



MEX

STEEL AND HARDENED STEEL 30÷55 HRC

✚ Ultra-fine micrograin and Endless Orange coating for high performance machining on 30÷55 HRC materials. Wide range of tools available for general milling, roughing, copying and super finishing.

🇮🇹 Micrograna ultrafine e rivestimento Endless Orange per lavorazione ad alto rendimento di materiali con durezza compresa tra 30÷55 HRC. Ampia gamma per soddisfare applicazioni di fresatura generale, sgrossatura, copiatura e super finitura.

🇩🇪 Besonders feine Mikrokörnung und Beschichtung Endless Orange für Hochleistungsbearbeitungen von Materialien mit einer Härte zwischen 30 und 55 HRC. Große Produktpalette für Anwendungen zum Fräsen im Allgemeinen, Schruppen, Kopierfräsen und Schlichtbearbeitung.

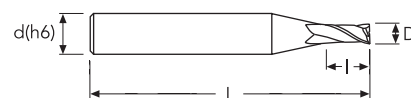
🇫🇷 Ultra Micrograin et revêtement Endless Orange pour un usinage à rendement élevé de matériaux ayant une dureté comprise entre 30÷55 HRC. Une large gamme pour satisfaire les applications de fraisage général, ébauche, copiage et super finition.

🇪🇸 Micrograno ultrafino y revestimiento Endless Orange para el mecanizado a alto rendimiento de materiales con una dureza comprendida entre 30 y 55 HRC. Amplia gama para satisfacer aplicaciones de fresado general, desbaste, copiado y súper acabado.

🇷🇺 Микрозернистая структура твердого сплава и покрытие Endless Orange служат для высокоэффективной обработки материалов с твёрдостью 30÷55 HRC. Представлен широкий ассортимент инструментов для стандартных операций фрезерования, черновой обработки, обработки криволинейных поверхностей и чистовой обработки.

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

cylindrical shank, 2 flutes, miniature

[illegible]

CUTTING PARAMETERS

MEXM2

SLOTTING

	Material Group ISO 513		P2P3P4K1K2					P4P5K3			P6K4			H1H4H5		
	Hardness/Rm		< 1000 N/mm²					< 35 HRC			35 - 45 HRC			45 - 55 HRC		
	ap x ae		ap x D					ap x D			ap x D			ap x D		
	Vc (m/min)		70-110					50-90			30-70			20-40		
	D (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)		
	0.3	0.02	40000	0.004	320	40000	0.004	290	40000	0.003	255	31800	0.003	180		
	0.4	0.02	40000	0.006	480	40000	0.005	430	39800	0.005	380	23900	0.004	200		
	0.5	0.03	40000	0.007	560	40000	0.006	500	31800	0.006	355	19100	0.005	185		
	0.6	0.03	40000	0.008	640	37200	0.007	540	26500	0.006	340	15900	0.006	180		
	0.8	0.04	35800	0.010	720	27900	0.009	500	19900	0.008	320	11900	0.007	165		
	1	0.05	28700	0.012	690	22300	0.011	480	15900	0.010	305	9600	0.008	160		
	1.2	0.06	23900	0.022	1050	18600	0.020	740	13300	0.018	470	8000	0.015	245		
1.4	0.07	20500	0.024	980	15900	0.022	690	11400	0.019	440	6800	0.017	230			
1.5	0.08	19100	0.025	960	14900	0.023	670	10600	0.020	425	6400	0.018	225			
1.6	0.08	17900	0.026	930	13900	0.023	650	10000	0.021	415	6000	0.018	220			
1.8	0.09	15900	0.028	890	12400	0.025	620	8800	0.022	395	5300	0.020	210			
2	0.10	14300	0.030	860	11100	0.027	600	8000	0.024	190	4800	0.021	200			

INFO

TYPHOON
TA-HTA-4HTATYPHOON
PU-HPUTYPHOON
SUHTYPHOON
ALHTYPHOON
HRCTYPHOON
SUH MINITYPHOON
HL

C-SD-TA

LFTA

SUTA

HSS-HSS/CO
DRILLS

G2

MDTA

HF VH/UP

MEF

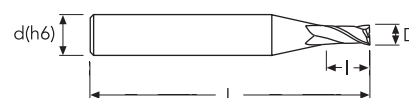
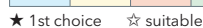
ALU

MEX

UH

HSS/CO-HSSP
END MILLSCARBIDE
BURRS

cylindrical shank, 2 flutes, short cutting length, miniature

[illegible]

CUTTING PARAMETERS

MEXM2SC

SLOTING

	Material Group ISO 513		P2P3P4K1K2			P4P5K3			P6K4			H1H4H5		
	Hardness/Rm		< 1000 N/mm ²			< 35 HRC			35 - 45 HRC			45 - 55 HRC		
	ap x ae		ap x D			ap x D			ap x D			ap x D		
	Vc (m/min)		70-110			50-90			30-70			20-40		
	D (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	0.01	40000	0.003	240	40000	0.003	220	40000	0.002	190	40000	0.002	170
	0.3	0.02	40000	0.004	320	40000	0.004	290	40000	0.003	255	31850	0.003	180
	0.4	0.02	40000	0.006	480	40000	0.005	430	39810	0.005	380	23890	0.004	200
	0.5	0.03	40000	0.007	560	40000	0.006	500	31850	0.006	355	19110	0.005	185
	0.6	0.03	40000	0.008	640	37150	0.007	530	26540	0.006	340	15920	0.006	180
0.8	0.04	35830	0.010	720	27870	0.009	500	19900	0.008	320	11940	0.007	165	
0.9	0.05	31850	0.012	760	24770	0.011	540	17690	0.010	340	10620	0.008	180	

INFO

TYPHOON
TA-HTA-4HTATYPHOON
PU-HPUTYPHOON
SUHTYPHOON
ALHTYPHOON
HRCTYPHOON
SUH MINITYPHOON
HL

C-SD-TA

LFTA

SUTA

HSS-HSS/CO
DRILLS

G2

MDTA

HF VH/UP

MEF

ALU

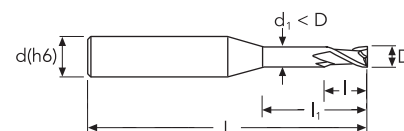
MEX

UH

HSS/CO-HSSP
END MILLSCARBIDE
BURRS

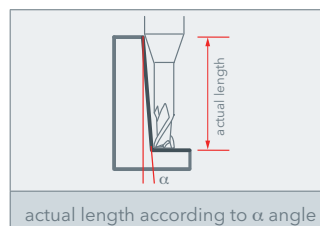
MEXLN2

cylindrical shank, 2 flutes, extended and reduced neck



P	M	K	N	S	H
★		★			★

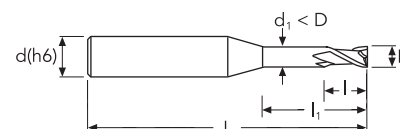
★ 1st choice ☆ suitable



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	MEXLN2002005	●
0.2	0/-0.020			4	0.3	1	0.16	50	2	1.09	1.12	1.16	1.21	1.30	MEXLN200201	●
0.2	0/-0.020			4	0.3	1.5	0.16	50	2	1.60	1.66	1.72	1.78	1.91	MEXLN2002015	●
0.3	0/-0.020			4	0.4	1	0.26	50	2	1.09	1.12	1.16	1.21	1.30	MEXLN200301	●
0.3	0/-0.020			4	0.4	2	0.26	50	2	2.12	2.19	2.27	2.35	2.53	MEXLN200302	●
0.3	0/-0.020			4	0.4	3	0.26	50	2	3.15	3.26	3.38	3.50	3.76	MEXLN200303	●
0.4	0/-0.020			4	0.6	2	0.37	50	2	2.12	2.19	2.27	2.35	2.53	MEXLN200402	●
0.4	0/-0.020			4	0.6	3	0.37	50	2	3.15	3.26	3.38	3.50	3.76	MEXLN200403	●
0.4	0/-0.020			4	0.6	4	0.37	50	2	4.19	4.33	4.49	4.65	5.00	MEXLN200404	●
0.4	0/-0.020			4	0.6	5	0.37	50	2	5.22	5.40	5.59	5.79	6.23	MEXLN200405	●
0.5	0/-0.020			4	0.7	2	0.45	50	2	2.16	2.23	2.31	2.40	2.57	MEXLN200502	●
0.5	0/-0.020			4	0.7	4	0.45	50	2	4.23	4.37	4.53	4.69	5.04	MEXLN200504	●
0.5	0/-0.020			4	0.7	6	0.45	50	2	6.29	6.51	6.74	6.98	7.51	MEXLN200506	●
0.5	0/-0.020			4	0.7	8	0.45	50	2	8.36	8.65	8.96	9.28	9.98	MEXLN200508	●
0.6	0/-0.020			4	0.9	2	0.55	50	2	2.16	2.23	2.31	2.40	2.57	MEXLN200602	●
0.6	0/-0.020			4	0.9	4	0.55	50	2	4.23	4.37	4.53	4.69	5.04	MEXLN200604	●
0.6	0/-0.020			4	0.9	6	0.55	50	2	6.29	6.51	6.74	6.98	7.51	MEXLN200606	●
0.6	0/-0.020			4	0.9	8	0.55	50	2	8.36	8.65	8.96	9.28	9.98	MEXLN200608	●
0.6	0/-0.020			4	0.9	10	0.55	50	2	10.43	10.79	11.17	11.57	12.44	MEXLN200610	●
0.7	0/-0.020			4	1.0	2	0.65	50	2	2.16	2.23	2.31	2.40	2.57	MEXLN200702	●
0.7	0/-0.020			4	1.0	4	0.65	50	2	4.23	4.37	4.53	4.69	5.04	MEXLN200704	●
0.7	0/-0.020			4	1.0	6	0.65	50	2	6.29	6.51	6.74	6.98	7.51	MEXLN200706	●
0.7	0/-0.020			4	1.0	8	0.65	50	2	8.36	8.65	8.96	9.28	9.98	MEXLN200708	●
0.7	0/-0.020			4	1.0	10	0.65	50	2	10.43	10.79	11.17	11.57	12.44	MEXLN200710	●
0.8	0/-0.020			4	1.2	4	0.75	50	2	4.23	4.37	4.53	4.69	5.04	MEXLN200804	●
0.8	0/-0.020			4	1.2	6	0.75	50	2	6.29	6.51	6.74	6.98	7.51	MEXLN200806	●
0.8	0/-0.020			4	1.2	8	0.75	50	2	8.36	8.65	8.96	9.28	9.98	MEXLN200808	●
0.8	0/-0.020			4	1.2	10	0.75	50	2	10.43	10.79	11.17	11.57	12.44	MEXLN200810	●
0.8	0/-0.020			4	1.2	12	0.75	50	2	12.49	12.93	13.38	13.87	14.91	MEXLN200812	●
0.9	0/-0.020			4	1.4	6	0.85	50	2	6.29	6.51	6.74	6.98	7.51	MEXLN200906	●
0.9	0/-0.020			4	1.4	8	0.85	50	2	8.36	8.65	8.96	9.28	9.98	MEXLN200908	●
0.9	0/-0.020			4	1.4	10	0.85	50	2	10.43	10.79	11.17	11.57	12.44	MEXLN200910	●
0.9	0/-0.020			4	1.4	15	0.85	50	2	15.6	16.14	16.71	17.31	18.61	MEXLN200915	●
1.0	0/-0.020			4	1.5	6	0.95	50	2	6.39	6.61	6.84	7.09	7.62	MEXLN201006	●
1.0	0/-0.020			4	1.5	8	0.95	50	2	8.46	8.75	9.06	9.38	10.09	MEXLN201008	●
1.0	0/-0.020			4	1.5	10	0.95	50	2	10.52	10.89	11.27	11.68	12.56	MEXLN201010	●
1.0	0/-0.020			4	1.5	12	0.95	50	2	12.59	13.03	13.49	13.97	15.02	MEXLN201012	●
1.0	0/-0.020			4	1.5	14	0.95	50	2	14.66	15.17	15.70	16.27	17.49	MEXLN201014	●
1.0	0/-0.020			4	1.5	16	0.95	50	2	16.73	17.3	17.92	18.56	19.96	MEXLN201016	●

