

Feed Rate Chart

Alpha Code	Feed in Inches per Revolution (IPR) ± 25%															Ø Diameter				
	1mm/ 1/32"	2mm/ 3/32"	3mm/ 1/8"	4mm/ 5/32"	5mm/ 3/16"	6mm/ 1/4"	8mm/ 5/16"	10mm/ 3/8"	12mm/ 1/2"	15mm/ 9/16"	16mm/ 5/8"	20mm/ 3/4"	25mm/ 1"	30mm/ 1.1/8"	40mm/ 1.5/8"	50mm/ 2"				
A	0.0004	0.0009	0.0011	0.0013	0.0014	0.0017	0.0021	0.0024	0.0027	0.0032	0.0034	0.0043	0.0049	0.0053	0.0061	0.0069				
B	0.0006	0.0011	0.0015	0.0016	0.0018	0.0021	0.0026	0.0031	0.0035	0.0041	0.0043	0.0053	0.0060	0.0065	0.0074	0.0082				
C	0.0006	0.0013	0.0017	0.0020	0.0022	0.0025	0.0031	0.0039	0.0043	0.0049	0.0051	0.0063	0.0071	0.0077	0.0087	0.0094				
D	0.0006	0.0015	0.0021	0.0024	0.0027	0.0031	0.0039	0.0047	0.0051	0.0059	0.0061	0.0074	0.0083	0.0090	0.0100	0.0108				
E	0.0007	0.0017	0.0024	0.0028	0.0031	0.0037	0.0045	0.0055	0.0059	0.0068	0.0071	0.0085	0.0094	0.0102	0.0112	0.0122				
F	0.0007	0.0020	0.0029	0.0033	0.0037	0.0043	0.0054	0.0065	0.0070	0.0080	0.0083	0.0098	0.0108	0.0116	0.0126	0.0135				
G	0.0007	0.0022	0.0033	0.0038	0.0043	0.0050	0.0063	0.0075	0.0081	0.0091	0.0094	0.0110	0.0122	0.0130	0.0140	0.0148				
H	0.0008	0.0026	0.0040	0.0046	0.0051	0.0059	0.0075	0.0090	0.0096	0.0107	0.0110	0.0126	0.0140	0.0148	0.0157	0.0165				
I	0.0008	0.0030	0.0047	0.0053	0.0059	0.0068	0.0087	0.0104	0.0110	0.0122	0.0126	0.0142	0.0157	0.0165	0.0173	0.0181				
J	0.0009	0.0033	0.0053	0.0060	0.0067	0.0078	0.0098	0.0117	0.0124	0.0137	0.0142	0.0159	0.0175	0.0183	0.0191	0.0198				
K	0.0010	0.0036	0.0059	0.0067	0.0075	0.0087	0.0110	0.0130	0.0138	0.0153	0.0157	0.0177	0.0193	0.0201	0.0209	0.0215				
L	0.0011	0.0040	0.0065	0.0073	0.0082	0.0094	0.0120	0.0142	0.0152	0.0165	0.0169	0.0191	0.0207	0.0215	0.0224	0.0231				
M	0.0012	0.0043	0.0071	0.0080	0.0089	0.0102	0.0130	0.0154	0.0165	0.0177	0.0181	0.0205	0.0220	0.0228	0.0238	0.0248				
N	0.0013	0.0047	0.0077	0.0086	0.0095	0.0110	0.0140	0.0165	0.0179	0.0189	0.0193	0.0219	0.0234	0.0242	0.0253	0.0265				
S	0.0003	0.0006	0.0008	0.0010	0.0012	0.0015	0.0020	0.0031	0.0039	0.0048	0.0051	0.0059	0.0070	0.0070	0.0090					
T	0.0006	0.0011	0.0016	0.0020	0.0024	0.0028	0.0035	0.0043	0.0051	0.0063	0.0067	0.0075	0.0080	0.0090	0.0100					
U	0.0010	0.0019	0.0028	0.0031	0.0035	0.0042	0.0055	0.0067	0.0079	0.0088	0.0091	0.0094	0.0110	0.0120	0.0140					
V	0.0015	0.0027	0.0039	0.0045	0.0051	0.0060	0.0079	0.0098	0.0110	0.0122	0.0126	0.0134	0.0160	0.0170	0.0200					
W	0.0019	0.0035	0.0051	0.0059	0.0067	0.0079	0.0102	0.0130	0.0150	0.0165	0.0169	0.0177	0.0190	0.0190	0.0200					
X	0.0022	0.0041	0.0059	0.0071	0.0083	0.0098	0.0130	0.0165	0.0189	0.0210	0.0217	0.0228								
Y	0.0027	0.0049	0.0071	0.0087	0.0102	0.0125	0.0169	0.0217	0.0276	0.0276	0.0276	0.0291								
Z	0.0037	0.0068	0.0098	0.0128	0.0157	0.0210	0.0315	0.0394	0.0433	0.0463	0.0472	0.0472								

How To Use This Chart to Find Cutting Feed Rate (IPR):

