



VARIATORS



23-20
66-400

NEW

VARIABLE SPEED DRIVER



Feature:

- (1) High strength aluminum alloy outer shell body featured with attractive appearance, light in weight, convenient in transportation, and greatly reduce the weight of the body.
- (2) The installation of the flange is inter-convertible with that of the foot stand, capable of reducing inventory and enabling rapid supply.
- (3) The lateral side of the input is air-tight to completely get rid of leakage disturbance, and for convenient installation.
- (4) Connected with the motor, adopting IEC specifications. Both B5 flange and B14 flange can be used.
- (5) Adopting a magnetic oil exhaust screw to maintain internal cleanness and lengthen its life of service.
- (6) Highly efficient operation without noise and vibration.
- (7) Can be used for obverse and reverse operation, and the whole body of the device is anti-explosive without producing any danger.
- (8) The high and low speed is within a 6 times range, and the variable speed can be freely geared by the operator. Model D can achieve variable output of unlimited speed.
- (9) Both the two sides of the handle can be used, to which a digital remote control device can also be installed for convenient remote control operation.

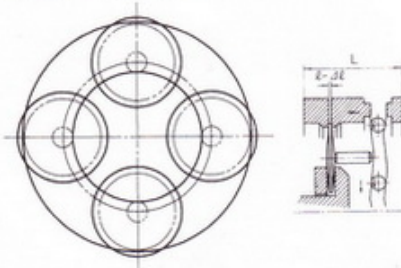
Foreward:

NP Model variable speed variator is a brand new designed DISCO variable speed variator. The current production Serial No. of its aluminum alloy body is 003. 005. 010. 020. 030. 050, and the horse power is ranging from 1/4HP to 5.5HP (the horse power of cast-iron model is ranging from 7.5HP to 30HP).

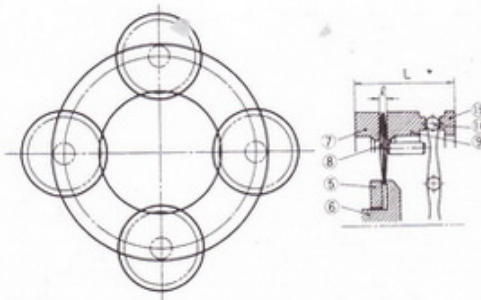
Principle of Speed Change:

When the motor drives the fixed-star wheels (5) (6) to rotate, the plane wheel (8) is actuated to perform such functions as rotation and revolution due to pressure from the fixed-star wheels (5) (6), the outer ring (7) and speed regulating cam (9). Turn the handle to adjust speed of cam (9), steel-bead ring (14), and radius of the fixed cam (15) and the controlling planet wheel (8). When the planet wheel (8) takes a revolution, it will cause the output shaft to turn one cycle. When the outer ring (7) and speed regulating cam (9) contact with the inner circle of planet wheel (8), it will prolong the time for revolution. This means that the slow-down of output will increase torque.