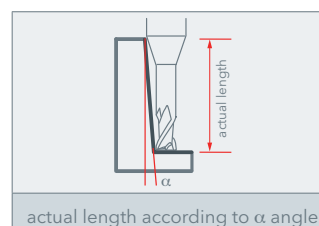
MEXLN2

cylindrical shank, 2 flutes, extended and reduced neck



P	M	K	N	S	H
★		★			★

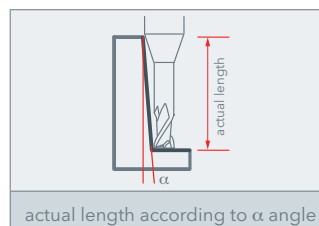
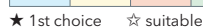
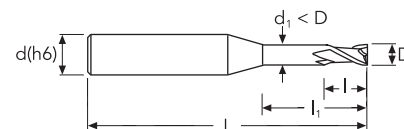
★ 1st choice ☆ suitable



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	MEXLN201206	●
1.2	0/-0.020			4	1.8	8	1.15	50	2	8.46	8.75	9.06	9.38	10.09	MEXLN201208	●
1.2	0/-0.020			4	1.8	10	1.15	50	2	10.52	10.89	11.27	11.68	12.56	MEXLN201210	●
1.2	0/-0.020			4	1.8	12	1.15	50	2	12.59	13.03	13.49	13.97	15.02	MEXLN201212	●
1.4	0/-0.020			4	2.1	6	1.35	50	2	6.39	6.61	6.84	7.09	7.62	MEXLN201406	●
1.4	0/-0.020			4	2.1	8	1.35	50	2	8.46	8.75	9.06	9.38	10.09	MEXLN201408	●
1.4	0/-0.020			4	2.1	10	1.35	50	2	10.52	10.89	11.27	11.68	12.56	MEXLN201410	●
1.4	0/-0.020			4	2.1	12	1.35	50	2	12.59	13.03	13.49	13.97	15.02	MEXLN201412	●
1.4	0/-0.020			4	2.1	16	1.35	50	2	16.73	17.3	17.92	18.56	19.96	MEXLN201416	●
1.5	0/-0.020			4	2.3	6	1.45	50	2	6.39	6.61	6.84	7.09	7.62	MEXLN201506	●
1.5	0/-0.020			4	2.3	8	1.45	50	2	8.46	8.75	9.06	9.38	10.09	MEXLN201508	●
1.5	0/-0.020			4	2.3	10	1.45	50	2	10.52	10.89	11.27	11.68	12.56	MEXLN201510	●
1.5	0/-0.020			4	2.3	12	1.45	50	2	12.59	13.03	13.49	13.97	15.02	MEXLN201512	●
1.5	0/-0.020			4	2.3	14	1.45	50	2	14.66	15.17	15.70	16.27	17.49	MEXLN201514	●
1.5	0/-0.020			4	2.3	16	1.45	50	2	16.73	17.30	17.92	18.56	19.96	MEXLN201516	●
1.5	0/-0.020			4	2.3	18	1.45	60	2	18.79	19.44	20.13	20.86	22.43	MEXLN201518	●
1.5	0/-0.020			4	2.3	20	1.45	60	2	20.86	21.58	22.35	23.15	-	MEXLN201520	●
1.6	0/-0.020			4	2.4	6	1.55	50	2	6.39	6.61	6.84	7.09	7.62	MEXLN201606	●
1.6	0/-0.020			4	2.4	8	1.55	50	2	8.46	8.75	9.06	9.38	10.09	MEXLN201608	●
1.6	0/-0.020			4	2.4	10	1.55	50	2	10.52	10.89	11.27	11.68	12.56	MEXLN201610	●
1.6	0/-0.020			4	2.4	12	1.55	50	2	12.59	13.03	13.49	13.97	15.02	MEXLN201612	●
1.6	0/-0.020			4	2.4	14	1.55	50	2	14.66	15.17	15.70	16.27	17.49	MEXLN201614	●
1.6	0/-0.020			4	2.4	16	1.55	50	2	16.73	17.30	17.92	18.56	19.96	MEXLN201616	●
1.6	0/-0.020			4	2.4	18	1.55	60	2	18.79	19.44	20.13	20.86	22.43	MEXLN201618	●
1.6	0/-0.020			4	2.4	20	1.55	60	2	20.86	21.58	22.35	23.15	-	MEXLN201620	●
1.8	0/-0.020			4	2.7	6	1.75	50	2	6.39	6.61	6.84	7.09	7.62	MEXLN201806	●
1.8	0/-0.020			4	2.7	8	1.75	50	2	8.46	8.75	9.06	9.38	10.09	MEXLN201808	●
1.8	0/-0.020			4	2.7	10	1.75	50	2	10.52	10.89	11.27	11.68	12.56	MEXLN201810	●
1.8	0/-0.020			4	2.7	12	1.75	50	2	12.59	13.03	13.49	13.97	15.02	MEXLN201812	●
1.8	0/-0.020			4	2.7	16	1.75	50	2	16.73	17.30	17.92	18.56	19.96	MEXLN201816	●
1.8	0/-0.020			4	2.7	20	1.75	60	2	20.86	21.58	22.35	23.15	-	MEXLN201820	●
2	0/-0.020			4	3	6	1.95	50	2	6.39	6.61	6.84	7.09	7.62	MEXLN202006	●
2	0/-0.020			4	3	8	1.95	50	2	8.46	8.75	9.06	9.38	10.09	MEXLN202008	●
2	0/-0.020			4	3	10	1.95	50	2	10.52	10.89	11.27	11.68	12.56	MEXLN202010	●
2	0/-0.020			4	3	12	1.95	50	2	12.59	13.03	13.49	13.97	15.02	MEXLN202012	●
2	0/-0.020			4	3	14	1.95	50	2	14.66	15.17	15.70	16.27	17.49	MEXLN202014	●
2	0/-0.020			4	3	16	1.95	50	2	16.73	17.30	17.92	18.56	-	MEXLN202016	●
2	0/-0.020			4	3	18	1.95	60	2	18.79	19.44	20.13	20.86	-	MEXLN202018	●
2	0/-0.020			4	3	20	1.95	60	2	20.86	21.58	22.35	23.15	-	MEXLN202020	●

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

cylindrical shank, 2 flutes, extended and reduced neck

[illegible]

CUTTING PARAMETERS

MEXLN2

SQUARE RIB

Material Group ISO 513			P2P3P4K1K2					P4P5K3			P6K4			H1H4H5		
Hardness/Rm			< 1000 N/mm ²					< 35 HRC			35 - 45 HRC			45 - 55 HRC		
ap x ae			ap x D					ap x D			ap x D			ap x D		
Vc (m/min)			70-110					50-90			30-70			20-40		
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	38200	0.001	110		
	≤ 12D	0.01	40000	0.002	130	40000	0.001	120	40000	0.001	105	33400	0.001	75		
0.3	≤ 6D	0.02	40000	0.004	320	40000	0.004	290	40000	0.003	255	31800	0.003	180		
	≤ 8D	0.01	40000	0.004	290	40000	0.003	260	40000	0.003	230	28700	0.003	145		
	≤ 10D	0.01	40000	0.003	260	40000	0.003	230	40000	0.003	205	25500	0.002	115		
	≤ 12D	0.01	40000	0.003	220	40000	0.003	200	37200	0.002	165	22300	0.002	85		
0.4	≤ 6D	0.02	40000	0.006	480	40000	0.005	430	39800	0.005	380	23900	0.004	200		
	≤ 8D	0.02	40000	0.005	430	40000	0.005	390	35800	0.004	310	21500	0.004	165		
	≤ 10D	0.01	40000	0.005	380	40000	0.004	350	31800	0.004	245	19100	0.003	130		
	≤ 12D	0.01	40000	0.004	340	40000	0.004	300	27900	0.003	185	16700	0.003	100		
0.5	≤ 6D	0.03	40000	0.007	560	40000	0.006	500	31800	0.006	355	19100	0.005	185		
	≤ 8D	0.02	40000	0.006	500	40000	0.006	450	28700	0.005	290	17200	0.004	150		
	≤ 10D	0.02	40000	0.006	450	35700	0.005	360	25500	0.004	230	15300	0.004	120		
	≤ 12D	0.01	40000	0.005	390	31200	0.004	280	22300	0.004	175	13400	0.003	90		
0.6	≤ 6D	0.03	40000	0.008	640	37200	0.007	540	26500	0.006	340	15900	0.006	180		
	≤ 8D	0.03	40000	0.007	580	33400	0.006	430	23900	0.006	275	14300	0.005	145		
	≤ 10D	0.02	38200	0.006	490	29700	0.006	340	21200	0.005	215	12700	0.004	115		
	≤ 12D	0.02	33400	0.006	370	26000	0.005	260	18600	0.004	165	11100	0.004	85		
0.8	≤ 6D	0.04	35800	0.010	720	27900	0.009	500	19900	0.008	320	11900	0.007	165		
	≤ 8D	0.03	32200	0.009	580	25100	0.008	410	17900	0.007	260	10700	0.006	135		
	≤ 10D	0.03	28700	0.008	460	22300	0.007	320	15900	0.006	205	9600	0.006	110		
	≤ 12D	0.02	25100	0.007	350	19500	0.006	250	13900	0.006	155	8400	0.005	80		
1	≤ 6D	0.05	28700	0.012	690	22300	0.011	480	15900	0.010	305	9600	0.008	160		
	≤ 8D	0.04	25800	0.011	560	20100	0.010	390	14300	0.009	245	8600	0.008	130		
	≤ 10D	0.04	22900	0.010	440	17800	0.009	310	12700	0.008	195	7600	0.007	100		
	≤ 12D	0.03	20100	0.008	340	15600	0.008	240	11100	0.007	150	6700	0.006	80		
1.2	≤ 6D	0.06	23900	0.022	1050	18600	0.020	740	13300	0.018	470	8000	0.015	245		
	≤ 8D	0.05	21500	0.020	850	16700	0.018	600	11900	0.016	375	7200	0.014	200		
	≤ 10D	0.04	19100	0.018	670	14900	0.016	470	10600	0.014	300	6400	0.012	160		
	≤ 12D	0.03	16700	0.015	510	13000	0.014	360	9300	0.012	230	5600	0.011	120		
1.4	≤ 6D	0.07	20500	0.024	980	15900	0.022	690	11400	0.019	440	6800	0.017	230		
	≤ 8D	0.06	18400	0.022	790	14300	0.019	560	10200	0.017	355	6100	0.015	185		
	≤ 10D	0.05	16400	0.019	630	12700	0.017	440	9100	0.015	280	5500	0.013	150		
	≤ 12D	0.04	14300	0.017	480	11100	0.015	340	8000	0.013	215	4800	0.012	115		
	≤ 15D	0.03	12300	0.014	350	9600	0.013	250	6800	0.012	155	4100	0.010	85		
	> 15D	0.02	10200	0.012	240	8000	0.011	170	5700	0.010	110	3400	0.008	55		
1.5	≤ 6D	0.08	19100	0.025	960	14900	0.023	670	10600	0.020	425	6400	0.018	225		
	≤ 8D	0.06	17200	0.023	770	13400	0.020	540	9600	0.018	345	5700	0.016	180		
	≤ 10D	0.05	15300	0.020	610	11900	0.018	430	8500	0.016	270	5100	0.014	145		
	≤ 12D	0.04	13400	0.018	470	10400	0.016	330	7400	0.014	205	4500	0.012	110		
	≤ 15D	0.03	11500	0.015	350	8900	0.014	240	6400	0.012	155	3800	0.011	80		
	> 15D	0.02	9600	0.013	240	7400	0.011	170	5300	0.010	105	3200	0.009	55		
1.6	≤ 6D	0.08	17900	0.026	930	13900	0.023	650	10000	0.021	415	6000	0.018	220		
	≤ 8D	0.07	16100	0.023	750	12500	0.021	530	9000	0.019	335	5400	0.016	175		
	≤ 10D	0.06	14300	0.021	590	11100	0.019	420	8000	0.017	265	4800	0.015	140		
	≤ 12D	0.04	12500	0.018	450	9800	0.016	320	7000	0.015	205	4200	0.013	105		
	≤ 15D	0.04	10700	0.016	330	8400	0.014	240	6000	0.012	150	3600	0.011	80		
	> 15D	0.02	9000	0.013	230	7000	0.012	160	5000	0.010	105	3000	0.009	55		