1. Find your Alpha Code on the AMG Chart (example: 279 U : U is the Alpha Code)
2. Find the closest diameter for your cutting application on the chart to find your IPR

Application Material Groups (AMG)		Hardness HRC	ISO
1. Steel	1.1 Magnetic soft steel	12L14, 12L15	<120 HB P 1
	1.2 Structural Steel/ case carburising steel	1005-1025, 1214, 1215, A36	<200 HB P 1
	1.3 Plain Carbon steel	1030-1060, 1050-1060, 1144-1146	<24 P 2
	1.4 Alloy steel	4140,4340,52100,8620 H11-H41,A2,D2,01,P20,420	<24 P 3
	1.5 Alloy steel/ Hardened and tempered steel	4140,4340,52100,8620 H11-H41,A2,D2,01,P20,420	>24<38 P 4
	1.6 Alloy steel/ Hardened and tempered steel	4140,4340,52100,8620 H11-H41,A2,D2,01,P20,420	>38 H 1
	1.7 Alloy steel Hardened	A2-D2, H10-H41, L1-L6, M1-M42, T1	49-55 H 3
	1.8 Alloy steel Hardened	A2-D2, H10-H41, L1-L6, M1-M42, T1	55-63 H 4
2. Stainless Steel	2.1 Free machining Stainless Steel	200, 303, 416, 420F, 430F, 440	<24 M 1
	2.2 Austenitic	301, 302, 304, 316, 321, 330, CUSTOM 455, AM-350	<24 M 3
	2.3 Ferritic + Austenitic, Martensitic	318-329, 400-446, DUPLEX	<32 M 2
	2.4 Precipitation Hardened	15-5PH, Custom 450 17-4PH	<32 S 2
3. Cast Iron	3.1 Lamellar graphite	Grey, G10, Gg40, J431C, A48 CLASS 20	<150 HB K 1
	3.2 Lamellar graphite	Grey, GG25-Gg40, J158, A48 CLASS 40-60	>150 HB<32 K 2
	3.3 Nodular graphite/ Malleable Cast Iron	A220, A436, A439, A602, Black, GGG40-GGG70	<200 HB K 3
	3.4 Nodular graphite/ Malleable Cast Iron	Black Gts/Gtw, J434C	>200 HB<32 K 4
4. Titanium	4.1 Titanium, unalloyed	Commercially Pure	<200 HB S 1
	4.2 Titanium, alloyed	6Al4V, 6A14V-2Sn, Monel, Monel K	<28 S 2
	4.3 Titanium, alloyed	6Al4V-4Mo, 7A14V-4Mo, 4911-4967	>28<38 S 3
5. Nickel	5.1 Nickel, unalloyed	Commercially Pure, 17644, 200, 5553	<150 HB S 1
	5.2 Nickel, alloyed	Monel 400, Hastelloy C, Inconel 625, Waspaloy	<28 S 2
	5.3 Nickel, alloyed	Inconel 718,Nimonic 75-95,Rene 41,Inconel 825,A286	>28<38 S 3
6. Copper	6.1 Copper	Commercially Pure	<100 HB N 3
	6.2 β-Brass, Bronze	314-340, 350-370	<200 HB N 4
	6.3 α-Brass	Alloyed Cu + Al + Fe, Long Chipping	<200 HB N 3
	6.4 High Strength Bronze	Ampco 18-25	<49 N 4
7. Aluminium Magnesium	7.1 Al, Mg, unalloyed	Commercially Pure	<100 HB N 1
	7.2 Al alloyed, Si<0.5%	6061 T6, 7075, 314-340	<150 HB N 1
	7.3 Al alloyed, Si>0.5%<10%	6061 T6, 380-390	<120 HB N 1
	7.4 Al alloyed, Si>10% Mg alloys	Magnesium Whisker Reinforced	<120 HB N 2
8. Synthetic Materials	8.1 Thermoplastics	Ultradim, Polystrol	---
	8.2 Thermosetting plastics	Bakelit, Pertinax	---
	8.3 Reinforced plastic materials	CFK, GFKAFK	---
9. Hard Mat.	9.1 Cermets (Metal-ceramics)	Ferrotic	<54 H
10. Graphite	10.1 Standard graphite	---	O

General Purpose Jobber Length, DIN Standard

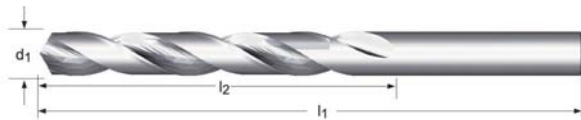
2A Bright Finish improves chip flow in soft or non-ferrous materials

2AB Steam Oxide for increased wear resistance & lubricity.

A100 Low thrust design self centering Split Point for easier penetration. TiN Coated Tip increases wear resistance and improves tool life.

