.65		
25	24.63	23.50	266	59	1.18		
30	28.33	22.30	291	51	1.12		
4	4.00	70.00	126	363	3.50		
5	4.50	66.00	141	322	3.30	2	107
10	10.44	57.00	312	139	2.85		
15	14.38	34.00	232	101	1.70		
20	21.77	24.00	248	67	1.20		
25	24.40	24.00	278	59	1.20		
15	13.09	44.00	265	111	2.20		
20	21.79	42.00	421	67	2.10		
25	25.52	34.50	405	57	1.73		
30	29.23	31.00	417	50	1.55		
35	34.23	27.00	425	42	1.35		
40	39.52	25.50	464	37	1.28	3	107
45	44.50	22.50	461	33	1.13		
50	53.00	20.00	488	27	1.00		
4	4.04	117.00	214	359	5.85		
5	4.87	98.00	226	298	4.90		
8	8.05	97.00	370	180	4.85		
10	10.12	93.00	446	143	4.65		
13	13.75	65.00	424	105	3.25		
15	14.96	61.00	433	97	3.05		
17	17.15	34.00	277	85	1.70		
20	21.56	28.00	286	67	1.40		
23	23.45	25.00	278	62	1.25		
15	14.6	91.00	611	99	4.55		
20	20.68	77.00	732	70	3.85	2	137
25	24.24	68.00	758	60	3.40		
30	32.81	52.50	792	44	2.10		
35	35.39	43.00	700	41	1.72		
40	43.25	41.00	816	34	1.64		
45	44.49	31.00	634	33	1.24		
50	50.13	32.00	738	29	1.28		
55	54.38	27.50	663	27	1.10		
60	59.14	25.00	599	25	1.00		
20	19.82	114.00	1060	73	4.56		
20	19.99	117.90	1070	73	4.72	3	147
25	25.27	97.60	1120	57	3.90		
30	30.23	84.50	1160	48	3.38		
35	35.44	72.10	1160	41	2.88		
40	41.70	61.30	1160	35	2.45		
45	44.98	56.80	1160	32	2.27		
50	50.49	50.60	1160	29	2.02		
60	60.38	42.30	1160	24	1.69		
70	70.80	36.10	1160	20	1.44		
80	83.30	30.70	1160	17	1.23		
90	89.86	28.40	1160	16	1.14		
100	99.44	25.70	1160	15	1.03		
40	43.86	88.90	1770	33	3.56	3	167
50	48.52	80.30	1770	30	3.21		
55	53.92	72.30	1770	27	2.89		
60	60.56	64.40	1770	24	2.58		
70	69.80	55.80	1770	21	2.23		
80	80.58	48.40	1770	18	1.94		
90	88.17	44.20	1770	16	1.77		
100	101.64	38.30	1770	14	1.53		
110	109.89	35.50	1770	13	1.42		

NOMINAL RATIO	ACTUAL RATIO	INPUT POWER (HP)	OUTPUT TORQUE (kgm)	OUTPUT (RPM)	S.F	STAGE	TYPE
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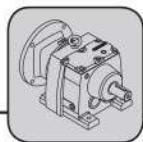
20HP

70	70.80	36.10	1160	20	1.81	3	147
80	83.30	30.70	1160	17	1.54		
90	89.86	28.40	1160	16	1.42		
100	99.44	25.70	1160	15	1.29		
110	109.03	23.00	1160	13	1.15		
120	117.29	21.00	1160	12	1.05		
50	48.52	80.30	1770	30	4.02		
55	53.92	72.30	1770	27	3.62		
60	60.56	64.40	1770	24	3.22		
70	69.80	55.80	1770	21	2.79		
80	80.58	48.40	1770	18	2.42		
90	88.17	44.20	1770	16	2.21		
100	101.64	38.30	1770	14	1.92		
110	109.89	35.50	1770	13	1.78		
120	121.56	32.10	1770	12	1.61		
140	139.60	27.90	1770	10	1.40		
160	158.37	24.60	1770	9	1.23		
170	169.42	23.00	1770	9	1.15		
180	178.17	21.90	1770	8	1.10		

25HP

4	4	50.00	94	363	2.00	2	97
5	5.42	37.00	95	268	1.48		
7	7.34	36.00	125	198	1.44		
10	9.74	34.50	159	149	1.38		
13	13.38	21.50	136	108	1.08		
15	15.32	35.00	247	95	1.75		
20	19.69	33.00	299	74	1.32		
25	24.63	23.50	266	59	1.18		
30	29.23	31.00	417	50	1.55		
35	34.23	27.00	425	42	1.35		
40	39.52	25.50	464	37	1.28	3	107
45	44.48	22.00	461	33	1.13		
50	53.00	20.00	488	27	1.00		
4	4.04	117.00	214	359	5.85		
5	4.87	98.00	226	298	4.90		
8	8.05	97.00	370	180	4.85		
10	10.12	93.00	446	143	4.65		

Daya yang tersedia & Torsi keluar



NOMINAL RATIO	ACTUAL RATIO	INPUT POWER (HP)	OUTPUT TORQUE (kgm)	OUTPUT (RPM)	S.F	STAGE	TYPE
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25HP

120	121.56	32.10	1770	12	1.28	3	167
140	139.60	27.90	1770	10	1.12		

30HP

4	4.00	50.00	94	363	1.67	2	97
5	5.42	37.00	95	268	1.23		
7	7.34	36.00	125	198	1.20	3	97
10	9.74	34.50	159	149	1.15		
15	15.32	35.00	247	95	1.17	2	107
20	19.69	33.00	299	74	1.10		
4	4.00	70.00	126	363	2.33	3	107
5	4.50	66.00	141	322	2.20		
10	10.44	57.00	312	139	1.90	3	107
15	14.38	34.00	232	101	1.13		
15	13.09	44.00	265	111	1.47	2	137
20	21.79	42.00	421	67	1.40		
25	25.52	34.50	405	57	1.15	3	137
30	29.23	31.00	417	50	1.03		
4	4.04	117.00	214	359	3.90	2	137
5	4.87	98.00	226	298	3.27		
8	8.05	97.00	370	180	3.23	3	137
10	10.12	93.00	446	143	3.10		
13	13.75	65.00	424	105	2.17	2	147
15	14.96	61.00	433	97	2.03		
17	17.15	34.00	277	85	1.13	3	137
15	14.60	91.00	611	99	3.03		
20	20.68	77.00	732	70	2.57	2	147
25	24.24	68.00	758	60	2.27		
30	32.81	52.50	792	44	1.75	3	137
35	35.39	43.00	700	41	1.43		
40	43.25	41.00	816	34	1.37	2	147
45	44.49	31.00	634	33	1.03		
50	50.13	32.00	738	29	1.07	3	137
15	15.62	150.00	1100	93	5.00		
20	19.82	114.00	1060	73	3.80	2	147
20	19.99	117.90	1070	73	3.93		
25	25.27	97.60	1120	57	3.25	3	147
30	30.23	84.50	1160	48	2.82		
35	35.44	72.10	1160	41	2.40	2	147
40	41.70	61.30	1160	35	2.04		
45	44.98	56.80	1160	32	1.89	3	167
50	50.49	50.60	1160	29	1.69		
60	60.38	42.30	1160	24	1.41	2	167
70	70.80	36.10	1160	20	1.20		
80	83.30	30.70	1160	17	1.02	3	167
40	43.86	88.90	1770	33	2.96		
50	48.52	80.30	1770	30	2.68	2	167
55	53.92	72.30	1770	27	2.41		
60	60.56	64.40	1770	24	2.15	3	167
70	69.80	55.80	1770	21	1.86		
80	80.58	48.40	1770	18	1.61	2	167
90	88.17	44.20	1770	16	1.47		
100	101.64	38.30	1770	14	1.28	3	167
110	109.89	35.50	1770	13	1.18		
120	121.56	32.10	1770	12	1.07	2	167

40HP

4	4.00	70.00	126	363	1.75	2	107
5	4.50	66.00	141	322	1.65		
10	10.44	57.00	312	139	1.43	3	107
15	13.09	44.00	265	111	1.10		
20	21.79	42.00	421	67	1.05	2	137
4	4.04	117.00	214	359	2.93		
5	4.87	98.00	226	298	2.45	3	137
8	8.05	97.00	370	180	2.43		
10	10.12	93.00	446	143	2.33	2	147
13	13.75	65.00	424	105	1.63		
15	14.96	61.00	433	97	1.53	3	167
15	14.60	91.00	611	99	2.28		
20	20.68	77.00	732	70	1.93	2	167
25	24.24	68.00	758	60	1.70		
30	32.81	52.50	792	44	1.31	3	167
35	35.39	43.00	700	41	1.08		
40	43.25	41.00	816	34	1.03	2	167
15	15.62	150.00	1100	93	3.75		
20	19.82	114.00	1060	73	2.85	3	167
20	19.99	117.90	1070	73	2.95		
25	25.27	97.60	1120	57	2.44	2	167
30	30.23	84.50	1160	48	2.11		

NOMINAL RATIO	ACTUAL RATIO	INPUT POWER (HP)	OUTPUT TORQUE (kgm)	OUTPUT (RPM)	S.F	STAGE	TYPE
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40HP

35	35.44	72.10	1160	41	1.80	3	147
40	41.70	61.30	1160	35	1.53		
45	44.98	56.80	1160	32	1.42	3	167
50	50.49	50.60	1160	29	1.06		
60	60.38	42.30	1160	24	1.06	2	167
20	21.19	184.00	1770	68	4.60		
28	27.86	140.00	1770	52	3.50	3	167
35	35.19	111.00	1770	41	2.78		
40	43.86	88.90	1770	33	2.22	2	167
50	48.52	80.30	1770	30	2.01		
55	53.92	72.30	1770	27	1.81	3	167
60	60.56	64.40	1770	24	1.61		
70	69.80	55.80	1770	21	1.40	2	167
80	80.58	48.40	1770	18	1.21		
90	88.17	44.20	1770	16	1.11	3	167
100	101.64	38.30	1770	14	1.01		
110	109.89	35.50	1770	13	1.01	2	167
120	121.56	32.10	1770	12	1.01		

50HP

4	4.04	70.00	126	363	1.40	2	107
5	4.50	66.00	141	322	1.32		
10	10.44	57.00	312	139	1.14	3	137
13	13.75	65.00	424	105	1.08		
15	14.96	61.00	433	97	1.22	2	147
15	14.60	91.00	611	99	1.82		
20	20.68	77.00	732	70	1.54	3	137
25	24.24	68.00	758	60	1.36		
30	32.81	52.50	792	44	1.05	2	147
35	35.44	72.10	1160	41	1.44		
40	41.70	61.30	1160	35	1.23	3	147
45	44.98	56.80	1160	32	1.14		
50	50.49	50.60	1160	29	1.01	2	167
15	15.77	201.00	1480	92	4.02		
20	19.89	147.00	1370	73	2.94	3	167
25	23.78	98.00	1090	61	1.96		
20	21.19	184.00	1770	68	3.68	2	167
28	27.86	140.00	1770	52	2.80		
35	35.19	111.00	1770	41	2.22	3	



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NOMINAL RATIO	ACTUAL RATIO	INPUT POWER (HP)	OUTPUT TORQUE (kgm)	OUTPUT (RPM)	S.F	STAGE	TYPE
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60HP

15	15.77	201.00	1480	92	3.35	2	167
20	19.89	147.00	1370	73	2.45		
25	23.78	98.00	1090	61	1.63	3	167
20	21.19	184.00	1770	68	3.07		
28	27.86	140.00	1770	52	2.33	3	167
35	35.19	111.00	1770	41	1.85		
40	43.86	88.90	1770	33	1.48	3	167
50	48.52	80.30	1770	30	1.34		
55	53.92	72.30	1770	27	1.21	3	167
60	60.56	64.40	1770	24	1.07		

75HP

4	4.04	117.00	214	359	1.56	2	137
5	4.87	98.00	226	298	1.31		
8	8.05	97.00	370	180	1.29	3	137
10	10.12	93.00	446	143	1.24		
15	14.60	91.00	611	99	1.21	3	137
20	20.68	77.00	732	70	1.03		
4	4.16	396.00	770	349	5.28	2	147
5	5.00	342.00	800	290	4.56		
10	10.24	200.00	960	142	2.67	2	147
13	13.32	176.00	1100	109	2.35		
15	15.62	150.00	1100	93	2.00	2	147
20	19.82	114.00	1060	73	1.52		
20	19.99	117.90	1070	73	1.57	3	147
25	25.27	97.60	1120	57	1.30		
30	30.23	84.50	1160	48	1.13	2	167
4	3.93	527.00	970	369	7.03		
5	5.10	448.00	1070	284	5.97	2	167
10	10.39	282.00	1370	140	3.76		
13	13.66	277.00	1770	106	3.69	3	167
15	15.77	201.00	1480	92	2.68		
20	19.89	147.00	1370	73	1.96	3	167
25	23.78	98.00	1090	61	1.31		
20	21.19	184.00	1770	68	2.45	3	167
28	27.86	140.00	1770	52	1.87		
35	35.19	111.00	1770	41	1.48	3	167
40	43.86	88.90	1770	33	1.19		
50	48.52	80.30	1770	30	1.07	3	167

100HP

4	4.16	396.00	770	349	3.96	2	147
5	5.00	342.00	800	290	3.42		
10	10.24	200.00	960	142	2.00	3	147
13	13.32	176.00	1100	109	1.76		
15	15.62	150.00	1100	93	1.50	2	167
20	19.82	114.00	1060	73	1.14		
20	19.99	117.90	1070	73	1.18	3	167
4	3.93	527.00	970	369	5.27		
5	5	448.00	1070	284	4.48	2	167
10	10.39	282.00	1370	140	2.82		

NOMINAL RATIO	ACTUAL RATIO	INPUT POWER (HP)	OUTPUT TORQUE (kgm)	OUTPUT (RPM)	S.F	STAGE	TYPE
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100HP

13	13.66	277.00	1770	106	2.77	2	167
15	15.77	201.00	1480	92	2.01		
20	19.89	147.00	1370	73	1.47	3	167
25	23.78	98.00	1090	61	0.98		
20	21.19	184.00	1770	68	1.84	3	167
28	27.86	140.00	1770	52	1.40		
35	35.19	111.00	1770	41	1.11	3	167

125HP

4	4.16	396.00	770	349	3.17	2	147
5	5.00	342.00	800	290	2.74		
10	10.24	200.00	960	142	1.60	3	167
13	13.32	176.00	1100	109	1.41		
15	15.62	150.00	1100	93	1.20	2	167
4	3.93	527.00	970	369	4.22		
5	5.10	448.00	1070	284	3.58	2	167
10	10.39	282.00	1370	140	2.26		
13	13.66	277.00	1770	106	2.22	3	167
15	15.77	201.00	1480	92	1.61		
20	19.89	147.00	1370	73	1.18	2	167
20	21.19	184.00	1770	68	1.47		
28	27.86	140.00	1770	52	1.12	3	167

150HP

4	4.16	396.00	770	349	2.64	2	147
5	5.00	342.00	800	290	2.28		
10	10.24	200.00	960	142	1.33	3	167
13	13.32	176.00	1100	109	1.17		
4	3.93	527.00	970	369	3.51	2	167
5	5.10	448.00	1070	284	2.99		
10	10.39	282.00	1370	140	1.88	2	167
13	13.66	277.00	1770	106	1.85		
15	15.77	201.00	1480	92	1.34	3	167
20	21.19	184.00	1770	68	1.23		

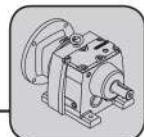
175HP

4	4.16	396.00	770	349	2.26	2	147
5	5.00	342.00	800	290	1.95		
10	10.24	200.00	960	142	1.14	3	167
4	3.93	527.00	970	369	3.01		
5	5.10	448.00	1070	284	2.56	2	167
10	10.39	282.00	1370	140	1.61		
13	13.66	277.00	1770	106	1.58	3	167
15	15.77	201.00	1480	92	1.15		
20	21.19	184.00	1770	68	1.05	3	167

200HP

4	4.16	396.00	770	349	1.98	2	147
5	5.00	342.00	800	290	1.71		
4	3.93	527.00	970	369	2.64	2	167
5	5.10	448.00	1070	284	2.24		
10	10.39	282.00	1370	140	1.41	3	167
13	13.66	277.00	1770	106	1.39		

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Actual Ratio	SIZE : 37-47				Max Output Torque Kgm	OHL Kg	Service Factor ; 1					
	Stage Table		1450 Input RPM				Selection Table of IEC Standard Motor					
	Stage	Nominal Ratio	Available Input HP	Output RPM			63	71	80	90		
37-47	37	47										
14416	33	120	120	0.005	0.10							
12289	33	120	100	0.006	0.12							
10880	33	110	100	0.006	0.13							
9882	33	100	100	0.007	0.15							
8670	33	120	70	0.008	0.17							
7676	33	110	70	0.009	0.19							
6613	33	90	70	0.011	0.22							
5732	33	80	70	0.012	0.25							
5030	33	70	70	0.014	0.29							
4360	33	90	45	0.016	0.33							
3113	33	80	40	0.022	0.47							
2811	33	80	35	0.025	0.52							
2467	33	70	35	0.028	0.59							
2220	32	100	23	0.031	0.65							
2106	32	90	23	0.032	0.69							
1825	32	80	23	0.037	0.79							
1601	32	70	23	0.043	0.91							
1457	32	80	18	0.047	1.00							
1278	32	70	18	0.053	1.13	30.61	459					
1101	32	60	18	0.062	1.32							
1051	32	55	18	0.065	1.38							
904	32	40	23	0.075	1.60							
846	32	45	18	0.08	1.71							
748	32	35	23	0.091	1.94							
695	32	30	23	0.098	2.09							
621	32	90	7	0.11	2.33							
554	32	30	18	0.123	2.62							
483	32	20	23	0.141	3.00							
406	22	20	20	0.164	3.57							
362	22	15	23	0.184	4.01							
292	22	13	23	0.228	4.97							
240	22	10	23	0.278	6.04							
191	22	10	18	0.349	7.59							
157	22	7	23	0.425	9.24							
135	22	20	7	0.494	10.74							
126	22	7	18	0.529	11.51							
107	22	15	7	0.623	13.55							

Actual Ratio	SIZE : 37-67				Max Output Torque Kgm	OHL Kg	Service Factor : 1					
	Stage Table		1450 Input RPM				Selection Table of IEC Standard Motor					
	Stage	Nominal Ratio	Available Input HP	Output RPM			63	71	80	90		
37-67	37	67										
14775	33	120	120	0.009	0.10							
12665	33	120	110	0.011	0.11							
11212	33	110	110	0.012	0.13							
10158	33	120	90	0.014	0.14							
9577	33	120	80	0.015	0.15							
8478	33	110	80	0.016	0.17							
7748	33	90	90	0.018	0.19							
6331	33	80	80	0.022	0.23							
5427	33	80	70	0.026	0.27							
4219	33	90	45	0.033	0.34							
3133	33	90	35	0.044	0.46							
2716	33	80	35	0.051	0.53							
2383	33	70	35	0.058	0.61							
2254	32	120	20	0.06	0.64							
1995	32	110	20	0.068	0.73							
1837	32	70	25	0.074	0.79							
1600	32	110	15	0.085	0.91							
1510	32	55	25	0.09	0.96							
1301	32	50	25	0.105	1.11							
1216	32	45	25	0.112	1.19							
1124	32	110	10	0.121	1.29							
1049	32	70	15	0.13	1.38							
918	32	70	13	0.148	1.58							
858	32	35	25	0.159	1.69							
743	32	50	15	0.183	1.95							
655	32	25	25	0.208	2.21							
518	32	40	13	0.263	2.80							
429	32	35	13	0.317	3.38							
375	22	20	20	0.356	3.87							
301	22	20	15	0.443	4.82							
259	22	25	10	0.515	5.60							
197	22	15	13	0.641	7.36							
181	22	7	25	0.737	8.01							
167	22	15	10	0.799	8.68							
134	22	13	10	0.995	10.82							
124	22	15	8	1.076	11.69							