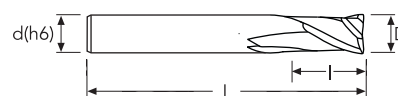
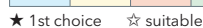
INFO
TYPHOON TA-HTA-4HTA
TYPHOON PU-HPU
TYPHOON SUH
TYPHOON ALH
TYPHOON HRC
TYPHOON SUH MINI
TYPHOON HL
C-SD-TA
LFTA
SUTA
HSS-HSS/CO DRILLS
G2
MDTA
HF VH/UP
MEF
ALU
MEX
UH
HSS/CO-HSSP END MILLS
CARBIDE BURRS

M

SQUARE RIB

	Material Group ISO 513			P2	P3	P4	K1	K2	P4	P5	K3	P6	K4	H1	H4	H5
	Hardness/Rm			< 1000 N/mm ²			< 35 HRC			35 - 45 HRC			45 - 55 HRC			
	ap x ae			ap x D			ap x D			ap x D			ap x D			
	Vc (m/min)			70-110			50-90			30-70			20-40			
	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		15900	0.028	890	12400	0.025	620	8800	0.022	395	5300	0.020	210	
	≤ 8D	0.08		14300	0.025	720	11100	0.023	500	8000	0.020	325	4800	0.018	170	
	≤ 10D	0.06		12700	0.022	570	9900	0.020	400	7100	0.018	255	4200	0.016	130	
	≤ 12D	0.05		11100	0.020	440	8700	0.018	310	6200	0.016	195	3700	0.014	100	
	≤ 15D	0.04		9600	0.017	320	7400	0.015	220	5300	0.013	140	3200	0.012	75	
	> 15D	0.03		8000	0.014	220	6200	0.013	160	4400	0.011	100	2700	0.010	55	
2	≤ 6D	0.10		14300	0.030	860	11100	0.027	600	8000	0.024	385	4800	0.021	200	
	≤ 8D	0.09		12900	0.027	700	10000	0.024	490	7200	0.022	310	4300	0.019	165	
	≤ 10D	0.07		11500	0.024	550	8900	0.022	380	6400	0.019	245	3800	0.017	130	
	≤ 12D	0.06		10000	0.021	420	7800	0.019	290	5600	0.017	190	3300	0.015	95	
	≤ 15D	0.05		8600	0.018	310	6700	0.016	220	4800	0.014	140	2900	0.013	75	
	> 15D	0.03		8600	0.018	310	6700	0.016	220	4800	0.014	140	2900	0.013	75	
2.5	≤ 6D	0.13		11500	0.035	810	8900	0.032	560	6400	0.028	360	3800	0.025	185	
	≤ 8D	0.11		10300	0.032	650	8000	0.028	450	5700	0.025	285	3400	0.022	150	
	≤ 10D	0.09		9200	0.028	520	7100	0.025	360	5100	0.022	230	3100	0.020	120	
	≤ 12D	0.07		8000	0.025	390	6200	0.022	270	4500	0.020	175	2700	0.017	95	
	≤ 15D	0.06		6900	0.021	290	5400	0.019	200	3800	0.017	130	2300	0.015	70	
	> 15D	0.04		6900	0.021	290	5400	0.019	200	3800	0.017	130	2300	0.015	70	
3	≤ 6D	0.15		9600	0.040	770	7400	0.036	530	5300	0.032	340	3200	0.028	180	
	≤ 8D	0.13		8600	0.036	620	6700	0.032	430	4800	0.029	275	2900	0.025	145	
	≤ 10D	0.11		7600	0.032	490	5900	0.029	340	4200	0.026	215	2500	0.022	110	
	≤ 12D	0.08		6700	0.028	380	5200	0.025	260	3700	0.022	165	2200	0.020	85	
	≤ 15D	0.07		5700	0.024	270	4500	0.022	190	3200	0.019	125	1900	0.017	65	
	> 15D	0.05		5700	0.024	270	4500	0.022	190	3200	0.019	125	1900	0.017	65	
4	≤ 6D	0.20		7200	0.050	720	5600	0.045	500	4000	0.040	320	2400	0.035	170	
	≤ 8D	0.17		6400	0.045	580	5000	0.041	410	3600	0.036	260	2100	0.032	130	
	≤ 10D	0.14		5700	0.040	460	4500	0.036	320	3200	0.032	205	1900	0.028	105	
	≤ 12D	0.11		5000	0.035	350	3900	0.032	250	2800	0.028	155	1700	0.025	85	
	≤ 15D	0.09		4300	0.030	260	3300	0.027	180	2400	0.024	115	1400	0.021	60	
	> 15D	0.06		4300	0.030	260	3300	0.027	180	2400	0.024	115	1400	0.021	60	

cylindrical shank, 2 flutes



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

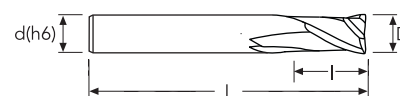
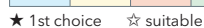
CUTTING PARAMETERS

MEXCS2

SLOTTING

	Material Group ISO 513	P2P3P4K1K2					P4P5K3			P6K4			H1H4H5		
	Hardness/Rm	< 1000 N/mm ²					< 35 HRC			35 - 45 HRC			45 - 55 HRC		
	ap x ae	0.5D x D					0.3D x D			0.2D x D			0.1D x D		
	Vc (m/min)	70-110					50-90			30-70			20-40		
	D (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	28660	0.006	340	22290	0.005	240	15920	0.005	150	9550	0.004	80			
2	14330	0.010	290	11150	0.009	200	7960	0.008	130	4780	0.007	70			
3	9550	0.014	280	7430	0.013	190	5310	0.012	125	3180	0.010	65			
4	7170	0.020	280	5570	0.018	200	3980	0.016	125	2390	0.014	65			
5	5730	0.026	290	4460	0.023	200	3180	0.020	130	1910	0.018	70			
6	4780	0.032	310	3720	0.029	220	2650	0.026	135	1590	0.023	70			
8	3580	0.038	270	2790	0.034	190	1990	0.031	120	1190	0.027	65			
10	2870	0.046	260	2230	0.041	180	1590	0.037	115	960	0.032	60			
12	2390	0.055	260	1860	0.050	180	1330	0.044	120	800	0.039	60			
14	2050	0.064	260	1590	0.057	180	1140	0.051	115	680	0.045	60			
16	1790	0.072	260	1390	0.065	180	1000	0.058	115	600	0.051	60			
18	1590	0.082	260	1240	0.074	180	880	0.066	115	530	0.058	60			
20	1430	0.094	270	1110	0.084	190	800	0.075	120	480	0.065	65			

cylindrical shank, 2 flutes, long

[illegible]

● stock standard ○ non-stock standard ▽ stock exhaustion

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

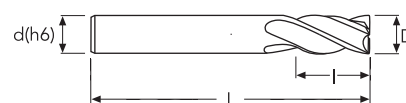
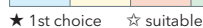
CUTTING PARAMETERS

MEXCL2

 SLOTING	Material Group ISO 513	P2 P3 P4 K1 K2	P4 P5 K3	P6 K4	H1 H4 H5								
	Hardness/Rm	< 1000 N/mm ²			< 35 HRC			35 - 45 HRC			45 - 55 HRC		
	ap x ae	0.3D x D			0.3D x D			0.2D x D			0.05D x D		
	Vc (m/min)	70-110			50-90			30-70			20-40		
	D (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	28700	0.005	290	22300	0.005	200	15900	0.004	125	9600	0.004	65
	1.5	19100	0.006	230	14900	0.005	160	10600	0.005	100	6400	0.004	55
	2	14300	0.009	260	11100	0.008	180	8000	0.007	115	4800	0.006	60
	3	9600	0.012	230	7400	0.011	160	5300	0.010	100	3200	0.008	55
	4	7200	0.018	260	5600	0.016	180	4000	0.014	115	2400	0.013	60
5	5700	0.024	270	4500	0.022	190	3200	0.019	125	1900	0.017	65	
6	4800	0.029	280	3700	0.026	190	2700	0.023	125	1600	0.020	65	
8	3600	0.035	250	2800	0.032	180	2000	0.028	110	1200	0.025	60	
10	2900	0.041	240	2200	0.037	160	1600	0.033	105	1000	0.029	55	
12	2400	0.050	240	1900	0.045	170	1300	0.040	105	800	0.035	55	

< D3: ap = 0.4 mm max

cylindrical shank, 4 flutes

[illegible]

● stock standard ○ non-stock standard ▽ stock exhaustion

INFO

TYPHOON
TA-HTA-4HTA

TYPHOON
PU-HPU

TYPHOON
SUH

TYPHOON
ALH

TYPHOON
HRC

TYPHOON
SUH MINI

TYPHOON
HL

C-SD-TA

LFTA

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1

SKILLS

G2

MDTA

HF VH/UP

MEF

ALU

MEX

UH

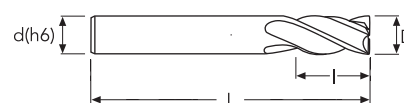
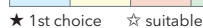
HSS/CO-HSSP
END MILLS

CARBIDE
BURRS

SIDE MILLING

	Material Group ISO 513	P2P3P4K1K2					P4P5K3			P6K4			H1H4H5			
	Hardness/Rm	< 1000 N/mm ²						< 35 HRC			35 - 45 HRC			45 - 55 HRC		
	ap x ae	D x 0.01D						D x 0.01D			D x 0.05D			D x 0.05D		
	Vc (m/min)	80-120						50-90			40-60			20-40		
	D (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	31850	0.009	1080	22290	0.008	680	15920	0.007	435	9550	0.006	225				
2	15920	0.017	1080	11150	0.015	680	7960	0.014	435	4780	0.012	230				
3	10620	0.026	1080	7430	0.023	680	5310	0.020	435	3180	0.018	225				
4	7960	0.034	1080	5570	0.031	680	3980	0.027	435	2390	0.024	230				
5	6370	0.038	970	4460	0.034	610	3180	0.031	390	1910	0.027	205				
6	5310	0.043	900	3720	0.038	570	2650	0.034	360	1590	0.030	190				
8	3980	0.055	880	2790	0.050	550	1990	0.044	350	1190	0.039	185				
10	3180	0.071	900	2230	0.064	570	1590	0.057	360	960	0.050	190				
12	2650	0.085	900	1860	0.077	570	1330	0.068	360	800	0.060	190				
14	2270	0.098	890	1590	0.088	560	1140	0.078	355	680	0.068	185				
16	1990	0.110	880	1390	0.099	550	1000	0.088	350	600	0.077	185				
18	1770	0.125	890	1240	0.113	560	880	0.100	350	530	0.088	185				
20	1590	0.140	890	1110	0.126	560	800	0.112	360	480	0.098	190				
22	1450	0.155	900	1010	0.140	560	720	0.124	355	430	0.109	185				
25	1270	0.177	900	890	0.159	570	640	0.142	360	380	0.124	190				

cylindrical shank, 4 flutes, long

[illegible]

● stock standard ○ non-stock standard ▽ stock exhaustion

INFO

TYPHOON
TA-HTA-4HTA

TYPHOON
PU-HPU

TYPHOON
SUH

TYPHOON
ALH

TYPHOON
HPC

TYPHOON

TYPHOON

65

STILLS

Year	Percentage of U.S. Population Aged 65 and Older
1980	7%
1985	8%
1990	9%
1995	10%
2000	11%
2005	12%
2010	13%
2015	14%
2020	16%

HF VH/UP

MEF

ALU

MEX

UH

HSS/CO-HSSP
END MILLS

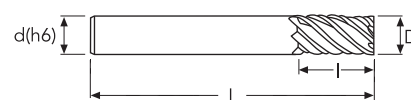
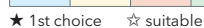
CARBIDE
BURRS