* Bright Below 2mm

* No split point below 2mm



2A	2AB	A100	A002	A002S
DIN 338	DIN 338	DIN 338	DIN 338	DIN 338
4XD	4XD	4XD	4XD	4XD
HSS	HSS	HSS	HSS	HSS
118°	118°	118°	118°	118°
0.15 - 15.00	1.00 - 17.50	0.20 - 20.00	1.00 - 16.00	1.00 - 16.00

d_1 $\varnothing h_8$ mm	d_1 $\varnothing h_8$ "/Nr./letter	d_1 decimal Inch	l_2 mm	l_1 mm	2A	2AB	A100	A002	A002S
0.15		0.0059	1.5	19	016215	—	—	—	—
0.16		0.0063	1.5	19	016216	—	—	—	—
0.17		0.0067	1.5	19	016217	—	—	—	—
0.18		0.0070	1.5	19	016218	—	—	—	—
0.19		0.0075	1.5	19	016219	—	—	—	—
0.20		0.0078	2.5	19	016002	—	0000021	—	—
0.21		0.0083	2.5	19	016221	—	—	—	—
0.22		0.0087	2.5	19	016222	—	—	—	—
0.23		0.0091	2.5	19	016223	—	—	—	—
0.24		0.0094	2.5	19	016224	—	—	—	—
0.25		0.0098	3	19	016225	—	0000038	—	—
0.26		0.0102	3	19	016226	—	—	—	—
0.27		0.0106	3	19	016227	—	—	—	—
0.28		0.0110	3	19	016228	—	—	—	—
0.29		0.0114	3	19	016229	—	—	—	—
0.30		0.0118	3	19	016003	—	0000045	—	—
0.32		0.0126	4	19	016232	—	0000052	—	—
	80	0.0135	4	19	—	—	0029480	—	—
0.34		0.0134	4	19	016234	—	—	—	—
0.35		0.0138	4	19	016235	—	0000069	—	—
0.36		0.0142	4	19	016236	—	—	—	—
	79	0.0145	4	19	—	—	0029466	—	—
0.38		0.0150	4	19	016238	—	0000076	—	—
	1/64	0.0156	5	20	—	—	0001219	—	—
0.40		0.0157	5	20	016004	—	0000083	—	—
	78	0.0160	5	20	—	—	0029459	—	—
0.42		0.0165	5	20	016242	—	0000090	—	—
0.44		0.0173	5	20	016244	—	—	—	—
0.45		0.0177	5	20	016245	—	0000106	—	—
	77	0.0180	5	20	—	—	0029442	—	—

Package quantities: **2A and 2AB:** 0.15mm - 7.90mm = 12; 8.00mm - 12.50mm = 6; 12.70mm and above = 1

A100 and A002: 0.20mm - 10.00mm = 10; X - 13.00mm = 5; 33/64 and above = 1

A002S: 0.20mm - 5.00mm = 2; 13/64 - 13.00mm = 1

d ₁ Øh ₈ mm	d ₁ Øh ₈ "/Nr./letter	d ₁ decimal Inch	l ₂ mm	l ₁ mm	2A	2AB	A100	A002	A002S
0.46		0.0181	5	20	016246	—	—	—	—
0.48		0.0189	5	20	016248	—	0000113	—	—
0.50		0.0197	6	22	016005	—	0000120	—	—
	76	0.0200	6	22	—	—	0029435	—	—
0.52		0.0205	6	22	—	—	0000137	—	—
	75	0.0210	6	22	—	—	0029428	—	—
0.55		0.0217	7	24	016250	—	0000144	—	—
	74	0.0225	7	24	—	—	0029411	—	—
0.58		0.0228	7	24	—	—	0000151	—	—
0.60		0.0236	7	24	016006	—	0000168	—	—
	73	0.0240	8	26	—	—	0029404	—	—
0.62		0.0244	8	26	—	—	0000175	—	—
	72	0.0250	8	26	—	—	0029398	—	—
0.65		0.0256	8	26	016251	—	0000182	—	—
	71	0.0260	8	26	—	—	0029381	—	—
0.68		0.0268	9	28	—	—	0000199	—	—
0.70		0.0276	9	28	016007	—	0000205	—	—
	70	0.0280	9	28	—	—	0029374	—	—
0.72		0.0283	9	28	—	—	0000212	—	—
	69	0.0292	9	28	—	—	0029350	—	—
0.75		0.0295	9	28	016252	—	0000229	—	—
0.78		0.0307	10	30	—	—	0000236	—	—
	68	0.0310	10	30	—	—	0029343	—	—
	1/32	0.0313	10	30	—	—	0001059	—	—
0.80		0.0315	10	30	016008	—	0000243	—	—
	67	0.0320	10	30	—	—	0029336	—	—
0.82		0.0323	10	30	—	—	0000250	—	—
	66	0.0330	10	30	—	—	0029329	—	—
0.85		0.0335	10	30	016253	—	0000267	—	—
0.88		0.0346	11	32	—	—	0000274	—	—
	65	0.0350	11	32	—	—	0029312	—	—
0.90		0.0354	11	32	016009	—	0000281	—	—
	64	0.0360	11	32	—	—	0029305	—	—
0.92		0.0362	11	32	—	—	0000298	—	—
	63	0.0370	11	32	—	—	0029299	—	—
0.95		0.0374	11	32	016254	—	0000304	—	—
	62	0.0380	12	34	—	—	0029282	—	—
0.98		0.0386	12	34	—	—	0000311	—	—
	61	0.0390	12	34	—	—	0029275	—	—
1.00		0.0394	12	34	016010	029010	0000328	0376782	—
	60	0.0400	12	34	—	—	0029268	—	—
	59	0.0410	12	34	—	—	0029244	—	—
1.05		0.0413	12	34	—	—	0000335	—	—
	58	0.0420	14	36	—	—	0029237	—	—
	57	0.0430	14	36	—	—	0029220	—	—
1.10		0.0433	14	36	016011	029011	0000342	0376799	—
1.15		0.0453	14	36	016256	029256	0000359	—	—
	56	0.0465	14	36	—	—	0029213	—	—
	3/64	0.0469	16	38	—	—	0001783	0376928	—
1.20		0.0472	16	38	016012	029012	0000366	0376805	—
1.25		0.0492	16	38	016257	029257	0000373	—	—
1.30		0.0512	16	38	016013	029013	0000380	0376812	—
	55	0.0520	16	38	—	—	0029206	—	—
1.35		0.0531	18	40	016258	029258	0000397	—	—
	54	0.0550	18	40	—	—	0029190	—	—
1.40		0.0551	18	40	016014	029014	0000403	0376829	—
1.45		0.0571	18	40	016259	029259	0000410	—	—
1.50		0.0591	18	40	016015	029015	0000427	0376836	—
	53	0.0595	20	43	—	—	0029183	—	—
1.55		0.0610	20	43	016260	029260	0000434	—	—
	1/16	0.0625	20	43	—	—	0000786	0376881	—
1.60		0.0630	20	43	016016	029016	0000441	0376843	—

