

# Maximum Drive Torques

Unit size	F <sub>Max</sub> [N]	Stroke/revol. [mm]	M <sub>load</sub> [Nm]	M <sub>idle</sub> [Nm]	M <sub>total</sub> [Nm]
Beta 40-Z..	500	100	7.96	0.30	8.26
Beta 40-S..	1000	10	1.59	0.40	1.99
Beta 50-C-ZRS	700	110	12.25	0.40	12.65
Beta 50-C-ARS	700	110	12.25	1.50	13.75
Beta 50-C-SRS	1000	10	1.59	0.30	1.89
Beta 60-ZSS	850	160	21.65	1.10	22.75
Beta 60-SGV-SSS	4000	50	31.83	0.70	32.53
Beta 70-C-Z..	1100	175	30.64	1.20	31.84
Beta 70-C-A..	900	220	31.51	1.00	32.51
Beta 70-C-S..	2000	40	12.73	0.40	13.13
Beta 80-Z..	1350	220	47.27	1.50	48.77
Beta 80-A..	1000	220	35.01	1.50	36.51
Beta 80-S..	4000	50	31.83	0.80	32.63
Beta 80-SGV	6000	50	47.75	1.00	48.75
Beta 80-C-Z..	2200	210	73.53	1.80	75.33
Beta 80-C-A..	1300	220	45.52	1.80	47.32
Beta 100-Z..	2800	200	89.13	2.50	91.63
Beta 100-D-ZSS	1500	160	38.20	5.00	43.20
Beta 100-D-ASS	2200	240	84.03	2.50	86.53
Beta 100-D-SSS	4000	50	31.83	1.30	33.13
Beta 110-Z..	4000	300	190.99	3.50	194.49
Beta 110-A..	2000	300	95.49	3.50	98.99
Beta 110-S..	6000	50	47.75	1.50	49.25
Beta 110-C-SGV (KGT 40xx)	16000	40	101.86	1.50	103.36
Beta 110-C-SGV (KGT 32xx)	12000	60	114.59	1.50	116.09
Beta 120-Z..	4000	240	152.79	3.20	155.99
Beta 120-C-ZSS	4800	300	229.18	4.50	233.68
Beta 120-C-SSS	12000	60	114.59	2.00	116.59
Beta 140-Z..	4000	220	140.06	3.50	143.56
Beta 140-A..	2500	240	95.49	3.50	98.99
Beta 140-S..	6000	50	47.75	1.50	49.25
Beta 140-C-ZSS	4000	220	140.06	3.50	143.56
Beta 140-C-ASS	2500	240	95.49	3.50	98.99
Beta 140-C-SSS	6000	50	47.75	1.50	49.25
Beta 165-ZSS	10000	450	716.20	12.00	728.20
Beta 165-SSS	18000	40	114.59	3.00	117.59
Beta 165-SGV	18000	40	114.59	3.00	117.59
Beta 165-C-SGV	25000	20	79.58	3.20	82.78
Beta 165-C-SSF	25000	20	79.58	3.20	82.78
Beta 180-ZSS	6000	320	305.58	8.00	313.58
Beta 180-ASS	3500	320	178.25	8.00	186.25
Beta 180-SSS	12000	60	114.59	2.50	117.09
Beta 180-C-ZSS	6000	320	305.58	8.00	313.58
Beta 180-C-ASS	3500	320	178.25	8.00	186.25
Beta 180-C-SSS	12000	60	114.59	2.50	117.09

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Delta 90-ZRS	800	100	12.73	2.00	14.73
Delta 90-SRS	1000	10	1.59	0.3	1.59
Delta 110-C-ZSS	950	110	16.63	2.00	18.63
Delta 110-C-SSS	2000	40	12.73	1.00	13.73
Delta 145-C-ZSS	2000	150	47.75	3.00	50.75
Delta 145-C-SSS	6000	50	47.75	1.00	48.75
Delta 200-ZSS	6000	220	210.08	6.8	216.88
Delta 200-SSS	10000	60	95.49	2.8	95.49
Delta 240-ZSS	2500	150	59.68	5.5	59.68
Delta 240-SSS	12000	60	114.59	2.8	114.59
Delta 240-C-ZSS	3800	180	108.86	5.5	108.86
Delta 240-C-SSS	12000	60	114.59	2.8	114.59
Alpha 15-B-155	4000	50	31.83	0.35	31.83
Alpha 20-B-255	6000	50	47.75	1.2	47.75
Alpha 30-B-325	12000	40	76.39	1.6	76.39
Alpha 35-B-455	18000	40	114.59	2.5	114.59
Gamma 90-ZSS	2300	210	76.87	3.2	76.87
Gamma 90-ZSSD	1150	200	36.61	2.9	36.61
Gamma 90-ASH	2300	210	76.87	3.2	76.87
Gamma 90-AZ.. (i=5:1)	1800	24	6.88	2.5	6.88
Gamma 120-ZSS	2800	200	89.13	3.00	92.13
Gamma 120-ZSSD	1800	200	57.30	3.00	60.30
Gamma 120-ASH	3200	240	122.23	3.6	122.23
Gamma 120-AZ.. (i=5:1)	2200	40	14.01	4.8	14.01
Gamma 160-ZSS	4000	240	152.79	4.00	156.79
Gamma 160-ZSSD	2200	210	73.53	4.00	77.53
Gamma 160-ASH	4000	240	152.79	4.00	156.79
Gamma 160-AZ.. (D75 i=5:1)	2200	40	14.01	5.8	14.01
Gamma 160-AZ.. (D90 i=5:1)	4000	40	25.46	5.8	25.46
Gamma 220-ZSS	6000	320	305.58	7.00	312.58
Gamma 220-ZSSD	2800	240	106.95	5.25	106.95
Gamma 220-ASS	6000	320	305.58	7.00	312.58
Gamma 220-AZ.. (M2 D90 i=5:1)	4000	40	25.46	7.2	25.46
Gamma 220-AZ.. (M2 D115 i=5:1)	6000	40	38.20	7.2	38.20
Gamma 220-AZ.. (M3 D90 i=5:1)	4000	40	25.46	7.2	25.46
Gamma 220-AZ.. (M3 D115 i=5:1)	7500	40	47.75	7.2	47.75
Gamma 280-ZSS	10000	450	716.20	11.00	727.20
Gamma 280-ZSSD	4000	300	190.99	11.00	201.99
Gamma 280-AZSS (D90 i=5:1)	4000	40	25.46	8.6	25.46
Gamma 280-AZSS (D115 i=5:1)	7500	40	47.75	8.6	47.75

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Sigma 70-ZRS	1050	125	20.89	0.85	21.74
Sigma 70-AR.	1050	125	20.89	0.85	21.74
Sigma 90-ZRS	1300	175	36.21	3.20	39.41
Sigma 90-ZRSD	650	175	18.10	3.20	21.30
Sigma 90-AR.	1300	150	31.04	2.30	33.34
Sigma 120-ZRS	2800	200	89.13	3.00	92.13
Sigma 120-ZRSD	1800	200	57.30	3.00	60.30
Sigma 120-AR.	3200	240	122.23	3.80	126.03
Sigma 160-ZRS	4000	240	152.79	4.00	156.79
Sigma 160-ZRSD	2300	210	76.87	3.50	80.37
Sigma 160-AR.	4000	240	152.79	4.20	156.99