CUTTING PARAMETERS

MEXCL4

	Material Group ISO 513	P2 P3 P4 K1 K2			P4 P5 K3			P6 K4			H1 H4 H5		
	Hardness/Rm	< 1000 N/mm ²			< 35 HRC			35 - 45 HRC			45 - 55 HRC		
	ap x ae	1.5D x 0.05D			1.5D x 0.05D			1.5D x 0.05D			1.5D x 0.05D		
	Vc (m/min)	60-100			40-80			20-60			20-40		
	D (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)
	2	12740	0.014	740	9550	0.013	500	6370	0.012	295	4780	0.010	195
	3	8490	0.022	740	6370	0.020	500	4250	0.017	295	3180	0.015	195
	4	6370	0.029	740	4780	0.026	500	3180	0.023	295	2390	0.020	195
	5	5100	0.033	660	3820	0.029	450	2550	0.026	265	1910	0.023	175
	6	4250	0.036	610	3180	0.033	410	2120	0.029	245	1590	0.025	160
	8	3180	0.047	600	2390	0.042	400	1590	0.038	240	1190	0.033	155
	10	2550	0.060	620	1910	0.054	410	1270	0.048	245	960	0.042	160
	12	2120	0.072	610	1590	0.065	410	1060	0.058	245	800	0.051	160
	14	1820	0.083	600	1360	0.075	410	910	0.066	240	680	0.058	160
	16	1590	0.094	590	1190	0.084	400	800	0.075	240	600	0.065	155
	20	1270	0.119	600	960	0.107	410	640	0.095	245	480	0.083	160
	25	1020	0.150	610	760	0.135	410	510	0.120	245	380	0.105	160

cylindrical shank, multi flute

[illegible]

● stock standard ○ non-stock standard ▽ stock exhaustion

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

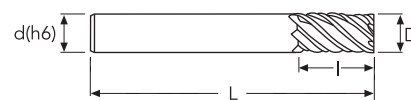
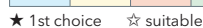
CUTTING PARAMETERS

MEXCSHM

SIDE MILLING

Material Group ISO 513	P2P3P4K1K2				P4P5K3			P6K4			H1H4H5															
	Hardness/Rm				< 1000 N/mm ²			< 35 HRC			35 - 45 HRC			45 - 55 HRC												
	ap x ae				1.5D x 0.1D				1.5D x 0.1D				1.5D x 0.05D				1.5D x 0.05D									
	Vc (m/min)				120-160				90-130				60-100				50-70									
	D (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)							
	3		14860		0.008		750		11680		0.008		530		8490		0.007		340		6370		0.006		220	
	4		11150		0.012		800		8760		0.011		570		6370		0.010		370		4780		0.008		240	
	5		8920		0.014		770		7010		0.013		550		5100		0.012		350		3820		0.010		230	
	6		7430		0.018		800		5840		0.016		570		4250		0.014		370		3180		0.013		240	
	8		5570		0.028		920		4380		0.025		650		3180		0.022		420		2390		0.019		280	
10		4460		0.034		900		3500		0.030		640		2550		0.027		410		1910		0.024		270		
12		3720		0.041		910		2920		0.037		640		2120		0.033		420		1590		0.029		270		
14		3180		0.048		920		2500		0.043		650		1820		0.038		420		1360		0.034		270		
16		2790		0.056		940		2190		0.051		670		1590		0.045		430		1190		0.039		280		
18		2480		0.065		970		1950		0.059		680		1420		0.052		440		1060		0.046		290		
20		2230		0.073		1300		1750		0.066		920		1270		0.058		590		960		0.051		390		

cylindrical shank, multi flute, long

[illegible]

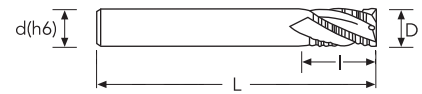
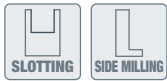
● stock standard ○ non-stock standard ▽ stock exhaustion

CUTTING PARAMETERS

MEXCLHM

	Material Group ISO 513	P2 P3 P4 K1 K2			P4 P5 K3			P6 K4			H1 H4 H5		
	Hardness/Rm	< 1000 N/mm ²			< 35 HRC			35 - 45 HRC			45 - 55 HRC		
	ap x ae	1.5D x 0.05D			1.5D x 0.05D			1.5D x 0.05D			1.5D x 0.05D		
	Vc (m/min)	80-120			50-90			40-60			20-40		
	D (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)
	3	10620	0.007	450	7430	0.006	290	5310	0.006	180	3180	0.005	100
	4	7960	0.010	490	5570	0.009	310	3980	0.008	190	2390	0.007	100
	5	6370	0.012	470	4460	0.011	290	3180	0.010	190	1910	0.009	100
	6	5310	0.015	490	3720	0.014	310	2650	0.012	190	1590	0.011	100
	8	3980	0.023	560	2790	0.021	350	1990	0.019	220	1190	0.016	120
	10	3180	0.029	540	2230	0.026	340	1590	0.023	220	960	0.020	120
	12	2650	0.035	550	1860	0.031	350	1330	0.028	220	800	0.024	120
	14	2270	0.041	560	1590	0.037	350	1140	0.033	220	680	0.029	120
	16	1990	0.048	570	1390	0.043	360	1000	0.038	230	600	0.034	120
	18	1770	0.055	580	1240	0.050	370	880	0.044	230	530	0.039	120
	20	1590	0.063	800	1110	0.057	500	800	0.050	320	480	0.044	170

cylindrical shank, roughing

[illegible]

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

MEXCSFR

SLOTTING

	Material Group ISO 513	P2P3P4K1K2				P4P5K3			P6K4			H1H4H5		
	Hardness/Rm	< 1000 N/mm ²				< 35 HRC			35 - 45 HRC			45 - 55 HRC		
	ap x ae	0.5D x D				0.5D x D			0.3D x D			0.1D x D		
	Vc (m/min)	70-90				50-70			40-60			20-40		
	D (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)	
	6	4250	0.043	720	3180	0.038	490	2650	0.034	360	1590	0.030	190	
	8	3180	0.055	700	2390	0.050	480	1990	0.044	350	1190	0.039	185	
	10	2550	0.071	720	1910	0.064	490	1590	0.057	360	960	0.050	190	
	12	2120	0.085	720	1590	0.077	490	1330	0.068	360	800	0.060	190	
	14	1820	0.098	710	1360	0.088	480	1140	0.078	355	680	0.068	185	
16	1590	0.110	700	1190	0.099	470	1000	0.088	350	600	0.077	185		
20	1270	0.140	710	960	0.126	480	800	0.112	360	480	0.098	190		

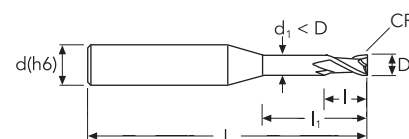
D6-8: Z=3

 SIDE MILLING	Hardness/Rm	< 1000 N/mm ²			< 35 HRC			35 - 45 HRC			45 - 55 HRC		
	ap x ae	1.5D x 0.3D			1.5D x 0.3D			D x 0.1D			D x 0.05D		
	Vc (m/min)	80-100			60-80			50-70			30-50		
	D (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)
	6	4250	0.047	790	3180	0.042	540	2650	0.037	395	1590	0.033	210
	8	3180	0.061	770	2390	0.055	520	1990	0.049	385	1190	0.043	205
	10	2550	0.078	800	1910	0.070	540	1590	0.062	395	960	0.055	210
	12	2120	0.094	790	1590	0.084	540	1330	0.075	400	800	0.065	210
	14	1820	0.108	780	1360	0.097	530	1140	0.086	390	680	0.075	205
	16	1590	0.121	770	1190	0.109	520	1000	0.097	385	600	0.085	205
20	1270	0.154	780	960	0.139	530	800	0.123	395	480	0.108	205	

D6-8: Z=3

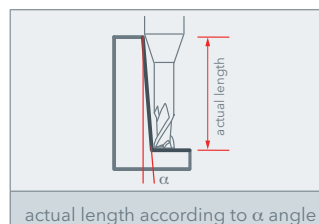
MEXLN2R

cylindrical shank, 2 flutes, extended and reduced neck, corner radius



P	M	K	N	S	H
★		★			★

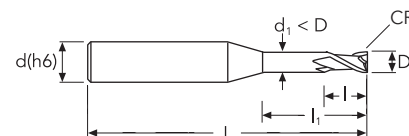
★ 1st choice ☆ suitable



D	D Tol.	CR	CR Tol.	d(h6)	l	l1	d1	L	z	30°	1°	1°30'	2°	3°	EDP No.	Stock
0.3	0/-0.020	0.05	+/-0.010	4	0.4	1	0.26	50	2	1.08	1.12	1.15	1.19	1.25	MEXLN20030001	●
0.3	0/-0.020	0.05	+/-0.010	4	0.4	1.5	0.26	50	2	1.60	1.65	1.70	1.75	1.85	MEXLN20030065	●
0.3	0/-0.020	0.05	+/-0.010	4	0.4	2	0.26	50	2	2.12	2.19	2.25	2.32	2.46	MEXLN20030002	●
0.3	0/-0.020	0.05	+/-0.010	4	0.4	3	0.26	50	2	3.15	3.25	3.35	3.46	3.66	MEXLN20030003	●
0.3	0/-0.020	0.10	+/-0.010	4	0.4	1	0.26	50	2	1.08	1.12	1.15	1.18	1.24	MEXLN20030101	●
0.3	0/-0.020	0.10	+/-0.010	4	0.4	1.5	0.26	50	2	1.60	1.65	1.70	1.75	1.84	MEXLN20030165	●
0.3	0/-0.020	0.10	+/-0.010	4	0.4	2	0.26	50	2	2.12	2.18	2.25	2.31	2.45	MEXLN20030102	●
0.3	0/-0.020	0.10	+/-0.010	4	0.4	3	0.26	50	2	3.15	3.25	3.35	3.45	3.65	MEXLN20030103	●
0.4	0/-0.020	0.05	+/-0.010	4	0.6	1	0.37	50	2	1.08	1.12	1.15	1.19	1.25	MEXLN20040001	●
0.4	0/-0.020	0.05	+/-0.010	4	0.6	2	0.37	50	2	2.12	2.19	2.25	2.32	2.46	MEXLN20040002	●
0.4	0/-0.020	0.05	+/-0.010	4	0.6	3	0.37	50	2	3.15	3.25	3.35	3.46	3.66	MEXLN20040003	●
0.4	0/-0.020	0.05	+/-0.010	4	0.6	4	0.37	50	2	4.19	4.32	4.46	4.59	4.86	MEXLN20040004	●
0.4	0/-0.020	0.10	+/-0.010	4	0.6	1	0.37	50	2	1.08	1.12	1.15	1.18	1.24	MEXLN20040101	●
0.4	0/-0.020	0.10	+/-0.010	4	0.6	2	0.37	50	2	2.12	2.18	2.25	2.31	2.45	MEXLN20040102	●
0.4	0/-0.020	0.10	+/-0.010	4	0.6	3	0.37	50	2	3.15	3.25	3.35	3.45	3.65	MEXLN20040103	●
0.4	0/-0.020	0.10	+/-0.010	4	0.6	4	0.37	50	2	4.18	4.32	4.45	4.58	4.85	MEXLN20040104	●
0.5	0/-0.020	0.05	+/-0.010	4	0.7	2	0.45	50	2	2.16	2.23	2.29	2.36	2.50	MEXLN20050002	●
0.5	0/-0.020	0.05	+/-0.010	4	0.7	4	0.45	50	2	4.22	4.36	4.50	4.63	4.90	MEXLN20050004	●
0.5	0/-0.020	0.05	+/-0.010	4	0.7	6	0.45	50	2	6.29	6.49	6.70	6.90	7.31	MEXLN20050006	●
0.5	0/-0.020	0.10	+/-0.010	4	0.7	2	0.45	50	2	2.16	2.22	2.29	2.36	2.49	MEXLN20050102	●
0.5	0/-0.020	0.10	+/-0.010	4	0.7	4	0.45	50	2	4.22	4.36	4.49	4.63	4.89	MEXLN20050104	●
0.5	0/-0.020	0.10	+/-0.010	4	0.7	6	0.45	50	2	6.29	6.49	6.69	6.89	7.30	MEXLN20050106	●
0.6	0/-0.020	0.10	+/-0.010	4	0.9	2	0.55	50	2	2.16	2.22	2.29	2.36	2.49	MEXLN20060102	●
0.6	0/-0.020	0.10	+/-0.010	4	0.9	4	0.55	50	2	4.22	4.36	4.49	4.63	4.89	MEXLN20060104	●
0.6	0/-0.020	0.10	+/-0.010	4	0.9	6	0.55	50	2	6.29	6.49	6.69	6.89	7.30	MEXLN20060106	●
0.7	0/-0.020	0.10	+/-0.010	4	1.0	4	0.65	50	2	4.22	4.36	4.49	4.63	4.89	MEXLN20070104	●
0.7	0/-0.020	0.10	+/-0.010	4	1.0	6	0.65	50	2	6.29	6.49	6.69	6.89	7.30	MEXLN20070106	●
0.8	0/-0.020	0.05	+/-0.010	4	1.2	4	0.75	50	2	4.22	4.36	4.50	4.63	4.90	MEXLN20080004	●
0.8	0/-0.020	0.05	+/-0.010	4	1.2	6	0.75	50	2	6.29	6.49	6.70	6.90	7.31	MEXLN20080006	●
0.8	0/-0.020	0.05	+/-0.010	4	1.2	8	0.75	50	2	8.36	8.63	8.90	9.17	9.71	MEXLN20080008	●
0.8	0/-0.020	0.10	+/-0.010	4	1.2	4	0.75	50	2	4.22	4.36	4.49	4.63	4.89	MEXLN20080104	●
0.8	0/-0.020	0.10	+/-0.010	4	1.2	6	0.75	50	2	6.29	6.49	6.69	6.89	7.30	MEXLN20080106	●
0.8	0/-0.020	0.10	+/-0.010	4	1.2	8	0.75	50	2	8.36	8.63	8.89	9.16	9.70	MEXLN20080108	●
0.9	0/-0.020	0.10	+/-0.010	4	1.4	8	0.85	50	2	8.36	8.63	8.89	9.16	9.70	MEXLN20090108	●
0.9	0/-0.020	0.10	+/-0.010	4	1.4	15	0.85	50	2	15.59	16.10	16.60	17.11	18.12	MEXLN20090115	●
1	0/-0.020	0.10	+/-0.010	4	1.5	4	0.95	50	2	4.32	4.46	4.59	4.73	5.01	MEXLN20100104	●
1	0/-0.020	0.10	+/-0.010	4	1.5	6	0.95	50	2	6.39	6.59	6.80	7.00	7.41	MEXLN20100106	●
1	0/-0.020	0.10	+/-0.010	4	1.5	8	0.95	50	2	8.45	8.73	9.00	9.27	9.81	MEXLN20100108	●
1	0/-0.020	0.10	+/-0.010	4	1.5	10	0.95	50	2	10.52	10.86	11.20	11.54	12.22	MEXLN20100110	●