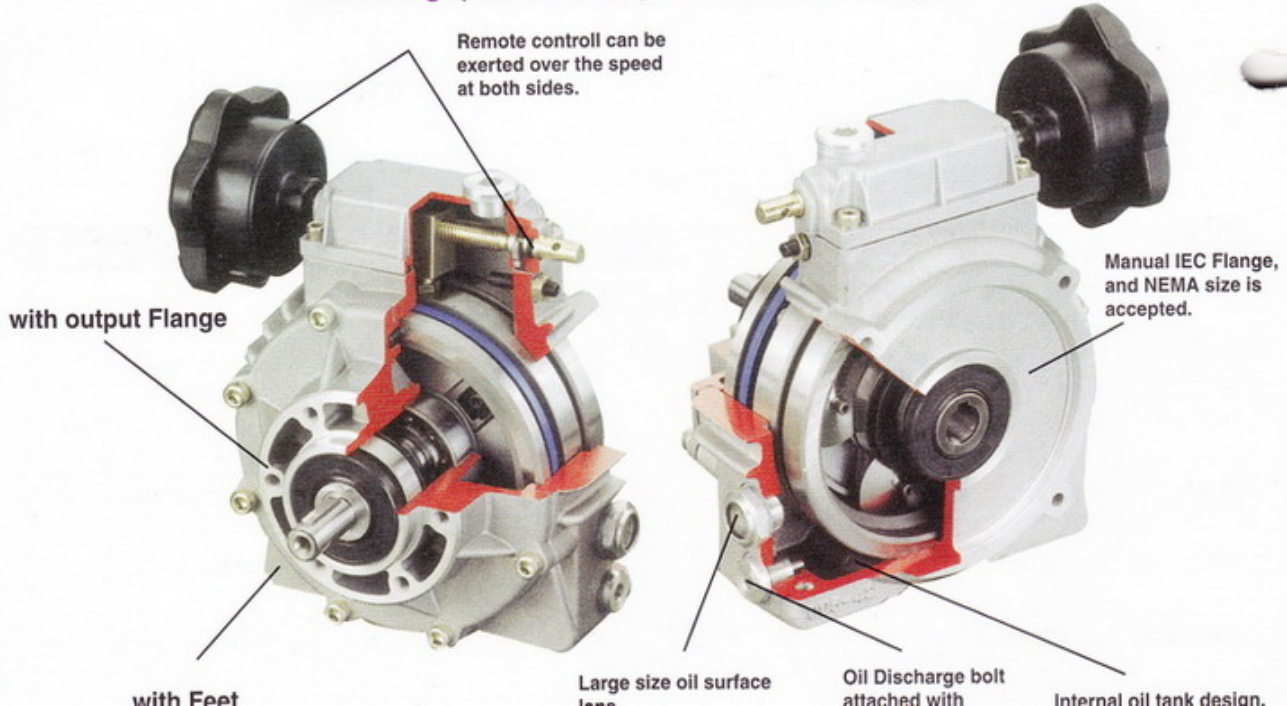
(a) At the Max. Speed:



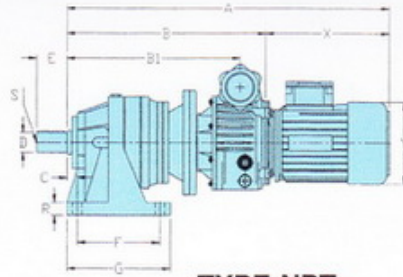
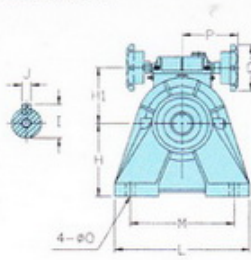
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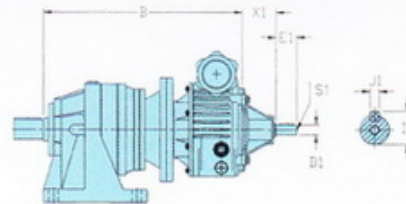
The rotating speed of the output shaft & torsion diagram.



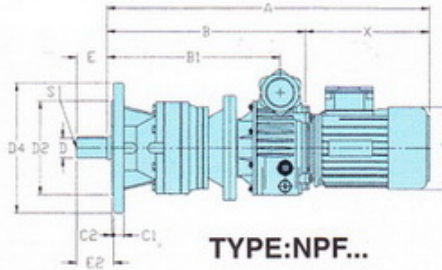
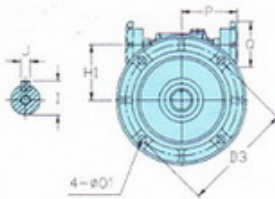
DIMENSION



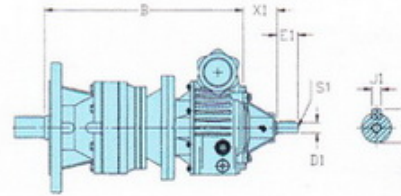
TYPE:NPT...



TYPE:NPTK...



