



Drehmomenttabelle MASTERHELIX

Torque table MASTERHELIX

Tableau torque MASTERHELIX

Dok.-Nr.: VRZ-0020		Seite 1/5
	Datum	Visum
Erstellt:	07.02.11	Heller
Freigabe:	08.02.11	Heller

Grösse Size Taille	Drehzahl Speed Vitesse n_1 (1/min)		500			1'000			2'000			3'000			4'000			6'000		
	a [mm]	i [-]	T_{2D} [N]	T_{2A} [N]	η [-]	T_{2D} [N]	T_{2A} [N]	η [-]	T_{2D} [N]	T_{2A} [N]	η [-]	T_{2D} [N]	T_{2A} [N]	η [-]	T_{2D} [N]	T_{2A} [N]	η [-]	T_{2D} [N]	T_{2A} [N]	η [-]
SG 36	36.1	5	32.9	60.9	0.89	28.7	53.2	0.91	23.1	42.6	0.92	19.1	35.4	0.92	16.5	30.3	0.92	12.8	23.5	0.92
		8.5	32.0	81.4	0.87	28.9	73.2	0.89	24.0	61.1	0.90	20.7	52.3	0.90	18.0	45.7	0.90	14.5	36.7	0.90
		10	32.2	67.7	0.84	28.7	60.3	0.86	23.6	49.6	0.87	20.0	42.0	0.87	17.3	36.5	0.87	13.8	28.9	0.88
		12	28.0	93.0	0.86	25.6	84.6	0.87	21.7	72.0	0.88	18.7	62.4	0.88	16.6	55.0	0.89	13.5	44.7	0.89
		15	29.8	86.4	0.85	29.8	86.4	0.86	25.7	74.9	0.87	22.8	66.0	0.88	20.3	58.8	0.88	16.8	48.6	0.88
		18	33.6	88.4	0.79	33.4	88.0	0.82	28.5	75.0	0.83	24.7	64.8	0.83	21.7	57.0	0.83	17.5	46.1	0.84
		22.5	31.5	75.2	0.77	31.5	75.2	0.80	31.5	75.2	0.82	28.0	66.7	0.82	24.9	59.4	0.82	20.3	48.6	0.82
		28.5	31.7	60.6	0.73	31.5	60.5	0.77	31.2	59.0	0.79	30.6	58.2	0.79	28.5	54.6	0.79	23.5	44.9	0.79
		37	34.0	86.0	0.66	32.4	82.0	0.70	30.8	78.0	0.72	26.8	68.0	0.72	23.6	60.0	0.72	19.4	49.0	0.72
		46	31.0	63.7	0.63	30.6	63.0	0.68	30.3	62.1	0.70	29.6	61.0	0.70	29.4	60.4	0.71	24.2	49.8	0.71
		58	27.1	39.0	0.57	27.0	39.0	0.63	27.0	38.0	0.65	26.6	37.0	0.66	26.3	32.0	0.66	24.5	27.0	0.67
		75	34.1	44.0	0.49	34.0	43.9	0.54	33.3	43.5	0.56	32.7	43.0	0.57	31.5	42.3	0.57	27.3	35.3	0.58
100	14.6	21.7	0.36	14.1	21.0	0.40	13.5	20.0	0.41	13.1	19.5	0.42	12.9	19.2	0.42	11.4	16.9	0.42		