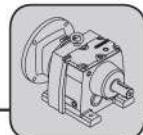


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Actual Ratio	Stage Table			1450 Input RPM		Max Output Torque Kgm	OHL Kg	Service Factor : 1					
	Stage	Nominal Ratio		Available Input HP	Output RPM			Selection Table of IEC Standard Motor					
		37-77	37					63	71	80	90		
13927	33	120	120	0.013	0.10								
12711	33	120	110	0.014	0.11								
11253	33	110	110	0.016	0.13								
10749	33	110	100	0.017	0.13								
9764	33	100	100	0.018	0.15								
8911	33	100	90	0.02	0.16								
7641	33	100	80	0.023	0.19								
6823	33	100	70	0.026	0.21								
5610	33	80	70	0.032	0.26								
4922	33	70	70	0.036	0.29								
4067	33	90	45	0.044	0.36								
3608	33	110	35	0.049	0.40								
3236	33	80	40	0.055	0.45								
3027	33	55	55	0.059	0.48								
2694	33	80	35	0.066	0.54								
2376	33	90	25	0.075	0.61								
2200	32	90	25	0.079	0.66								
1848	32	80	23	0.095	0.78								
1622	32	70	23	0.108	0.89								
1392	32	60	23	0.125	1.04								
1238	32	90	13	0.141	1.17								
1108	32	45	25	0.158	1.31								
1073	32	80	13	0.163	1.35								
911	32	90	10	0.192	1.59								
812	32	60	13	0.215	1.79								
667	32	50	13	0.262	2.17								
597	32	25	25	0.293	2.43								
462	32	70	7	0.378	3.14								
409	32	30	13	0.427	3.55								
336	22	25	13	0.51	4.32								
284	22	20	13	0.603	5.11								
213	22	15	13	0.804	6.81								
172	22	13	13	0.995	8.43								
157	22	15	10	1.09	9.24								
126	22	13	10	1.359	11.51								

Actual Ratio	Stage Table			1450 Input RPM		Max Output Torque Kgm	OHL Kg	Service Factor : 1					
	Stage	Nominal Ratio		Available Input HP	Output RPM			Selection Table of IEC Standard Motor					
		47-87	47					63	71	80	90		
14084	33	120	120	0.025	0.10								
12885	33	120	110	0.028	0.11								
12006	33	100	120	0.03	0.12								
11074	33	120	90	0.32	0.13								
10319	33	100	100	0.035	0.14								
9033	33	80	110	0.04	0.16								
8203	33	100	80	0.044	0.18								
7304	33	90	80	0.049	0.20								
6137	33	110	55	0.058	0.24								
5301	33	50	110	0.068	0.27								
4816	33	60	80	0.075	0.30								
4209	33	40	110	0.085	0.34								
3729	33	60	60	0.096	0.39								
3267	33	35	90	0.110	0.44								
2855	33	50	55	0.126	0.51								
2507	33	55	45	0.143	0.58								
2231	33	50	45	0.161	0.65								
2083	32	90	23	0.169	0.70								
1923	32	80	23	0.183	0.75								
1656	32	90	18	0.212	0.88								
1529	32	80	18	0.23	0.95								
1434	32	70	20	0.245	1.01								
1373	32	60	23	0.256	1.06								
1268	32	55	23	0.277	1.14								
1129	32	50	23	0.312	1.28								
1008	32	55	18	0.349	1.44								
920	32	60	15	0.382	1.58								
809	32	35	23	0.435	1.79								
695	32	30	23	0.506	2.09								
604	32	30	20	0.583	2.40								
509	32	20	23	0.691	2.85								
419	22	18	23	0.822	3.46								
333	22	18	18	1.034	4.35								
259	22	15	18	1.331	5.60								
190	22	18	10	1.809	7.63								
148	22	15	10	2.328	9.80								
123	22	7	18	2.798	11.80								

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Actual Ratio	Stage Table			1450 Input RPM		Max Output Torque Kgm	OHL Kg	Service Factor : 1							
	Stage	Nominal Ratio		Available Input HP	Output RPM			Selection Table of IEC Standard Motor							
		47	97					63	71	80	90	100	112		
	47-77	47	97												
13875	33	120	120	0.050	0.10										
12270	33	110	120	0.057	0.12										
10820	33	110	100	0.064	0.13										
9798	33	120	80	0.071	0.15										
8345	33	70	120	0.083	0.17										
7311	33	120	60	0.095	0.20										
6413	33	55	120	0.108	0.23										
5891	33	110	55	0.117	0.25										
5106	33	110	50	0.136	0.28										
4583	33	100	45	0.151	0.32										
4081	33	90	45	0.17	0.36										
3472	33	70	50	0.200	0.42										
3010	33	80	35	0.230	0.48										
2485	33	55	45	0.279	0.58										
2013	32	120	17	0.338	0.72										
1834	32	120	15	0.371	0.79										
1622	32	110	15	0.419	0.89										
1422	32	110	13	0.478	1.02										
1211	32	70	17	0.562	1.20										
1008	32	60	17	0.675	1.44										
930	32	55	17	0.731	1.56										
848	32	55	15	0.802	1.71										
755	32	50	15	0.902	1.92										
661	32	50	13	1.029	2.19										
594	32	35	17	1.146	2.44										
510	32	30	17	1.335	2.84										
422	22	18	23	1.581	3.44										
384	22	18	20	1.735	3.78										
328	22	15	23	2.035	4.42										
280	22	18	15	2.379	5.18										
218	22	15	15	3.062	6.65										
179	22	18	10	3.726	8.10										
139	22	15	10	4.796	10.43										

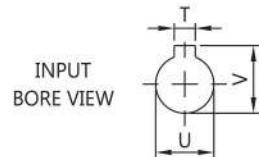
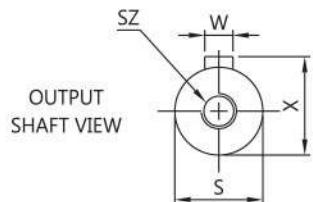
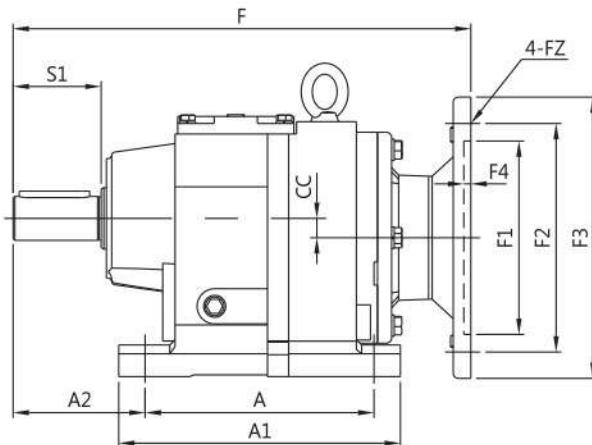
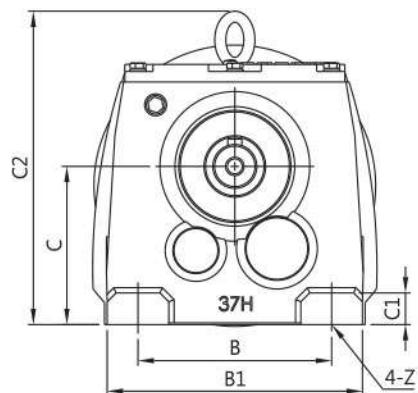
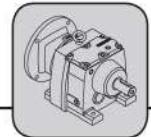
Actual Ratio	Stage Table			1450 Input RPM		Max Output Torque Kgm	OHL Kg	Service Factor : 1							
	Stage	Nominal Ratio		Available Input HP	Output RPM			Selection Table of IEC Standard Motor							
		77	107					80	90	100	112	132			
	77-107														
13412	33	120	120	0.070	0.11										
12242	33	110	120	0.070	0.12										
13315	33	110	110	0.080	0.11										
10044	33	120	90	0.090	0.14										
9167	33	110	90	0.100	0.16										
8094	33	100	80	0.110	0.18										
7235	33	110	70	0.120	0.20										
6667	33	110	60	0.130	0.22										
5812	33	90	60	0.150	0.25										
5041	33	60	80	0.180	0.29										
4577	33	55	90	0.19	0.32										
4017	33	50	80	0.220	0.36										
3554	33	45	80	0.250	0.41										
2939	33	35	90	0.300	0.49										
2388	33	45	50	0.370	0.61										
2016	23	23	90	0.430	0.72										
1840	23	20	90	0.470	0.79										
1591	23	23	70	0.540	0.91										
1252	23	23	55	0.690	1.16										
1085	32	45	25	0.800	1.34										
968	32	45	20	0.900	1.50										
829	32	35	25	1.050	1.75										
740	32	35	20	1.170	1.96										
634	32	25	25	1.370	2.29										
565	32	25	20	1.530	2.57										
496	32	20	25	1.750	2.92										
442	32	20	20	1.960	3.28										
306	22	20	15	2.780	4.74										
243	22	23	10	3.500	5.97										
195	22	13	15	4.370	7.44										
143	22	10	15	5.940	10.14										



Daya yang tersedia & Torsi keluar

Actual Ratio	Stage Table		1450 Input RPM		Max Output Torque Kgm	OHL Kg	Service Factor : 1					
	Stage	Nominal Ratio	Available Input HP	Output RPM			Selection Table of IEC Standard Motor					
			77-137	77	137		80	90	100	112	132	
13616	33	120	0.130	0.11								
12427	33	110	0.140	0.12								
11426	33	110	0.150	0.13								
10090	33	100	0.170	0.14								
9180	33	120	0.190	0.16								
8003	33	100	0.210	0.18								
7260	33	80	0.240	0.20								
6483	33	70	0.260	0.22								
5777	33	60	0.300	0.25								
5023	33	120	0.340	0.29								
4605	33	50	0.370	0.31								
4183	33	55	0.410	0.35								
3428	33	60	0.500	0.42								
2805	33	60	0.610	0.52								
2417	33	45	0.710	0.60								
2136	23	23	0.790	0.68								
1843	23	23	0.910	0.79								
1459	23	13	1.150	0.99								
1241	23	13	1.350	1.17								
1044	23	15	1.610	1.39								
913	23	10	1.840	1.59								
807	23	15	2.080	1.80								
717	23	7	2.340	2.02								
609	23	7	2.760	2.38								
515	23	5	3.260	2.82								
438	23	5	3.840	3.31								
348	22	23	4.730	4.17								
292	22	13	5.640	4.97								
232	22	13	7.090	6.25								
171	22	10	9.630	8.48								
137	22	10	12.010	10.58								

Actual Ratio	Stage Table		1450 Input RPM		Max Output Torque Kgm	OHL Kg	Service Factor : 1					
	Stage	Nominal Ratio	Available Input HP	Output RPM			Selection Table of IEC Standard Motor					
			87-147	87	147		90	100	112	132S	132M	160
13743	33	120	0.170	0.11								
12573	33	110	0.180	0.12								
11688	33	110	0.200	0.12								
10660	33	110	0.220	0.14								
10014	33	100	0.230	0.14								
9049	33	100	0.260	0.16								
8279	33	90	0.280	0.18								
7194	33	80	0.320	0.20								
6080	33	100	0.380	0.24								
5571	33	60	0.420	0.26								
5107	33	70	0.450	0.28								
4524	33	50	0.510	0.32								
4088	33	55	0.570	0.35								
3565	33	50	0.650	0.41								
3040	33	50	0.760	0.48								
2686	33	30	0.860	0.54								
2117	33	30	1.090	0.68								
1793	23	15	1.290	0.81								
1374	23	15	1.690	1.06								
1083	23	15	2.140	1.34								
772	23	15	3.000	1.88								
626	23	10	3.700	2.32								
524	23	10	4.430	2.77								
405	23	8	5.710	3.58								
361	23	8	6.410	4.02								
303	23	5	7.640	4.79								
243	23	8	9.540	5.97								
207	23	10	11.180	7.00								
178	23	5	13.010	8.15								
146	22	10	15.820	9.93								



MHF	A	A1	A2	B	B1	C	C1	C2	CC	Z	OUTPUT SHAFT					
											S	S1	W	X	SZ	Oil (L)
17	110	131	58	110	135	75	12	135	6.5	9	20k6	40	6	22.5	M6*15L	0.24
37	130	160	75	110	145	90	18	178	11	9	25k6	50	8	28	M10*20L	0.3
47	165	195	90	135	170	115	24	217	13.5	14	30k6	60	8	33	M10*20L	0.7
57	165	200	100	135	190	115	24	217	16	14	35k6	70	10	38	M12*24L	0.8
67	195	235	100	150	210	130	30	249	17	14	35k6	70	10	38	M12*24L	1.1
77	205	245	115	170	230	140	30	266	16	18	40k6	80	12	43	M16*32L	1.2
87	260	310	140	215	290	180	45	335	18	18	50k6	100	14	53.5	M16*32L	2.3
97	310	365	160	250	340	225	55	416	20	22	60m6	120	18	64	M20*40L	4.6
107	370	440	185	290	400	250	65	465	23	26	70m6	140	20	74.5	M20*40L	6
137	410	490	220	340	450	315	70	550	35	33	90m6	170	25	95	M24*48L	10
147	500	590	260	380	530	355	80	635	52	39	110m6	210	28	116	M24*48L	15.4
167	580	670	270	500	660	425	100	750	77	39	120m6	210	32	127	M24*48L	27

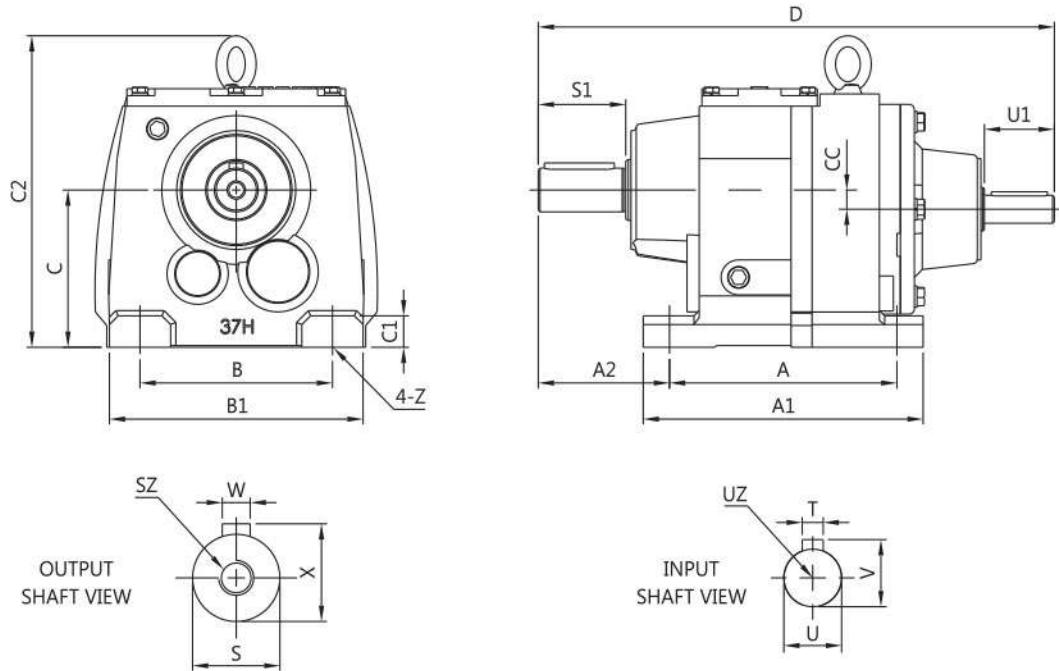
MHF	DIMENSION							
	HP	1/8 (B14)	1/4 (B14)	1/2 (B14)	1 (B14)			
17	F	212.5	212.5	212.5	227			
37	HP	1/4	1/2	1	2			
	F	260	260	278	278			
47	HP	1/2	1	2	3	5		
	F	287.5	305.5	305.5	322	322		
57	HP	1/2	1	2	3	5		
	F	287.5	305.5	305.5	322	322		
67	HP	1/2	1	2	3	5		
	F	325.5	343.5	343.5	360	360		
77	HP	1	2	3	5	7.5	10	
	F	361.5	361.5	378	378	426.5	426.5	
87	HP	2	3	5	7.5	10	15	
	F	437	438	438	486.5	486.5	522.5	
97	HP	5	7.5	10	15	20	25	30
	F	502	546.5	546.5	582.5	582.5	591.5	591.5
107	HP	5	7.5	10	15	20	25	30
	F	540.5	592	592	628	628	637	637
137	HP	10	15	20	25	30	40	50
	F	680	713	713	721	721	752	769
147	HP	15	20	25	30	40	50	75
	F	812	812	820	820	818	855	855
167	HP	20	25	30	40	50	60	75
	F	904	913	913	939	939	956	996

MHF	INPUT BORE				INPUT FLANGE				
	HP	U	V	T	F1	F2	F3	F4	FZ
17	1/8 (B14)	9	10.4	3	50	65	80	3	ø6
37	1/4 (B14)	11	13.3	5	60	75	90	3.5	ø6
47	1/2 (B14)	14	16.3	5	70	85	105	3.5	ø7
57	1 (B14)	19	21.8	6	80	100	120	4	ø7
67	1/4	11	12.8	4	95	115	140	4	M8
77	1/2	14	16.3	5	110	130	160	4	M8
87	1	19	21.8	6	130	165	200	5	M10
97	2	24	27.3	8	130	165	200	5	M10
107	3	28	31.3	8	180	215	250	5	M12
137	5	28	31.3	8	180	215	250	5	M12
147	7.5	38	41.3	10	230	265	300	6	M12
167	10	38	41.3	10	230	265	300	6	M12
107	15	42	45.3	12	250	300	350	6	M16
137	20	42	45.3	12	250	300	350	6	M16
147	25	48	51.8	14	250	300	350	6	M16
167	30	48	51.8	14	250	300	350	6	M16
107	40	55	59.3	16	300	350	400	6	M16
137	50	60	64.4	18	350	400	450	6	M16
147	60	60	64.4	18	350	400	450	6	M16
167	75	65	69.4	18	450	500	550	6	M16
107	100	75	79.95	20	450	500	550	6	M16
137	125	75	79.95	20	450	500	550	6	M16

unit : mm



MHD

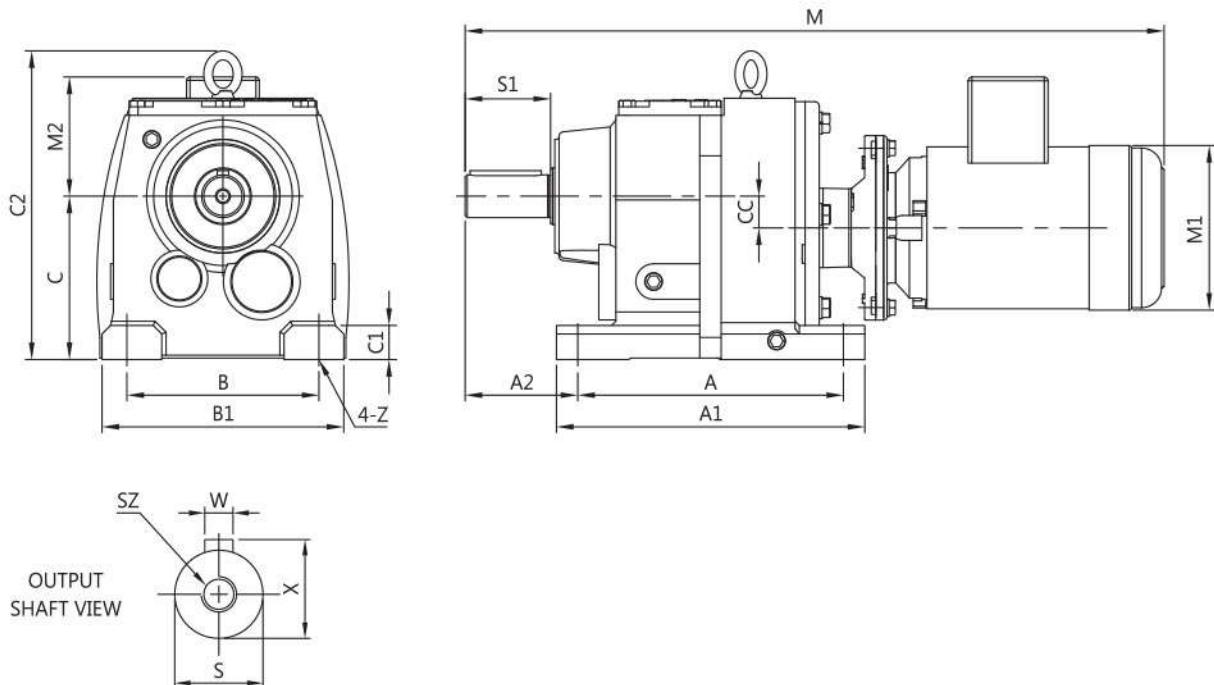
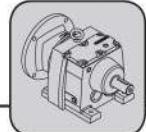