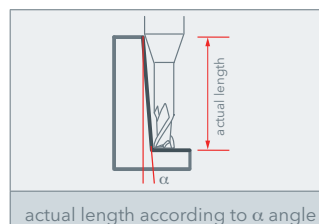
MEXLN2R

cylindrical shank, 2 flutes, extended and reduced neck, corner radius



P	M	K	N	S	H
★		★			★

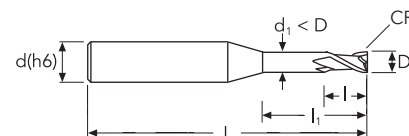
★ 1st choice ☆ suitable



D	D Tol.	CR	CR Tol.	d(h6)	l	l1	d1	L	z	30°	1°	1°30'	2°	3°	EDP No.	Stock
1	0/-0.020	0.10	+/-0.010	4	1.5	12	0.95	50	2	12.59	12.99	13.40	13.81	14.62	MEXLN20100112	●
1	0/-0.020	0.10	+/-0.010	4	1.5	16	0.95	50	2	16.72	17.26	17.80	18.35	19.43	MEXLN20100116	●
1	0/-0.020	0.10	+/-0.010	4	1.5	20	0.95	50	2	20.86	21.53	22.21	22.88	24.24	MEXLN20100120	●
1	0/-0.020	0.20	+/-0.010	4	1.5	4	0.95	50	2	4.32	4.45	4.58	4.72	4.99	MEXLN20100204	●
1	0/-0.020	0.20	+/-0.010	4	1.5	6	0.95	50	2	6.38	6.58	6.79	6.99	7.39	MEXLN20100206	●
1	0/-0.020	0.20	+/-0.010	4	1.5	8	0.95	50	2	8.45	8.72	8.99	9.26	9.79	MEXLN20100208	●
1	0/-0.020	0.20	+/-0.010	4	1.5	10	0.95	50	2	10.52	10.85	11.19	11.52	12.20	MEXLN20100210	●
1	0/-0.020	0.20	+/-0.010	4	1.5	12	0.95	50	2	12.58	12.99	13.39	13.79	14.60	MEXLN20100212	●
1	0/-0.020	0.20	+/-0.010	4	1.5	16	0.95	50	2	16.72	17.26	17.79	18.33	19.41	MEXLN20100216	●
1	0/-0.020	0.20	+/-0.010	4	1.5	20	0.95	50	2	20.85	21.53	22.20	22.87	24.22	MEXLN20100220	●
1	0/-0.020	0.30	+/-0.010	4	1.5	6	0.95	50	2	6.38	6.58	6.78	6.97	7.37	MEXLN20100306	●
1	0/-0.020	0.30	+/-0.010	4	1.5	10	0.95	50	2	10.51	10.85	11.18	11.51	12.18	MEXLN20100310	●
1	0/-0.020	0.30	+/-0.010	4	1.5	16	0.95	50	2	16.72	17.25	17.78	18.32	19.39	MEXLN20100316	●
1	0/-0.020	0.30	+/-0.010	4	1.5	20	0.95	50	2	20.85	21.52	22.19	22.86	24.20	MEXLN20100320	●
1.2	0/-0.020	0.10	+/-0.010	4	1.8	6	1.15	50	2	6.39	6.59	6.80	7.00	7.41	MEXLN20120106	●
1.2	0/-0.020	0.10	+/-0.010	4	1.8	8	1.15	50	2	8.45	8.73	9.00	9.27	9.81	MEXLN20120108	●
1.2	0/-0.020	0.10	+/-0.010	4	1.8	10	1.15	50	2	10.52	10.86	11.20	11.54	12.22	MEXLN20120110	●
1.2	0/-0.020	0.10	+/-0.010	4	1.8	12	1.15	50	2	12.59	12.99	13.40	13.81	14.62	MEXLN20120112	●
1.4	0/-0.020	0.10	+/-0.010	4	2.1	6	1.35	50	2	6.39	6.59	6.80	7.00	7.41	MEXLN20140106	●
1.4	0/-0.020	0.10	+/-0.010	4	2.1	8	1.35	50	2	8.45	8.73	9.00	9.27	9.81	MEXLN20140108	●
1.4	0/-0.020	0.10	+/-0.010	4	2.1	10	1.35	50	2	10.52	10.86	11.20	11.54	12.22	MEXLN20140110	●
1.4	0/-0.020	0.10	+/-0.010	4	2.1	12	1.35	50	2	12.59	12.99	13.40	13.81	14.62	MEXLN20140112	●
1.4	0/-0.020	0.10	+/-0.010	4	2.1	16	1.35	50	2	16.72	17.26	17.80	18.35	19.43	MEXLN20140116	●
1.5	0/-0.020	0.10	+/-0.010	4	2.3	4	1.45	50	2	4.32	4.46	4.59	4.73	5.01	MEXLN20150104	●
1.5	0/-0.020	0.10	+/-0.010	4	2.3	8	1.45	50	2	8.45	8.73	9.00	9.27	9.81	MEXLN20150108	●
1.5	0/-0.020	0.10	+/-0.010	4	2.3	12	1.45	50	2	12.59	12.99	13.40	13.81	14.62	MEXLN20150112	●
1.5	0/-0.020	0.10	+/-0.010	4	2.3	16	1.45	50	2	16.72	17.26	17.80	18.35	19.43	MEXLN20150116	●
1.5	0/-0.020	0.10	+/-0.010	4	2.3	20	1.45	60	2	20.86	21.53	22.21	22.88	24.24	MEXLN20150120	●
1.5	0/-0.020	0.20	+/-0.010	4	2.3	8	1.45	50	2	8.45	8.72	8.99	9.26	9.79	MEXLN20150208	●
1.5	0/-0.020	0.20	+/-0.010	4	2.3	10	1.45	50	2	10.52	10.85	11.19	11.52	12.20	MEXLN20150210	●
1.5	0/-0.020	0.20	+/-0.010	4	2.3	12	1.45	50	2	12.58	12.99	13.39	13.79	14.60	MEXLN20150212	●
1.5	0/-0.020	0.20	+/-0.010	4	2.3	16	1.45	50	2	16.72	17.26	17.79	18.33	19.41	MEXLN20150216	●
1.5	0/-0.020	0.20	+/-0.010	4	2.3	20	1.45	60	2	20.85	21.53	22.20	22.87	24.22	MEXLN20150220	●
1.5	0/-0.020	0.30	+/-0.010	4	2.3	8	1.45	50	2	8.45	8.71	8.98	9.24	9.77	MEXLN20150308	●
1.5	0/-0.020	0.30	+/-0.010	4	2.3	16	1.45	50	2	16.72	17.25	17.78	18.32	19.39	MEXLN20150316	●
1.5	0/-0.020	0.30	+/-0.010	4	2.3	20	1.45	60	2	20.85	21.52	22.19	22.86	24.20	MEXLN20150320	●
1.6	0/-0.020	0.10	+/-0.010	4	2.4	8	1.55	50	2	8.45	8.73	9.00	9.27	9.81	MEXLN20160108	●
1.6	0/-0.020	0.10	+/-0.010	4	2.4	12	1.55	50	2	12.59	12.99	13.40	13.81	14.62	MEXLN20160112	●
1.6	0/-0.020	0.10	+/-0.010	4	2.4	16	1.55	50	2	16.72	17.26	17.80	18.35	19.43	MEXLN20160116	●

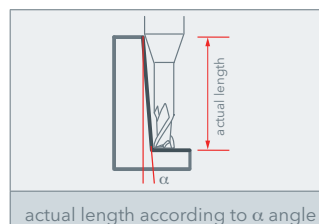
MEXLN2R

cylindrical shank, 2 flutes, extended and reduced neck, corner radius



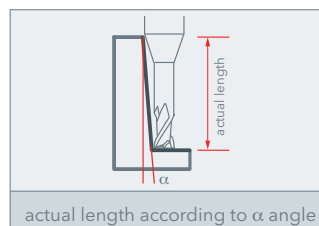
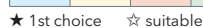
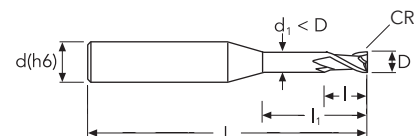
P	M	K	N	S	H
★		★			★