TYPE:NPF...



TYPE:NPFK...

NPT,NPF TYPE	A	B	B1	C	C1	C2	D	D1	D2	D3	D4	E	E1	E2	F	G	H	H1	I	I1	J	J1	L	M	O	O1	R	S	S1	X	X1	Y
003/1/24	445	253	209					11					23				76			12.5	4							M5	192	42	122	
005/1/24	481	263	223					14					30				88			16	5							M6	218	50	137	
003/2/24	475	283	239	18	12	4	24	11					23				76			12.5	4							M5	192	42	122	
005/2/24	511	293	253					14					30		44	90	120	90		16	5	156	140	12	10	13	M8	M6	218	50	137	
003/3/24	505	313	269					11					23				76			12.5	4							M5	192	42	122	
005/3/24	541	323	283					14					30				88			16	5							M6	218	50	137	
010/1/32	569	330	282					19					40				107			21.5	6							M6	239	65	158	
020/1/32	628	358	291					24					50				126			27	8							M8	270	70	177	
010/2/32	603	364	316					19					40				107			21.5	6							M6	239	65	158	
020/2/32	662	392	325	20	16	4	32	24	130	165	200	50	50	59	125	155	110			27	10	8	210	170	12	12	15	M10	M8	270	70	177
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010/3/32	637	398	350					19					40				107			21.5	6							M6	239	65	158	
030/1/38	785	445	361					28					60				158			31	8							M10	340	95	197	
050/1/38	785	445	361					28					60				158			31	8							M10	340	95	197	
010/2/38	644	405	357					19					40				107			21.5	6							M6	239	65	158	
020/2/38	703	433	366					24					50				126			27	8							M8	270	70	177	
030-050/2/38	808	468	384	20	20	4	38	28	180	215	250	58	60	67	160	200	140			31	10	8	260	200	18	16	20	M12	M10	340	95	197
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030/3/38	832	492	408					28					60				158			31	8							M10	340	95	197	
075-100/1/50	914	512	411					38					80				205			41	10							M12	402	110	253	
030-050/2/50	836	496	412					28					60				158			31	8							M10	340	9	197	
075-100/2/50	956	554	453	20	20	4	50	38	230	265	300	85	80	91	160	200	190			41	10	10	260	200	18	16	20	M16	M12	402	110	253
010/3/50	685	466	398					19					40				107			21.5	6							M6	239	65	158	
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030-050/3/50	849	509	425					28					60				158			31	8							M10	340	95	197	
030-050/2/55	907	567	483					28					60				158			31	8							M10	340	95	197	
075-100/2/55	1027	625	524					38					80				205			41	10							M12	402	110	253	
020/3/55	844	574	507	47	20	4	55	24	250	300	350	95	50	104	250	305	210			27	16	8	370	300	22	19	30	M16	M8	270	70	177
030-050/3/55	949	609	524					28					60				158			31	8							M10	340	95	197	
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075-100/2/60	1027	625	524					38					80				205			41	10							M12	402	110	253	
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030-050/3/60	949	609	524	47	26	4	60	28	250	300	350	105	60	114	250	305	210			31	18	8	370	300	22	19	30	M20	M10	340	95	197
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075-100/3/80	1217	815	714					38					80				205			41	10							M12	402	110	253	
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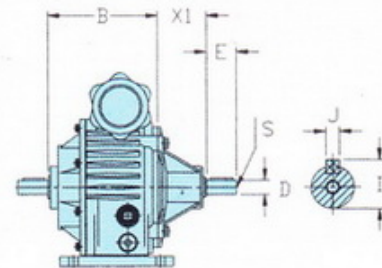
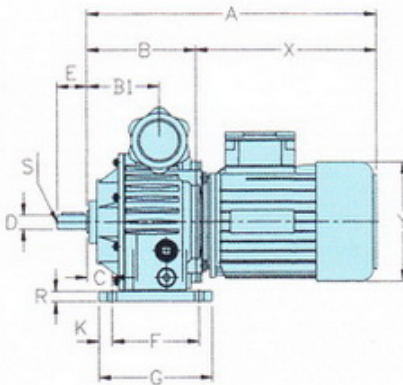
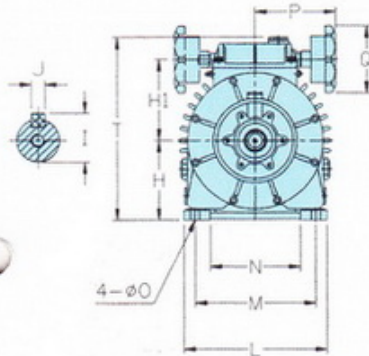
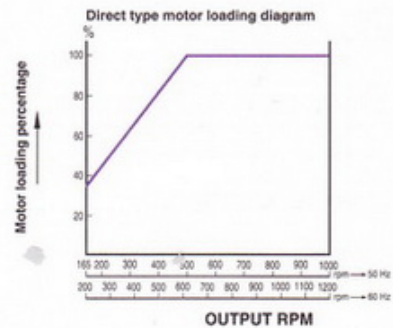
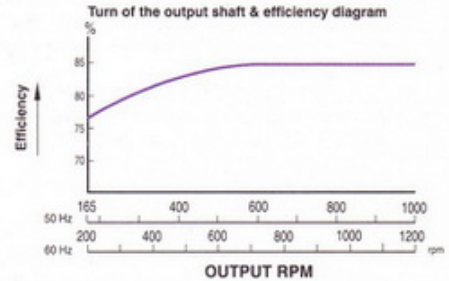
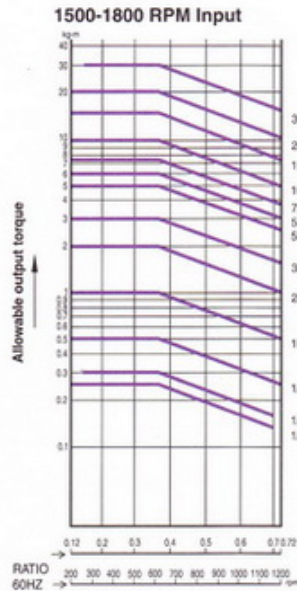
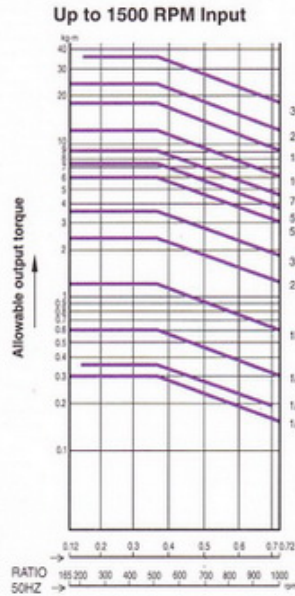
* Weight without motor & input group