Package quantities: **2A and 2AB:** 0.15mm - 7.90mm = **12**; 8.00mm - 12.50mm = **6**; 12.70mm and above = **1**

A100 and A002: 0.20mm - 10.00mm = **10**; X - 13.00mm = **5**; 33/64 and above = **1**

A002S: 0.20mm - 5.00mm = **2**; 13/64 - 13.00mm = **1**

d ₁ Øh ₈ mm	d ₁ Øh ₈ "/Nr./letter	d ₁ decimal Inch	l ₂ mm	l ₁ mm	2A	2AB	A100	A002	A002S
1.65	52	0.0635	20	43	—	—	0029176	—	—
1.70		0.0650	20	43	016261	—	0000458	—	—
		0.0669	20	43	016017	029017	0000465	0376850	—
	51	0.0670	22	46	—	—	0029169	—	—
1.75		0.0689	22	46	016262	029262	0000472	—	—
	50	0.0700	22	46	—	—	0029152	—	—
1.80		0.0709	22	46	016018	029018	0000489	0376867	—
1.85		0.0728	22	46	—	—	0000496	—	—
	49	0.0730	22	46	—	—	0029138	—	—
1.90		0.0748	22	46	016019	029019	0000502	0376874	—
	48	0.0760	24	49	—	—	0029121	—	—
1.95		0.0768	24	49	46790303	029264	0000519	—	—
	5/64	0.0781	24	49	—	—	0002100	0376935	—
	47	0.0785	24	49	—	—	0029114	—	—
2.00		0.0787	24	49	016020	029020	0001332	0376041	46524831
2.05		0.0807	24	49	—	—	0001349	—	—
	46	0.0810	24	49	—	—	0029107	—	—
	45	0.0820	24	49	—	—	0029091	—	—
2.10		0.0827	24	49	016021	029021	0001356	0376058	—
2.15		0.0846	27	53	016266	—	0001363	—	—
	44	0.0860	27	53	—	—	0029084	—	—
2.20		0.0866	27	53	016022	029022	0001370	0376898	—
2.25		0.0886	27	53	016267	—	0001387	—	—
	43	0.0890	27	53	—	—	0029077	—	—
2.30		0.0906	27	53	016023	029023	0001394	0376904	—
2.35		0.0925	27	53	016268	029268	0001400	—	—
	42	0.0935	30	57	—	—	0029060	—	—
	3/32	0.0937	30	57	—	—	0001752	0376119	—
2.40		0.0945	30	57	016024	029024	0001417	0376911	—
	41	0.0960	30	57	—	—	0029053	—	—
2.45		0.0965	30	57	—	—	0001424	—	—
	40	0.0980	30	57	—	—	0029046	—	—
2.50		0.0984	30	57	016025	029025	0001431	0376065	46524832
	39	0.0995	30	57	—	—	0029022	—	—
2.55		0.1004	30	57	—	—	001448	—	—
	38	0.1015	30	57	—	—	0029015	—	—
2.60		0.1024	30	57	016026	029026	0001455	0376072	—
	37	0.1040	30	57	—	—	0029008	—	—
2.65		0.1043	30	57	—	—	0001462	—	—
2.70		0.1063	33	61	016027	029027	0001479	0376089	—
	36	0.1065	33	61	—	—	0028995	—	—
2.75		0.1083	33	61	016270	—	0001486	—	—
	7/64	0.1093	33	61	—	—	0002384	0376126	—
	35	0.1100	33	61	—	—	0028988	—	—
2.82		0.1102	33	61	—	—	0001493	0376096	—
	34	0.1110	33	61	—	—	0028971	—	—
2.85		0.1122	33	61	—	—	0001509	—	—
	33	0.1130	33	61	—	—	0028964	—	—
2.90		0.1142	33	61	016029	029029	0001516	0376102	—
	32	0.1160	33	61	—	—	0028957	—	—
2.95		0.1161	33	61	—	—	0001523	—	—
3.00		0.1181	33	61	016030	029030	0001608	0350577	46524833
	31	0.1200	36	65	—	—	0028940	—	—
3.10		0.1220	36	65	016031	029031	0001615	0350584	—
3.15		0.1240	36	65	—	—	0001622	—	—
	1/8	0.1250	36	65	—	—	0001264	0350591	46524834
3.20		0.1260	36	65	016032	029032	0001639	0350607	46524835
3.25		0.1280	36	65	016271	029271	0001646	0605356	—
	30	0.1285	36	65	—	—	0028933	—	—
3.30		0.1299	36	65	016033	029033	0001653	0350614	46524836
3.40		0.1339	39	70	016034	029034	0001660	0350621	—
	29	0.1360	39	70	—	—	0028919	—	—