MHD	A	A1	A2	B	B1	C	C1	C2	CC	Z	OUTPUT SHAFT					
											S	S1	W	X	SZ	Oil (L)
17	110	131	58	110	135	75	12	135	6.5	9	20k6	40	6	22.5	M6*15L	0.24
37	130	160	75	110	145	90	18	178	11	9	25k6	50	8	28	M10*20L	0.3
47	165	195	90	135	170	115	24	217	13.5	14	30k6	60	8	33	M10*20L	0.7
57	165	200	100	135	190	115	24	217	16	14	35k6	70	10	38	M12*24L	0.8
67	195	235	100	150	210	130	30	249	17	14	35k6	70	10	38	M12*24L	1.1
77	205	245	115	170	230	140	30	266	16	18	40k6	80	12	43	M16*32L	1.2
87	260	310	140	215	290	180	45	335	18	18	50k6	100	14	53.5	M16*32L	2.3
97	310	365	160	250	340	225	55	416	20	22	60m6	120	18	64	M20*40L	4.6
107	370	440	185	290	400	250	65	465	23	26	70m6	140	20	74.5	M20*40L	6
137	410	490	220	340	450	315	70	550	35	33	90m6	170	25	95	M24*48L	10
147	500	590	260	380	530	355	80	635	52	39	110m6	210	28	116	M24*48L	15.4
167	580	670	270	500	660	425	100	750	77	39	120m6	210	32	127	M24*48L	27

MHD	DIMENSION					
	U	16				
17	D	255				
37	U	16	19			
	D	295	297.5			
47	U	16	19	24	28	
	D	322.5	325	335	370.5	
57	U	16	19	24		
	D	340.5	343	353		
67	U	19	19	24		
	D	374	387.5	398.5		
77	U	19	19*	24	28	38
	D	392	405.5	416.5	426.5	479.5
87	U	19	28	38	42	
	D	465.5	486.5	539.5	612.5	
97	U	28	38	42	48	
	D	550.5	599.5	672.5	677.5	
107	U	38	42	48	55	
	D	645	718	723	747	
137	U	42	48	48	55	
	D	803	807	831	849	
147	U	42	48	55	70	
	D	902.5	906.5	952.5	1016.5	
167	U	42	48	55	70	
	D	994	999	1036	1105.5	

INPUT SHAFT (SOLID)				
U	V	T	U1	UZ
16k6	18	5	40	M5*10L
19k6	21.5	6	40	M6*12L
24k6	27	8	50	M8*16L
28k6	31	8	60	M8*16L
38k6	41	10	80	M12*24L
42k6	45	12	110	M16*32L
48k6	51.5	14	110	M16*32L
55m6	59	16	110	M20*40L
70m6	74.5	20	140	M20*40L

unit : mm

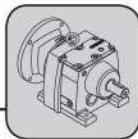


MHFM	A	A1	A2	B	B1	C	C1	C2	CC	Z	OUTPUT SHAFT					
											S	S1	W	X	SZ	Oil (L)
17	110	131	58	110	135	75	12	135	6.5	9	20k6	40	6	22.5	M6*15L	0.24
37	130	160	75	110	145	90	18	178	11	9	25k6	50	8	28	M10*20L	0.3
47	165	195	90	135	170	115	24	217	13.5	14	30k6	60	8	33	M10*20L	0.7
57	165	200	100	135	190	115	24	217	16	14	35k6	70	10	38	M12*24L	0.8
67	195	235	100	150	210	130	30	249	17	14	35k6	70	10	38	M12*24L	1.1
77	205	245	115	170	230	140	30	266	16	18	40k6	80	12	43	M16*32L	1.2
87	260	310	140	215	290	180	45	335	18	18	50k6	100	14	53.5	M16*32L	2.3
97	310	365	160	250	340	225	55	416	20	22	60m6	120	18	64	M20*40L	4.6
107	370	440	185	290	400	250	65	465	23	26	70m6	140	20	74.5	M20*40L	6
137	410	490	220	340	450	315	70	550	35	33	90m6	170	25	95	M24*48L	10
147	500	590	260	380	530	355	80	635	52	39	110m6	210	28	116	M24*48L	15.4
167	580	670	270	500	660	425	100	750	77	39	120m6	210	32	127	M24*48L	27

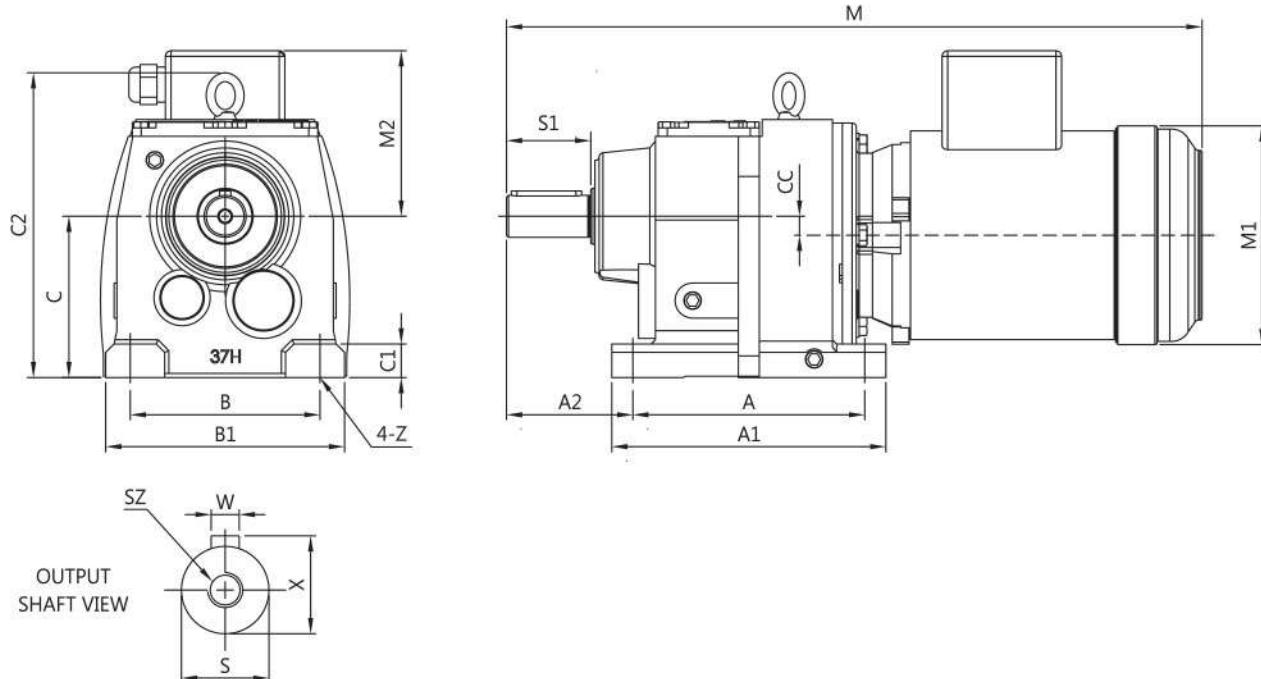
MHFM	DIMENSION							
	HP	1/8 (B14)	1/4 (B14)	1/2 (B14)	1 (B14)			
17	M	387.5	419.5	437.5	482			
37	HP	1/4	1/2	1	2			
	M	467	485	528	573			
47	HP	1/2	1	2	3	5		
	M	512.5	555.5	600.5	647	667		
57	HP	1/2	1	2	3	5		
	M	512.5	555.5	600.5	647	667		
67	HP	1/2	1	2	3	5		
	M	550.5	593.5	638.5	685	705		
77	HP	1	2	3	5	7.5	10	
	M	611.5	656.5	703	723	812	850	
87	HP	2	3	5	7.5	10	15	
	M	732	763	783	873.5	911.5	1018	
97	HP	5	7.5	10	15	20	25	30
	M	847	933.5	971.5	1078	1123	1169	1207
107	HP	7.5	10	15	20	25	30	40
	M	979	1017	1123	1168	1214	1252	1296
137	HP	15	20	25	30	40	50	60
	M	1208	1253	1298	1336	1380	1422	1447
147	HP	20	25	30	40	50	60	75
	M	1352	1397	1435	1477	1525	1550	1647
167	HP	25	30	40	50	60	75	100
	M	1490	1528	1572	1609	1634	1731	1840

DIMENSION MOTOR		
HP	M1	M2
1/8 (B14)	112	115.5
1/4 (B14)	112	115.5
1/2 (B14)	133	123.5
1 (B14)	156	131.5
1/4	120	108
1/2	136	116
1	160	127
2	176	139
3	198	149
5	220	167
7.5	258	188
10	258	188
15	334	286
20	334	286
25	382	350
30	382	350
40	450	355
50	505	375
60	505	375
75	536	415
100	620	450
125	620	450

unit : mm



MHM

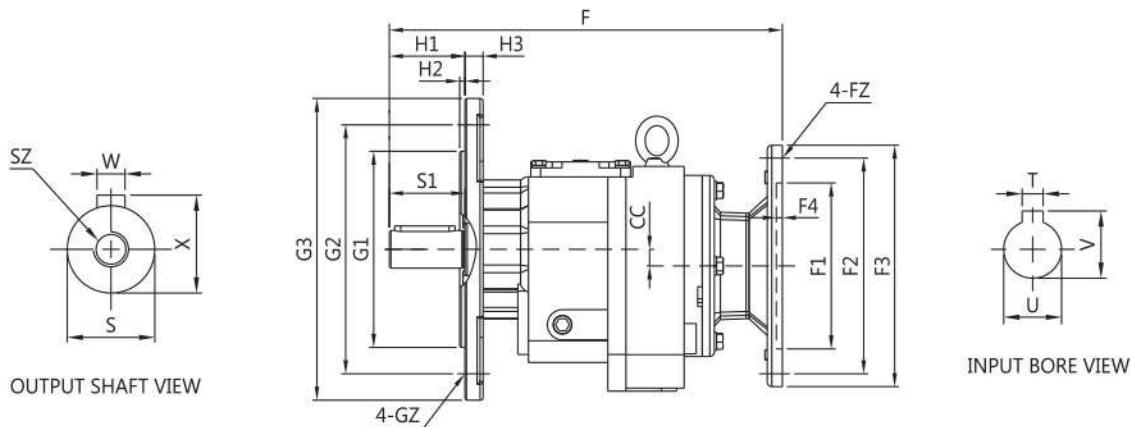
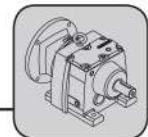


MHM	A	A1	A2	B	B1	C	C1	C2	CC	Z	OUTPUT SHAFT					
											S	S1	W	X	SZ	Oil (L)
17	110	131	58	110	135	75	12	135	6.5	9	20k6	40	6	22.5	M6*15L	0.24
37	130	160	75	110	145	90	18	178	11	9	25k6	50	8	28	M10*20L	0.3
47	165	195	90	135	170	115	24	217	13.5	14	30k6	60	8	33	M10*20L	0.7
57	165	200	100	135	190	115	24	217	16	14	35k6	70	10	38	M12*24L	0.8
67	195	235	100	150	210	130	30	249	17	14	35k6	70	10	38	M12*24L	1.1
77	205	245	115	170	230	140	30	266	16	18	40k6	80	12	43	M16*32L	1.2
87	260	310	140	215	290	180	45	335	18	18	50k6	100	14	53.5	M16*32L	2.3
97	310	365	160	250	340	225	55	416	20	22	60m6	120	18	64	M20*40L	4.6
107	370	440	185	290	400	250	65	465	23	26	70m6	140	20	74.5	M20*40L	6
137	410	490	220	340	450	315	70	550	35	33	90m6	170	25	95	M24*48L	10
147	500	590	260	380	530	355	80	635	52	39	110m6	210	28	116	M24*48L	15.4
167	580	670	270	500	660	425	100	750	77	39	120m6	210	32	127	M24*48L	27

MHM	DIMENSION									
	HP	1/8 (B14)	1/4 (B14)	1/2 (B14)	1 (B14)					
17	M	391	406	427	474					
37	HP	1/4	1/2	1	2					
	M	438.5	454.5	516	561.5					
47	HP	1/4	1/2	1	2	3	5			
	M	466	482	543.5	589	637	649			
57	HP	1/4	1/2	1	2	3	5			
	M	484	500	561.5	607	655	667			
67	HP	1/2	1	2	3	5				
	M	520	581.5	627	675	687				
77	HP	1	2	3	5	7.5	10			
	M	599.5	645	693	705	743.5	743.5			
87	HP	3	5	7.5	10	15				
	M	753	765	803.5	841.5	922				
97	HP	3	5	7.5	10	15	20	25	30	
	M	817	829	863.5	901.5	982	1026	1048	1048	
107	HP	7.5	10	15	20	25	30	40	50	60
	M	909	947	1028	1072	1093	1093	1131	1208	1208
137	HP	15	20	25	30	40	50	60		
	M	1112	1156	1177	1177	1215	1292	1292		
147	HP	15	20	25	30	40	50	60	75	100
	M	1212	1262	1335	1335	1415	1435	1460	1555	1615
167	HP	15	20	25	30	40	50	60	75	100
	M	1308	1358	1428	1428	1508	1528	1553	1648	1708
										150

DIMENSION MOTOR		
HP	M1	M2
1/8 (B14)	112	115.5
1/4 (B14)	112	115.5
1/2 (B14)	133	123.5
1 (B14)	156	131.5
1/4	120	108
1/2	136	116
1	160	127
2	176	139
3	198	149
5	220	167
7.5	258	188
10	258	188
15	334	286
20	334	286
25	382	350
30	382	350
40	450	355
50	505	375
60	505	375
75	536	415
100	620	450
125	620	450

unit : mm



MVF / MWF		G1	G2	G3	GZ	H1	H2	H3	CC	OUTPUT SHAFT					
										S	S1	W	X	SZ	Oil (L)
17	MVF	80j6	100	120	7	40	3	8	6.5	20k6	40	6	22.5	M6*15L	0.3
37	MVF	130h7	165	200	11	50	3.5	12	11	25k6	50	8	28	M10*20L	1.05
	MWF	110h7	130	160	9			10							
47	MVF	130h7	165	200	11	60	3.5	12	13.5	30k6	60	8	33	M10*20L	1.65
	MWF	110h7	130	160	9										
57	MVF	180h7	215	250	13.5	70	4	14	16	35k6	70	10	38	M12*24L	3.6
	MWF	130h7	165	200	11			3.5							
67	MVF	180h7	215	250	13.5	70	4	15	17	35k6	70	10	38	M12*24L	3.6
	MWF	130h7	165	200	11										
77	MVF	230h7	265	300	14	80	4	21	16	40k6	80	12	43	M16*32L	4.1
	MWF	180h7	215	250				12							
87	MVF	250h7	300	350	18	100	5	21	18	50k6	100	14	53.5	M16*32L	7.7
	MWF	230h7	265	300	14										
97	MVF	350h7	400	450	18	120	5	25	20	60m6	120	18	64	M20*40L	14
	MWF	250h7	300	350											
107	MVF	350h7	400	450	18	140	5	25	23	70m6	140	20	74.5	M20*40L	19.2
	MWF	250h7	300	350											
137	MVF	450h7	500	550	18	170	5	28	35	90m6	170	25	95	M24*48L	32.5
	MWF	350h7	400	450											
147	MVF	450h7	500	550	18	210	5	28	52	110m6	210	28	116	M24*48L	52
	MWF	350h7	400	450											
167	MVF	550h7	600	660	24	210	5	28	77	120m6	210	32	127	M24*48L	70

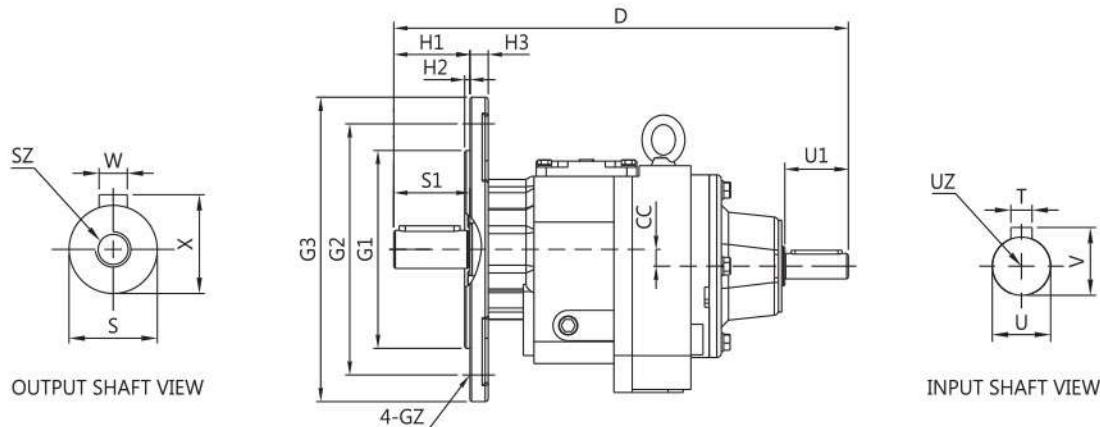
MVF / MWF		DIMENSION							
		HP	1/8 (B14)	1/4 (B14)	1/2 (B14)	1 (B14)			
17	MVF	F	212.5	212.5	212.5	227			
37	MVF	HP	1/4	1/2	1	2			
	MWF	F	260	260	278	278			
47	MVF	HP	1/2	1	2	3	5		
	MWF	F	287.5	305.5	305.5	322	322		
57	MVF	HP	1/2	1	2	3	5		
	MWF	F	287.5	305.5	305.5	322	322		
67	MVF	HP	1/2	1	2	3	5		
	MWF	F	325.5	343.5	343.5	360	360		
77	MVF	HP	1	2	3	5	7.5	10	
	MWF	F	361.5	361.5	378	378	426.5	426.5	
87	MVF	HP	2	3	5	7.5	10	15	
	MWF	F	437	438	438	486.5	486.5	522.5	
97	MVF	HP	5	7.5	10	15	20	25	30
	MWF	F	502	546.5	546.5	582.5	582.5	591.5	591.5
107	MVF	HP	7.5	10	15	20	25	30	40
	MWF	F	592	592	628	628	637	637	668
137	MVF	HP	15	20	25	30	40	50	60
	MWF	F	713	713	721	721	752	752	769
147	MVF	HP	20	25	30	40	50	60	75
	MWF	F	812	820	820	818	855	855	872
167	MVF	HP	20	25	30	40	50	60	75
	MWF	F	904	913	913	913	939	939	956

