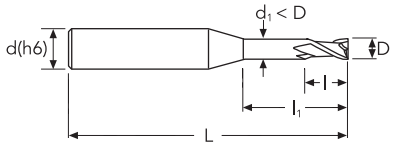
INFO
TYPHOON TA-HTA-4HTA
TYPHOON PU-HPU
TYPHOON SUH
TYPHOON ALH
TYPHOON HRC
TYPHOON SUH MINI
TYPHOON HL
C-SD-TA
LFTA
SUTA
HSS-HSS/CO DRILLS
G2
MDTA
HF VH/UP
MEF
ALU
MEX
UH
HSS/CO-HSSP END MILLS
CARBIDE BURRS

UHLN2

cylindrical shank, 2F, extended and reduced neck

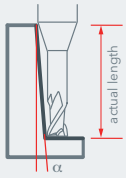
OSAWA NORM | UH | NMG UH RED | <70 HRC | 40° | SQUARE | Z2



P	M	K	N	S	H
☆		☆			★

★ 1st choice ☆ suitable

SQUARE RIB



actual length according to α angle

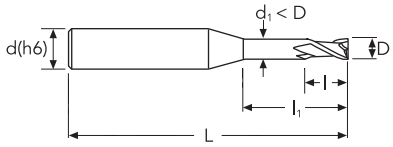
D	D Tol.	CR	CR Tol.	d(h6)	l	l1	d1	L	z	30′	1°	1°30′	2°	3°	EDP No.	Stock
0.2	0/-0.020			4	0.3	0.5	0.16	50	2	0.57	0.59	0.61	0.63	0.68	UHLN2002005	●
0.2	0/-0.020			4	0.3	1	0.16	50	2	1.09	1.12	1.16	1.21	1.30	UHLN200201	●
0.2	0/-0.020			4	0.3	1.5	0.16	50	2	1.60	1.66	1.72	1.78	1.91	UHLN2002015	●
0.3	0/-0.020			4	0.4	1	0.26	50	2	1.09	1.12	1.16	1.21	1.30	UHLN200301	●
0.3	0/-0.020			4	0.4	2	0.26	50	2	2.12	2.19	2.27	2.35	2.53	UHLN200302	●
0.3	0/-0.020			4	0.4	3	0.26	50	2	3.15	3.26	3.38	3.50	3.76	UHLN200303	●
0.4	0/-0.020			4	0.6	2	0.37	50	2	2.12	2.19	2.27	2.35	2.53	UHLN200402	●
0.4	0/-0.020			4	0.6	3	0.37	50	2	3.15	3.26	3.38	3.50	3.76	UHLN200403	●
0.4	0/-0.020			4	0.6	4	0.37	50	2	4.19	4.33	4.49	4.65	5.00	UHLN200404	●
0.4	0/-0.020			4	0.6	5	0.37	50	2	5.22	5.40	5.59	5.79	6.23	UHLN200405	●
0.5	0/-0.020			4	0.7	2	0.45	50	2	2.16	2.23	2.31	2.40	2.57	UHLN200502	●
0.5	0/-0.020			4	0.7	4	0.45	50	2	4.23	4.37	4.53	4.69	5.04	UHLN200504	●
0.5	0/-0.020			4	0.7	6	0.45	50	2	6.29	6.51	6.74	6.98	7.51	UHLN200506	●
0.5	0/-0.020			4	0.7	8	0.45	50	2	8.36	8.65	8.96	9.28	9.98	UHLN200508	●
0.6	0/-0.020			4	0.9	2	0.55	50	2	2.16	2.23	2.31	2.40	2.57	UHLN200602	●