Package quantities: **2A and 2AB:** 0.15mm - 7.90mm = **12**; 8.00mm - 12.50mm = **6**; 12.70mm and above = **1**
A100 and A002: 0.20mm - 10.00mm = **10**; X - 13.00mm = **5**; 33/64 and above = **1**
A002S: 0.20mm - 5.00mm = **2**; 13/64 - 13.00mm = **1**

d ₁ Øh ₈ mm	d ₁ Øh ₈ "/Nr./letter	d ₁ decimal Inch	l ₂ mm	l ₁ mm	2A	2AB	A100	A002	A002S
3.50		0.1378	39	70	016035	029035	0001677	0350638	46524837
	28	0.1405	39	70	—	—	0028902	—	—
	9/64	0.1406	39	70	—	—	0002650	0350645	—
3.60		0.1417	39	70	016036	029036	0001684	0350652	—
	27	0.1440	39	70	—	—	0028896	—	—
3.70		0.1457	39	70	016037	029037	0001691	0350669	—
	26	0.1470	39	70	—	—	0028889	—	—
3.75		0.1476	39	70	—	—	0001707	—	—
	25	0.1495	43	75	—	—	0028872	—	—
3.80		0.1496	43	75	—	—	0001714	0350676	—
	24	0.1520	43	75	—	—	0028865	—	—
3.90		0.1535	43	75	—	—	0001721	0350683	—
	23	0.1540	43	75	—	—	0028858	—	—
	5/32	0.1562	43	75	—	—	0002094	0350690	46524838
	22	0.1570	43	75	—	—	0028841	—	—
4.00		0.1575	43	75	016040	029040	0001820	0350706	46524839
	21	0.1590	43	75	—	—	0028834	—	—
	20	0.1610	43	75	—	—	0028827	—	—
4.10		0.1614	43	75	016041	029041	0001837	0350713	46524860
4.20		0.1654	43	75	016042	029042	0001844	0350720	46524861
	19	0.1660	43	75	—	—	0028803	—	—
4.25		0.1673	43	75	—	—	0001851	—	—
4.30		0.1693	47	80	—	—	0001868	0350737	—
4.30		0.1693	47	80	016043	029043	0001868	0350737	—
	18	0.1695	47	80	—	—	0028797	—	—
	11/64	0.1719	47	80	—	—	0000793	0350744	—
	17	0.1730	47	80	—	—	0028780	—	—
4.40		0.1732	47	80	016044	029044	0001875	0350751	—
	16	0.1770	47	80	—	—	0028773	—	—
4.50		0.1772	47	80	016045	029045	0001882	0350768	46524862
	15	0.1800	47	80	—	—	0028766	—	—
4.60		0.1811	47	80	016046	029046	0001899	0350775	—
	14	0.1820	47	80	—	—	0028759	—	—
4.70		0.1850	47	80	—	—	0001905	0350782	—
	13	0.1850	47	80	—	—	0028742	—	—
4.75		0.1870	47	80	—	—	0001912	—	—
	3/16	0.1875	52	86	—	—	0001738	0350799	46524863
	12	0.1890	52	86	—	—	0028735	—	—
4.80		0.1890	52	86	016048	029048	0001929	0350805	—
	11	0.1910	52	86	—	—	0028728	—	—
4.90		0.1929	52	86	—	—	0001936	0350812	—
	10	0.1935	52	86	—	—	0028711	—	—
	9	0.1960	52	86	—	—	0029497	—	—
5.00		0.1968	52	86	016050	029050	0001967	0350829	46524864
	8	0.1990	52	86	—	—	0029473	—	—
5.10		0.2008	52	86	016051	029051	0001974	0350836	—
	7	0.2010	52	86	—	—	0029367	—	—
	13/64	0.2031	52	86	—	—	0001073	0350843	46524865
	6	0.2040	52	86	—	—	0029251	—	—
5.20		0.2047	52	86	016052	029052	0001981	0350850	—
	5	0.2055	52	86	—	—	0029145	—	—
5.25		0.2067	52	86	—	—	0001998	—	—
5.30		0.2087	52	86	016053	029053	0002001	0350867	—
	4	0.2090	57	93	—	—	0029039	—	—
5.40		0.2126	57	93	016054	029054	0002018	0350874	—
	3	0.2130	57	93	—	—	0028926	—	—
5.50		0.2165	57	93	016055	029055	0002025	0350881	46524866
	7/32	0.2187	57	93	—	—	0002377	0350898	46524867
5.60		0.2205	57	93	016056	029056	0002032	0350904	—
	2	0.2210	57	93	—	—	0028810	—	—
5.70		0.2244	57	93	016057	029057	0002049	0350911	—
5.75		0.2264	57	93	016276	029276	0002056	—	—

