



Part No.	$D_e$ mm	$D_i$ mm	$t$ mm	$l_0$ mm	$h_0$ mm	$h_0/t$	$s=0.25h_0$ F/N	$s=0.50h_0$ F/N	$s=0.75h_0$ F/N	$s=1.00h_0$ F/N	weight/1000pcs kgs
100900	6.00	3.20	0.30	0.40	0.10	0.33	28	54	84	103	0.046
100901	8.00	3.20	0.30	0.55	0.25	0.83	46	80	107	127	0.096
100902	8.00	3.20	0.40	0.55	0.15	0.38	49	95	136	181	0.128
100903	8.00	4.20	0.30	0.50	0.20	0.67	37	67	92	115	0.083
100904	8.00	4.20	0.40	0.55	0.15	0.38	56	108	154	205	0.110
100905	10.00	3.20	0.30	0.65	0.35	1.17	52	83	99	110	0.161
100906	10.00	3.20	0.40	0.70	0.30	0.75	76	135	185	223	0.214
100907	10.00	3.20	0.50	0.70	0.20	0.40	80	154	223	290	0.268
100908	10.00	4.20	0.40	0.65	0.25	0.63	62	112	158	196	0.196
100909	10.00	4.20	0.50	0.70	0.20	0.40	85	162	235	306	0.245
100910	10.00	5.20	0.40	0.65	0.25	0.63	68	124	174	217	0.174
100911	10.00	5.20	0.50	0.70	0.20	0.40	94	180	261	339	0.217
100912	12.00	4.20	0.40	0.80	0.40	1.00	86	143	181	209	0.301
100913	12.00	4.20	0.50	0.80	0.30	0.60	94	173	246	306	0.376
100914	12.00	4.20	0.60	0.85	0.25	0.42	123	234	343	440	0.452
100915	12.00	5.20	0.50	0.80	0.30	0.60	100	183	260	322	0.348
100916	12.00	5.20	0.60	0.85	0.25	0.42	129	274	362	464	0.418
100917	12.00	6.20	0.50	0.80	0.30	0.60	109	200	283	352	0.315
100918	12.00	6.20	0.60	0.85	0.25	0.42	141	270	395	506	0.378
100919	12.50	5.20	0.50	0.85	0.35	0.70	113	202	274	342	0.385
100920	12.50	6.50	0.50	0.80	0.30	0.60	98	179	255	316	0.351
100921	12.50	6.20	0.70	0.95	0.25	0.36	196	379	560	723	0.492
100922	14.00	7.20	0.50	0.90	0.40	0.80	122	213	283	343	0.431
100923	14.00	7.20	0.80	1.05	0.25	0.31	234	456	678	879	0.688
100924	15.00	5.20	0.40	0.95	0.55	1.38	103	157	178	183	0.473

Part No.	D <sub>e</sub> mm	D <sub>i</sub> mm	t mm	l <sub>0</sub> mm	h <sub>0</sub> mm	h <sub>0</sub> /t	s=0.25h <sub>0</sub> F/N	s=0.50h <sub>0</sub> F/N	s=0.75h <sub>0</sub> F/N	s=1.00h <sub>0</sub> F/N	weight/1000pcs kgs
100925	15.00	5.20	0.50	1.00	0.50	1.00	135	224	284	326	0.592
100926	15.00	5.20	0.60	1.05	0.45	0.75	173	307	415	506	0.710
100927	15.00	5.20	0.70	1.05	0.35	0.50	182	342	483	625	0.828
100928	15.00	6.20	0.50	1.00	0.50	1.00	140	233	296	339	0.558
100929	15.00	6.20	0.60	1.00	0.40	0.67	151	273	375	468	0.669
100930	15.00	6.20	0.70	1.05	0.35	0.50	189	356	503	650	0.781
100931	15.00	8.20	0.70	1.00	0.30	0.43	180	343	506	643	0.660
100932	15.00	8.20	0.80	1.05	0.25	0.31	213	414	616	799	0.754
100933	16.00	8.20	0.40	0.95	0.55	1.38	103	158	179	185	0.452
100934	16.00	8.20	0.60	1.05	0.45	0.75	175	309	418	510	0.678
100935	16.00	8.20	0.70	1.05	0.35	0.50	183	344	487	630	0.790
100936	16.00	8.20	0.80	1.10	0.30	0.38	220	424	630	806	0.903
100937	16.00	8.20	0.90	1.20	0.30	0.33	308	598	894	1147	1.015
100938	18.00	6.20	0.40	1.00	0.60	1.50	86	128	141	139	0.685
100939	18.00	6.20	0.50	1.10	0.60	1.20	132	209	249	271	0.856