INPUT BORE		INPUT FLANGE								
		HP	U	V	T	F1	F2	F3	F4	FZ
1/8 (B14)	9	10.4	3	50	65	80	3	φ6		
1/4 (B14)	11	13.3	5	60	75	90	3.5	φ6		
1/2 (B14)	14	16.3	5	70	85	105	3.5	φ7		
1 (B14)	19	21.8	6	80	100	120	4	φ7		
1/4	11	12.8	4	95	115	140	4	M8		
1/2	14	16.3	5	110	130	160	4	M8		
1	19	21.8	6	130	165	200	5	M10		
2	24	27.3	8	130	165	200	5	M10		
3	28	31.3	8	180	215	250	5	M12		
5	28	31.3	8	180	215	250	5	M12		
7.5	38	41.3	10	230	265	300	6	M12		
10	38	41.3	10	230	265	300	6	M12		
15	42	45.3	12	250	300	350	6	M16		
20	42	45.3	12	250	300	350	6	M16		
25	48	51.8	14	250	300	350	6	M16		
30	48	51.8	14	250	300	350	6	M16		
40	55	59.3	16	300	350	400	6	M16		
50	60	64.4	18	350	400	450	6	M16		
60	60	64.4	18	350	400	450	6	M16		
75	65	69.4	18	450	500	550	6	M16		
100	75	79.95	20	450	500	550	6	M16		
125	75	79.95	20	450	500	550	6	M16		

unit : mm



MVD / MWD



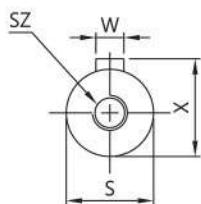
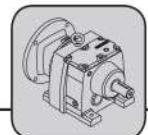
MVD / MWD		G1	G2	G3	GZ	H1	H2	H3	CC	OUTPUT SHAFT					
										S	S1	W	X	SZ	Oil (L)
17	MVD	80j6	100	120	7	40	3	8	6.5	20k6	40	6	22.5	M6*15L	0.3
37	MVD	130h7	165	200	11	50	3.5	12	11	25k6	50	8	28	M10*20L	1.05
	MWD	110h7	130	160	9			10							
47	MVD	130h7	165	200	11	60	3.5	12	13.5	30k6	60	8	33	M10*20L	1.65
	MWD	110h7	130	160	9										
57	MVD	180h7	215	250	13.5	70	4	14	16	35k6	70	10	38	M12*24L	3.6
	MWD	130h7	165	200	11										
67	MVD	180h7	215	250	13.5	70	4	15	17	35k6	70	10	38	M12*24L	3.6
	MWD	130h7	165	200	11										
77	MVD	230h7	265	300	14	80	4	21	16	40k6	80	12	43	M16*32L	4.1
	MWD	180h7	215	250	11										
87	MVD	250h7	300	350	18	100	5	21	18	50k6	100	14	53.5	M16*32L	7.7
	MWD	230h7	265	300	14										
97	MVD	350h7	400	450	18	120	5	25	20	60m6	120	18	64	M20*40L	14
	MWD	250h7	300	350	18										
107	MVD	350h7	400	450	18	140	5	25	23	70m6	140	20	74.5	M20*40L	19.2
	MWD	250h7	300	350	18										
137	MVD	450h7	500	550	18	170	5	28	35	90m6	170	25	95	M24*48L	32.5
	MWD	350h7	400	450	18										
147	MVD	450h7	500	550	18	210	5	28	52	110m6	210	28	116	M24*48L	52
	MWD	350h7	400	450	18										
167	MVD	550h7	600	660	24	210	5	28	77	120m6	210	32	127	M24*48L	70

MVD / MWD		DIMENSION					
		U	16				
17	MVD	D	255				
37	MVD	U	16	19			
	MWD	D	295	297.5			
47	MVD	U	16	19	24	28	
	MWD	D	322.5	325	335	370.5	
57	MVD	U	16	19	24		
	MWD	D	340.5	343	353		
67	MVD	U	19	19	24		
	MWD	D	374	387.5	398.5		
77	MVD	U	19	19*	24	28	38
	MWD	D	392	405.5	416.5	426.5	479.5
87	MVD	U	19	28	38	42	
	MWD	D	465.5	486.5	539.5	612.5	
97	MVD	U	28	38	42	48	
	MWD	D	550.5	599.5	672.5	677.5	
107	MVD	U	38	42	48	55	
	MWD	D	645	718	723	747	
137	MVD	U	42	48	48	55	
	MWD	D	803	807	831	849	
147	MVD	U	42	48	55	70	
	MWD	D	902.5	906.5	952.5	1016.5	
167	MVD	U	42	48	55	70	
		D	994	999	1036	1105.5	

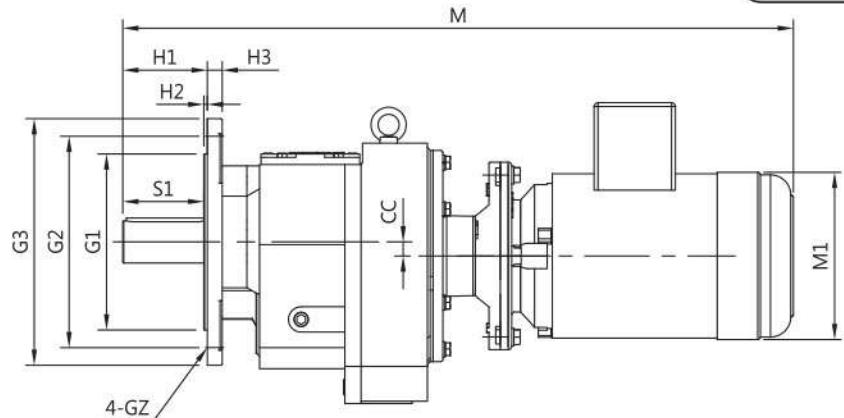
INPUT SHAFT (SOLID)				
U	V	T	U1	UZ
16k6	18	5	40	M5*10L
19k6	21.5	6	40	M6*12L
24k6	27	8	50	M8*16L
28k6	31	8	60	M8*16L
38k6	41	10	80	M12*24L
42k6	45	12	110	M16*32L
48k6	51.5	14	110	M16*32L
55m6	59	16	110	M20*40L
70m6	74.5	20	140	M20*40L

unit : mm

MVFM / MWFM



OUTPUT SHAFT VIEW



MVFM / MWFM	G1	G2	G3	GZ	H1	H2	H3	CC	OUTPUT SHAFT						
									S	S1	W	X	SZ	Oil (L)	
17	MVFM	80j6	100	120	7	40	3	8	6.5	20k6	40	6	22.5	M6*15L	0.3
37	MVFM	130h7	165	200	11	50	3.5	12	11	25k6	50	8	28	M10*20L	1.05
	MWFM	110h7	130	160	9			10							
47	MVFM	130h7	165	200	11	60	3.5	12	13.5	30k6	60	8	33	M10*20L	1.65
	MWFM	110h7	130	160	9			10							
57	MVFM	180h7	215	250	13.5	70	4	14	16	35k6	70	10	38	M12*24L	3.6
	MWFM	130h7	165	200	11			3.5							
67	MVFM	180h7	215	250	13.5	70	4	15	17	35k6	70	10	38	M12*24L	3.6
	MWFM	130h7	165	200	11			3.5							
77	MVFM	230h7	265	300	14	80	4	21	16	40k6	80	12	43	M16*32L	4.1
	MWFM	180h7	215	250				19							
87	MVFM	250h7	300	350	18	100	5	21	18	50k6	100	14	53.5	M16*32L	7.7
	MWFM	230h7	265	300	14			4							
97	MVFM	350h7	400	450	18	120	5	25	20	60m6	120	18	64	M20*40L	14
	MWFM	250h7	300	350				21							
107	MVFM	350h7	400	450	18	140	5	25	23	70m6	140	20	74.5	M20*40L	19.2
	MWFM	250h7	300	350				20							
137	MVFM	450h7	500	550	18	170	5	28	35	90m6	170	25	95	M24*48L	32.5
	MWFM	350h7	400	450				25							
147	MVFM	450h7	500	550	18	210	5	28	52	110m6	210	28	116	M24*48L	52
	MWFM	350h7	400	450				22							
167	MVFM	550h7	600	660	24	210	5	28	77	120m6	210	32	127	M24*48L	70

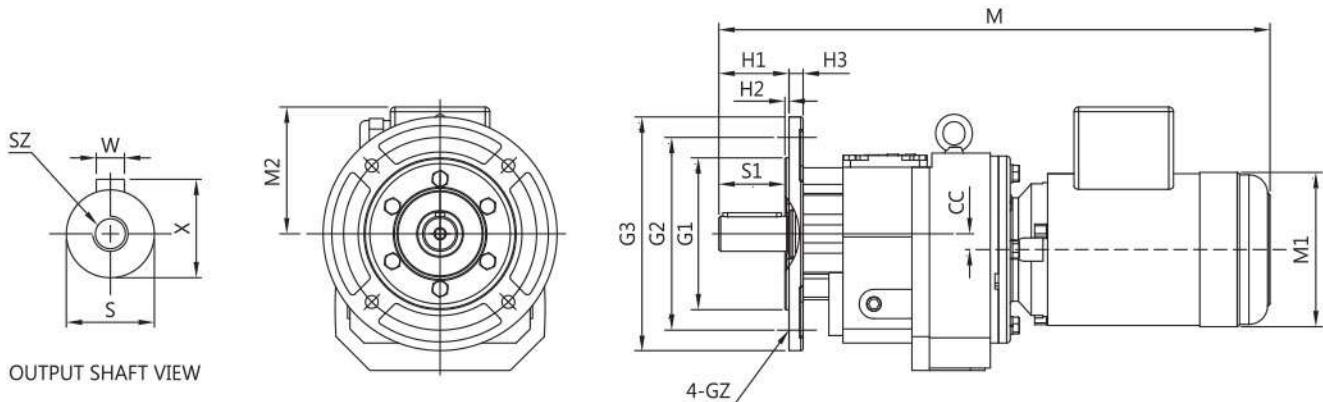
MVFM / MWFM	DIMENSION							
	HP	1/8 (B14)	1/4 (B14)	1/2 (B14)	1 (B14)			
17	MVFM	M	387.5	419.5	437.5	482		
	MWFM		467	485	528	573		
37	MVFM	HP	1/4	1/2	1	2		
	MWFM	M	494.5	512.5	555.5	600.5	647	667
47	MVFM	HP	1/4	1/2	1	2	3	5
	MWFM	M	512.5	555.5	600.5	647	667	
57	MVFM	HP	1/2	1	2	3	5	
	MWFM	M	550.5	593.5	638.5	685	705	
67	MVFM	HP	1/2	1	2	3	5	
	MWFM	M	593.5	638.5	685	705		
77	MVFM	HP	1	2	3	5	7.5	10
	MWFM	M	611.5	656.5	703	723	812	850
87	MVFM	HP	2	3	5	7.5	10	15
	MWFM	M	732	763	783	873.5	911.5	1018
97	MVFM	HP	3	5	7.5	10	15	20
	MWFM	M	827	847	933.5	971.5	1078	1123
107	MVFM	HP	7.5	10	15	20	25	30
	MWFM	M	979	1017	1123	1168	1214	1252
137	MVFM	HP	15	20	25	30	40	50
	MWFM	M	1208	1253	1298	1336	1380	1422
147	MVFM	HP	20	25	30	40	50	60
	MWFM	M	1352	1397	1435	1477	1525	1550
167	MVFM	HP	25	30	40	50	60	75
	MWFM	M	1490	1528	1572	1609	1634	1731

DIMENSION MOTOR		
HP	M1	M2
1/8 (B14)	112	115.5
1/4 (B14)	112	115.5
1/2 (B14)	133	123.5
1 (B14)	156	131.5
1/4	120	108
1/2	136	116
1	160	127
2	176	139
3	198	149
5	220	167
7.5	258	188
10	258	188
15	334	286
20	334	286
25	382	350
30	382	350
40	450	355
50	505	375
60	505	375
75	536	415
100	620	450
125	620	450

unit : mm



MVM / MWM



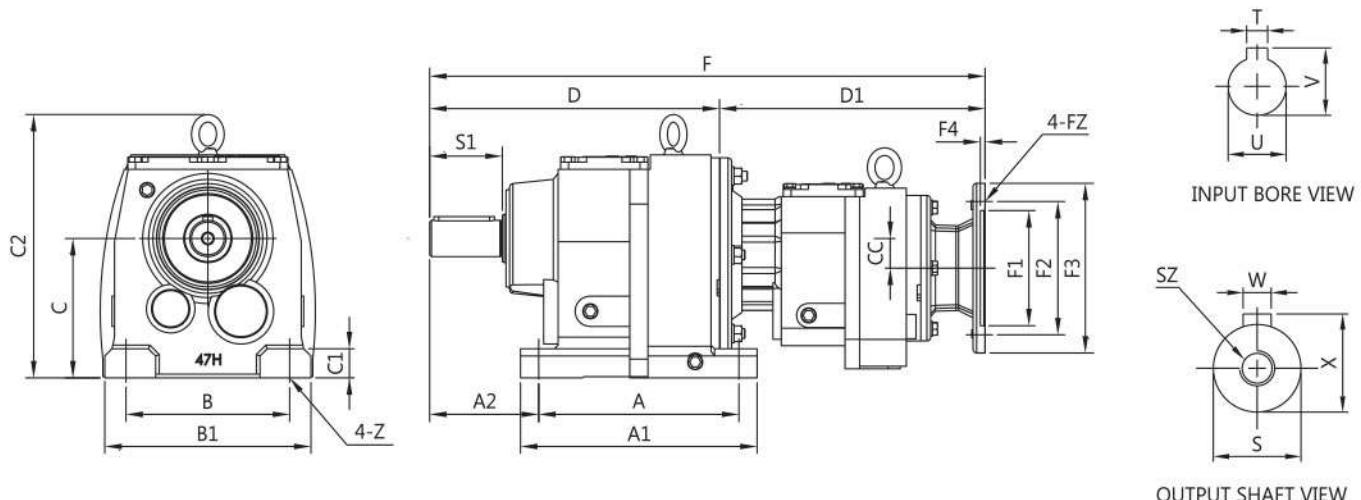
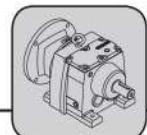
MVM / MWM		G1	G2	G3	GZ	H1	H2	H3	CC	OUTPUT SHAFT					
										S	S1	W	X	SZ	Oil (L)
17	MVM	80j6	100	120	7	40	3	8	6.5	20k6	40	6	22.5	M6*15L	0.3
37	MVM	130h7	165	200	11	50	3.5	12	11	25k6	50	8	28	M10*20L	1.05
	MWM	110h7	130	160	9										
47	MVM	130h7	165	200	11	60	3.5	12	13.5	30k6	60	8	33	M10*20L	1.65
	MWM	110h7	130	160	9										
57	MVM	180h7	215	250	13.5	70	4	14	16	35k6	70	10	38	M12*24L	3.6
	MWM	130h7	165	200	11										
67	MVM	180h7	215	250	13.5	70	4	15	17	35k6	70	10	38	M12*24L	3.6
	MWM	130h7	165	200	11										
77	MVM	230h7	265	300	14	80	4	21	16	40k6	80	12	43	M16*32L	4.1
	MWM	180h7	215	250											
87	MVM	250h7	300	350	18	100	5	21	18	50k6	100	14	53.5	M16*32L	7.7
	MWM	230h7	265	300											
97	MVM	350h7	400	450	18	120	5	25	20	60m6	120	18	64	M20*40L	14
	MWM	250h7	300	350											
107	MVM	350h7	400	450	18	140	5	25	23	70m6	140	20	74.5	M20*40L	19.2
	MWM	250h7	300	350											
137	MVM	450h7	500	550	18	170	5	28	35	90m6	170	25	95	M24*48L	32.5
	MWM	350h7	400	450											
147	MVM	450h7	500	550	18	210	5	28	52	110m6	210	28	116	M24*48L	52
	MWM	350h7	400	450											
167	MVM	550h7	600	660	24	210	5	28	77	120m6	210	32	127	M24*48L	70

MVM / MWM		DIMENSION								
		HP	1/8 (B14)	1/4 (B14)	1/2 (B14)	1 (B14)				
17	MVM	M	391	406	427	474				
	MWM	M	438.5	454.5	516	561.5				
37	MVM	HP	1/4	1/2	1	2				
	MWM	M	466	482	543.5	589	637	649		
47	MVM	HP	1/4	1/2	1	2	3	5		
	MWM	M	500	561.5	607	655	667			
57	MVM	HP	1/2	1	2	3	5			
	MWM	M	599.5	645	693	705	743.5	743.5		
67	MVM	HP	3	5	7.5	10	15			
	MWM	M	753	765	803.5	841.5	922			
77	MVM	HP	1	2	3	5	7.5	10		
	MWM	M	829	863.5	901.5	982	1026	1048		
87	MVM	HP	7.5	10	15	20	25	30	40	
	MWM	M	909	947	1028	1072	1093	1131	1208	
97	MVM	HP	15	20	25	30	40	50	60	
	MWM	M	1112	1156	1177	1177	1215	1292	1292	
107	MVM	HP	15	20	25	30	40	50	60	75
	MWM	M	1212	1262	1335	1335	1415	1435	1460	1555
137	MVM	HP	15	20	25	30	40	50	60	75
	MWM	M	1308	1358	1428	1428	1508	1528	1553	1648
147	MVM	HP	15	20	25	30	40	50	60	75
	MWM	M	1308	1358	1428	1428	1508	1528	1553	1648
167	MVM	HP	15	20	25	30	40	50	60	75
		M	1308	1358	1428	1428	1508	1528	1553	1648

DIMENSION MOTOR		
HP	M1	M2
1/8 (B14)	112	115.5
1/4 (B14)	112	115.5
1/2 (B14)	133	123.5
1 (B14)	156	131.5
1/4	120	108
1/2	136	116
1	160	127
2	176	139
3	198	149
5	220	167
7.5	258	188
10	258	188
15	334	286
20	334	286
25	382	350
30	382	350
40	450	355
50	505	375
60	505	375
75	536	415
100	620	450
125	620	450

unit : mm

Double Reducer MNF



MNF	A	A1	A2	B	B1	C	C1	C2	CC	D	Z	OUTPUT SHAFT					
												S	S1	W	X	SZ	Oil (L)
37 - 47	165	195	90	135	170	115	24	217	24.5	239	14	30k6	60	8	33	M10*20L	1
37 - 67	195	235	100	150	210	130	30	249	28	279	14	35k6	70	10	38	M12*24L	1.4
37 - 77	205	245	115	170	230	140	30	266	27	302.5	18	40k6	80	12	43	M16*32L	1.5
47 - 87	260	310	140	215	290	180	45	335	31.5	372	18	50k6	100	14	53.5	M16*32L	3
47 - 97	310	365	160	250	340	225	55	416	37.5	440	22	60m6	120	18	64	M20*40L	5.3
77 - 107	370	440	185	290	400	250	65	465	39	495	26	70m6	140	20	74.5	M20*40L	7.2
77 - 137	410	490	220	340	450	315	70	550	51	590	33	90m6	170	25	95	M24*48L	11.2
87 - 147	500	590	260	380	530	355	80	635	70	697.5	39	110m6	210	28	116	M24*48L	17.7