Package quantities: **2A and 2AB:** 0.15mm - 7.90mm = **12**; 8.00mm - 12.50mm = **6**; 12.70mm and above = **1**

A100 and A002: 0.20mm - 10.00mm = **10**; X - 13.00mm = **5**; 33/64 and above = **1**

A002S: 0.20mm - 5.00mm = **2**; 13/64 - 13.00mm = **1**

d ₁ Øh ₈ mm	d ₁ Øh ₈ "/Nr./letter	d ₁ decimal Inch	l ₂ mm	l ₁ mm	2A	2AB	A100	A002	A002S
	1	0.2280	57	93	—	—	0028704	—	—
5.80		0.2283	57	93	016058	029058	0002063	0350928	—
5.90		0.2323	57	93	—	—	0002070	0350935	—
	A	0.2340	57	93	—	—	0028568	—	—
	15/64	0.2344	57	93	—	—	0001189	0350942	—
6.00		0.2362	57	93	016060	029060	0002124	0350959	46524868
	B	0.2380	63	101	—	—	0028575	—	—
6.10		0.2402	63	101	016061	029061	0002131	0350966	—
	C	0.2420	63	101	—	—	0028582	—	—
6.20		0.2441	63	101	016062	029062	0002148	0350973	—
	D	0.2460	63	101	—	—	0028599	—	—
6.25		0.2461	63	101	—	—	0002155	—	—
6.30		0.2480	63	101	016063	029063	0002162	0350980	—
	1/4	0.2500	63	101	—	—	0001080	0350997	46524869
	E	0.2500	63	101	—	—	0028605	—	—
6.40		0.2520	63	101	016064	029064	0002179	0351000	—
6.50		0.2559	63	101	016065	029065	0002186	0351017	46524870
	F	0.2570	63	101	—	—	0028612	—	—
6.60		0.2598	63	101	016066	029066	0002193	0351024	—
	G	0.2610	63	101	—	—	0028629	—	—
6.70		0.2638	63	101	016067	029067	0002209	0351031	—
	17/64	0.2656	69	109	—	—	0001257	0351048	46524871
6.75		0.2657	69	109	016278	029278	0002216	—	—
	H	0.2660	69	109	—	—	0028636	—	—
6.80		0.2677	69	109	016068	029068	0002223	0351055	46524872
6.90		0.2717	69	109	—	—	0002230	0351062	—
	I	0.2720	69	109	—	—	0028643	—	—
7.00		0.2756	69	109	016070	029070	0002247	0351079	46524873
	J	0.2770	69	109	—	—	0028650	—	—
7.10		0.2795	69	109	—	—	0002254	0351086	—
	K	0.2810	69	109	—	—	0028667	—	—
	9/32	0.2812	69	109	—	—	0002643	0351093	—
7.20		0.2835	69	109	016072	029072	0002261	0351109	—
7.25		0.2854	69	109	016279	029279	0002278	—	—
7.30		0.2874	69	109	016073	029073	0002285	0351116	—
	L	0.2900	69	109	—	—	0028674	—	—
7.40		0.2913	69	109	016074	029074	0002292	0351123	—
	M	0.2950	69	109	—	—	0028681	—	—
7.50		0.2953	69	109	016075	029075	0002308	0351130	46524874
	19/64	0.2968	75	117	—	—	0001325	0351147	—
7.60		0.2992	75	117	016076	029076	0002315	0351154	—
	N	0.3020	75	117	—	—	0028698	—	—
7.70		0.3031	75	117	—	—	0002322	0351161	—
7.75		0.3051	75	117	—	—	0002339	—	—
7.80		0.3071	75	117	016078	029078	0002346	0351178	—
7.85		0.3091	75	117	—	029281	—	—	—
7.90		0.3110	75	117	016079	029079	0002353	0351185	—
	5/16	0.3125	75	117	—	—	0002087	0351192	46524875
8.00		0.3150	75	117	016080	029080	0002391	0351208	46524876
	O	0.3160	75	117	—	—	0029503	—	—
8.10		0.3189	75	117	016081	029081	0002407	0351215	—
	P	0.3230	75	117	—	—	0029510	—	—
8.20		0.3228	75	117	016082	029082	0002414	0351222	46524877
8.25		0.3248	75	117	016282	029282	0002421	—	—
8.30		0.3268	75	117	—	—	0002438	0351239	—
	21/64	0.3281	75	117	—	—	0001554	0351246	—
8.40		0.3307	75	117	016084	029084	0002445	0351253	—
	Q	0.3320	75	117	—	—	0029527	—	—
8.50		0.3346	75	117	016085	029085	0002452	0351260	46524878
8.60		0.3386	81	125	016086	029086	0002469	0351277	—
	R	0.3390	81	125	—	—	0029534	—	—
8.70		0.3425	81	125	016087	029087	0002476	—	—
	11/32	0.3437	81	125	—	—	0000779	0351291	—