100940	18.00	6.20	0.60	1.20	0.60	0.10	194	322	406	468	1.026
100941	18.00	6.20	0.70	1.25	0.55	0.79	240	420	558	682	1.197
100942	18.00	6.20	0.80	1.25	0.45	0.56	251	466	659	833	1.368
100943	18.00	8.20	0.50	1.10	0.60	1.20	142	225	269	292	0.769
100944	18.00	8.20	0.70	1.20	0.50	0.71	223	398	547	668	1.076
100945	18.00	8.20	0.80	1.25	0.45	0.56	271	502	711	898	1.230
100946	18.00	8.20	1.00	1.35	0.35	0.35	368	713	1034	1364	1.536
100947	18.00	9.20	0.70	1.15	0.45	0.64	203	369	513	639	1.003
100948	18.00	9.20	1.00	1.30	0.30	0.30	329	642	964	1241	1.432
100949	20.00	8.20	0.60	1.30	0.70	1.17	218	347	420	460	1.195
100950	20.00	8.20	0.70	1.35	0.65	0.93	265	448	579	678	1.394
100951	20.00	8.20	0.80	1.35	0.55	0.69	280	504	686	856	1.593
100952	20.00	8.20	0.90	1.40	0.50	0.56	333	618	881	1108	1.791
100953	20.00	8.20	1.00	1.45	0.45	0.45	387	736	1065	1368	1.990
100954	20.00	10.20	0.50	1.10	0.60	1.20	122	193	231	251	0.887
100955	20.00	10.20	0.80	1.30	0.50	0.63	269	491	689	857	1.417
100956	20.00	10.20	0.90	1.35	0.45	0.50	320	601	861	1098	1.594
100957	20.00	10.20	1.00	1.40	0.40	0.40	370	710	1029	1339	1.771
100958	20.00	10.20	1.10	1.45	0.35	0.32	416	809	1177	1559	1.947
100959	20.00	10.20	1.25	1.55	0.30	0.24	509	1002	1516	1961	2.212
100960	20.00	10.20	1.50	1.75	0.25	0.17	719	1427	2155	2824	2.652
100961	22.50	11.20	0.60	1.40	0.80	1.33	244	375	432	450	1.370

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100962	22.50	11.20	0.80	1.45	0.65	0.81	311	541	720	868	1.826
100963	22.50	11.20	1.25	1.65	0.40	0.32	543	1057	1552	2037	2.850
100964	23.00	8.20	0.70	1.50	0.80	1.14	284	455	552	611	1.937
100965	23.00	8.20	0.80	1.55	0.75	0.94	337	568	727	855	2.213
100966	23.00	8.20	0.90	1.60	0.70	0.78	397	697	938	1136	2.490
100967	23.00	8.20	1.00	1.60	0.60	0.60	413	758	1058	1335	2.766
100968	23.00	10.20	0.90	1.55	0.65	0.72	375	669	911	1119	2.292
100969	23.00	10.20	1.00	1.60	0.60	0.60	438	804	1122	1417	2.547
100970	23.00	10.20	1.25	1.70	0.45	0.36	563	1088	1599	2075	3.181
100971	23.00	12.20	1.00	1.50	0.50	0.50	378	710	1024	1299	2.277
100972	23.00	12.20	1.25	1.65	0.40	0.32	541	1054	1546	2029	2.845
100973	23.00	1.20	1.50	1.85	0.35	0.23	794	1565	2299	3068	3.412
100974	25.00	10.20	1.00	1.70	0.70	0.70	449	805	1106	1360	3.124
100975	25.00	12.20	0.70	1.60	0.90	1.29	336	522	610	645	2.000
100976	25.00	12.20	0.90	1.60	0.70	0.78	372	654	881	1066	2.570
100977	25.00	12.20	1.00	1.65	0.65	0.65	433	786	1090	1358	2.855
100978	25.00	12.20	1.25	1.75	0.50	0.40	563	1081	1587	2040	3.567
100979	25.00	12.20	1.50	1.95	0.45	0.30	840	1639	2429	3172	4.278
100980	28.00	10.20	0.80	1.75	0.95	1.19	353	561	670	733	3.266
100981	28.00	10.20	1.00	1.90	0.90	0.90	520	885	1152	1357	4.081
100982	28.00	10.20	1.25	1.95	0.70	0.56	621	1152	1635	2061	5.100
100983	28.00	10.20	1.50	2.10	0.60	0.40	843	1618	2347	3053	6.118