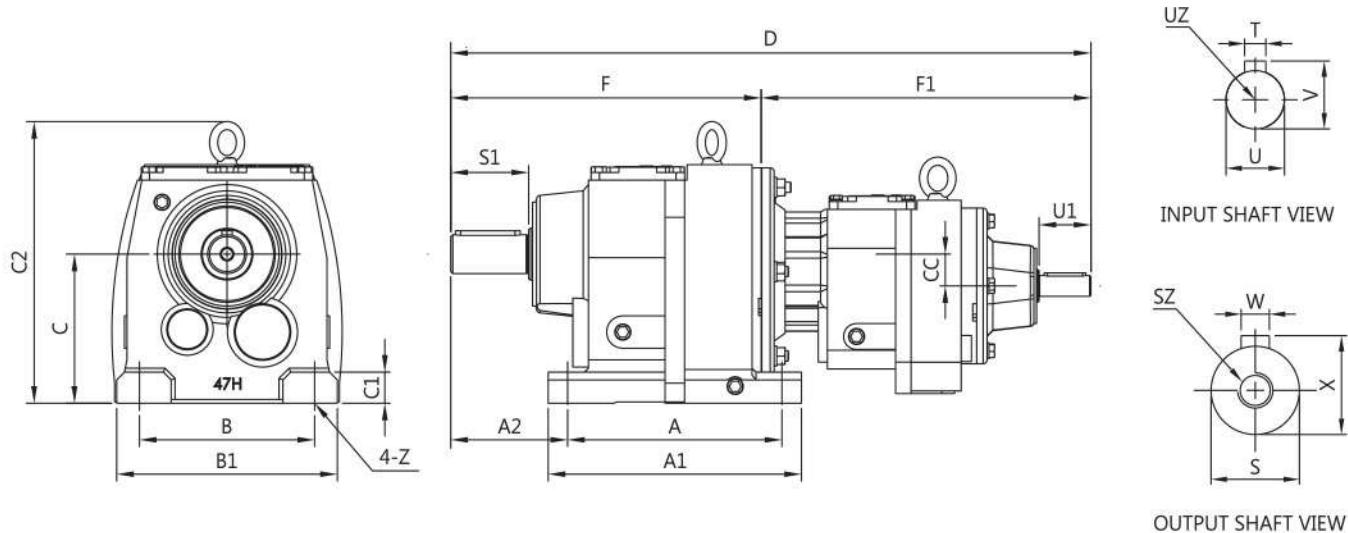
MNF	DIMENSION					
	HP	1/4	1/2	1	2	
37 - 47	F	458	458	476	476	
	D1	219	219	237	237	
37 - 67	HP	1/4	1/2	1	2	
	F	496	496	514	514	
	D1	217	217	235	235	
37 - 77	HP	1/4	1/2	1	2	
	F	494	494	532	532	
	D1	191.5	191.5	229.5	229.5	
47 - 87	HP	1/4	1/2	1	2	3 5
	F	613.5	613.5	631.5	631.5	648
	D1	241.5	241.5	259.5	259.5	276 276
47 - 97	HP	1/4	1/2	1	2	3 5
	F	673.5	673.5	691.5	691.5	708 708
	D1	233.5	233.5	251.5	251.5	268 268
77 - 107	HP	1	2	3	5	7.5 10
	F	793.5	793.5	810	810	858.5 858.5
	D1	298.5	298.5	315	315	363.5 363.5
77 - 137	HP	1	2	3	5	7.5 10
	F	877.5	877.5	894	894	942.5 942.5
	D1	287.5	287.5	304	304	352.5 352.5
87 - 147	HP	2	3	5	7.5	10 15
	F	1025	1041.5	1041.5	1090	1090 1126
	D1	327.5	344	344	392.5	392.5 428.5

HP	INPUT BORE				INPUT FLANGE				
	U	V	T	F1	F2	F3	F4	FZ	
1/4	11	12.8	4	95	115	140	4	M8	
1/2	14	16.3	5	110	130	160	4	M8	
1	19	21.8	6	130	165	200	5	M10	
2	24	27.3	8	130	165	200	5	M10	
3	28	31.3	8	180	215	250	5	M12	
5	28	31.3	8	180	215	250	5	M12	
7.5	38	41.3	10	230	265	300	6	M12	
10	38	41.3	10	230	265	300	6	M12	
15	42	45.3	12	250	300	350	6	M16	

unit : mm



MND Double Reducer

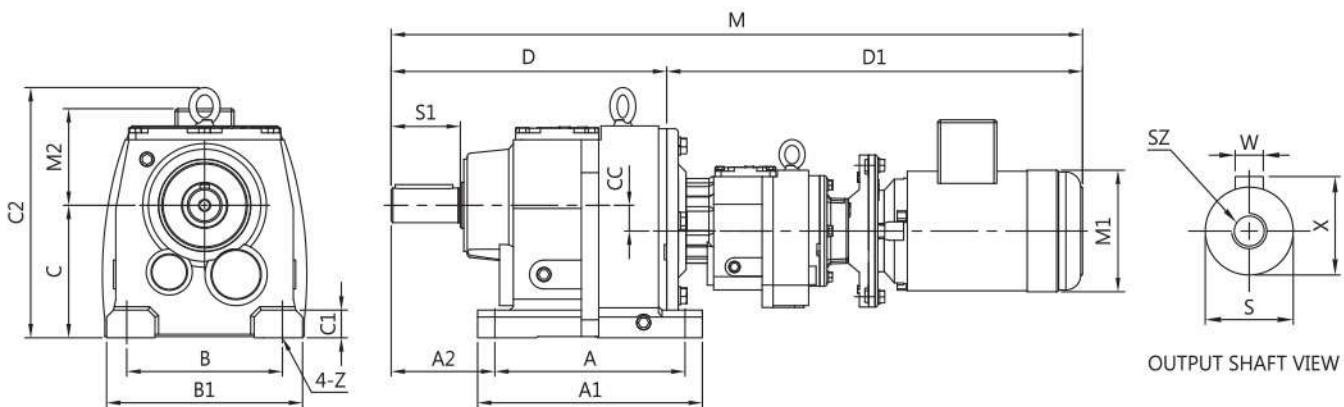
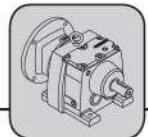


MND	A	A1	A2	B	B1	C	C1	C2	CC	F	Z	OUTPUT SHAFT					
												S	S1	W	X	SZ	Oil (L)
37 - 47	165	195	90	135	170	115	24	217	24.5	239	14	30k6	60	8	33	M10*20L	1
37 - 67	195	235	100	150	210	130	30	249	28	279	14	35k6	70	10	38	M12*24L	1.4
37 - 77	205	245	115	170	230	140	30	266	27	302.5	18	40k6	80	12	43	M16*32L	1.5
47 - 87	260	310	140	215	290	180	45	335	31.5	372	18	50k6	100	14	53.5	M16*32L	3
47 - 97	310	365	160	250	340	225	55	416	37.5	440	22	60m6	120	18	64	M20*40L	5.3
77 - 107	370	440	185	290	400	250	65	465	39	495	26	70m6	140	20	74.5	M20*40L	7.2
77 - 137	410	490	220	340	450	315	70	550	51	590	33	90m6	170	25	95	M24*48L	11.2
87 - 147	500	590	260	380	530	355	80	635	70	697.5	39	110m6	210	28	116	M24*48L	17.7

MND	DIMENSION				
	U	16	19		
37 - 47	D	493	496.5		
	L	254	257.5		
	U	16	19		
37 - 67	D	531	534.5		
	L	252	255.5		
	U	16	19		
37 - 77	D	548.5	551.5		
	L	246	249		
	U	16	19	24	
47 - 87	D	648.5	651	661	
	L	276.5	279	289	
	U	16	19	24	
47 - 97	D	708.5	711	721	
	L	268.5	271	281	
	U	19	24	38	
77 - 107	D	840.5	848.5	911.5	
	L	345.5	353.5	416.5	
	U	19	24	38	
77 - 137	D	924.5	932.5	996	
	L	334.5	342.5	406	
	U	19	24	38	42
87 - 147	D	1072	1090	1143	1216
	L	374.5	392.5	445.5	518.5

INPUT SHAFT (SOLID)				
U	V	T	U1	UZ
16k6	18	5	40	M5*10L
19k6	21.5	6	40	M6*12L
24k6	27	8	50	M8*16L
28k6	31	8	60	M8*16L
38k6	41	10	80	M12*24L
42k6	45	12	110	M16*32L

unit : mm

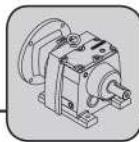


MNFM	A	A1	A2	B	B1	C	C1	C2	CC	D	Z	OUTPUT SHAFT					
												S	S1	W	X	SZ	Oil (L)
37 - 47	165	195	90	135	170	115	24	217	24.5	239	14	30k6	60	8	33	M10*20L	1
37 - 67	195	235	100	150	210	130	30	249	28	279	14	35k6	70	10	38	M12*24L	1.4
37 - 77	205	245	115	170	230	140	30	266	27	302.5	18	40k6	80	12	43	M16*32L	1.5
47 - 87	260	310	140	215	290	180	45	335	31.5	372	18	50k6	100	14	53.5	M16*32L	3
47 - 97	310	365	160	250	340	225	55	416	37.5	440	22	60m6	120	18	64	M20*40L	5.3
77 - 107	370	440	185	290	400	250	65	465	39	495	26	70m6	140	20	74.5	M20*40L	7.2
77 - 137	410	490	220	340	450	315	70	550	51	590	33	90m6	170	25	95	M24*48L	11.2
87 - 147	500	590	260	380	530	355	80	635	70	697.5	39	110m6	210	28	116	M24*48L	17.7

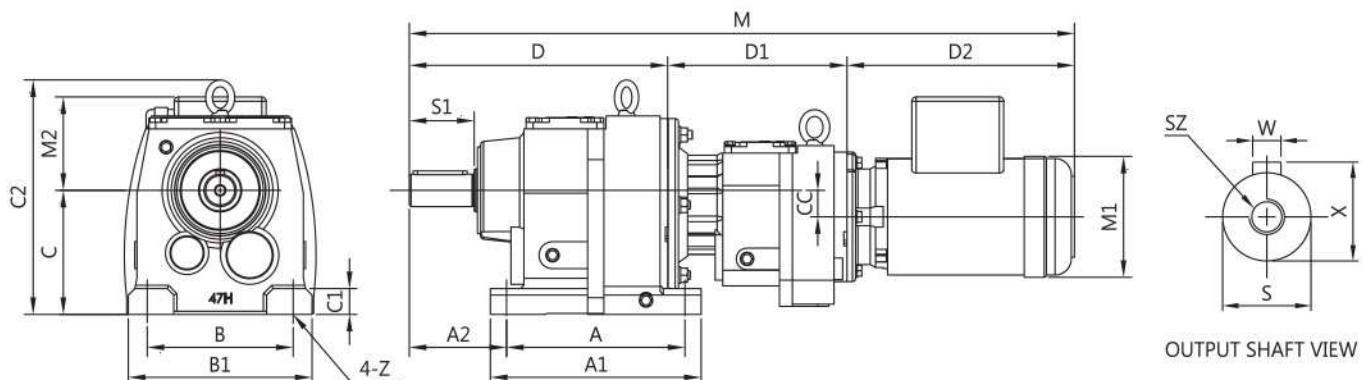
MNFM	DIMENSION					
	HP	1/4	1/2	1	2	
37 - 47	M	693	714	764	802	
	D1	454	475	525	563	
37 - 67	HP	1/4	1/2	1	2	
	M	733	754	804	842	
	D1	454	475	525	563	
37 - 77	HP	1/4	1/2	1	2	
	M	757	778	828	866	
	D1	454	475	525	563	
47 - 87	HP	1/4	1/2	1	2	3
	M	874	874	924	962	1017
	D1	502	502	552	590	645
47 - 97	HP	1/4	1/2	1	2	3
	M	942	942	992	1030	1085
	D1	502	502	552	590	645
77 - 107	HP	1	2	3	5	7.5
	M	1103	1141	1196	1214	1316
	D1	608	646	701	719	821
77 - 137	HP	1	2	3	5	7.5
	M	1198	1236	1291	1309	1411
	D1	608	646	701	719	821
87 - 147	HP	2	3	5	7.5	10
	M	1344	1459	1477	1579	1617
	D1	646	761	779	881	919
						1021

DIMENSION MOTOR		
HP	M1	M2
1/4	120	108
1/2	136	116
1	160	127
2	176	139
3	198	149
5	220	167
7.5	258	188
10	258	188
15	334	286

unit : mm



Double Reducer MNM

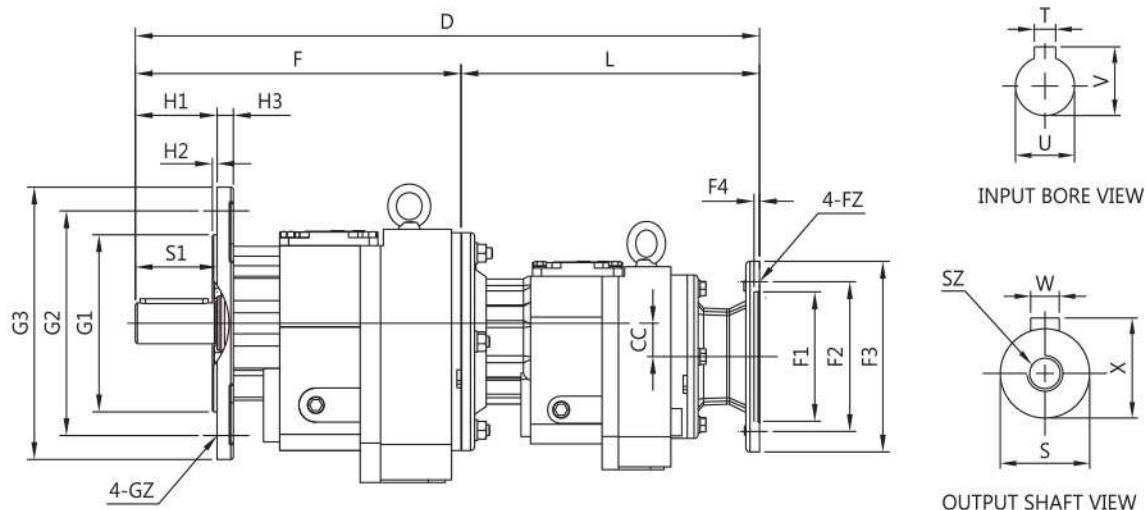
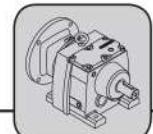


MNM	A	A1	A2	B	B1	C	C1	C2	CC	D	D1	Z	OUTPUT SHAFT					
													S	S1	W	X	SZ	Oil (L)
37 - 47	165	195	90	135	170	115	24	217	24.5	239	166	14	30k6	60	8	33	M10*20L	1
37 - 67	195	235	100	150	210	130	30	249	28	279	164	14	35k6	70	10	38	M12*24L	1.4
37 - 77	205	245	115	170	230	140	30	266	27	302.5	158.5	18	40k6	80	12	43	M16*32L	1.5
47 - 87	260	310	140	215	290	180	45	335	31.5	372	193	18	50k6	100	14	53.5	M16*32L	3
47 - 97	310	365	160	250	340	225	55	416	37.5	440	185	22	60m6	120	18	64	M20*40L	5.3
77 - 107	370	440	185	290	400	250	65	465	39	495	239.5	26	70m6	140	20	74.5	M20*40L	7.2
77 - 137	410	490	220	340	450	315	70	550	51	590	228.5	33	90m6	170	25	95	M24*48L	11.2
87 - 147	500	590	260	380	530	355	80	635	70	697.5	278	39	110m6	210	28	116	M24*48L	17.7

MNM	DIMENSION					
	HP	1/4	1/2	1	2	
37 - 47	M	628.5	652.5	714	759.5	
	D2	223.5	247.5	309	354.5	
	HP	1/4	1/2	1	2	
37 - 67	M	668.5	692.5	754	799.5	
	D2	223.5	247.5	309	354.5	
	HP	1/4	1/2	1	2	
37 - 77	M	692	716	777.5	823	
	D2	223.5	247.5	309	354.5	
	HP	1/4	1/2	1	2	3
47 - 87	M	784	808	869.5	915	963
	D2	219	243	304.5	350	398
	HP	1/4	1/2	1	2	3
47 - 97	M	852	876	937.5	983	1031
	D2	219	243	304.5	350	398
	HP	1/4	1/2	1	2	3
77 - 107	M	1031.5	1077	1125	1137	1175.5
	D2	297	342.5	390.5	402.5	441
	HP	1	2	3	5	7.5
77 - 137	M	1126.5	1172	1220	1232	1270.5
	D2	297	342.5	390.5	402.5	441
	HP	2	3	5	7.5	10
87 - 147	M	1306	1354	1366	1404.5	1442.5
	D2	333	381	393	431.5	469.5
	HP	2	3	5	7.5	10

DIMENSION MOTOR		
HP	M1	M2
1/4	120	108
1/2	136	116
1	160	127
2	176	139
3	198	149
5	220	167
7.5	258	188
10	258	188
15	334	286

unit : mm

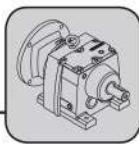


MXF	G1	G2	G3	GZ	H1	H2	H3	CC	F	OUTPUT SHAFT					
										S	S1	W	X	SZ	Oil (L)
37 - 47	130h7	165	200	11	60	3.5	12	24.5	239	30k6	60	8	33	M10*20L	2.7
37 - 67	180h7	215	250	13.5	70	4	15	28	279	35k6	70	10	38	M12*24L	4.65
37 - 77	230h7	265	300	14	80	4	21	27	302.5	40k6	80	12	43	M16*32L	5.15
47 - 87	250h7	300	350	18	100	5	21	31.5	372	50k6	100	14	53.5	M16*32L	9.35
47 - 97	350h7	400	450	18	120	5	25	37.5	440	60m6	120	18	64	M20*40L	15.65
77 - 107	350h7	400	450	18	140	5	25	39	495	70m6	140	20	74.5	M20*40L	23.3
77 - 137	450h7	500	550	18	170	5	28	51	590	90m6	170	25	95	M24*48L	36.6
87 - 147	450h7	500	550	18	210	5	28	70	697.5	110m6	210	28	116	M24*48L	59.7