0.6	0/-0.020			4	0.9	4	0.55	50	2	4.23	4.37	4.53	4.69	5.04	UHLN200604	●
0.6	0/-0.020			4	0.9	6	0.55	50	2	6.29	6.51	6.74	6.98	7.51	UHLN200606	●
0.6	0/-0.020			4	0.9	8	0.55	50	2	8.36	8.65	8.96	9.28	9.98	UHLN200608	●
0.6	0/-0.020			4	0.9	10	0.55	50	2	10.43	10.79	11.17	11.57	12.44	UHLN200610	●
0.7	0/-0.020			4	1.0	2	0.65	50	2	2.16	2.23	2.31	2.40	2.57	UHLN200702	●
0.7	0/-0.020			4	1.0	4	0.65	50	2	4.23	4.37	4.53	4.69	5.04	UHLN200704	●
0.7	0/-0.020			4	1.0	6	0.65	50	2	6.29	6.51	6.74	6.98	7.51	UHLN200706	●
0.7	0/-0.020			4	1.0	8	0.65	50	2	8.36	8.65	8.96	9.28	9.98	UHLN200708	●
0.7	0/-0.020			4	1.0	10	0.65	50	2	10.43	10.79	11.17	11.57	12.44	UHLN200710	●
0.8	0/-0.020			4	1.2	4	0.75	50	2	4.23	4.37	4.53	4.69	5.04	UHLN200804	●
0.8	0/-0.020			4	1.2	6	0.75	50	2	6.29	6.51	6.74	6.98	7.51	UHLN200806	●
0.8	0/-0.020			4	1.2	8	0.75	50	2	8.36	8.65	8.96	9.28	9.98	UHLN200808	●
0.8	0/-0.020			4	1.2	10	0.75	50	2	10.43	10.79	11.17	11.57	12.44	UHLN200810	●
0.8	0/-0.020			4	1.2	12	0.75	50	2	12.49	12.93	13.38	13.87	14.91	UHLN200812	●
0.9	0/-0.020			4	1.4	6	0.85	50	2	6.29	6.51	6.74	6.98	7.51	UHLN200906	●
0.9	0/-0.020			4	1.4	8	0.85	50	2	8.36	8.65	8.96	9.28	9.98	UHLN200908	●
0.9	0/-0.020			4	1.4	10	0.85	50	2	10.43	10.79	11.17	11.57	12.44	UHLN200910	●
0.9	0/-0.020			4	1.4	15	0.85	50	2	15.6	16.14	16.71	17.31	18.61	UHLN200915	●
1	0/-0.020			4	1.5	6	0.95	50	2	6.39	6.61	6.84	7.09	7.62	UHLN201006	●
1	0/-0.020			4	1.5	8	0.95	50	2	8.46	8.75	9.06	9.38	10.09	UHLN201008	●
1	0/-0.020			4	1.5	10	0.95	50	2	10.52	10.89	11.27	11.68	12.56	UHLN201010	●
1	0/-0.020			4	1.5	12	0.95	50	2	12.59	13.03	13.49	13.97	15.02	UHLN201012	●
1	0/-0.020			4	1.5	14	0.95	50	2	14.66	15.17	15.70	16.27	17.49	UHLN201014	●
1	0/-0.020			4	1.5	16	0.95	50	2	16.73	17.30	17.92	18.56	19.96	UHLN201016	●