VARIABLE SPEED DRIVER



ALLOWABLE OUTPUT TORQUE

The rotating speed of the output shaft & torsion diagram.

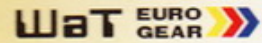


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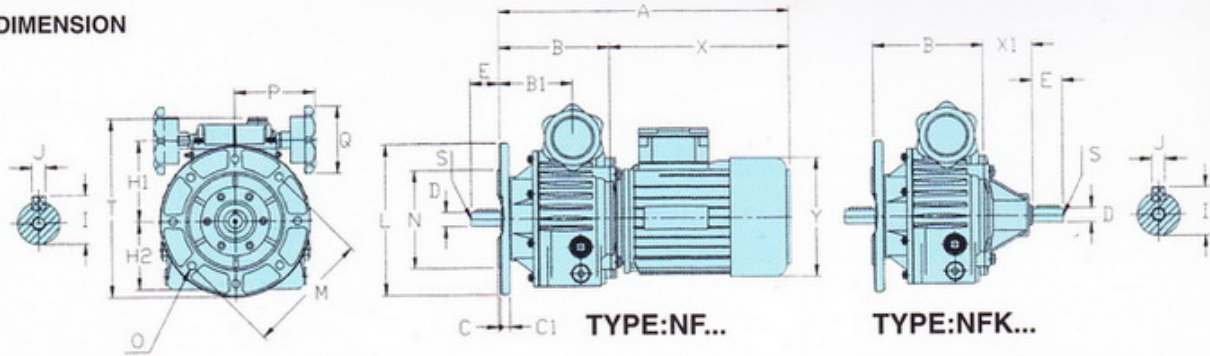
TYPE:NM