★ 1st choice ☆ suitable



D	D Tol.	CR	CR Tol.	d(h6)	l	l1	d1	L	z	30°	1°	1°30'	2°	3°	EDP No.	Stock
1.8	0/-0.020	0.20	+/-0.010	4	2.7	8	1.75	50	2	8.45	8.72	8.99	9.26	9.79	MEXLN20180208	●
1.8	0/-0.020	0.20	+/-0.010	4	2.7	12	1.75	50	2	12.58	12.99	13.39	13.79	14.60	MEXLN20180212	●
1.8	0/-0.020	0.20	+/-0.010	4	2.7	16	1.75	50	2	16.72	17.26	17.79	18.33	19.41	MEXLN20180216	●
2	0/-0.020	0.20	+/-0.010	4	3	6	1.95	50	2	6.38	6.58	6.79	6.99	7.39	MEXLN20200206	●
2	0/-0.020	0.20	+/-0.010	4	3	8	1.95	50	2	8.45	8.72	8.99	9.26	9.79	MEXLN20200208	●
2	0/-0.020	0.20	+/-0.010	4	3	10	1.95	50	2	10.52	10.85	11.19	11.52	12.20	MEXLN20200210	●
2	0/-0.020	0.20	+/-0.010	4	3	12	1.95	50	2	12.58	12.99	13.39	13.79	14.60	MEXLN20200212	●
2	0/-0.020	0.20	+/-0.010	4	3	14	1.95	50	2	14.65	15.12	15.59	16.06	17.01	MEXLN20200214	●
2	0/-0.020	0.20	+/-0.010	4	3	16	1.95	50	2	16.72	17.26	17.79	18.33	19.41	MEXLN20200216	●
2	0/-0.020	0.20	+/-0.010	4	3	20	1.95	60	2	20.85	21.53	22.20	22.87	-	MEXLN20200220	●
2	0/-0.020	0.20	+/-0.010	4	3	25	1.95	75	2	26.02	26.86	27.70	28.54	-	MEXLN20200225	●
2	0/-0.020	0.20	+/-0.010	4	3	30	1.95	75	2	31.19	32.20	33.21	-	-	MEXLN20200230	●
2	0/-0.020	0.50	+/-0.010	4	3	6	1.95	50	2	6.37	6.56	6.75	6.95	7.33	MEXLN20200506	●
2	0/-0.020	0.50	+/-0.010	4	3	8	1.95	50	2	8.44	8.70	8.96	9.22	9.73	MEXLN20200508	●
2	0/-0.020	0.50	+/-0.010	4	3	12	1.95	50	2	12.57	12.97	13.36	13.75	14.54	MEXLN20200512	●
2	0/-0.020	0.50	+/-0.010	4	3	16	1.95	50	2	16.71	17.24	17.76	18.29	19.35	MEXLN20200516	●
2	0/-0.020	0.50	+/-0.010	4	3	20	1.95	60	2	20.84	21.51	22.17	22.83	-	MEXLN20200520	●
2	0/-0.020	0.50	+/-0.010	4	3	25	1.95	75	2	26.01	26.84	27.67	28.50	-	MEXLN20200525	●
2	0/-0.020	0.50	+/-0.010	4	3	30	1.95	75	2	31.18	32.18	33.18	-	-	MEXLN20200530	●
2.5	0/-0.020	0.30	+/-0.010	4	3.7	8	2.40	50	2	8.45	8.71	8.98	9.24	9.77	MEXLN20250308	●
2.5	0/-0.020	0.30	+/-0.010	4	3.7	12	2.40	50	2	12.58	12.98	13.38	13.78	14.58	MEXLN20250312	●
2.5	0/-0.020	0.30	+/-0.010	4	3.7	16	2.40	50	2	16.72	17.25	17.78	18.32	-	MEXLN20250316	●
2.5	0/-0.020	0.30	+/-0.010	4	3.7	20	2.40	60	2	20.85	21.52	22.19	-	-	MEXLN20250320	●
2.5	0/-0.020	0.30	+/-0.010	4	3.7	25	2.40	60	2	26.02	26.86	27.69	-	-	MEXLN20250325	●
2.5	0/-0.020	0.30	+/-0.010	4	3.7	30	2.40	75	2	31.19	32.19	-	-	-	MEXLN20250330	●
2.5	0/-0.020	0.50	+/-0.010	4	3.7	8	2.40	50	2	8.44	8.70	8.96	9.22	9.73	MEXLN20250508	●
2.5	0/-0.020	0.50	+/-0.010	4	3.7	12	2.40	50	2	12.57	12.97	13.36	13.75	14.54	MEXLN20250512	●
2.5	0/-0.020	0.50	+/-0.010	4	3.7	16	2.40	50	2	16.71	17.24	17.76	18.29	-	MEXLN20250516	●
2.5	0/-0.020	0.50	+/-0.010	4	3.7	20	2.40	60	2	20.84	21.51	22.17	-	-	MEXLN20250520	●
2.5	0/-0.020	0.50	+/-0.010	4	3.7	25	2.40	60	2	26.01	26.84	27.67	-	-	MEXLN20250525	●
2.5	0/-0.020	0.50	+/-0.010	4	3.7	30	2.40	75	2	31.18	32.18	-	-	-	MEXLN20250530	●
3	0/-0.025	0.20	+/-0.010	6	4.5	10	2.85	50	2	10.71	11.05	11.39	11.74	12.42	MEXLN20300210	●
3	0/-0.025	0.20	+/-0.010	6	4.5	12	2.85	50	2	12.78	13.19	13.60	14.00	14.82	MEXLN20300212	●
3	0/-0.025	0.20	+/-0.010	6	4.5	16	2.85	60	2	16.91	17.46	18.00	18.54	19.63	MEXLN20300216	●
3	0/-0.025	0.20	+/-0.010	6	4.5	20	2.85	60	2	21.05	21.72	22.40	23.08	24.44	MEXLN20300220	●
3	0/-0.025	0.20	+/-0.010	6	4.5	25	2.85	75	2	26.21	27.06	27.91	28.75	30.45	MEXLN20300225	●
3	0/-0.025	0.30	+/-0.010	6	4.5	10	2.85	50	2	10.71	11.04	11.38	11.72	12.40	MEXLN20300310	●
3	0/-0.025	0.30	+/-0.010	6	4.5	12	2.85	50	2	12.77	13.18	13.59	13.99	14.80	MEXLN20300312	●
3	0/-0.025	0.30	+/-0.010	6	4.5	16	2.85	60	2	16.91	17.45	17.99	18.53	19.61	MEXLN20300316	●

cylindrical shank, 2 flutes, extended and reduced
neck, corner radius

[illegible]

CUTTING PARAMETERS

MEXLN2R

SQUARE RIB

Material Group ISO 513			P2	P3	P4	K1	K2	P4			P5	K3	P6			K4	H1	H4	H5			
Hardness/Rm			< 1000 N/mm²					< 35 HRC					35 - 45 HRC					45 - 55 HRC				
ap x ae			ap x D					ap x D					ap x D					ap x D				
Vc (m/min)			70-110					50-90					30-70					20-40				
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)	n (rpm)	fz (mm/z)	Vf (mm/min)					
0.3	≤ 6D	0.02	40000	0.004	320	40000	0.004	290	40000	0.003	255	31800	0.003	180								
	≤ 8D	0.01	40000	0.004	290	40000	0.003	260	40000	0.003	230	28700	0.003	145								
	≤ 10D	0.01	40000	0.003	260	40000	0.003	230	40000	0.003	205	25500	0.002	115								
	≤ 12D	0.01	40000	0.003	220	40000	0.003	200	37200	0.002	165	22300	0.002	85								
0.4	≤ 6D	0.02	40000	0.006	480	40000	0.005	430	39800	0.005	380	23900	0.004	200								
	≤ 8D	0.02	40000	0.005	430	40000	0.005	390	35800	0.004	310	21500	0.004	165								
	≤ 10D	0.01	40000	0.005	380	40000	0.004	350	31800	0.004	245	19100	0.003	130								
	≤ 12D	0.01	40000	0.004	340	39000	0.004	290	27900	0.003	185	16700	0.003	100								
0.5	≤ 6D	0.03	40000	0.007	560	40000	0.006	500	31800	0.006	355	19100	0.005	185								
	≤ 8D	0.02	40000	0.006	500	40000	0.006	450	28700	0.005	290	17200	0.004	150								
	≤ 10D	0.02	40000	0.006	450	35700	0.005	360	25500	0.004	230	15300	0.004	120								
	≤ 12D	0.01	40000	0.005	390	31200	0.004	280	22300	0.004	175	13400	0.003	90								
0.6	≤ 6D	0.03	40000	0.008	640	37200	0.007	540	26500	0.006	340	15900	0.006	180								
	≤ 8D	0.03	40000	0.007	580	33400	0.006	430	23900	0.006	275	14300	0.005	145								
	≤ 10D	0.02	38200	0.006	490	29700	0.006	340	21200	0.005	215	12700	0.004	115								
	≤ 12D	0.02	33400	0.006	370	26000	0.005	260	18600	0.004	165	11100	0.004	85								
0.8	≤ 6D	0.04	35800	0.010	720	27900	0.009	500	19900	0.008	320	11900	0.007	165								
	≤ 8D	0.03	32200	0.009	580	25100	0.008	410	17900	0.007	260	10700	0.006	135								
	≤ 10D	0.03	28700	0.008	460	22300	0.007	320	15900	0.006	205	9600	0.006	110								
	≤ 12D	0.02	25100	0.007	350	19500	0.006	250	13900	0.006	155	8400	0.005	80								
1	≤ 6D	0.05	28700	0.012	690	22300	0.011	480	15900	0.010	305	9600	0.008	160								
	≤ 8D	0.04	25800	0.011	560	20100	0.010	390	14300	0.009	245	8600	0.008	130								
	≤ 10D	0.04	22900	0.010	440	17800	0.009	310	12700	0.008	195	7600	0.007	100								
	≤ 12D	0.03	20100	0.008	340	15600	0.008	240	11100	0.007	150	6700	0.006	80								
1.2	≤ 6D	0.06	23900	0.022	1050	18600	0.020	740	13300	0.018	470	8000	0.015	245								
	≤ 8D	0.05	21500	0.020	850	16700	0.018	600	11900	0.016	375	7200	0.014	200								
	≤ 10D	0.04	19100	0.018	670	14900	0.016	470	10600	0.014	300	6400	0.012	160								
	≤ 12D	0.03	16700	0.015	510	13000	0.014	360	9300	0.012	230	5600	0.011	120								
1.4	≤ 6D	0.07	20500	0.024	980	15900	0.022	690	11400	0.019	440	6800	0.017	230								
	≤ 8D	0.06	18400	0.022	790	14300	0.019	560	10200	0.017	355	6100	0.015	185								
	≤ 10D	0.05	16400	0.019	630	12700	0.017	440	9100	0.015	280	5500	0.013	150								
	≤ 12D	0.04	14300	0.017	480	11100	0.015	340	8000	0.013	215	4800	0.012	115								
	≤ 15D	0.03	12300	0.014	350	9600	0.013	250	6800	0.012	155	4100	0.010	85								
	> 15D	0.02	10200	0.012	240	8000	0.011	170	5700	0.010	110	3400	0.008	55								
1.5	≤ 6D	0.08	19100	0.025	960	14900	0.023	670	10600	0.020	425	6400	0.018	225								
	≤ 8D	0.06	17200	0.023	770	13400	0.020	540	9600	0.018	345	5700	0.016	180								
	≤ 10D	0.05	15300	0.020	610	11900	0.018	430	8500	0.016	270	5100	0.014	145								
	≤ 12D	0.04	13400	0.018	470	10400	0.016	330	7400	0.014	205	4500	0.012	110								
	≤ 15D	0.03	11500	0.015	350	8900	0.014	240	6400	0.012	155	3800	0.011	80								
	> 15D	0.02	9600	0.013	240	7400	0.011	170	5300	0.010	105	3200	0.009	55								
1.6	≤ 6D	0.08	17900	0.026	930	13900	0.023	650	10000	0.021	415	6000	0.018	220								
	≤ 8D	0.07	16100	0.023	750	12500	0.021	530	9000	0.019	335	5400	0.016	175								
	≤ 10D	0.06	14300	0.021	590	11100	0.019	420	8000	0.017	265	4800	0.015	140								
	≤ 12D	0.04	12500	0.018	450	9800	0.016	320	7000	0.015	205	4200	0.013	105								
	≤ 15D	0.04	10700	0.016	330	8400	0.014	240	6000	0.012	150	3600	0.011	80								
	> 15D	0.02	9000	0.013	230	7000	0.012	160	5000	0.010	105	3000	0.009	55								



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

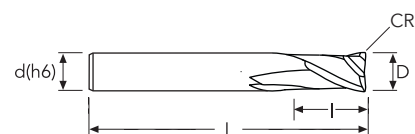
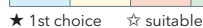