Package quantities: **2A and 2AB:** 0.15mm - 7.90mm = **12**; 8.00mm - 12.50mm = **6**; 12.70mm and above = **1**

A100 and A002: 0.20mm - 10.00mm = **10**; X - 13.00mm = **5**; 33/64 and above = **1**

A002S: 0.20mm - 5.00mm = **2**; 13/64 - 13.00mm = **1**

d ₁ Øh ₈ mm	d ₁ Øh ₈ "/Nr./letter	d ₁ decimal Inch	l ₂ mm	l ₁ mm	2A	2AB	A100	A002	A002S
8.75		0.3445	81	125	016283	029283	0002483	—	—
8.80		0.3465	81	125	016088	029088	0002490	0351307	—
	S	0.3480	81	125	—	—	0029541	—	—
8.90		0.3504	81	125	016089	029089	0002506	0351314	—
9.00		0.3543	81	125	016090	029090	0002513	0351321	46524879
	T	0.3580	81	125	—	—	0029558	—	—
9.10		0.3583	81	125	—	—	0002520	0351338	—
	23/64	0.3594	81	125	—	—	0001561	0351345	—
9.20		0.3622	81	125	—	—	0002537	0351352	—
9.25		0.3642	81	125	—	—	0002544	—	—
9.30		0.3661	81	125	016093	029093	0002551	0351369	—
	U	0.3680	81	125	—	—	0029565	—	—
9.40		0.3701	81	125	016094	029094	0002568	0351376	—
9.50		0.3740	81	125	016095	029095	0002575	0351383	46524880
	3/8	0.3750	87	133	—	—	0001806	0351390	46524881
	V	0.3770	87	133	—	—	0029572	—	—
9.60		0.3780	87	133	016096	029096	0002582	0351406	—
9.70		0.3819	87	133	016097	029097	0002599	0351413	—
9.75		0.3839	87	133	—	—	0002605	—	—
9.80		0.3858	87	133	016098	029098	0002612	0351420	—
	W	0.3860	87	133	—	—	0029589	—	—
9.90		0.3898	87	133	016099	029099	0002629	0351437	—
	25/64	0.3906	87	133	—	—	0001578	0351444	—
10.00		0.3937	87	133	016100	029100	0000526	0351451	46524882
	X	0.3970	87	133	—	—	0029596	—	—
10.10		0.3976	87	133	—	—	0000533	0351468	—
10.20		0.4016	87	133	016102	029102	0000540	0351475	46524883
10.25		0.4035	87	133	—	—	0000557	—	—
	Y	0.4040	87	133	—	—	0029602	—	—
10.30		0.4055	87	133	016103	029103	0000564	0351482	—
	13/32	0.4062	87	133	—	—	0001066	0351499	—
10.40		0.4094	87	133	—	—	0000571	0351505	—
	Z	0.4130	87	133	—	—	0029619	—	—
10.50		0.4134	87	133	016105	029105	0000588	0351512	46524884
10.60		0.4173	87	133	016106	—	0000595	0351529	—
10.70		0.4213	94	142	—	—	0000601	0351536	—
	27/64	0.4219	94	142	—	—	0001585	0351543	—
10.75		0.4232	94	142	—	—	0000618	—	—
10.80		0.4252	94	142	016108	029108	0000625	0351550	—
10.90		0.4291	94	142	016109	029109	0000632	0351567	—
11.00		0.4331	94	142	016110	029110	0000649	0351574	46524885
11.10		0.4370	94	142	—	—	0000656	0351581	—
	7/16	0.4375	94	142	—	—	0002360	0351598	—
11.20		0.4409	94	142	016112	029112	0000663	0351604	—
11.25		0.4429	94	142	—	—	0000670	—	—
11.30		0.4449	94	142	016113	029113	0000687	0351611	—
11.40		0.4488	94	142	016114	029114	0000694	0351628	—
11.50		0.4528	94	142	016115	029115	0000700	0351635	46524886
	29/64	0.4531	94	142	—	—	0001592	0351642	—
11.60		0.4567	94	142	—	—	0000717	0351659	—
11.70		0.4606	94	142	016117	029117	0000724	0351666	—
11.75		0.4626	94	142	—	—	0000731	—	—
11.80		0.4646	94	142	016118	029118	0000748	0351673	—
11.90		0.4685	101	151	—	—	0000755	0351680	—
	15/32	0.4687	101	151	—	—	0001172	0351697	—
12.00		0.4724	101	151	016120	029120	0000816	0351703	46524887
12.10		0.4764	101	151	016121	029121	0000823	0351710	—
12.20		0.4803	101	151	016122	029122	0000830	0351727	—
12.25		0.4823	101	151	—	—	0000847	—	—
12.30		0.4843	101	151	—	—	0000854	0351734	—
	31/64	0.4843	101	151	—	—	0001745	0351741	—
12.40		0.4882	101	151	—	—	0000861	0351758	—