TYPE	A	B	B1	C	D	E	F	G	H	H1	I	J	K	L	M	N	O	P	Q	R	S	T	X	X1	Y	WT.(kg)
NM003	302	110	66	25	11 (14)	23	105	130	71	76	12.5 (16)	4 (5)	12.5	140	110	80	9	97	89	11	M5 (6)	173	192	42	122	4
NM005	336	118	78	30	14 (19)	30	105	130	90	88	16 (21.5)	5 (6)	12.5	155	120	83	10	97	89	13	M6	202	218	50	137	5.5
NM010	382	143	95	35	19 (24)	40	125	150	106	107	21.5 (27)	6 (8)	12.5	190	160	120	12	107	89	13.5	M6 (M8)	242	239	65	158	9.5
NM020	441	171	104	50	24 (28)	50	140	165	125	126	27 (31)	8	12.5	230	180	130	12	107	89	16	M8 (M10)	277	270	70	177	15
NM-030/050	546	206	122	25	28 (38)	60	230	270	150	158	31 (41)	8 (10)	20	300	245	190	14	155	120	20	M10 (M12)	337	340	95	197	30
NM-075/100	686	264	163	33	38 (42)	80	250	290	180	205	41 (45)	10 (12)	20	365	315	225	18	183	120	25	M12	415	402	110	253	85
NM-150	878	290	153	50	47	110	280	330	215	217	45	12	25	470	375	280	18	195	160	35	M12	512	538	125	314	135