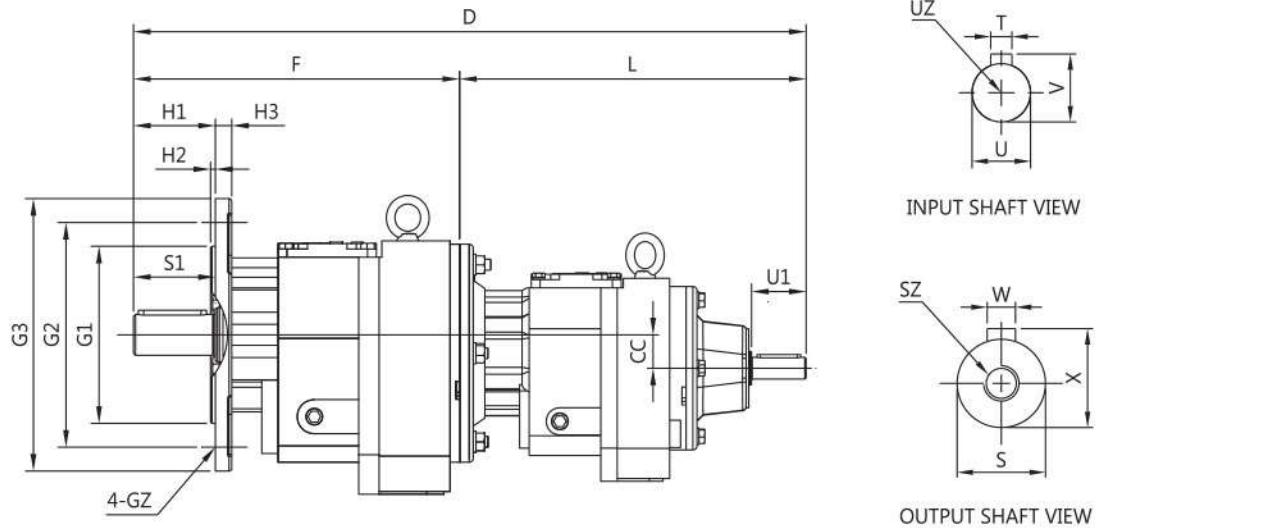
MXF	DIMENSION						
	HP	1/4	1/2	1	2		
37 - 47	D	458	458	476	476		
	L	219	219	237	237		
37 - 67	HP	1/4	1/2	1	2		
	D	496	496	514	514		
	L	217	217	235	235		
37 - 77	HP	1/4	1/2	1	2		
	D	494	494	532	532		
	L	191.5	191.5	229.5	229.5		
47 - 87	HP	1/4	1/2	1	2	3	5
	D	613.5	613.5	631.5	631.5	648	648
	L	241.5	241.5	259.5	259.5	276	276
47 - 97	HP	1/4	1/2	1	2	3	5
	D	673.5	673.5	691.5	691.5	708	708
	L	233.5	233.5	251.5	251.5	268	268
77 - 107	HP	1	2	3	5	7.5	10
	D	793.5	793.5	810	810	858.5	858.5
	L	298.5	298.5	315	315	363.5	363.5
77 - 137	HP	1	2	3	5	7.5	10
	D	877.5	877.5	894	894	942.5	942.5
	L	287.5	287.5	304	304	352.5	352.5
87 - 147	HP	2	3	5	7.5	10	15
	D	1025	1041.5	1041.5	1090	1090	1126
	L	327.5	344	344	392.5	392.5	428.5

MXF	INPUT BORE				INPUT FLANGE				
	HP	U	V	T	F1	F2	F3	F4	FZ
37 - 47	1/4	11	12.8	4	95	115	140	4	M8
	1/2	14	16.3	5	110	130	160	4	M8
37 - 67	1	19	21.8	6	130	165	200	5	M10
	2	24	27.3	8	130	165	200	5	M10
37 - 77	3	28	31.3	8	180	215	250	5	M12
	5	28	31.3	8	180	215	250	5	M12
47 - 87	7.5	38	41.3	10	230	265	300	6	M12
	10	38	41.3	10	230	265	300	6	M12
47 - 97	15	42	45.3	12	250	300	350	6	M16

unit : mm



MXD Double Reducer

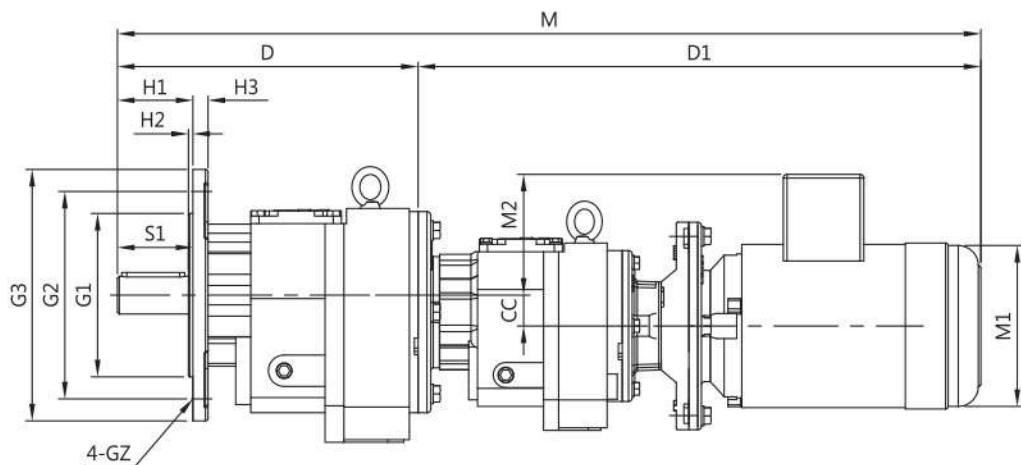
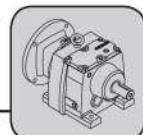


MXD	G1	G2	G3	GZ	H1	H2	H3	CC	F	OUTPUT SHAFT					
										S	S1	W	X	SZ	Oil (L)
37 - 47	130h7	165	200	11	60	3.5	12	24.5	239	30k6	60	8	33	M10*20L	2.7
37 - 67	180h7	215	250	13.5	70	4	15	28	279	35k6	70	10	38	M12*24L	4.65
37 - 77	230h7	265	300	14	80	4	21	27	302.5	40k6	80	12	43	M16*32L	5.15
47 - 87	250h7	300	350	18	100	5	21	31.5	372	50k6	100	14	53.5	M16*32L	9.35
47 - 97	350h7	400	450	18	120	5	25	37.5	440	60m6	120	18	64	M20*40L	15.65
77 - 107	350h7	400	450	18	140	5	25	39	495	70m6	140	20	74.5	M20*40L	23.3
77 - 137	450h7	500	550	18	170	5	28	51	590	90m6	170	25	95	M24*48L	36.6
87 - 147	450h7	500	550	18	210	5	28	70	697.5	110m6	210	28	116	M24*48L	59.7

MXD	DIMENSION				
	U	16	19		
37 - 47	D	493	496.5		
	L	254	257.5		
	U	16	19		
37 - 67	D	531	534.5		
	L	252	255.5		
	U	16	19		
37 - 77	D	548.5	551.5		
	L	246	249		
	U	16	19	24	
47 - 87	D	648.5	651	661	
	L	276.5	279	289	
	U	16	19	24	
47 - 97	D	708.5	711	721	
	L	268.5	271	281	
	U	19	24	38	
77 - 107	D	840.5	848.5	911.5	
	L	345.5	353.5	416.5	
	U	19	24	38	
77 - 137	D	924.5	932.5	996	
	L	334.5	342.5	406	
	U	19	24	38	42
87 - 147	D	1072	1090	1143	1216
	L	374.5	392.5	445.5	518.5

INPUT SHAFT (SOLID)				
U	V	T	U1	UZ
16k6	18	5	40	M5*10L
19k6	21.5	6	40	M6*12L
24k6	27	8	50	M8*16L
28k6	31	8	60	M8*16L
38k6	41	10	80	M12*24L
42k6	45	12	110	M16*32L

unit : mm



OUTPUT SHAFT VIEW

MXFM	G1	G2	G3	GZ	H1	H2	H3	CC	D	OUTPUT SHAFT					
										S	S1	W	X	SZ	Oil (L)
37 - 47	130h7	165	200	11	60	3.5	12	24.5	239	30k6	60	8	33	M10*20L	2.7
37 - 67	180h7	215	250	13.5	70	4	15	28	279	35k6	70	10	38	M12*24L	4.65
37 - 77	230h7	265	300	14	80	4	21	27	302.5	40k6	80	12	43	M16*32L	5.15
47 - 87	250h7	300	350	18	100	5	21	31.5	372	50k6	100	14	53.5	M16*32L	9.35
47 - 97	350h7	400	450	18	120	5	25	37.5	440	60m6	120	18	64	M20*40L	15.65
77 - 107	350h7	400	450	18	140	5	25	39	495	70m6	140	20	74.5	M20*40L	23.3
77 - 137	450h7	500	550	18	170	5	28	51	590	90m6	170	25	95	M24*48L	36.6
87 - 147	450h7	500	550	18	210	5	28	70	697.5	110m6	210	28	116	M24*48L	59.7

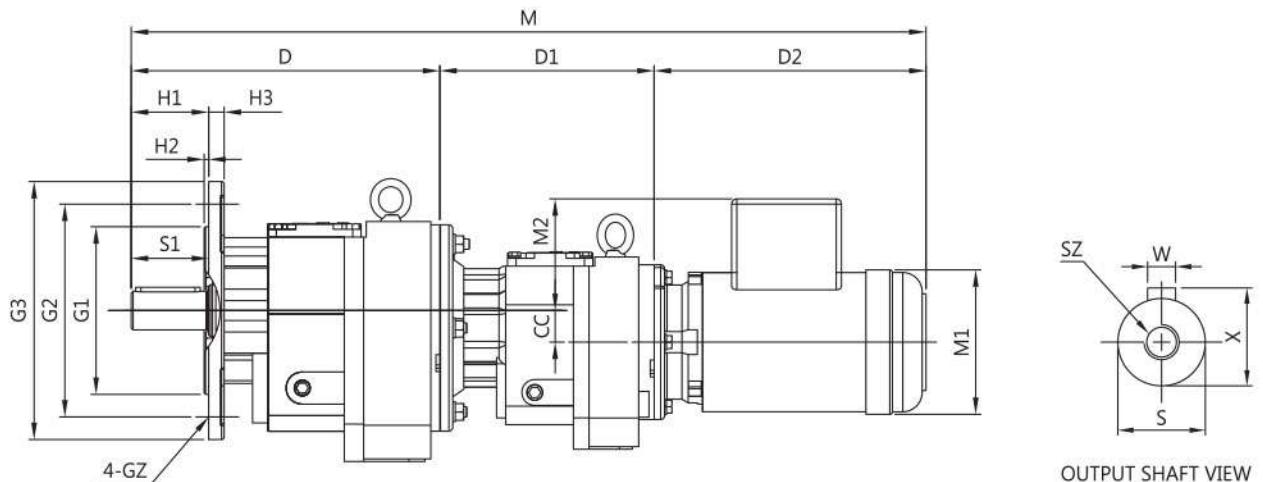
MXFM	DIMENSION					
	HP	1/4	1/2	1	2	
37 - 47	M	693	714	764	802	
	D1	454	475	525	563	
	HP	1/4	1/2	1	2	
37 - 67	M	733	754	804	842	
	D1	454	475	525	563	
	HP	1/4	1/2	1	2	
37 - 77	M	757	778	828	866	
	D1	454	475	525	563	
	HP	1/4	1/2	1	2	
47 - 87	M	874	874	924	962	1017
	D1	502	502	552	590	645
	HP	1/4	1/2	1	2	3
47 - 97	M	942	942	992	1030	1085
	D1	502	502	552	590	645
	HP	1/4	1/2	1	2	3
77 - 107	M	1103	1141	1196	1214	1316
	D1	608	646	701	719	821
	HP	1	2	3	5	7.5
77 - 137	M	1198	1236	1291	1309	1411
	D1	608	646	701	719	821
	HP	2	3	5	7.5	10
87 - 147	M	1344	1459	1477	1579	1617
	D1	646	761	779	881	919
	HP					1021

DIMENSION MOTOR		
HP	M1	M2
1/4	120	108
1/2	136	116
1	160	127
2	176	139
3	198	149
5	220	167
7.5	258	188
10	258	188
15	334	286

unit : mm



Double Reducer MXM



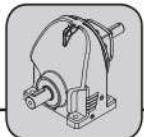
MXM	G1	G2	G3	GZ	H1	H2	H3	CC	D	D1	OUTPUT SHAFT					
											S	S1	W	X	SZ	Oil (L)
37 - 47	130h7	165	200	11	60	3.5	12	24.5	239	166	30k6	60	8	33	M10*20L	2.7
37 - 67	180h7	215	250	13.5	70	4	15	28	279	164	35k6	70	10	38	M12*24L	4.65
37 - 77	230h7	265	300	14	80	4	21	27	302.5	158.5	40k6	80	12	43	M16*32L	5.15
47 - 87	250h7	300	350	18	100	5	21	31.5	372	193	50k6	100	14	53.5	M16*32L	9.35
47 - 97	350h7	400	450	18	120	5	25	37.5	440	185	60m6	120	18	64	M20*40L	15.65
77 - 107	350h7	400	450	18	140	5	25	39	495	239.5	70m6	140	20	74.5	M20*40L	23.3
77 - 137	450h7	500	550	18	170	5	28	51	590	228.5	90m6	170	25	95	M24*48L	36.6
87 - 147	450h7	500	550	18	210	5	28	70	697.5	278	110m6	210	28	116	M24*48L	59.7

MXM	DIMENSION					
	HP	1/4	1/2	1	2	
37 - 47	M	628.5	652.5	714	759.5	
	D2	223.5	247.5	309	354.5	
	HP	1/4	1/2	1	2	
37 - 67	M	668.5	692.5	754	799.5	
	D2	223.5	247.5	309	354.5	
	HP	1/4	1/2	1	2	
37 - 77	M	692	716	777.5	823	
	D2	223.5	247.5	309	354.5	
	HP	1/4	1/2	1	2	
47 - 87	M	784	808	869.5	915	963 975
	D2	219	243	304.5	350	398 410
	HP	1/4	1/2	1	2	3 5
47 - 97	M	852	876	937.5	983	1031 1043
	D2	219	243	304.5	350	398 410
	HP	1/4	1/2	1	2	3 5
77 - 107	M	1031.5	1077	1125	1137	1175.5 1213.5
	D2	297	342.5	390.5	402.5	441 479
	HP	1	2	3	5	7.5 10
77 - 137	M	1126.5	1172	1220	1232	1270.5 1308.5
	D2	297	342.5	390.5	402.5	441 479
	HP	2	3	5	7.5	10 15
87 - 147	M	1306	1354	1366	1404.5	1442.5 1523
	D2	333	381	393	431.5	469.5 550

DIMENSION MOTOR		
HP	M1	M2
1/4	120	108
1/2	136	116
1	160	127
2	176	139
3	198	149
5	220	167
7.5	258	188
10	258	188
15	334	286

unit : mm

Daya yang tersedia & Torsi keluar



ACTUAL RATIO	INPUT POWER (HP)	OUTPUT TORQUE (kgm)	OUTPUT (RPM)	S.F	STAGE	TYPE
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0.25HP

1.31	6.55	41	1107	26.19	1	57
1.59	5.59	42	912	22.37		
2.23	4.91	52	650	19.64		
3.00	4.23	61	483	16.91		
3.19	4.09	63	455	16.37		
3.63	3.68	64	399	14.73		
4.05	1.64	31	358	6.55		
4.55	1.64	35	319	6.55		
4.88	1.64	37	297	6.55		
5.47	1.36	36	265	5.46		
1.40	9.00	58	1036	36.01		
1.62	8.46	65	895	33.83		
1.86	8.18	73	780	32.74		
2.35	7.23	80	617	28.92		
2.72	6.68	87	533	26.73		
2.89	6.82	94	502	27.28		
3.52	5.05	85	412	20.19		
4.53	1.64	35	320	6.55		
4.95	1.64	38	293	6.55		
5.47	1.64	42	265	6.55		
6.27	1.36	42	231	5.46		

0.5HP

1.31	6.55	41	1107	13.09	1	57
1.59	5.59	42	912	11.18		
2.23	4.91	52	650	9.82		
3.00	4.23	61	483	8.46		
3.19	4.09	63	455	8.18		
3.63	3.68	64	399	7.37		
4.05	1.64	31	358	3.27		
4.55	1.64	35	319	3.27		
4.88	1.64	37	297	3.27		
5.47	1.36	36	265	2.73		
1.40	9.00	58	1036	18.00		
1.62	8.46	65	895	16.91		
1.86	8.18	73	780	16.37		
2.35	7.23	80	617	14.46		
2.72	6.68	87	533	13.37		
2.89	6.82	94	502	13.64		
3.52	5.05	85	412	10.09		
4.53	1.64	35	320	3.27		
4.95	1.64	38	293	3.27		
5.47	1.64	42	265	3.27		
6.27	1.36	42	231	2.73		

0.75HP

1.31	6.55	41	1107	8.73	1	57
1.59	5.59	42	912	7.46		
2.23	4.91	52	650	6.55		
3.00	4.23	61	483	5.64		
3.19	4.09	63	455	5.46		
3.63	3.68	64	399	4.91		
4.05	1.64	31	358	2.18		
4.55	1.64	35	319	2.18		
4.88	1.64	37	297	2.18		
5.47	1.36	36	265	1.82		
1.40	9.00	58	1036	12.00		
1.62	8.46	65	895	11.28		
1.86	8.18	73	780	10.91		
2.35	7.23	80	617	9.64		
2.72	6.68	87	533	8.91		
2.89	6.82	94	502	9.09		
3.52	5.05	85	412	6.73		
4.53	1.64	35	320	2.18		
4.95	1.64	38	293	2.18		
5.47	1.64	42	265	2.18		
6.27	1.36	42	231	1.82		
1.66	12.82	101	873	17.10	1	77
1.96	12.14	113	740	16.19		
2.13	12.69	127	681	16.91		
2.38	11.73	132	609	15.64		

ACTUAL RATIO	INPUT POWER (HP)	OUTPUT TORQUE (kgm)	OUTPUT (RPM)	S.F	STAGE	TYPE
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0.75HP

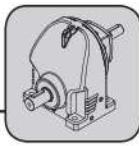
2.67	10.23	129	543	13.64	1	77
3.25	10.78	166	446	14.37		
3.75	8.46	150	387	11.28		
4.19	7.09	140	346	9.46		
4.55	6.00	130	319	8.00		
4.74	5.32	120	306	7.09		
5.12	1.64	40	283	1.64		
6.00	1.64	47	242	1.64		
6.69	1.64	52	217	1.64		
7.50	1.50	53	193	1.50		
8.09	1.50	55	179	1.50		
8.27	1.50	55	179	2.00		
8.55	1.50	55	179	2.00		
8.83	1.50	55	179	2.00		

1HP

1.31	6.55	41	1107	6.55	1	57
1.59	5.59	42	912	5.59		
2.23	4.91	52	650	4.91		
3.00	4.23	61	483	4.23		
3.19	4.09	63	455	4.09		
3.63	3.68	64	399	3.68		
4.05	1.64	31	358	2.18		
4.55	1.64	35	319	2.18		
4.88	1.64	37	297	2.18		
5.47	1.36	36	265	1.82		
1.40	9.00	58	1036	9.00		
1.62	8.46	65	895	8.46		
1.86	8.18	73	780	8.18		
2.35	7.23	80	617	7.23		
2.72	6.68	87	533	6.68		
2.89	6.82	94	502	6.82		
3.52	5.05	85	412	5.05		
4.53	1.64	35	320	1.64		
4.95	1.64	38	293	1.64		
5.47	1.64	42	265	1.64		
6.27	1.36	42	231	1.36		
6.69	1.64	47	242	1.64		
7.07	1.64	52	217	1.64		
7.50	1.50	53	193	1.50		
7.88	1.50	55	179	1.50		
8.27	1.50	55	179	2.00		
8.65	1.50	55	179	2.00		
9.03	1.50	55	179	2.00		
9.41	1.50	55	179	2.00		