● stock standard ○ non-standard stock ∇ stock exhaustion

UHLN2

cylindrical shank, 2F, extended and reduced neck

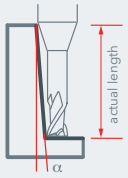
OSAWA NORM | UH | NMG UH RED | <70 HRC | 40° | SQUARE | Z2



P	M	K	N	S	H
☆		☆			★

★ 1st choice ☆ suitable

SQUARE RIB



actual length according to α angle

D	D Tol.	CR	CR Tol.	d(h6)	l	l1	d1	L	z	30′	1°	1°30′	2°	3°	EDP No.	Stock
1.2	0/-0.020			4	1.8	6	1.15	50	2	6.39	6.61	6.84	7.09	7.62	UHLN201206	●
1.2	0/-0.020			4	1.8	8	1.15	50	2	8.46	8.75	9.06	9.38	10.09	UHLN201208	●
1.2	0/-0.020			4	1.8	10	1.15	50	2	10.52	10.89	11.27	11.68	12.56	UHLN201210	●
1.2	0/-0.020			4	1.8	12	1.15	50	2	12.59	13.03	13.49	13.97	15.02	UHLN201212	●
1.4	0/-0.020			4	2.1	6	1.35	50	2	6.39	6.61	6.84	7.09	7.62	UHLN201406	●
1.4	0/-0.020			4	2.1	8	1.35	50	2	8.46	8.75	9.06	9.38	10.09	UHLN201408	●
1.4	0/-0.020			4	2.1	10	1.35	50	2	10.52	10.89	11.27	11.68	12.56	UHLN201410	●
1.4	0/-0.020			4	2.1	12	1.35	50	2	12.59	13.03	13.49	13.97	15.02	UHLN201412	●
1.4	0/-0.020			4	2.1	14	1.35	50	2	14.66	15.17	15.70	16.27	17.49	UHLN201414	●
1.4	0/-0.020			4	2.1	16	1.35	50	2	16.73	17.30	17.92	18.56	19.96	UHLN201416	●
1.5	0/-0.020			4	2.3	6	1.45	50	2	6.39	6.61	6.84	7.09	7.62	UHLN201506	●
1.5	0/-0.020			4	2.3	8	1.45	50	2	8.46	8.75	9.06	9.38	10.09	UHLN201508	●
1.5	0/-0.020			4	2.3	10	1.45	50	2	10.52	10.89	11.27	11.68	12.56	UHLN201510	●
1.5	0/-0.020			4	2.3	12	1.45	50	2	12.59	13.03	13.49	13.97	15.02	UHLN201512	●
1.5	0/-0.020			4	2.3	14	1.45	50	2	14.66	15.17	15.7	16.27	17.49	UHLN201514	●
1.5	0/-0.020			4	2.3	16	1.45	50	2	16.73	17.30	17.92	18.56	19.96	UHLN201516	●
1.5	0/-0.020			4	2.3	18	1.45	60	2	18.79	19.44	20.13	20.86	22.43	UHLN201518	●
1.5	0/-0.020			4	2.3	20	1.45	60	2	20.86	21.58	22.35	23.15	-	UHLN201520	●
1.6	0/-0.020			4	2.4	6	1.55	50	2	6.39	6.61	6.84	7.09	7.62	UHLN201606	●
1.6	0/-0.020			4	2.4	8	1.55	50	2	8.46	8.75	9.06	9.38	10.09	UHLN201608	●
1.6	0/-0.020			4	2.4	10	1.55	50	2	10.52	10.89	11.27	11.68	12.56	UHLN201610	●
1.6	0/-0.020			4	2.4	12	1.55	50	2	12.59	13.03	13.49	13.97	15.02	UHLN201612	●
1.6	0/-0.020			4	2.4	14	1.55	50	2	14.66	15.17	15.70	16.27	17.49	UHLN201614	●
1.6	0/-0.020			4	2.4	16	1.55	50	2	16.73	17.30	17.92	18.56	19.96	UHLN201616	●
1.6	0/-0.020			4	2.4	18	1.55	60	2	18.79	19.44	20.13	20.86	22.43	UHLN201618	●
1.6	0/-0.020			4	2.4	20	1.55	60	2	20.86	21.58	22.35	23.15	-	UHLN201620	●
1.8	0/-0.020			4	2.7	6	1.75	50	2	6.39	6.61	6.84	7.09	7.62	UHLN201806	●
1.8	0/-0.020			4	2.7	8	1.75	50	2	8.46	8.75	9.06	9.38	10.09	UHLN201808	●
1.8	0/-0.020			4	2.7	10	1.75	50	2	10.52	10.89	11.27	11.68	12.56	UHLN201810	●
1.8	0/-0.020			4	2.7	12	1.75	50	2	12.59	13.03	13.49	13.97	15.02	UHLN201812	●
1.8	0/-0.020			4	2.7	14	1.75	50	2	14.66	15.17	15.70	16.27	17.49	UHLN201814	●
1.8	0/-0.020			4	2.7	16	1.75	50	2	16.73	17.30	17.92	18.56	19.96	UHLN201816	●
1.8	0/-0.020			4	2.7	18	1.75	60	2	18.79	19.44	20.13	20.86	-	UHLN201818	●
1.8	0/-0.020			4	2.7	20	1.75	60	2	20.86	21.58	22.35	23.15	-	UHLN201820	●
2	0/-0.020			4	3	6	1.95	50	2	6.39	6.61	6.84	7.09	7.62	UHLN202006	●
2	0/-0.020			4	3	8	1.95	50	2	8.46	8.75	9.06	9.38	10.09	UHLN202008	●
2	0/-0.020			4	3	10	1.95	50	2	10.52	10.89	11.27	11.68	12.56	UHLN202010	●
2	0/-0.020			4	3	12	1.95	50	2	12.59	13.03	13.49	13.97	15.02	UHLN202012	●
2	0/-0.020			4	3	14	1.95	50	2	14.66	15.17	15.70	16.27	17.49	UHLN202014	●