VARIABLE SPEED DRIVER

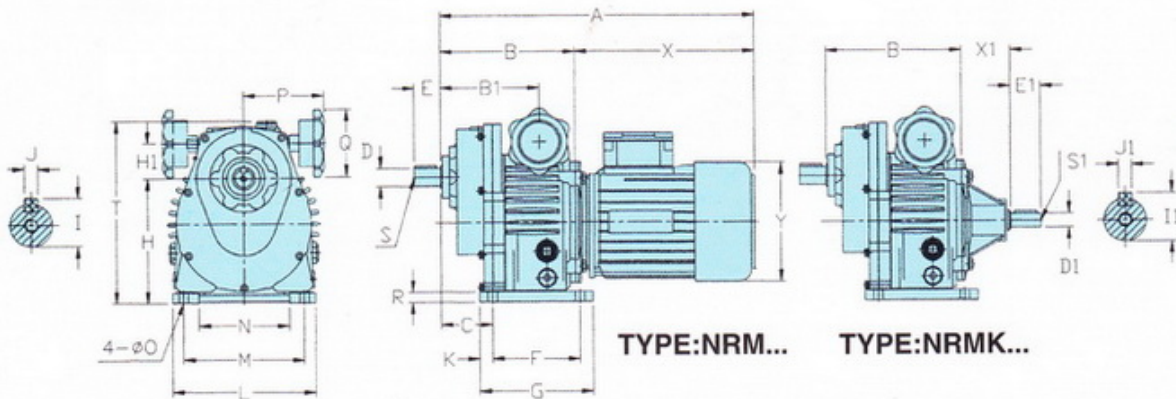


DIMENSION



TYPE	A	B	B1	C	C1	D	E	H1	H2	I	J	L	M	N	O	P	Q	S	T	X	X1	Y	WT.(kg)
NF003	302	110	66	3.5	8	11 (14)	23	76	58	12.5 (16)	4 (5)	140 (160)	115 (130)	95 (110)	9 (9)	97	89	M5	165 (175)	192	42	122	4
NF005	338	120	80	3.5	10.5	14 (19)	28	88	73	16 (21.5)	5 (6)	160 (200)	130 (165)	110 (130)	9 (11)	97	89	M6	188 (208)	218	50	137	5.5
NF010	384	145	97	3.5	13.5	19 (24)	38	107	91	21.5 (27)	6 (8)	200	165	130	11	107	89	M6 (M8)	237	239	65	158	9.5
NF020	443	173	106	4	14	24 (28)	48 (58)	126	108	27 (31)	8	200 (250)	165 (215)	130 (180)	11 (14)	107	89	M8 (M10)	260 (277)	270	70	177	15
NF030/050	548	208	124	4 (5)	16	28 (38)	58 (78)	158	134	31 (41)	8 (10)	250 (300)	215 (265)	180 (230)	14	155	120	M10 (M12)	336	340	95	197	30
NF075/100	668	266	165	5	18	38 (42)	78	205	165	41 (45)	10 (12)	300 (350)	265 (300)	230 (250)	14 (18)	183	120	M12	413	402	110	253	85
NF150	830	292	155	5	20	42	118	217	210	45	12	350	300	250	18	195	160	M12	453	538	125	314	135

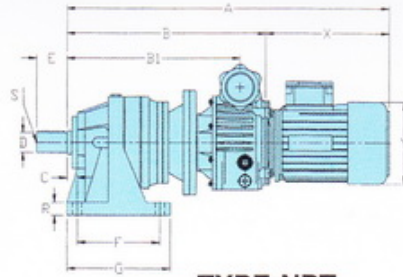
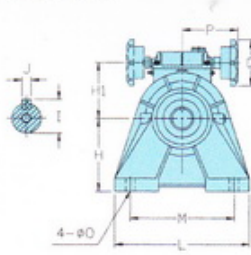
* Weight without motor & input group



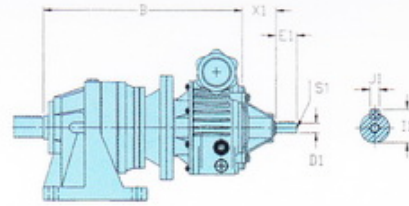
TYPE	A	B	B1	C	D	D1	E	E1	F	G	H	H1	I	I1	J	J1	K	L	M	N	O	P	Q	R	S	S1	T	X	X1	Y	WT.(kg)
NRM003	331	139	108	57	19 (20)	11	30	23	105	130	111 (116)	36	21.5 (22.5)	12.5	6	4	12.5	140	110	80	9	97	89	11	M6	M5	173	192	42	122	5
NRM005	363	145	105	54	19 (20)	14	30	30	105	130	140 (135)	38	21.5 (22.5)	16	6	5	12.5	155	120	83	10	97	89	13	M6	M6	203	218	50	137	8
NRM010	418	179	131	69	24 (25)	19	35	40	125	150	169 (160)	44	27 (28)	21.5	8	6	12.5	190	160	120	12	107	89	13.5	M8	M6	242	239	65	158	14
NRM020	471	201	135	78	28 (30)	24	45	50	140	165	188 (190)	63	31 (33)	27	8	8	12.5	230	180	130	12	107	89	16	M10	M8	277	270	70	177	20
NRM030/050	586	246	165	63	38 (40)	28	60	60	230	270	230 (224)	78	41 (43)	31	10 (12)	8	20	300	145	190	14	155	120	20	M12	M8	337	340	95	197	45

* Weight without motor & input group

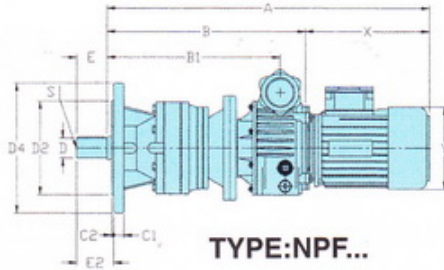
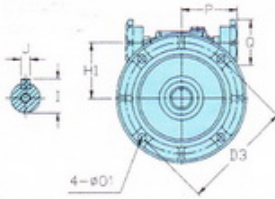
DIMENSION



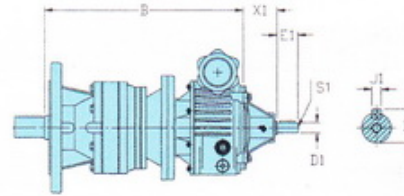
TYPE:NPT...