1.5HP

1.31	6.55	41	1107	4.36	1	57
1.59	5.59	42	912	3.73		
2.23	4.91	52	650	3.27		
3.00	4.23	61	483	2.82		
3.19	4.09	63	455	2.73		
3.63	3.68	64	399	2.46		
4.05	1.64	31	358	2.18		
4.55	1.64	35	319	2.18		
4.88	1.64	37	297	2.18		
5.47	1.36	36	265	1.82		
1.40	9.00	58	1036	6.00		
1.62	8.46	65	895	5.64		
1.86	8.18	73	780	5.46		
2.35	7.23	80	617	4.82		
2.72	6.68	87	533	4.46		
2.89	6.82	94	502	4.55		
3.52	5.05	85	412	3.36		
4.66	12.82	101	873	8.55		
4.96	12.14	113	740	8.09		
5.13	12.69	127	681	8.46		
5.38	11.73	132	609	7.82		
5.67	10.23	129	543	6.82		
5.96	10.78	166	446	7.18		
6.21	8.46	150	387	5.64		



Daya yang tersedia & Torsi keluar

ACTUAL RATIO	INPUT POWER (HP)	OUTPUT TORQUE (kgm)	OUTPUT (RPM)	S.F	STAGE	TYPE
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1.5HP

4.19	7.09	140	346	4.73	1	77
4.55	6.00	130	319	4.00		
4.74	5.32	120	306	3.55		

2HP

1.31	6.55	41	1107	3.27	1	57
1.59	5.59	42	912	2.80		
2.23	4.91	52	650	2.46		
3.00	4.23	61	483	2.11		
3.19	4.09	63	455	2.05		
3.63	3.68	64	399	1.84		
1.40	9.00	58	1036	4.50		
1.62	8.46	65	895	4.23		
1.86	8.18	73	780	4.09		
2.35	7.23	80	617	3.61		
2.72	6.68	87	533	3.34		
2.89	6.82	94	502	3.41		
3.52	5.05	85	412	2.52		
1.66	12.82	101	873	6.41		
1.96	12.14	113	740	6.07		
2.13	12.69	127	681	6.34		
2.38	11.73	132	609	5.87		
2.67	10.23	129	543	5.12		
3.25	10.78	166	446	5.39		
3.75	8.46	150	387	4.23		
4.19	7.09	140	346	3.55		
4.55	6.00	130	319	3.00		
4.74	5.32	120	306	2.66		

3HP

1.31	6.55	41	1107	2.18	1	57
1.59	5.59	42	912	1.86		
2.23	4.91	52	650	1.64		
3.19	4.09	63	455	1.36		
1.40	9.00	58	1036	3.00		
1.62	8.46	65	895	2.82		
1.86	8.18	73	780	2.73		
2.35	7.23	80	617	2.41		
2.72	6.68	87	533	2.23		
2.89	6.82	94	502	2.27		
3.52	5.05	85	412	1.68		
1.66	12.82	101	873	4.27		
1.96	12.14	113	740	4.05		
2.13	12.69	127	681	4.23		
2.38	11.73	132	609	3.91		
2.67	10.23	129	543	3.41		
3.25	10.78	166	446	3.59		
4.19	7.09	140	346	2.36		
1.67	24.28	193	868	8.09		
2.04	23.73	230	711	7.91		
2.14	22.10	224	678	7.37		
2.26	21.55	231	642	7.18		
2.52	20.60	246	575	6.87		
2.83	19.51	262	512	6.50		
3.19	18.41	278	455	6.14		
3.54	17.46	294	410	5.82		
3.77	16.64	299	385	5.55		
4.43	13.50	283	327	4.50		
4.85	9.28	212	299	3.09		
5.50	7.91	208	264	2.64		
4.96	16.64	392	292	5.55		
5.65	13.64	368	257	4.55		
5.50	16.10	421	264	5.37		
6.38	13.37	406	227	4.46		

4HP

1.31	6.55	41	1107	1.64	1	57
1.59	5.59	42	912	1.40		
1.40	9.00	58	1036	2.25		
1.62	8.46	65	895	2.11		
1.86	8.18	73	780	2.05		
2.35	7.23	80	617	1.81		

ACTUAL RATIO	INPUT POWER (HP)	OUTPUT TORQUE (kgm)	OUTPUT (RPM)	S.F	STAGE	TYPE
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4HP

2.72	6.68	87	533	1.67	1	67
1.66	12.82	101	873	3.21		
1.96	12.14	113	740	3.03		
2.13	12.69	127	681	3.17		
2.38	11.73	132	609	2.93		
2.67	10.23	129	543	2.56		
1.67	24.28	193	868	6.07		
2.04	23.73	230	711	5.93		
2.14	22.10	224	678	5.52		
2.26	21.55	231	642	5.39		
2.52	20.60	246	575	5.15		
2.83	19.51	262	512	4.88		
3.19	18.41	278	455	4.60		
3.54	17.46	294	410	4.36		
3.77	16.64	299	385	4.16		
4.43	13.50	283	327	3.38		
4.85	9.28	212	299	2.32		
5.50	7.91	208	264	1.98		
4.96	16.64	392	292	4.02		
5.65	13.64	368	257	2.48		
5.50	16.10	421	264	2.93		
6.38	13.37	406	227	2.43		

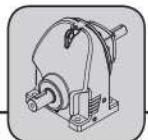
5.5HP

1.31	6.55	41	1107	1.19	1	57
1.59	5.59	42	912	1.02		
1.40	9.00	58	1036	1.64		
1.62	8.46	65	895	1.54		
1.86	8.18	73	780	1.49		
2.35	7.23	80	617	1.31		
2.72	6.68	87	533	1.22		
2.16	12.82	101	873	2.33		
1.96	12.14	113	740	2.21		
2.13	12.69	127	681	2.31		
2.38	11.73	132	609	2.13		
2.67	10.23	129	543	1.86		
1.67	24.28	193	868	4.41		
2.04	23.73	230	711	4.32		
2.14	22.10	224	678	4.02		
2.26	21.55	231	642	3.92		
2.52	20.60	246	575	3.74		
2.83	19.51	262	512	3.55		
3.19	18.41	278	455	3.35		
3.54	17.46	294	410	3.17		
3.77	16.64	299	385	3.03		
4.43	13.50	283	327	2.46		
4.85	9.28	212	299	1.69		
5.50	7.91	208	264	1.44		
4.96	16.64	392	292	3.03		
5.65	13.64	368	257	2.48		
5.50	16.10	421	264	2.93		
6.38	13.37	406	227	2.43		

7.5HP

1.66	12.82	101	873	1.71	1	77
1.96	12.14	113	740	1.62		
2.13	12.69	127	681	1.69		
2.38	11.73	132	609	1.56		
2.67	10.23	129	543	1.36		
1.67	24.28	193	868	3.24		
2.04	23.73	230	711	3.16		
2.14	22.10	224	678	2.95		
2.26	21.55	231	642	2.87		
2.52	20.60	246	575	2.75		
2.83	19.51	262	512	2.60		
3.19	18.41	278	455	2.46		
3.54	17.46	294	410	2.33		
3.77	16.64	299	385	2.22		
4.43	13.50	283	327	1.77		

Daya yang tersedia & Torsi keluar



ACTUAL RATIO	INPUT POWER (HP)	OUTPUT TORQUE (kgm)	OUTPUT (RPM)	S.F	STAGE	TYPE
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7.5HP

2.25	42.28	456	644	5.64	1	97
2.32	43.65	480	625	5.82		
2.68	40.92	515	541	5.46		
3.07	35.46	515	472	4.73		
3.48	31.37	515	417	4.18		
3.81	28.64	515	381	3.82		
4.42	19.91	418	328	2.66		
1.39	75.02	500	1043	10.00	1	107
1.91	68.20	617	759	9.09		
2.30	62.74	691	630	8.37		
3.12	53.20	792	465	7.09		
3.37	47.74	770	430	6.37		
4.13	39.56	779	351	5.27		
4.90	28.64	671	296	3.82		
5.50	16.10	421	264	2.15		

10HP

1.67	24.28	193	868	2.43	1	87
2.04	23.73	230	711	2.37		
2.14	22.10	224	678	2.21		
2.26	21.55	231	642	2.16		
2.52	20.60	246	575	2.06		
2.83	19.51	262	512	1.95		
3.19	18.41	278	455	1.84		
3.54	17.46	294	410	1.75		
3.77	16.64	299	385	1.66		
1.71	54.56	445	848	5.46		
1.89	47.74	428	767	4.77		
2.12	45.01	456	684	4.50	1	97
2.25	42.28	456	644	4.23		
2.32	43.65	480	625	4.36		
2.68	40.92	515	541	4.09		
3.07	35.46	515	472	3.55		
3.48	31.37	515	417	3.14		
3.81	28.64	515	381	2.86		
4.42	19.91	418	328	1.99		
1.39	75.02	500	1043	7.50		
1.91	68.20	617	759	6.82		
2.30	62.74	691	630	6.27	1	107
3.12	53.20	792	465	5.32		
3.37	47.74	770	430	4.77		
4.13	39.56	779	351	3.96		
4.90	28.64	671	296	2.86		
5.50	16.10	421	264	1.61		

15HP

1.67	24.28	193	868	1.62	1	87
2.04	23.73	230	711	1.58		
2.14	22.10	224	678	1.47		
2.26	21.55	231	642	1.44		
2.52	20.60	246	575	1.37		
2.83	19.51	262	512	1.30		
3.19	18.41	278	455	1.23		
3.54	17.46	294	410	1.16		
1.71	54.56	445	848	3.64		
1.89	47.74	428	767	3.18		
2.12	45.01	456	684	3.00	1	97
2.25	42.28	456	644	2.82		
2.32	43.65	480	625	2.91		
2.68	40.92	515	541	2.73		
3.07	35.46	515	472	2.36		
3.48	31.37	515	417	2.09		
3.81	28.64	515	381	1.91		
1.39	75.02	500	1043	5.00		
1.91	68.20	617	759	4.55		
2.30	62.74	691	630	4.18	1	107
3.12	53.20	792	465	3.55		
3.37	47.74	770	430	3.18		
4.13	39.56	779	351	2.64		
4.90	28.64	671	296	1.91		

ACTUAL RATIO	INPUT POWER (HP)	OUTPUT TORQUE (kgm)	OUTPUT (RPM)	S.F	STAGE	TYPE
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20HP

1.67	24.28	193	868	1.21	1	87
2.04	23.73	230	711	1.19		
2.14	22.10	224	678	1.10		
2.26	21.55	231	642	1.08		
2.52	20.60	246	575	1.03		
1.71	54.56	445	848	2.73		
1.89	47.74	428	767	2.39		
2.12	45.01	456	684	2.25		
2.25	42.28	456	644	2.11		
2.32	43.65	480	625	2.18		
2.68	40.92	515	541	2.05	1	97
3.07	35.46	515	472	1.77		
3.48	31.37	515	417	1.57		
3.81	28.64	515	381	1.43		
1.39	75.02	500	1043	3.75		
1.91	68.20	617	759	3.41		
2.30	62.74	691	630	3.14		
3.12	53.20	792	465	2.66		
3.37	47.74	770	430	2.39		
4.13	39.56	779	351	1.98		
4.90	28.64	671	296	1.43		

25HP

1.71	54.56	445	848	2.18	1	97
1.89	47.74	428	767	1.91		
2.12	45.01	456	684	1.80		
2.25	42.28	456	644	1.69		
2.32	43.65	480	625	1.75		
2.68	40.92	515	541	1.64		
3.07	35.46	515	472	1.42		
3.48	31.37	515	417	1.25		
3.81	28.64	515	381	1.15		
1.39	75.02	500	1043	3.00		
1.91	68.20	617	759	2.73	1	107
2.30	62.74	691	630	2.51		
3.12	53.20	792	465	2.13		
3.37	47.74	770	430	1.91		

30HP

1.71	54.56	445	848	1.82	1	97
1.89	47.74	428	767	1.59		
2.12	45.01	456	684	1.50		
2.25	42.28	456	644	1.41		
2.32	43.65	480	625	1.45		
2.68	40.92	515	541	1.36		
3.07	35.46	515	472	1.18		
3.48	31.37	515	417	1.05		
1.39	75.02	500	1043	2.50		
1.91	68.20	617	759	2.27	1	107
2.30	62.74	691	630	2.09		
3.12	53.20	792	465	1.77		
3.37	47.74	770	430	1.59		

40HP

1.71	54.56	445	848	1.36	1	97
1.89	47.74	428	767	1.19		
2.12	45.01	456	684	1.13		
2.25	42.28	456	644	1.06		
2.32	43.65	480	625	1.09		
1.39	75.02	500	1043	1.88		
1.91	68.20	617	759	1.71	1	107
2.30	62.74	691	630	1.57		
3.12	53.20	792	465	1.33		

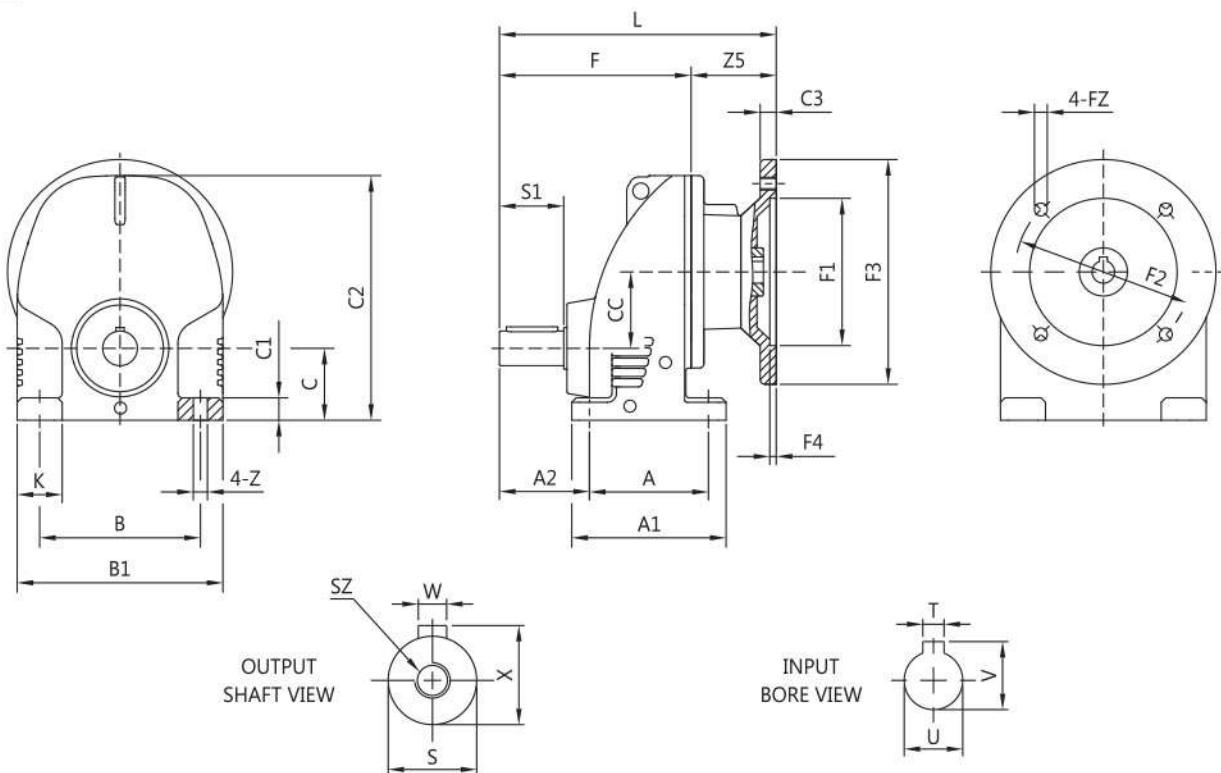
50HP

1.39	75.02	500	1043	1.50	1	107

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XHF

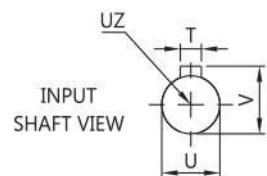
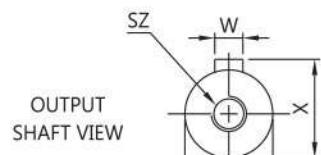
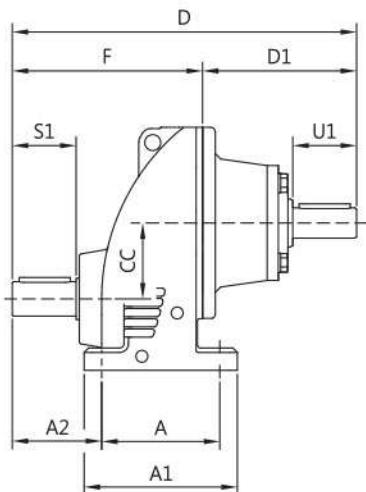
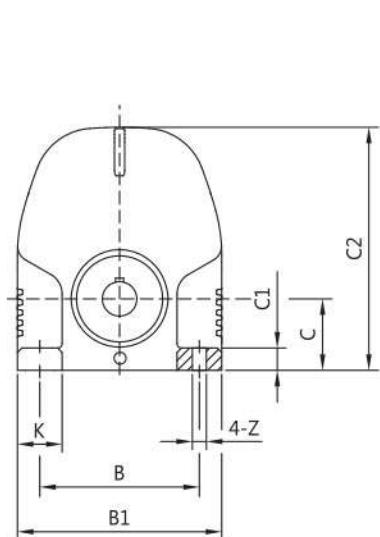


XHF	A	A1	A2	B	B1	C	C1	C2	CC	F	K	Z	OUTPUT SHAFT					
													S	S1	W	X	SZ	Oil (L)
57	110	137	56	125	156	63	18	197	54	150	31	11	20k6	40	6	22.5	M6*20L	0.6
67	120	150	75	135	170	80	20	218	58	175	35	14	25k6	50	8	28	M10*25L	0.8
77	150	190	85	170	204	90	25	257	67	209.7	50	18	30k6	60	8	33	M10*25L	1.1
87	160	206	110	215	266	100	30	327	102	244	60	18	40k6	80	12	43	M16*35L	1.7
97	185	240	140	250	320	112	35	381	119	298	70	22	50k6	100	14	53.5	M16*32L	2.1
107	210	260	152	310	360	140	45	451	136	332	80	22	60m6	120	18	64	M20*40L	3.9

XHF	DIMENSION						
	HP	1/4	1/2	1	2	3	
57	C3	10	10	12	12	15	
	Z5	48.5	48.5	66.5	66.5	63	
	L	198.5	198.5	216.5	216.5	233	
67	HP	1/4	1/2	1	2	3	5
	C3	10	10	12	12	15	15
	Z5	46.5	46.5	64.5	64.5	81	81
	L	221.5	221.5	239.5	239.5	256	256
77	HP	1	2	3	5	7.5	10
	C3	12	12	15	15	16	16
	Z5	59	59	75.5	75.5	124	124
	L	268.7	268.7	285.2	285.2	333.7	333.7
87	HP	3	5	7.5	10	15	20
	C3	15	15	16	16	20	20
	Z5	66	66	114.5	114.5	150.5	150.5
	L	310	310	358.5	358.5	394.5	394.5
97	HP	3	5	7.5	10	15	20
	C3	15	15	16	16	20	20
	Z5	62	62	106.5	106.5	142.5	142.5
	L	360	360	404.5	404.5	440.5	440.5
107	HP	3	5	7.5	10	15	20
	C3	15	15	16	16	20	20
	Z5	62	62	97	97	133	133
	L	394	394	429	429	465	465