● stock standard ○ non-standard stock ∇ stock exhaustion

INFO
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TYPHOON SUH MINI
TYPHOON HL
C-SD-TA
LFTA
SUTA
HSS-HSS/CO DRILLS
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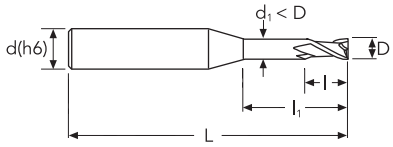
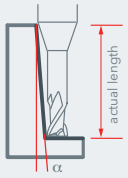


P	M	K	N	S	H
☆		☆			★

★ 1st choice ☆ suitable

SQUARE RIB



actual length according to α angle

D	D Tol.	CR	CR Tol.	d(h6)	l	l1	d1	L	z	30′	1°	1°30′	2°	3°	EDP No.	Stock
2	0/-0.020			4	3	16	1.95	50	2	16.73	17.30	17.92	18.56	-	UHLN202016	●
2	0/-0.020			4	3	18	1.95	60	2	18.79	19.44	20.13	20.86	-	UHLN202018	●
2	0/-0.020			4	3	20	1.95	60	2	20.86	21.58	22.35	23.15	-	UHLN202020	●
2	0/-0.020			4	3	25	1.95	75	2	26.03	26.93	27.88	-	-	UHLN202025	●
2	0/-0.020			4	3	30	1.95	75	2	31.2	32.28	33.42	-	-	UHLN202030	●
2.5	0/-0.020			4	3.7	8	2.4	50	2	8.46	8.75	9.06	9.38	10.09	UHLN202508	●
2.5	0/-0.020			4	3.7	10	2.4	50	2	10.52	10.89	11.27	11.68	12.56	UHLN202510	●
2.5	0/-0.020			4	3.7	12	2.4	50	2	12.59	13.03	13.49	13.97	-	UHLN202512	●
2.5	0/-0.020			4	3.7	14	2.4	50	2	14.66	15.17	15.70	16.27	-	UHLN202514	●
2.5	0/-0.020			4	3.7	16	2.4	50	2	16.73	17.30	17.92	18.56	-	UHLN202516	●
2.5	0/-0.020			4	3.7	18	2.4	60	2	18.79	19.44	20.13	20.86	-	UHLN202518	●
2.5	0/-0.020			4	3.7	20	2.4	60	2	20.86	21.58	22.35	-	-	UHLN202520	●
2.5	0/-0.020			4	3.7	25	2.4	75	2	24.1	24.94	25.83	-	-	UHLN202525	●
2.5	0/-0.020			4	3.7	30	2.4	75	2	31.2	32.28	-	-	-	UHLN202530	●
3	0/-0.025			6	4.5	8	2.85	50	2	8.65	8.95	9.26	9.60	10.31	UHLN203008	●
3	0/-0.025			6	4.5	10	2.85	50	2	10.72	11.09	11.48	11.89	12.78	UHLN203010	●
3	0/-0.025			6	4.5	12	2.85	50	2	12.78	13.23	13.69	14.18	15.25	UHLN203012	●
3	0/-0.025			6	4.5	14	2.85	50	2	14.85	15.36	15.91	16.48	17.72	UHLN203014	●
3	0/-0.025			6	4.5	16	2.85	60	2	16.92	17.50	18.12	18.77	20.18	UHLN203016	●
3	0/-0.025			6	4.5	18	2.85	60	2	18.99	19.64	20.34	21.07	22.65	UHLN203018	●
3	0/-0.025			6	4.5	20	2.85	60	2	21.05	21.78	22.55	23.36	25.12	UHLN203020	●
3	0/-0.025			6	4.5	25	2.85	75	2	26.22	27.13	28.09	29.10	-	UHLN203025	●
4	0/-0.025			6	4.5	10	3.85	60	2	10.91	11.29	11.68	12.10	13.00	UHLN204010	●
4	0/-0.025			6	4.5	15	3.85	60	2	16.08	16.63	17.22	17.84	19.17	UHLN204015	●
4	0/-0.025			6	4.5	20	3.85	60	2	21.25	21.98	22.76	23.57	-	UHLN204020	●
4	0/-0.025			6	4.5	25	3.85	75	2	26.41	27.33	28.29	-	-	UHLN204025	●
4	0/-0.025			6	4.5	30	3.85	75	2	31.58	32.67	33.83	-	-	UHLN204030	●
4	0/-0.025			6	4.5	40	3.85	75	2	41.92	43.37	-	-	-	UHLN204040	●