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Grösse Size Taille	Drehzahl Speed Vitesse n_1 (1/min)		500			1'000			2'000			3'000			4'000			6'000		
	a [mm]	i [-]	T_{2D} [N]	T_{2A} [N]	η [-]	T_{2D} [N]	T_{2A} [N]	η [-]	T_{2D} [N]	T_{2A} [N]	η [-]	T_{2D} [N]	T_{2A} [N]	η [-]	T_{2D} [N]	T_{2A} [N]	η [-]	T_{2D} [N]	T_{2A} [N]	η [-]
SG 47	47.5	5	80.2	139.0	0.92	68.0	118.0	0.93	52.5	91.0	0.93	42.7	74.0	0.93	36.3	63.0	0.93	27.7	48.0	0.93
		8.5	80.2	183.0	0.9	71.0	162.0	0.91	57.4	131.0	0.92	48.2	110.0	0.92	41.2	94.0	0.92	32.4	74.0	0.92
		11.75	70.7	157.0	0.88	70.4	156.0	0.89	57.2	127.0	0.9	48.3	107.2	0.9	41.8	92.6	0.9	32.9	73.0	0.9
		16	74.6	140.2	0.84	74.6	140.2	0.86	71.1	133.9	0.86	60.2	113.3	0.86	52.2	98.1	0.86	41.3	77.6	0.87
		18	80.3	228.0	0.82	72.8	206.6	0.84	59.5	168.9	0.85	50.3	142.7	0.86	43.5	123.5	0.86	34.3	97.4	0.86
		20.5	74.2	184.1	0.8	73.5	182.0	0.82	65.3	162.2	0.83	55.1	136.9	0.83	47.8	118.4	0.83	37.5	93.1	0.84
		24.5	72.6	157.4	0.78	72.6	157.4	0.81	72.1	156.2	0.82	61.3	132.7	0.82	53.2	115.2	0.82	42.2	91.4	0.82
		30	75.8	133.0	0.75	76.0	133.0	0.78	56.0	133.0	0.79	38.5	126.0	0.8	28.0	110.0	0.8	19.3	88.0	0.8
		36	85.1	202.0	0.7	83.8	199.0	0.73	68.3	162.0	0.74	57.2	136.0	0.74	49.7	118.0	0.75	38.7	92.0	0.75
		42	80.3	162.7	0.68	79.2	160.5	0.71	77.6	157.2	0.72	65.9	133.4	0.72	57.2	115.8	0.72	45.2	91.6	0.73
		50	79.5	142.3	0.65	78.4	140.4	0.68	77.6	138.9	0.7	72.2	129.4	0.7	63.0	112.9	0.7	50.3	90.1	0.71
		60	78.8	118.0	0.6	78.8	118.0	0.64	77.0	118.0	0.65	74.6	117.0	0.66	65.1	102.0	0.66	51.1	82.0	0.66
		72	68.5	90.0	0.53	67.0	88.0	0.56	66.2	87.0	0.58	63.9	84.0	0.58	59.3	78.0	0.58	46.4	61.0	0.58
100	44.4	71.0	0.48	43.8	70.0	0.52	42.8	68.4	0.54	42.5	68.0	0.54	39.6	63.4	0.55	37.8	60.5	0.55		



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Tableau torque MASTERHELIX

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Grösse Size Taille	Drehzahl Speed Vitesse n_1 (1/min)		500			1'000			2'000			3'000			4'000			6'000		
	a [mm]	i [-]	T _{2D} [N]	T _{2A} [N]	η [-]	T _{2D} [N]	T _{2A} [N]	η [-]	T _{2D} [N]	T _{2A} [N]	η [-]	T _{2D} [N]	T _{2A} [N]	η [-]	T _{2D} [N]	T _{2A} [N]	η [-]	T _{2D} [N]	T _{2A} [N]	η [-]
SG 63	63	7	192.5	376	0.93	163.8	320	0.94	126.5	247	0.94	102.9	201	0.94	86.5	169	0.94	66.0	129	0.94
		11.75	191.5	387	0.90	168.4	342	0.90	129.2	268	0.91	104.0	220	0.91	86.5	187	0.91	64.4	143	0.91
		16	178.5	346	0.87	178.7	346	0.88	153.8	298	0.89	126.9	246	0.89	108.0	209	0.89	83.1	161	0.89
		20	169.2	539	0.86	148.8	473	0.87	119.9	382	0.88	100.3	319	0.88	86.3	274	0.88	67.4	214	0.88
		24.5	180.6	347	0.82	180.3	347	0.84	171.5	329	0.84	142.3	273	0.85	121.5	233	0.85	93.8	180	0.85
		30	219.3	556	0.79	224.7	482	0.81	157.5	380	0.82	105.0	314	0.85	78.8	267	0.82	52.5	206	0.82
		39	208.3	427	0.74	208.3	427	0.76	165.4	339	0.77	136.5	280	0.77	115.5	237	0.77	89.3	183	0.77
		44	206.5	389	0.73	202.3	381	0.75	176.2	332	0.76	146.0	275	0.76	124.7	235	0.76	96.6	182	0.76
		50	204.8	349	0.70	200.1	341	0.73	188.3	321	0.74	156.6	267	0.74	133.8	228	0.74	103.8	177	0.75
		57	204.8	304	0.67	200.7	298	0.70	196.0	291	0.71	167.0	248	0.71	142.8	212	0.71	111.1	165	0.72
66	145.6	233	0.64	143.8	230	0.66	143.8	230	0.67	137.5	220	0.68	109.4	175	0.68	90.6	145	0.68		