CUTTING PARAMETERS

MEXLN2R

	Material Group ISO 513			P2 P3 P4 K1 K2			P4 P5 K3			P6 K4			H1 H4 H5		
	Hardness/Rm			< 1000 N/mm ²			< 35 HRC			35 - 45 HRC			45 - 55 HRC		
	ap x ae			ap x D			ap x D			ap x D			ap x D		
	Vc (m/min)			70-110			50-90			30-70			20-40		
	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	15900	0.028	890	12400	0.025	620	8800	0.022	395	5300	0.020	210
		≤ 8D	0.08	14300	0.025	720	11100	0.023	500	8000	0.020	325	4800	0.018	170
		≤ 10D	0.06	12700	0.022	570	9900	0.020	400	7100	0.018	255	4200	0.016	130
		≤ 12D	0.05	11100	0.020	440	8700	0.018	310	6200	0.016	195	3700	0.014	100
		≤ 15D	0.04	9600	0.017	320	7400	0.015	220	5300	0.013	140	3200	0.012	75
		> 15D	0.03	8000	0.014	220	6200	0.013	160	4400	0.011	100	2700	0.010	55
	2	≤ 6D	0.10	14300	0.030	860	11100	0.027	600	8000	0.024	385	4800	0.021	200
		≤ 8D	0.09	12900	0.027	700	10000	0.024	490	7200	0.022	310	4300	0.019	165
		≤ 10D	0.07	11500	0.024	550	8900	0.022	380	6400	0.019	245	3800	0.017	130
		≤ 12D	0.06	10000	0.021	420	7800	0.019	290	5600	0.017	190	3300	0.015	95
		≤ 15D	0.05	8600	0.018	310	6700	0.016	220	4800	0.014	140	2900	0.013	75
		> 15D	0.03	8600	0.018	310	6700	0.016	220	4800	0.014	140	2900	0.013	75
	2.5	≤ 6D	0.13	11500	0.035	810	8900	0.032	560	6400	0.028	360	3800	0.025	185
		≤ 8D	0.11	10300	0.032	650	8000	0.028	450	5700	0.025	285	3400	0.022	150
		≤ 10D	0.09	9200	0.028	520	7100	0.025	360	5100	0.022	230	3100	0.020	120
		≤ 12D	0.07	8000	0.025	390	6200	0.022	270	4500	0.020	175	2700	0.017	95
		≤ 15D	0.06	6900	0.021	290	5400	0.019	200	3800	0.017	130	2300	0.015	70
		> 15D	0.04	6900	0.021	290	5400	0.019	200	3800	0.017	130	2300	0.015	70
	3	≤ 6D	0.15	9600	0.040	770	7400	0.036	530	5300	0.032	340	3200	0.028	180
		≤ 8D	0.13	8600	0.036	620	6700	0.032	430	4800	0.029	275	2900	0.025	145
		≤ 10D	0.11	7600	0.032	490	5900	0.029	340	4200	0.026	215	2500	0.022	110
		≤ 12D	0.08	6700	0.028	380	5200	0.025	260	3700	0.022	165	2200	0.020	85
		≤ 15D	0.07	5700	0.024	270	4500	0.022	190	3200	0.019	125	1900	0.017	65
		> 15D	0.05	5700	0.024	270	4500	0.022	190	3200	0.019	125	1900	0.017	65
	4	≤ 6D	0.20	7200	0.050	720	5600	0.045	500	4000	0.040	320	2400	0.035	170
		≤ 8D	0.17	6400	0.045	580	5000	0.041	410	3600	0.036	260	2100	0.032	130
		≤ 10D	0.14	5700	0.040	460	4500	0.036	320	3200	0.032	205	1900	0.028	105
		≤ 12D	0.11	5000	0.035	350	3900	0.032	250	2800	0.028	155	1700	0.025	85
		≤ 15D	0.09	4300	0.030	260	3300	0.027	180	2400	0.024	115	1400	0.021	60
		> 15D	0.06	4300	0.030	260	3300	0.027	180	2400	0.024	115	1400	0.021	60

cylindrical shank, 2 flutes, long, corner radius



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

MEXLS2R

SLOTING

	Material Group ISO 513	P2P3P4K1K2					P4P5K3			P6K4			H1H4H5		
	Hardness/Rm	< 1000 N/mm ²					< 35 HRC			35 - 45 HRC			45 - 55 HRC		
	ap x ae	0.3D x D					0.3D x D			0.2D x D			0.05D x D		
	Vc (m/min)	70-110					50-90			30-70			20-40		
	D (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)		
	2	14300	0.009	260	11440	0.008	190	8580	0.007	125	5150	0.006	65		
	3	9600	0.012	230	7680	0.011	170	5760	0.010	110	3460	0.008	60		
	4	7200	0.018	260	5760	0.016	190	4320	0.014	125	2590	0.013	65		
	5	5700	0.024	270	4560	0.022	200	3420	0.019	130	2050	0.017	70		
	6	4800	0.029	280	3840	0.026	200	2880	0.023	135	1730	0.020	70		
	8	3600	0.035	250	2880	0.032	180	2160	0.028	120	1300	0.025	65		
	10	2900	0.041	240	2320	0.037	170	1740	0.033	115	1040	0.029	60		
	12	2400	0.050	240	1920	0.045	170	1440	0.040	115	860	0.035	60		
	16	1800	0.065	230	1400	0.059	160	1000	0.052	105	600	0.046	55		

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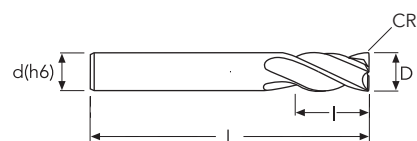
MEXCS4R

cylindrical shank, 4 flutes, corner radius



P	M	K	N	S	H
★		★			★

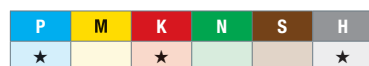
★ 1st choice ☆ suitable



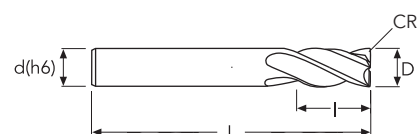
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1	0/-0.020	0.20	+/-0.010	4	3		50	4	MEXCS4R01002	●
1.5	0/-0.020	0.20	+/-0.010	4	4.5		50	4	MEXCS4R01502	●
2	0/-0.020	0.20	+/-0.010	4	6.5		50	4	MEXCS4R02002	●
2	0/-0.020	0.30	+/-0.010	4	6.5		50	4	MEXCS4R02003	●
2.5	0/-0.020	0.20	+/-0.010	4	6.5		50	4	MEXCS4R02502	●
2.5	0/-0.020	0.50	+/-0.010	4	6.5		50	4	MEXCS4R02505	●
3	0/-0.025	0.20	+/-0.010	4	9		50	4	MEXCS4R03002	●
3	0/-0.025	0.30	+/-0.010	4	9		50	4	MEXCS4R03003	●
3	0/-0.025	0.50	+/-0.010	4	9		50	4	MEXCS4R03005	●
4	0/-0.025	0.30	+/-0.010	4	12		50	4	MEXCS4R04003	●
4	0/-0.025	0.50	+/-0.010	4	12		50	4	MEXCS4R04005	●
4	0/-0.025	1.00	+/-0.010	4	12		50	4	MEXCS4R04010	●
5	0/-0.025	0.30	+/-0.010	5	15		50	4	MEXCS4R05003	●
5	0/-0.025	0.50	+/-0.010	5	15		50	4	MEXCS4R05005	●
5	0/-0.025	1.00	+/-0.010	5	15		50	4	MEXCS4R05010	●
6	0/-0.025	0.30	+/-0.010	6	16		50	4	MEXCS4R06003	●
6	0/-0.025	0.50	+/-0.010	6	16		50	4	MEXCS4R06005	●
6	0/-0.025	1.00	+/-0.010	6	16		50	4	MEXCS4R06010	●
8	0/-0.030	0.30	+/-0.010	8	20		64	4	MEXCS4R08003	●
8	0/-0.030	0.50	+/-0.010	8	20		64	4	MEXCS4R08005	●
8	0/-0.030	1.00	+/-0.010	8	20		64	4	MEXCS4R08010	●
8	0/-0.030	1.50	+/-0.010	8	20		64	4	MEXCS4R08015	●
8	0/-0.030	2.00	+/-0.010	8	20		64	4	MEXCS4R08020	●
10	0/-0.030	0.30	+/-0.010	10	22		75	4	MEXCS4R10003	●
10	0/-0.030	0.50	+/-0.010	10	22		75	4	MEXCS4R10005	●
10	0/-0.030	1.00	+/-0.010	10	22		75	4	MEXCS4R10010	●
10	0/-0.030	1.50	+/-0.010	10	22		75	4	MEXCS4R10015	●
10	0/-0.030	2.00	+/-0.010	10	22		75	4	MEXCS4R10020	●
12	0/-0.030	0.30	+/-0.010	12	25		75	4	MEXCS4R12003	●
12	0/-0.030	0.50	+/-0.010	12	25		75	4	MEXCS4R12005	●
12	0/-0.030	1.00	+/-0.010	12	25		75	4	MEXCS4R12010	●
12	0/-0.030	1.50	+/-0.010	12	25		75	4	MEXCS4R12015	●
12	0/-0.030	2.00	+/-0.010	12	25		75	4	MEXCS4R12020	●
12	0/-0.030	3.00	+/-0.010	12	25		75	4	MEXCS4R12030	●
14	0/-0.030	0.50	+/-0.010	14	32		90	4	MEXCS4R14005	○
14	0/-0.030	1.00	+/-0.010	14	32		90	4	MEXCS4R14010	●
14	0/-0.030	2.00	+/-0.010	14	32		90	4	MEXCS4R14020	○
16	0/-0.030	0.50	+/-0.010	16	32		90	4	MEXCS4R16005	●
16	0/-0.030	1.00	+/-0.010	16	32		90	4	MEXCS4R16010	●

● stock standard ○ non-stock standard ▽ stock exhaustion

cylindrical shank, 4 flutes, corner radius



★ 1st choice ☆ suitable

[illegible]

CUTTING PARAMETERS

MEXCS4R

SIDE MILLING

	Material Group ISO 513	P2P3P4K1K2	P4P5K3	P6K4	H1H4H5								
	Hardness/Rm	< 1000 N/mm ²			< 35 HRC			35 - 45 HRC			45 - 55 HRC		
	ap x ae	D x 0.1D			D x 0.1D			D x 0.05D			D x 0.05D		
	Vc (m/min)	80-120			50-90			40-60			20-40		
	D (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	31850	0.009	1080	22290	0.008	680	15920	0.007	435	9550	0.006	225
	2	15920	0.017	1080	11150	0.015	680	7960	0.014	435	4780	0.012	230
	3	10620	0.026	1080	7430	0.023	680	5310	0.020	435	3180	0.018	225
	4	7960	0.034	1080	5570	0.031	680	3980	0.027	435	2390	0.024	230
	5	6370	0.038	970	4460	0.034	610	3180	0.031	390	1910	0.027	205
	6	5310	0.043	900	3720	0.038	570	2650	0.034	360	1590	0.030	190
	8	3980	0.055	880	2790	0.050	550	1990	0.044	350	1190	0.039	185
	10	3180	0.071	900	2230	0.064	570	1590	0.057	360	960	0.050	190
	12	2650	0.085	900	1860	0.077	570	1330	0.068	360	800	0.060	190
	14	2270	0.098	890	1590	0.088	560	1140	0.078	355	680	0.068	185
	16	1990	0.110	880	1390	0.099	550	1000	0.088	350	600	0.077	185
	18	1770	0.125	890	1240	0.113	560	880	0.100	350	530	0.088	185
	20	1590	0.140	890	1110	0.126	560	800	0.112	360	480	0.098	190

INFO

TYPHOON
TA-HTA-4HTATYPHOON
PU-HPUTYPHOON
SUHTYPHOON
ALHTYPHOON
HRCTYPHOON
SUH MINITYPHOON
HL

C-SD-TA

LFTA

SUTA

HSS-HSS/CO
DRILLS

G2

MDTA

HF VH/UP

MEF

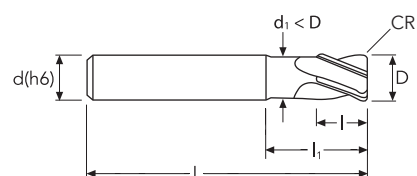
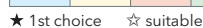
ALU