● stock standard ○ non-standard stock ∇ stock exhaustion

CUTTING PARAMETERS

UHLN2

Material Group ISO 513			P3 P4 P5 K2 K3			P6 K4 H1 H4 H5			H2			H3		
Hardness/Rm			< 45 HRC			45 - 55 HRC			55 - 60 HRC			60 - 65 HRC		
ap x ae			ap x D			ap x D			ap x D			ap x D		
Vc (m/min)			80-120			60-100			50-70			30-50		
D (mm)	l1 (mm)	ap (mm)	n (rpm)	fz (mm/z)	Vf (mm/min)	n (rpm)	fz (mm/z)	Vf (mm/min)	n (rpm)	fz (mm/z)	Vf (mm/min)	n (rpm)	fz (mm/z)	Vf (mm/min)
0.2	≤ 6D	0.01	40000	0.003	240	40000	0.003	220	40000	0.002	190	40000	0.002	170
	≤ 8D	0.01	40000	0.003	200	40000	0.002	180	40000	0.002	165	40000	0.002	145
	≤ 10D	0.01	40000	0.002	170	40000	0.002	150	40000	0.002	135	40000	0.001	120
	≤ 12D	0.01	40000	0.002	130	40000	0.001	120	40000	0.001	105	40000	0.001	90
0.3	≤ 6D	0.02	40000	0.004	320	40000	0.004	290	40000	0.003	255	40000	0.003	225
	≤ 8D	0.01	40000	0.003	270	40000	0.003	240	40000	0.003	220	38200	0.002	180
	≤ 10D	0.01	40000	0.003	220	40000	0.003	200	40000	0.002	180	34000	0.002	135
	≤ 12D	0.01	40000	0.002	180	40000	0.002	160	40000	0.002	140	29700	0.002	90
0.4	≤ 6D	0.02	40000	0.006	480	40000	0.005	430	40000	0.005	385	31800	0.004	265
	≤ 8D	0.02	40000	0.005	410	40000	0.005	370	40000	0.004	325	28700	0.004	205
	≤ 10D	0.01	40000	0.004	340	40000	0.004	300	38200	0.003	255	25500	0.003	150
	≤ 12D	0.01	40000	0.003	260	40000	0.003	240	33400	0.003	175	22300	0.002	105
0.5	≤ 6D	0.03	40000	0.007	560	40000	0.006	500	38200	0.006	430	25500	0.005	250
	≤ 8D	0.02	40000	0.006	480	40000	0.005	430	34400	0.005	325	22900	0.004	190
	≤ 10D	0.02	40000	0.005	390	40000	0.004	350	30600	0.004	240	20400	0.003	140
	≤ 12D	0.01	35000	0.004	270	35700	0.003	250	26800	0.003	165	17800	0.003	95
0.6	≤ 6D	0.03	40000	0.008	640	40000	0.007	580	31800	0.006	405	21200	0.006	235
	≤ 8D	0.03	40000	0.007	540	38200	0.006	470	28700	0.005	310	19100	0.005	180
	≤ 10D	0.02	40000	0.006	450	34000	0.005	340	25500	0.004	230	17000	0.004	135
	≤ 12D	0.02	37200	0.004	330	29700	0.004	240	22300	0.004	155	14900	0.003	90
0.8	≤ 6D	0.04	39800	0.010	800	31800	0.009	570	23900	0.008	380	15900	0.007	225
	≤ 8D	0.03	35800	0.009	610	28700	0.008	440	21500	0.007	290	14300	0.006	170
	≤ 10D	0.03	31800	0.007	450	25500	0.006	320	19100	0.006	215	12700	0.005	125