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Grösse Size Taille	Drehzahl Speed Vitesse n_1 (1/min)		500			1'000			2'000			3'000			4'000			6'000			
	a [mm]	i [-]	T_{2D} [N]	T_{2A} [N]	η [-]	T_{2D} [N]	T_{2A} [N]	η [-]	T_{2D} [N]	T_{2A} [N]	η [-]	T_{2D} [N]	T_{2A} [N]	η [-]	T_{2D} [N]	T_{2A} [N]	η [-]	T_{2D} [N]	T_{2A} [N]	η [-]	
SG 74	74	8.75		336	618	0.90	279	514	0.91	209	384	0.91	167	307	0.91	139	256	0.91	104	191	0.91
		11.67		284	718.4	0.89	238	607.1	0.90	177	463.3	0.90	140	374.5	0.90	115	314.5	0.90	84	238.4	0.90
		16		296	830.1	0.86	250	701.2	0.87	191	536	0.87	154	433.3	0.87	130	364	0.87	98	275	0.88
		20.5		282	799.3	0.82	238	676	0.83	182	515.9	0.84	147	417.7	0.84	124	350.8	0.84	93	265.5	0.84
		25		328	621	0.79	315	597	0.80	240	455	0.81	194	367	0.81	163	308	0.81	123	233	0.81
		30		384	860	0.77	380	725	0.78	263	551	0.78	184	445	0.79	140	373	0.79	96	282	0.79
		35		371	808	0.74	313	683	0.75	239	521	0.76	193	421	0.76	162	353	0.76	123	267	0.76
		38		357	720	0.72	341	687	0.74	253	511	0.75	205	414	0.75	173	348	0.75	131	264	0.75
		42		354	670	0.71	346	655	0.73	267	506	0.74	218	413	0.74	184	348	0.74	140	265	0.74
		47		352	617	0.70	344	410	0.72	285	500	0.72	234	410	0.73	198	347	0.73	151	265	0.73
		52		352	551	0.67	347	384	0.69	299	469	0.70	245	384	0.70	207	324	0.70	158	248	0.70
		61		354	511	0.67	350	511	0.69	339	490	0.70	283	409	0.71	242	350	0.71	188	272	0.71
		70		314	449	0.64	304	434	0.67	300	429	0.68	274	391	0.69	235	335	0.69	183	261	0.69
81		267	381	0.60	257	374	0.63	250	369	0.64	230	354	0.64	169	303	0.64	101	235	0.65		
93		212	303	0.53	204	291	0.56	200	285	0.57	188	268	0.57	158	226	0.57	120	172	0.57		



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Tableau torque MASTERHELIX

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Erstellt:	07.02.11	Heller
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Grösse Size Taille	Drehzahl Speed Vitesse n_1 (1/min)		500			1'000			2'000			3'000			4'000			6'000		
	a [mm]	i [-]	T_{2D} [N]	T_{2A} [N]	η [-]	T_{2D} [N]	T_{2A} [N]	η [-]	T_{2D} [N]	T_{2A} [N]	η [-]	T_{2D} [N]	T_{2A} [N]	η [-]	T_{2D} [N]	T_{2A} [N]	η [-]	T_{2D} [N]	T_{2A} [N]	η [-]
SG 104	104	8	980	1216	0.91	758	941	0.92	522	649	0.92	399	495	0.92	322	400	0.92	233	289	0.92
		13.5	935	1532	0.9	880	1443	0.91	659	1081	0.91	528	866	0.91	439	720	0.91	329	539	0.92
		19.67	949	1333	0.86	865	1217	0.87	760	1068	0.87	599	842	0.87	495	696	0.88	368	517	0.88
		24.5	949	1793	0.87	942	1780	0.87	720	1361	0.88	584	1103	0.88	491	927	0.88	372	703	0.88
		31	1159	1703	0.78	1145	1310	0.79	788	1187	0.79	525	920	0.8	403	752	0.8	263	550	0.8
		31.5	994	1266	0.84	977	1266	0.85	700	1207	0.86	473	983	0.86	350	827	0.86	228	629	0.86
		41	1059	1935	0.77	944	1635	0.78	700	1213	0.78	553	958	0.78	457	791	0.78	339	587	0.78
		50	1008	1611	0.77	929	1485	0.79	818	1307	0.8	666	1064	0.8	561	897	0.8	427	682	0.8
		53	1010	1481	0.75	933	1369	0.76	854	1252	0.77	691	1013	0.77	579	849	0.76	438	642	0.77
		58	1006	1367	0.74	961	1305	0.75	905	1230	0.76	734	997	0.76	617	838	0.75	467	635	0.76
		64	914	1053	0.73	899	1052	0.74	872	1053	0.75	797	991	0.75	656	835	0.75	483	637	0.75
		71	1006	1163	0.72	979	1132	0.74	915	1057	0.74	854	987	0.75	724	837	0.75	555	641	0.75
		79	752	1048	0.7	712	1020	0.72	682	998	0.72	627	957	0.73	450	811	0.73	264	621	0.73
87	653	910	0.66	647	902	0.68	632	881	0.68	608	848	0.69	511	713	0.69	387	540	0.69		