100984	28.00	12.20	1.00	1.85	0.85	0.85	496	855	1126	1345	3.812
100985	28.00	12.20	1.25	1.95	0.70	0.56	652	1209	1716	2164	4.763
100986	28.00	12.20	1.50	2.05	0.55	0.37	799	1543	2237	2938	5.714
100987	28.00	14.20	0.80	1.80	1.00	1.25	441	691	813	871	2.797
100988	28.00	14.20	1.00	1.80	0.80	0.80	483	844	1123	1362	3.495
100989	28.00	14.20	1.25	1.90	0.65	0.52	636	1190	1696	2161	4.367
100990	28.00	14.20	1.50	2.05	0.55	0.37	859	1659	2406	3159	5.237
100991	31.50	12.20	1.00	2.10	1.10	1.10	595	965	1187	1328	5.059
100992	31.50	12.20	1.25	2.15	0.90	0.72	711	1267	1729	2122	6.322
100993	31.50	12.20	1.50	2.25	0.75	0.50	889	1671	2372	3055	7.584
100994	31.50	16.30	0.80	1.85	1.05	1.31	390	603	697	732	3.486
100995	31.50	16.30	1.25	2.05	0.80	0.64	675	1227	1698	2128	5.443
100996	31.50	16.30	1.50	2.15	0.65	0.43	839	1599	2317	2988	6.529
100997	31.50	16.30	1.75	2.30	0.55	0.31	1069	2081	3040	4041	7.614
100998	31.50	16.30	2.00	2.50	0.50	0.25	1418	2788	4178	5447	8.697

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100999	34.00	12.30	1.00	2.25	1.25	1.25	646	1012	1192	1276	6.031
101000	34.00	12.30	1.25	2.35	1.10	0.88	827	1416	1851	2194	7.536
101001	34.00	12.30	1.50	2.40	0.90	0.60	959	1760	2472	3102	9.040
101002	34.00	14.30	1.25	2.30	1.05	0.84	795	1375	1814	2174	7.136
101003	34.00	14.30	1.50	2.35	0.85	0.57	921	1704	2404	3042	8.560
101004	34.00	16.30	1.50	2.30	0.80	0.53	896	1671	2366	3021	8.008
101005	34.00	16.30	2.00	2.60	0.60	0.30	1422	2776	4084	5370	10.669
101006	35.50	18.30	0.90	2.05	1.15	1.28	464	723	843	897	5.002
101007	35.50	18.30	1.25	2.25	1.00	0.80	742	1295	1723	2089	6.944
101008	35.50	18.30	2.00	2.65	0.65	0.33	1487	2891	4261	5562	11.097
101009	40.00	14.30	1.25	2.65	1.40	1.12	918	1480	1806	2013	10.480
101010	40.00	14.30	1.50	2.75	1.25	0.83	1130	1957	2587	3106	12.572
101011	40.00	14.30	2.00	2.90	0.90	0.45	1501	2852	4128	5301	16.754
101012	40.00	16.30	1.50	2.70	1.20	0.80	1091	1905	2535	3073	12.019
101013	40.00	16.30	2.00	2.90	0.90	0.45	1547	2939	4254	5462	16.017
101014	40.00	18.30	2.00	2.85	0.85	0.43	1504	2871	4161	5377	15.190
101015	40.00	20.40	1.00	2.30	1.30	1.30	574	889	1033	1088	7.115
101016	40.00	20.40	1.50	2.60	1.10	0.73	1051	1867	2537	3107	10.665
101017	40.00	20.40	2.00	2.80	0.80	0.40	1479	2838	4117	5356	14.211
101018	40.00	20.40	2.25	2.95	0.70	0.31	1774	3457	5126	6672	15.981
101019	40.00	20.40	2.50	3.15	0.65	0.26	2219	4257	6473	8499	17.751
101020	45.00	22.40	1.25	2.85	1.60	1.28	1057	1644	1918	2037	11.448
101021	45.00	22.40	1.75	2.95	1.20	0.69	1371	2465	3374	4191	16.018
101022	45.00	22.40	2.50	3.35	0.85	0.34	2328	4515	6633	8656	22.863
101023	50.00	18.40	1.25	2.85	1.60	1.28	768	1195	1395	1480	16.257
101024	50.00	18.40	1.50	3.30	1.80	1.20	1399	2216	2644	2878	19.504
101025	50.00	18.40	2.00	3.45	1.45	0.73	1848	3289	4467	5495	25.994