	≤ 12D	0.02	27900	0.006	310	22300	0.005	220	16700	0.004	145	11100	0.004	85
1	≤ 6D	0.05	31800	0.012	760	25500	0.011	550	19100	0.010	365	12700	0.008	215
	≤ 8D	0.04	28700	0.010	590	22900	0.009	420	17200	0.008	280	11500	0.007	165
	≤ 10D	0.04	25500	0.008	430	20400	0.008	310	15300	0.007	205	10200	0.006	120
	≤ 12D	0.03	22300	0.007	290	17800	0.006	210	13400	0.005	140	8900	0.005	80
1.2	≤ 6D	0.06	26500	0.022	1170	21200	0.020	840	15900	0.018	560	10600	0.015	325
	≤ 8D	0.05	23900	0.019	890	19120	0.017	640	14340	0.015	430	9560	0.013	250
	≤ 10D	0.04	21200	0.015	650	16960	0.014	470	12720	0.012	315	8480	0.011	185
	≤ 12D	0.03	18600	0.012	450	14880	0.011	320	11160	0.010	215	7440	0.008	125
1.4	≤ 6D	0.07	22700	0.024	1090	18160	0.022	780	13620	0.019	525	9080	0.017	305
	≤ 8D	0.06	20500	0.020	840	16400	0.018	600	12300	0.016	400	8200	0.014	235
	≤ 10D	0.05	18200	0.017	610	14560	0.015	440	10920	0.013	295	7280	0.012	170
	≤ 12D	0.04	15900	0.013	420	12720	0.012	300	9540	0.011	200	6360	0.009	120
	≤ 15D	0.03	13600	0.011	290	10880	0.010	210	8160	0.009	140	5440	0.008	80
	> 15D	0.02	11400	0.007	160	9120	0.006	120	6840	0.006	80	4560	0.005	45
1.5	≤ 6D	0.08	21200	0.025	1060	16960	0.023	760	12720	0.020	510	8480	0.018	295
	≤ 8D	0.06	19100	0.021	810	15280	0.019	580	11460	0.017	390	7640	0.015	225
	≤ 10D	0.05	17000	0.018	590	13600	0.016	430	10200	0.014	285	6800	0.012	165
	≤ 12D	0.04	14900	0.014	410	11920	0.012	300	8940	0.011	195	5960	0.010	115
	≤ 15D	0.03	12700	0.011	290	10160	0.010	210	7620	0.009	135	5080	0.008	80
	> 15D	0.02	10600	0.008	160	8480	0.007	110	6360	0.006	75	4240	0.005	45
1.6	≤ 6D	0.08	19900	0.026	1030	15920	0.023	750	11940	0.021	495	7960	0.018	290
	≤ 8D	0.07	17900	0.022	790	14320	0.020	570	10740	0.018	380	7160	0.015	220
	≤ 10D	0.06	15900	0.018	580	12720	0.016	420	9540	0.015	280	6360	0.013	160
	≤ 12D	0.04	13900	0.014	400	11120	0.013	290	8340	0.011	190	5560	0.010	110
	≤ 15D	0.04	11900	0.012	280	9520	0.011	200	7140	0.009	135	4760	0.008	80
	> 15D	0.02	10000	0.008	160	8000	0.007	110	6000	0.006	75	4000	0.005	45

SQUARE RIB

INFO
TYPHOON TA-HTA-4HTA
TYPHOON PU-HPU
TYPHOON SUH
TYPHOON ALH
TYPHOON HRC
TYPHOON SUH MINI
TYPHOON HL
C-SD-TA
LFTA
SUTA
HSS-HSS/CO DRILLS
G2
MDTA
HF VH/UP
MEF
ALU
MEX
UH
HSS/CO-HSSP END MILLS
CARBIDE BURRS