Package quantities: **2A and 2AB:** 0.15mm - 7.90mm = **12**; 8.00mm - 12.50mm = **6**; 12.70mm and above = **1**

A100 and A002: 0.20mm - 10.00mm = **10**; X - 13.00mm = **5**; 33/64 and above = **1**

A002S: 0.20mm - 5.00mm = **2**; 13/64 - 13.00mm = **1**

d ₁ Øh ₈ mm	d ₁ Øh ₈ "/Nr./letter	d ₁ decimal Inch	l ₂ mm	l ₁ mm	2A	2AB	A100	A002	A002S
12.50		0.4921	101	151	016125	029125	0000878	0351765	46524888
12.60		0.4961	101	151	—	—	0000885	0351772	—
	1/2	0.5000	101	151	—	—	0000809	0351789	46524889
12.70		0.5000	101	151	—	029127	0000892	0351796	—
12.75		0.5020	101	151	—	—	0000908	—	—
12.80		0.5039	101	151	016128	029128	0000915	0351802	—
12.90		0.5079	101	151	—	029129	0000922	0351819	—
13.00		0.5118	101	151	016130	029130	0000939	0351826	46524890
	33/64	0.5156	101	151	—	—	0001769	0385333	—
13.10		0.5157	101	151	—	—	0000946	0385180	—
13.20		0.5197	101	151	—	—	0000953	0385524	—
13.25		0.5217	108	160	—	—	0000960	0385579	—
13.30		0.5236	108	160	—	—	0000977	0385197	—
13.40		0.5276	108	160	—	—	0000984	0385531	—
	17/32	0.5313	108	160	—	—	0001240	0385319	—
13.50		0.5315	108	160	034135	016135	0000991	0385548	—
13.60		0.5354	108	160	—	—	0001004	0385203	—
13.70		0.5394	108	160	—	—	0001011	0385210	—
13.75		0.5413	108	160	—	—	0001028	0385586	—
13.80		0.5433	108	160	—	—	0001035	0385227	—
	35/64	0.5469	108	160	—	—	0001776	0385340	—
13.90		0.5472	108	160	—	—	0001042	0385494	—
14.00		0.5512	108	160	034140	016140	0001097	0384497	—
14.25		0.5610	114	169	—	—	0001103	0385234	—
	9/16	0.5625	114	169	—	—	0002636	0385388	—
14.50		0.5709	114	169	034145	016145	0001110	0385241	—
	37/64	0.5781	114	169	—	—	0001790	0385357	—
14.75		0.5807	114	169	—	—	0001127	0385258	—
15.00		0.5906	114	169	034150	016150	0001134	0385265	—
	19/32	0.5937	120	178	—	—	0001318	0385326	—
15.25		0.6004	120	178	—	—	0001141	0385272	—
	39/64	0.6094	120	178	—	—	0001813	0385364	—
15.50		0.6102	120	178	—	016155	0001158	0385289	—
15.75		0.6201	120	178	—	—	0001165	0385296	—
	5/8	0.6250	120	178	—	—	0002117	0385371	—
16.00		0.6299	120	178	—	016160	0001196	0385302	—
	41/64	0.6406	125	184	—	—	0001943	—	—
16.50		0.6496	125	184	—	016165	0001202	—	—
	21/32	0.6562	125	184	—	—	0001547	—	—
17.00		0.6693	125	184	—	016170	0001226	—	—
	43/64	0.6719	130	191	—	—	0001950	—	—
	11/16	0.6875	130	191	—	—	0000762	—	—
17.50		0.6890	130	191	—	016175	0001233	—	—
18.00		0.7087	130	191	—	—	0001271	—	—
18.50		0.7283	135	198	—	—	0001288	—	—
19.00		0.7480	135	198	—	—	0001295	—	—
19.50		0.7677	140	205	—	—	0001301	—	—
20.00		0.7874	140	205	—	—	0001530	—	—

Package quantities: **2A and 2AB:** 0.15mm - 7.90mm = **12**; 8.00mm - 12.50mm = **6**; 12.70mm and above = **1**
A100 and A002: 0.20mm - 10.00mm = **10**; X - 13.00mm = **5**; 33/64 and above = **1**
A002S: 0.20mm - 5.00mm = **2**; 13/64 - 13.00mm = **1**