101026	50.00	18.40	2.50	3.65	1.15	0.46	2424	4594	6578	8512	32.479
101027	50.00	18.40	3.00	3.95	0.95	0.32	3238	6304	9225	12151	38.958
101028	50.00	20.40	2.00	3.40	1.40	0.70	1797	3220	4392	5440	25.059
101029	50.00	20.40	2.50	3.60	1.10	0.44	2352	4477	6485	8348	31.310
101030	50.00	22.40	2.00	3.30	10.30	0.65	1666	3022	4188	5217	24.028
101031	50.00	22.40	2.50	3.60	1.10	0.44	2429	4624	6699	8622	30.020
101032	50.00	25.40	1.25	2.85	1.60	1.28	866	1348	1573	1670	13.948
101033	50.00	25.40	1.50	3.10	1.60	1.07	1260	2058	2548	2885	16.733
101034	50.00	25.40	2.00	3.30	1.30	0.65	1774	3218	4460	5556	22.299
101035	50.00	25.40	2.50	3.50	1.00	0.40	2306	4424	6418	8348	27.859

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101036	50.00	25.40	3.00	3.85	0.85	0.28	3227	6315	9346	12261	33.412
101037	56.00	28.50	1.50	3.45	1.95	1.30	1480	2292	2659	2806	20.951
101038	56.00	28.5	2.00	3.60	1.60	0.80	1938	3384	4503	5458	27.921
101039	56.00	28.50	3.00	4.05	1.05	0.35	3265	6322	9267	12088	41.840
101040	60.00	20.50	2.00	4.10	2.10	1.05	2352	3857	4806	5458	38.242
101041	60.00	20.50	2.50	4.20	1.70	0.68	2813	5063	6961	8630	47.786
101042	60.00	20.50	3.00	4.40	1.40	0.47	3509	6642	9524	12281	57.324
101043	60.00	25.50	2.50	4.10	1.60	0.64	2709	4927	6816	8541	44.320
101044	60.00	25.50	3.00	4.30	1.30	0.43	3367	6418	9301	11992	63.163
101045	60.00	30.50	2.50	4.00	1.50	0.60	2689	4937	6916	8699	40.115
101046	60.00	30.50	3.00	4.20	1.20	0.40	3322	6347	9245	12026	48.117
101047	60.00	30.50	3.50	4.55	1.05	0.30	4424	8637	12747	16710	56.110
101048	63.00	31.00	1.80	4.10	2.30	1.28	2295	3572	4175	4431	32.573
101049	63.00	31.00	2.50	4.15	1.65	0.66	2738	4954	6833	8517	45.214
101050	63.00	31.00	3.00	4.40	1.40	0.47	3568	6745	9684	12488	54.234
101051	63.00	31.00	3.50	4.70	1.20	0.34	4577	8837	12982	16997	63.247
101052	70.00	25.50	2.00	4.50	2.50	1.25	2443	3826	4505	4824	51.150
101053	70.00	30.50	2.50	4.70	2.20	0.88	3282	5616	7318	8705	59.715
101054	70.00	30.50	3.00	4.80	1.80	0.60	3804	6984	9749	12307	71.633
101055	70.00	35.50	3.00	4.70	1.70	0.57	3783	7002	9876	12499	65.661
101056	70.00	35.50	4.00	5.20	1.20	0.30	5537	10809	15905	20913	87.480
101057	70.00	40.50	4.00	5.10	1.10	0.28	5560	10894	16172	21187	78.305
101058	70.00	40.50	5.00	5.90	0.90	0.18	8644	17134	25707	33858	97.792
101059	71.00	36.00	2.00	4.60	2.60	1.30	2903	4497	5219	5505	45.078
101060	71.00	36.00	2.50	4.50	2.00	0.80	2936	5218	6823	8271	56.326
101061	71.00	36.00	4.00	5.00	1.30	0.33	5886	11446	16868	22020	90.018
101062	80.00	31.00	2.50	5.30	2.80	1.12	3732	6020	7344	8188	81.874
101063	80.00	31.00	3.00	5.40	2.40	0.80	4305	7519	10005	12127	98.222
101064	80.00	31.00	4.00	5.80	1.80	0.45	6106	11598	16681	21559	130.891
101065	80.00	36.00	3.00	5.30	2.30	0.77	4224	7439	10004	12921	92.159
101066	80.00	36.00	4.00	5.70	1.70	0.43	5973	11403	16530	21360	122.804