CUTTING PARAMETERS

UHLN2

SQUARE RIB

Material Group ISO 513			P3 P4 P5 K2 K3			P6 K4 H1 H4 H5			H2			H3		
Hardness/Rm			< 45 HRC			45 - 55 HRC			55 - 60 HRC			60 - 65 HRC		
ap x ae			ap x D			ap x D			ap x D			ap x D		
Vc (m/min)			80-120			60-100			50-70			30-50		
D (mm)	l1 (mm)	ap (mm)	n (rpm)	fz (mm/z)	Vf (mm/min)	n (rpm)	fz (mm/z)	Vf (mm/min)	n (rpm)	fz (mm/z)	Vf (mm/min)	n (rpm)	fz (mm/z)	Vf (mm/min)
1.8	≤ 6D	0.09	17700	0.028	990	14160	0.025	710	10620	0.022	475	7080	0.020	280
	≤ 8D	0.08	15900	0.024	760	12720	0.021	540	9540	0.019	365	6360	0.017	210
	≤ 10D	0.06	14200	0.020	560	11360	0.018	400	8520	0.016	265	5680	0.014	155
	≤ 12D	0.05	12400	0.015	380	9920	0.014	270	7440	0.012	185	4960	0.011	105
	≤ 15D	0.04	10600	0.013	270	8480	0.011	190	6360	0.010	130	4240	0.009	75
	> 15D	0.03	8800	0.008	150	7040	0.008	110	5280	0.007	70	3520	0.006	40
2	≤ 6D	0.10	15900	0.030	950	12720	0.027	690	9540	0.024	460	6360	0.021	265
	≤ 8D	0.09	14300	0.026	730	11440	0.023	530	8580	0.020	350	5720	0.018	205
	≤ 10D	0.07	12700	0.021	530	10160	0.019	380	7620	0.017	255	5080	0.015	150
	≤ 12D	0.06	11100	0.017	370	8880	0.015	260	6660	0.013	175	4440	0.012	105
	≤ 15D	0.05	9600	0.014	260	7680	0.012	190	5760	0.011	125	3840	0.009	75
	> 15D	0.03	9600	0.009	170	7680	0.008	120	5760	0.007	85	3840	0.006	50
2.5	≤ 6D	0.13	12700	0.035	890	10160	0.032	640	7620	0.028	425	5080	0.025	250
	≤ 8D	0.11	11500	0.030	680	9200	0.027	490	6900	0.024	330	4600	0.021	190
	≤ 10D	0.09	10200	0.025	500	8160	0.022	360	6120	0.020	240	4080	0.017	140
	≤ 12D	0.07	8900	0.019	340	7120	0.017	250	5340	0.015	165	3560	0.013	95
	≤ 15D	0.06	7600	0.016	240	6080	0.014	170	4560	0.013	115	3040	0.011	65
	> 15D	0.04	7600	0.011	160	6080	0.009	110	4560	0.008	75	3040	0.007	45
3	≤ 6D	0.15	10600	0.040	850	8480	0.036	610	6360	0.032	405	4240	0.028	235
	≤ 8D	0.13	9600	0.034	650	7680	0.031	470	5760	0.027	315	3840	0.024	185
	≤ 10D	0.11	8500	0.028	480	6800	0.025	340	5100	0.022	230	3400	0.020	135
	≤ 12D	0.08	7400	0.022	330	5920	0.020	230	4440	0.018	155	2960	0.015	90
	≤ 15D	0.07	6400	0.018	230	5120	0.016	170	3840	0.014	110	2560	0.013	65
	> 15D	0.05	6400	0.012	150	5120	0.011	110	3840	0.010	75	2560	0.008	45
4	≤ 6D	0.20	8000	0.050	800	6400	0.045	580	4800	0.040	385	3200	0.035	225
	≤ 8D	0.17	7200	0.043	610	5760	0.038	440	4320	0.034	295	2880	0.030	170
	≤ 10D	0.14	6400	0.035	450	5120	0.032	320	3840	0.028	215	2560	0.025	125
	≤ 12D	0.11	5600	0.028	310	4480	0.025	220	3360	0.022	150	2240	0.019	85
	≤ 15D	0.09	4800	0.023	220	3840	0.020	160	2880	0.018	105	1920	0.016	60
	> 15D	0.06	4800	0.015	140	3840	0.014	100	2880	0.012	70	1920	0.011	40