XHF	INPUT BORE				INPUT FLANGE				
	HP	U	V	T	F1	F2	F3	F4	FZ
57	1/4	11	12.8	4	95	115	140	4	M8
	1/2	14	16.3	5	110	130	160	4	M8
	1	19	21.8	6	130	165	200	5	M10
	2	24	27.3	8	130	165	200	5	M10
	3	28	31.3	8	180	215	250	5	M12
	5	28	31.3	8	180	215	250	5	M12
	7.5	38	41.3	10	230	265	300	6	M12
	10	38	41.3	10	230	265	300	6	M12
	15	42	45.3	12	250	300	350	6	M16
	20	42	45.3	12	250	300	350	6	M16
	25	48	51.8	14	250	300	350	6	M16
	30	48	51.8	14	250	300	350	6	M16
	40	55	59.3	16	300	350	400	6	M16
	50	60	64.4	18	350	400	450	6	M16
	60	60	64.4	18	350	400	450	6	M16

unit : mm



XHD	A	A1	A2	B	B1	C	C1	C2	CC	F	K	Z	OUTPUT SHAFT					
													S	S1	W	X	SZ	Oil (L)
57	110	137	56	125	156	63	18	197	54	150	31	11	20k6	40	6	22.5	M6*20L	0.6
67	120	150	75	135	170	80	20	218	58	175	35	14	25k6	50	8	28	M10*25L	0.8
77	150	190	85	170	204	90	25	257	67	209.7	50	18	30k6	60	8	33	M10*25L	1.1
87	160	206	110	215	266	100	30	327	102	244	60	18	40k6	80	12	43	M16*35L	1.7
97	185	240	140	250	320	112	35	381	119	298	70	22	50k6	100	14	53.5	M16*32L	2.1
107	210	260	152	310	360	140	45	451	136	332	80	22	60m6	120	18	64	M20*40L	3.9

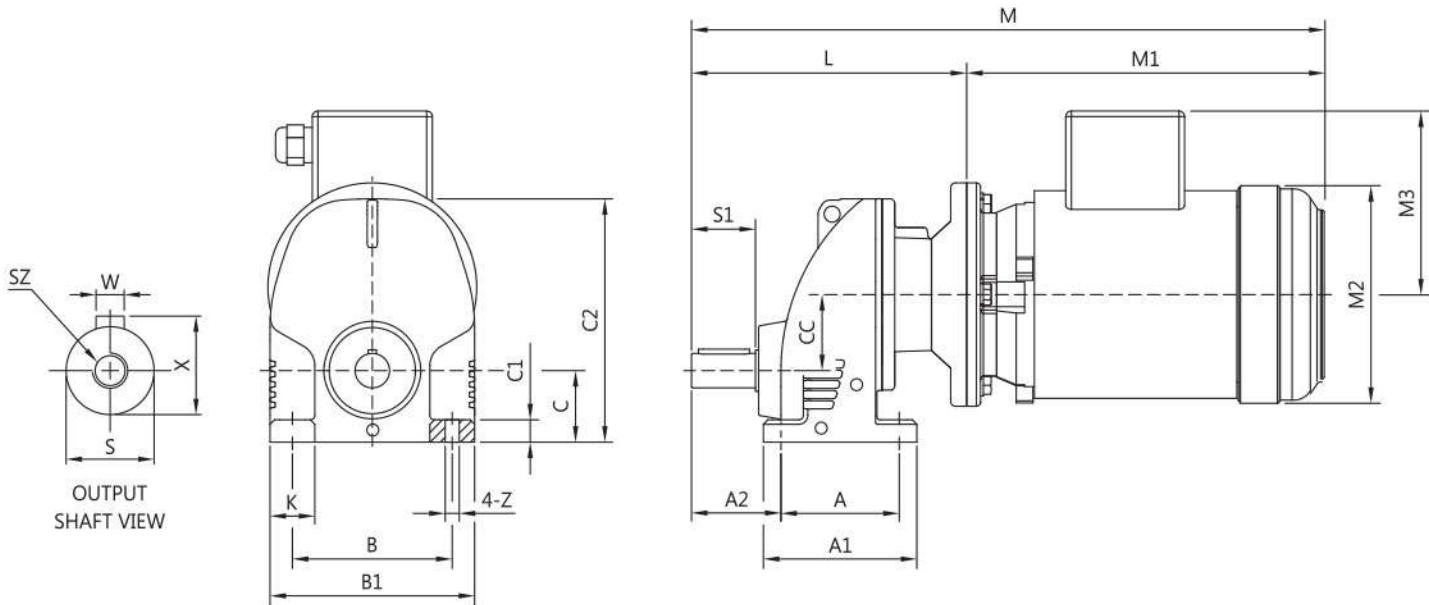
XHD	DIMENSION				
	U	19	24		
57	D1	86	96		
	D	236	246		
	U	19	24		
67	D1	115.5	119.5		
	D	290.5	294.5		
	U	19	19*	24	38
77	D1	89.5	106	114	177
	D	299.2	315.7	323.7	386.7
	U	19	28	38	42
87	D1	95.5	114.5	167.5	240.5
	D	339.5	358.5	411.5	484.5
	U	28	38	42	48
97	D1	110.5	159.5	232.5	237.5
	D	408.5	457.5	530.5	535.5
	U	28	38	42	48
107	D1	110.5	150	223	228
	D	442.5	482	555	560

INPUT SHAFT (SOLID)				
U	V	T	U1	UZ
19k6	21.5	6	40	M6*12L
24k6	27	8	50	M8*16L
28k6	31	8	60	M8*16L
38k6	41	10	80	M12*24L
42k6	45	12	110	M16*32L
48k6	51.5	14	110	M16*32L

unit : mm



XHFM

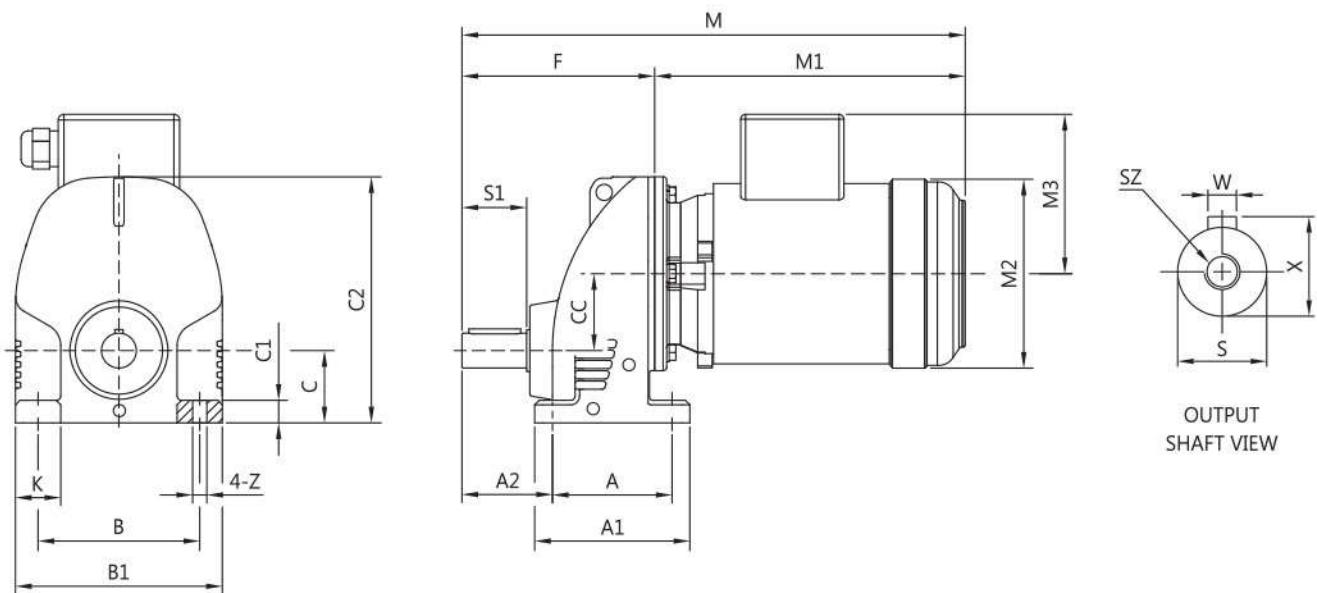
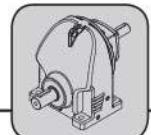


XHFM	A	A1	A2	B	B1	C	C1	C2	CC	K	Z	OUTPUT SHAFT					
												S	S1	W	X	SZ	Oil (L)
57	110	137	56	125	156	63	18	197	54	31	11	20k6	40	6	22.5	M6*20L	0.6
67	120	150	75	135	170	80	20	218	58	35	14	25k6	50	8	28	M10*25L	0.8
77	150	190	85	170	204	90	25	257	67	50	18	30k6	60	8	33	M10*25L	1.1
87	160	206	110	215	266	100	30	327	102	60	18	40k6	80	12	43	M16*35L	1.7
97	185	240	140	250	320	112	35	381	119	70	22	50k6	100	14	53.5	M16*32L	2.1
107	210	260	152	310	360	140	45	451	136	80	22	60m6	120	18	64	M20*40L	3.9

XHFM	DIMENSION										
	HP	1/4	1/2	1	2	3					
57	L	198.5	198.5	216.5	216.5	233					
	M1	207	225	250	295	325					
	M	405.5	423.5	466.5	511.5	558					
67	HP	1/4	1/2	1	2	3	5				
	L	221.5	221.5	239.5	239.5	256	256				
	M1	207	225	250	295	325	345				
	M	428.5	446.5	489.5	534.5	581	601				
77	HP	1	2	3	5	7.5	10				
	L	268.7	268.7	285.2	285.2	333.7	333.7				
	M1	250	295	325	345	387	425				
	M	518.7	563.7	610.2	630.2	720.7	758.7				
87	HP	3	5	7.5	10	15	20				
	L	310	310	358.5	358.5	394.5	394.5				
	M1	325	345	387	425	495	540				
	M	635	655	745.5	783.5	889.5	934.5				
97	HP	3	5	7.5	10	15	20	25	30		
	L	360	360	404.5	404.5	440.5	440.5	449.5	449.5		
	M1	325	345	387	425	495	540	577	615		
	M	685	705	791.5	829.5	935.5	980.5	1026.5	1064.5		
107	HP	3	5	7.5	10	15	20	25	30	40	
	L	394	394	429	429	465	465	474	474	474	505
	M1	325	345	387	425	495	540	577	615	658.5	670
	M	719	739	816	854	960	1005	1051	1089	1132.5	1175

DIMENSION MOTOR		
HP	M2	M3
1/4	120	108
1/2	136	116
1	160	127
2	176	139
3	198	149
5	220	167
7.5	258	188
10	258	188
15	334	286
20	334	286
25	382	350
30	382	350
40	450	355
50	505	375
60	505	375

unit : mm



XHM	A	A1	A2	B	B1	C	C1	C2	CC	F	K	Z	OUTPUT SHAFT					
													S	S1	W	X	SZ	Oil (L)
57	110	137	56	125	156	63	18	197	54	150	31	11	20k6	40	6	22.5	M6*20L	0.6
67	120	150	75	135	170	80	20	218	58	175	35	14	25k6	50	8	28	M10*25L	0.8
77	150	190	85	170	204	90	25	257	67	209.7	50	18	30k6	60	8	33	M10*25L	1.1
87	160	206	110	215	266	100	30	327	102	244	60	18	40k6	80	12	43	M16*35L	1.7
97	185	240	140	250	320	112	35	381	119	298	70	22	50k6	100	14	53.5	M16*32L	2.1
107	210	260	152	310	360	140	45	451	136	332	80	22	60m6	120	18	64	M20*40L	3.9

XHM	DIMENSION							
	HP	1/4	1/2	1	2	3	5	
57	M1	225	241	302.5	348	396	408	
	M	375	391	452.5	498	546	558	
	HP	1/4	1/2	1	2	3	5	
67	M1	225	241	302.5	348	396	408	
	M	400	416	477.5	523	571	583	
	HP	1/2	1	2	3	5	7.5	
77	M1	297	342.5	390.5	402.5	441	441	
	M	506.7	552.2	600.2	612.2	650.7	650.7	
	HP	1	2	3	5	7.5	10	15
87	M1	287.5	333	381	393	431.5	469.5	550
	M	531.5	577	625	637	675.5	713.5	794
	HP	3	5	7.5	10	15	20	25
97	M1	377	389	423.5	461	542	586	607.5
	M	675	687	721.5	759	840	884	905.5
	HP	7.5	10	15	20	25	30	40
107	M1	414	452	532.5	576.5	598	598	636
	M	746	784	864.5	908.5	930	930	968
	HP							1045

DIMENSION MOTOR		
HP	M2	M3
1/4	120	108
1/2	136	116
1	160	127
2	176	139
3	198	149
5	220	167
7.5	258	188
10	258	188
15	334	286
20	334	286
25	382	350
30	382	350
40	450	355
50	505	375
60	505	375

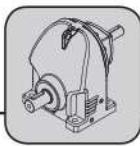
unit : mm

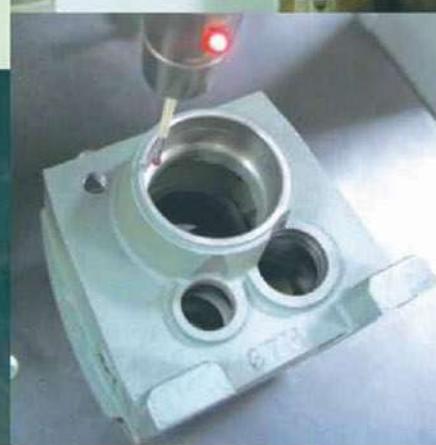
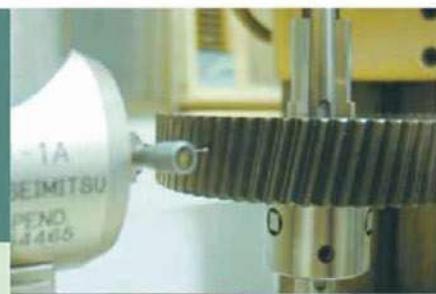


Berat (Kg)

Size		17		37		47		67		77		87		97		107		137		147	
Model	HP	Stage		Stage		Stage		Stage		Stage		Stage		Stage		Stage		Stage		Stage	
		2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3
MHF	0.125	7.77	8.15																		
	0.25/0.5	7.88	8.25	11.4	11.9	17.7	18.6	28.4	29.6												
	1/2	8.5	8.88	13.2	13.7	20.3	20.3	30.2	31.4	34.7	36.4	64.9	68.1								
	3/5					23.2	23.2	33.1	34.3	37.4	39.1	67.6	70.8	101.2	105.3						
	7.5/10									43.8	45.5	73.6	76.8	106.9	111.0	161.0	166.8				
	15/20											84.6	87.8	117.8	121.9	171.0	176.8	262.0	272.5	385.9	398.5
	25/30/40													126.9	131.0	181.0	186.8	271.0	281.5	394.9	407.4
	50/60															188.0	193.8	279.0	289.5	403.5	416.0
	75																	297.0	307.5	420.9	433.5
	100/125																		436.0	448.5	
Foot Mounting	16	7.62	8.02	10.4	11.0	14.4															
	19			10.8	11.3	16.9	17.8	29.6	30.8	33.9	35.6	64.4	67.6								
	24					17.1	18.0	29.8	31	81.8	83.5										
	28											64.7	67.9	98.0	102.1						
	38									39.3	41.0	69.0	72.2	102.2	106.3	157.0	162.8				
	42											77.2	80.4	110.2	114.3	164.0	169.8	254.0	264.5		
	48											116.8	120.9	175.0	180.8	266.0	276.5				
	55																273.0	283.5			
	0.125	11.5	11.88																		
	0.25	15	15.38	14.3	15.0	20.5	21.4	31.3	32.5												
MHM	0.5	18.5	18.88	16.3	17.0	22.5	23.4	33.3	34.5												
	1			19.5	20.0	25.5	26.4	36.3	37.5	40.6	42.3										
	2			25.5	26.0	31.5	32.4	42.3	43.5	46.6	48.3										
	3					37.0	37.9	47.8	49	52.7	54.4	82.5	85.7	116.1	120.2						
	5					45.0	45.9	55.8	57	60.7	62.4	90.5	93.7	124.1	128.2						
	7.5									92.3	94.0	122.4	125.6	154.9	159.0	208.8	214.6				
	10									102.3	104.0	132.4	135.6	164.9	169.0	218.8	224.6				
	15											177.4	180.6	211.1	215.2	264.0	269.8	352.4	362.9		
	20											197.4	200.6	231.1	235.2	284.0	289.8	372.4	382.9		
	25/30													314.8	318.9	369.7	375.5	457.1	467.9		
MVF MWF	40																429.7	435.5	517.1	527.6	
	50/60																469.2	475.0	558.8	569.3	
	0.125	7.37	7.75																		
	0.25/0.5	7.48	7.86	13.3	13.9	19.0	19.9	31.2	32.4	36.7											
	1/2	8.1	8.48	15.1	15.7	20.7	21.5	33	34.2	42.6	44.3	74.3	77.5								
	3/5					23.6	24.4	35.9	37.1	45.3	47.0	77.0	80.2	121.6	125.7						
	7.5/10									51.7	53.4	83.0	86.2	127.3	131.4	176.2	182.0				
	15/20											94.0	97.2	138.2	142.3	186.2	192.0	296.5	307.0	381.4	393.9
	25/30/40													147.3	151.4	196.2	202.0	305.5	316.0	390.3	402.8
	50/60															203.2	209.0	313.5	324.0	398.9	411.5
	75																	331.5	342.0	416.4	428.9
	100/125																		431.4	444.0	
Flange Mounting	16	8.02	8.42	12.4	13.0																
	19			12.7	13.3	18.2	19.0	32.4	33.6	41.8	43.5	73.8	77.0								
	24					18.4	19.2	32.6	33.8	89.7	91.4										
	28											74.1	77.3	118.4	122.5						
	38								47.2	48.9	78.4	81.6	122.6	126.7	172.2	178.0					
	42										86.6	89.8	130.6	134.7	179.2	185.0	288.5	299.0	288.5	299.0	
	48											137.2	141.3	190.2	196.0	300.5	311.0	300.5	311.0		
	55																307.5	318.0	307.5	318.0	
	0.125	11.9	12.28																		
	0.25	15.4	15.78	16.3	16.9	21.8	22.6	34.1	35.3												
MVM MWM	0.5	18.9	19.28	18.3	18.9	23.8	24.6	36.1	37.3												
	1			21.4	22.0	26.8	27.6	39.1	40.3	48.5	50.2										
	2			27.4	28.0	32.8	33.6	45.1	46.3	54.5	56.2										
	3					38.2	39.1	50.6	51.8	60.6	62.3	91.9	95.1	136.5	140.6						
	5					46.3	47.1	58.6	59.8	68.6	70.3	99.9	103.1	144.5	148.6						
	7.5									100.2	101.9	131.8	135.0	175.3	179.4	224.0	229.8				
	10									110.2	111.9	141.8	145.0	185.3	189.4	234.0	239.8				
	15											186.8	190.0	231.5	235.6	279.2	285.0	386.9	397.4	386.9	397.4
	20											206.8	210.0	251.5	255.6	299.2	305.0	406.9	417.4	406.9	417.4
	25/30													335.2	339.3	384.9	390.7	491.6	502.1	491.6	502.1
40																444.9	450.7	551.6	562.1	551.6	562.1
	50/60															484.4	490.2	593.3	603.8	593.3	603.8









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