101067	80.00	41.00	2.25	5.00	2.75	1.22	3254	5128	6078	6573	63.925
101068	80.00	41.00	3.00	5.20	2.20	0.73	4216	7489	10134	12465	85.190
101069	80.00	41.00	4.00	5.60	1.60	0.40	5936	11389	16519	21488	113.508
101070	80.00	41.00	5.00	6.30	1.30	0.26	8903	17482	25972	34099	141.787
101071	90.00	46.00	2.50	5.70	3.20	1.28	4294	6680	7796	8276	90.032
101072	90.00	46.00	3.50	5.80	2.30	0.66	5237	9483	13097	16332	125.968

Part No.	D <sub>e</sub> mm	D <sub>i</sub> mm	t mm	l <sub>0</sub> mm	h <sub>0</sub> mm	h <sub>0</sub> /t	s=0.25h <sub>0</sub> F/N	s=0.50h <sub>0</sub> F/N	s=0.75h <sub>0</sub> F/N	s=1.00h <sub>0</sub> F/N	weight/1000pcs kgs
101073	90.00	46.00	5.00	6.60	1.60	0.32	8832	17188	25225	33104	179.789
101074	100.00	41.00	4.00	6.80	2.80	0.70	7200	12898	17595	21791	200.275
101075	100.00	41.00	5.00	7.20	2.20	0.44	9422	17934	25839	33441	25.230
101076	100.00	51.00	2.70	6.30	3.60	1.33	5139	7906	9092	9487	120.314
101077	100.00	51.00	3.50	6.30	2.80	0.80	5706	9966	13261	16074	155.895
101078	100.00	51.00	4.00	6.50	2.50	0.63	6729	12280	17084	21422	178.116
101079	100.00	51.00	5.00	7.00	2.00	0.40	9247	17740	25732	33473	222.523
101080	100.00	51.00	6.00	7.70	1.70	0.28	12939	25322	37476	49165	266.881
101081	112.00	57.00	3.00	6.70	3.70	1.23	5320	8362	9891	10649	167.989
101082	112.00	57.00	4.00	7.20	3.20	0.80	7750	13535	18011	21831	223.876
101083	112.00	57.00	6.00	8.10	2.10	0.35	13606	25287	37068	48353	335.486
101084	125.00	41.00	4.00	8.20	4.20	1.05	8625	14146	17598	20016	335.918
101085	125.00	51.00	4.00	8.40	4.40	1.10	9815	15907	19516	21884	313.759
101086	125.00	51.00	5.00	8.50	3.50	0.70	11233	20124	27491	34000	392.056
101087	125.00	51.00	6.00	9.40	3.40	0.57	17275	31973	44952	57073	470.297
101088	125.00	61.00	5.00	8.30	3.30	0.66	11078	20045	27647	34460	358.240
101089	125.00	61.00	6.00	8.70	2.70	0.45	13799	26210	37779	48720	429.708
101090	125.00	64.00	3.50	8.00	4.50	1.29	8638	13423	15646	16573	343.002
101091	125.00	64.00	5.00	8.20	3.20	0.64	10899	19819	27419	34360	346.916
101092	125.00	71.00	6.00	8.40	2.40	0.40	13292	25500	36988	48114	381.861
101093	140.00	72.00	3.80	8.70	4.90	1.29	9653	14988	17452	18464	330.005
101094	140.00	72.00	5.00	9.00	4.00	0.80	12189	21288	28327	34335	434.011
101095	150.00	61.00	5.00	10.10	5.10	1.02	14460	23891	29989	34372	565.721
101096	150.00	61.00	6.00	10.25	4.25	0.71	16448	29404	40055	49496	678.661
101097	150.00	71.00	6.00	10.00	4.00	0.67	159\36	28787	39583	49350	630.814
101098	160.00	82.00	4.30	9.90	5.60	1.30	12339	19107	22161	23358	489.219
101099	160.00	82.00	6.00	10.30	4.30	0.72	16287	29055	39522	48726	682.231
101100	180.00	92.00	4.80	10.80	6.00	1.25	13903	21773	25621	27458	692.651
101101	180.00	92.00	6.00	11.10	5.10	0.85	16799	28967	38079	45584	865.497
101102	200.00	102.00	5.50	12.50	7.00	1.27	20106	31331	36637	38983	981.059