TYPE:NPTK...



TYPE:NPF...



TYPE:NPFK...

NPT,NPF TYPE	A	B	B1	C	C1	C2	D	D1	D2	D3	D4	E	E1	E2	F	G	H	H1	I	I1	J	J1	L	M	O	O1	R	S	S1	X	X1	Y	
003/1/24	445	253	209					11					23				76			12.5	4								M5	192	42	122	
005/1/24	481	263	223					14					30				88			16	5								M6	218	50	137	
003/2/24	475	283	239	18	12	4	24	11					23				76			12.5	4								M5	192	42	122	
005/2/24	511	293	253					14					30		44	90	120	90		16	5	156	140	12	10	13	M8	M6	218	50	137		
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005/3/24	541	323	283					14					30				88			16	5							M6	218	50	137		
010/1/32	569	330	282					19					40				107			21.5	6							M6	239	65	158		
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010/2/32	603	364	316					19					40				107			21.5	6							M6	239	65	158		
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005/3/32	591	373	333					14					30				88			16	5							M6	218	50	137		
010/3/32	637	398	350					19					40				107			21.5	6							M6	239	65	158		
030/1/38	785	445	361					28					60				158			31	8							M10	340	95	197		
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020/2/38	703	433	366					24					50				126			27	8							M8	270	70	177		
030-050/2/38	808	468	384	20	20	4	38	28					60		67	160	200	140		31	10	8	260	200	18	16	20	M12	M10	340	95	197	
003/3/38	586	394	350					11					23				76			12.5	4								M5	192	42	122	
005/3/38	622	404	364					14					30				88			16	5							M6	218	50	137		
010/3/38	668	429	381					19					40				107			21.5	6							M6	239	65	158		
020/3/38	727	457	390					24					50				126			27	8							M8	270	70	177		
030/3/38	832	492	408					28					60				158			31	8							M10	340	95	197		
075-100/1/50	914	512	411					38					80				205			41	10							M12	402	110	253		
030-050/2/50	836	496	412					28					60				158			31	8							M10	340	9	197		
075-100/2/50	956	554	453	20	20	4	50	38					80		91	160	200	190		41	10	10	260	200	18	16	20	M16	M12	402	110	253	
010/3/50	685	466	398					19					40				107			21.5	6							M6	239	65	158		
020/3/50	744	474	417					24					50				126			27	8							M8	270	70	177		
030-050/3/50	849	509	425					28					60				158			31	8							M10	340	95	197		
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075-100/2/55	1027	625	524					38					80				205			41	10							M12	402	110	253		
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075-100/2/60	1027	625	524					38					80				205			41	10							M12	402	110	253		
020/3/60	844	574	507					24					50		114	250	305	210		27	8		370	300	22	19	30	M20	M8	270	70	177	
030-050/3/60	949	609	524	47	26	4	60	28					60				158			31	18	8						M10	340	95	197		
075-100/3/60	1069	667	566					38					80				205			41	10							M12	402	110	253		
030-050/3/80	1097	757	673	45	30	4	80	28					60		140	356	456	250		31	8	22	445	365	28	22	40	3-M12	M10	340	95	197	
075-100/3/80	1217	815	714					38					80				205			41	10							M12	402	110	253		
075-100/3/90	1219	817	716	45	30	4	90	38					80		180	356	456	250		31	95	41	25	445	365	28	22	40	3-M12	M12	402	110	253

* Weight without motor & input group