MEX

UH

HSS/CO-HSSP
END MILLSCARBIDE
BURRS

cylindrical shank, 4 flutes, short, corner radius



● stock standard ○ non-stock standard ▽ stock exhaustion

CUTTING PARAMETERS

MEX410R

 SIDE MILLING	Material Group ISO 513	P2 P3 P4 K1 K2	P4 P5 K3	P6 K4	H1 H4 H5								
	Hardness/Rm	< 1000 N/mm ²			< 35 HRC			35 - 45 HRC			45 - 55 HRC		
	ap x ae	D x 0.1D			D x 0.1D			D x 0.05D			D x 0.05D		
	Vc (m/min)	80-120			50-90			40-60			20-40		
	D (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)
	2	15920	0.015	970	11150	0.014	610	7960	0.012	390	4780	0.011	205
	3	10620	0.023	970	7430	0.021	610	5310	0.018	390	3180	0.016	205
	4	7960	0.031	970	5570	0.028	610	3980	0.024	390	2390	0.021	205
	5	6370	0.034	880	4460	0.031	550	3180	0.028	350	1910	0.024	185
	6	5310	0.038	810	3720	0.034	510	2650	0.031	325	1590	0.027	170
8	3980	0.050	790	2790	0.045	500	1990	0.040	315	1190	0.035	165	
10	3180	0.065	830	2230	0.059	520	1590	0.052	330	960	0.046	175	
12	2650	0.077	810	1860	0.069	510	1330	0.061	325	800	0.054	170	

INFO

TYPHOON
TA-HTA-4HTATYPHOON
PU-HPUTYPHOON
SUHTYPHOON
ALHTYPHOON
HRCTYPHOON
SUH MINITYPHOON
HL

C-SD-TA

LFTA

SUTA

HSS-HSS/CO
DRILLS

G2

MDTA

HF VH/UP

MEF

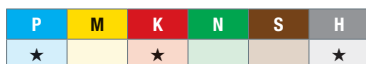
ALU

MEX

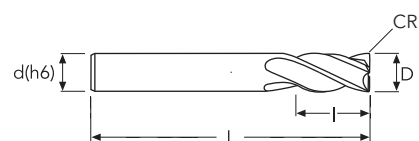
UH

HSS/CO-HSSP
END MILLSCARBIDE
BURRS

cylindrical shank, 4 flutes, long, corner radius



★ 1st choice ☆ suitable



● stock standard ○ non-stock standard ▽ stock exhaustion

CUTTING PARAMETERS

MEXLS4R

	Material Group ISO 513	P2 P3 P4 K1 K2			P4 P5 K3			P6 K4			H1 H4 H5		
	Hardness/Rm	< 1000 N/mm ²			< 35 HRC			35 - 45 HRC			45 - 55 HRC		
	ap x ae	D x 0.05D			D x 0.05D			D x 0.05D			D x 0.05D		
	Vc (m/min)	70-110			50-90			40-60			20-40		
	D (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)
	2	14330	0.014	830	11150	0.013	580	7960	0.012	370	4780	0.010	195
	3	9550	0.022	830	7430	0.020	580	5310	0.017	370	3180	0.015	195
	4	7170	0.029	830	5570	0.026	580	3980	0.023	370	2390	0.020	195
	5	5730	0.033	750	4460	0.029	520	3180	0.026	330	1910	0.023	175
	6	4780	0.036	690	3720	0.033	480	2650	0.029	305	1590	0.025	160
	8	3580	0.047	670	2790	0.042	470	1990	0.038	300	1190	0.033	155
	10	2870	0.060	690	2230	0.054	480	1590	0.048	305	960	0.042	160
	12	2390	0.072	690	1860	0.065	480	1330	0.058	305	800	0.051	160
	16	1790	0.094	670	1390	0.084	470	1000	0.075	300	600	0.065	155

INFO

TYPHOON
TA-HTA-4HTATYPHOON
PU-HPUTYPHOON
SUHTYPHOON
ALHTYPHOON
HRCTYPHOON
SUH MINITYPHOON
HL

C-SD-TA

LFTA

SUTA

HSS-HSS/CO
DRILLS

G2

MDTA

HF VH/UP

MEF

ALU

MEX

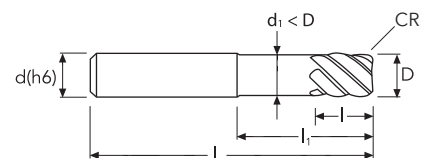
UH

HSS/CO-HSSP
END MILLSCARBIDE
BURRS

cylindrical shank, multi flute, short, corner radius



SIDE MILLING

[illegible]

CUTTING PARAMETERS

MEX610R

	Material Group ISO 513	P2 P3 P4 K1 K2			P4 P5 K3			P6 K4			H1 H4 H5		
	Hardness/Rm	< 1000 N/mm ²			< 35 HRC			35 - 45 HRC			45 - 55 HRC		
	ap x ae	D x 0.1D			D x 0.1D			D x 0.05D			D x 0.05D		
	Vc (m/min)	120-160			90-130			60-100			50-70		
	D (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)
	6	7430	0.018	800	5840	0.016	570	4250	0.014	370	3180	0.013	240
	8	5570	0.028	920	4380	0.025	650	3180	0.022	420	2390	0.019	280
	10	4460	0.034	900	3500	0.030	640	2550	0.027	410	1910	0.024	270
	12	3720	0.041	910	2920	0.037	640	2120	0.033	420	1590	0.029	270

INFO

TYPHOON
TA-HTA-4HTATYPHOON
PU-HPUTYPHOON
SUHTYPHOON
ALHTYPHOON
HRCTYPHOON
SUH MINITYPHOON
HL

C-SD-TA

LFTA

SUTA

HSS-HSS/CO
DRILLS

G2

MDTA

HF VH/UP

MEF

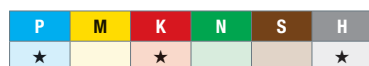
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MEX

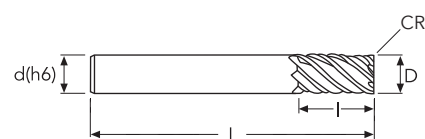
UH

HSS/CO-HSSP
END MILLSCARBIDE
BURRS

cylindrical shank, multi flute, long, corner radius



★ 1st choice ☆ suitable



● stock standard ○ non-stock standard ▽ stock exhaustion

CUTTING PARAMETERS

MEX611R

	Material Group ISO 513	P2 P3 P4 K1 K2			P4 P5 K3			P6 K4			H1 H4 H5		
	Hardness/Rm	< 1000 N/mm ²			< 35 HRC			35 - 45 HRC			45 - 55 HRC		
	ap x ae	1.5D x 0.05D			1.5D x 0.05D			1.5D x 0.05D			1.5D x 0.05D		
	Vc (m/min)	100-140			80-120			40-80			20-60		
	D (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)
	6	6370	0.015	580	5310	0.014	440	3180	0.012	230	2120	0.011	140
	8	4780	0.023	670	3980	0.021	500	2390	0.019	270	1590	0.016	160
	10	3820	0.029	650	3180	0.026	490	1910	0.023	260	1270	0.020	150
	12	3180	0.035	660	2650	0.031	500	1590	0.028	260	1060	0.024	150

INFO

TYPHOON
TA-HTA-4HTATYPHOON
PU-HPUTYPHOON
SUHTYPHOON
ALHTYPHOON
HRCTYPHOON
SUH MINITYPHOON
HL

C-SD-TA

LFTA

SUTA

HSS-HSS/CO
DRILLS

G2

MDTA

HF VH/UP

MEF

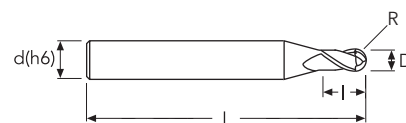
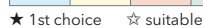
ALU

MEX

UH

HSS/CO-HSSP
END MILLSCARBIDE
BURRS

cylindrical shank, 2 flutes ball nose, miniature

[illegible]

CUTTING PARAMETERS

MEXMB2

	Material Group ISO 513		P2 P3 P4 K1 K2			P4 P5 K3			P6 K4			H1 H4 H5		
	Hardness/Rm		< 1000 N/mm ²			< 35 HRC			35 - 45 HRC			45 - 55 HRC		
	ap x ae		0.05D x 0.2D			0.05D x 0.1D			0.05D x 0.1D			0.05D x 0.1D		
	Vc (m/min)		110-130			90-110			50-70			45-55		
	D (mm)	D (eff.) (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	0.09	40000	0.006	480	40000	0.005	430	40000	0.005	360	40000	0.004	310
	0.3	0.13	40000	0.007	580	40000	0.006	520	40000	0.006	460	40000	0.005	405
	0.4	0.17	40000	0.009	720	40000	0.008	650	40000	0.007	575	40000	0.006	505
	0.5	0.22	40000	0.011	860	40000	0.010	780	38220	0.009	660	31850	0.008	480
	0.6	0.26	40000	0.014	1080	40000	0.012	970	31850	0.011	690	26540	0.009	500
	0.7	0.31	40000	0.016	1300	40000	0.015	1170	27300	0.013	710	22750	0.011	515
	0.8	0.35	40000	0.018	1440	40000	0.016	1300	23890	0.014	690	19900	0.013	500
	0.9	0.39	40000	0.021	1660	35390	0.019	1320	21230	0.017	705	17690	0.014	515
	1	0.44	38220	0.023	1790	40000	0.021	1680	19110	0.019	715	15920	0.016	520
	1.5	0.65	25480	0.036	1830	21230	0.032	1380	12740	0.029	735	10620	0.025	535
	2	0.87	19110	0.050	1890	15920	0.045	1420	9550	0.040	755	7960	0.035	550

	α	n (rpm)	Vf (mm/min)
	15°	x 1.1	x 1.1

INFO

TYPHOON
TA-HTA-4HTATYPHOON
PU-HPUTYPHOON
SUHTYPHOON
ALHTYPHOON
HRCTYPHOON
SUH MINITYPHOON
HL

C-SD-TA

LFTA

SUTA

HSS-HSS/CO
DRILLS

G2

MDTA

HF VH/UP

MEF

ALU

MEX

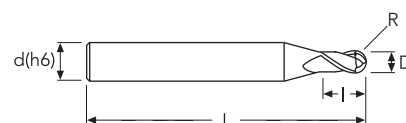
UH

HSS/CO-HSSP
END MILLSCARBIDE
BURRS

cylindrical shank, 2 flutes ball nose, short cutting length,
miniature



★ 1st choice ☆ suitable

[illegible]

CUTTING PARAMETERS

MEXMB2SC

	Material Group ISO 513	P2 P3 P4 K1 K2					P4 P5 K3			P6 K4			H1 H4 H5		
	Hardness/Rm	< 1000 N/mm ²					< 35 HRC			35 - 45 HRC			45 - 55 HRC		
	ap x ae	0.05D x 0.1D					0.05D x 0.1D			0.05D x 0.1D			0.05D x 0.1D		
	Vc (m/min)	110-130					90-110			50-70			45-55		
	D (mm)	D (eff.) (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	0.09	40000	0.006	480	40000	0.005	430	40000	0.005	385	40000	0.004	335	
	0.3	0.13	40000	0.008	640	40000	0.007	580	40000	0.006	510	40000	0.006	450	
	0.4	0.17	40000	0.010	800	40000	0.009	720	40000	0.008	640	40000	0.007	560	
	0.5	0.22	40000	0.012	960	40000	0.011	860	38220	0.010	735	31850	0.008	535	
0.6	0.26	40000	0.015	1200	40000	0.014	1080	31850	0.012	765	26540	0.011	555		
0.8	0.35	40000	0.018	1440	40000	0.016	1300	27300	0.014	785	22750	0.013	575		

	α	n (rpm)	Vf (mm/min)
	15°	x 1.1	x 1.1

INFO

TYPHOON
TA-HTA-4HTATYPHOON
PU-HPUTYPHOON
SUHTYPHOON
ALHTYPHOON
HRCTYPHOON
SUH MINITYPHOON
HL

C-SD-TA

LFTA

SUTA

HSS-HSS/CO
DRILLS

G2

MDTA

HF VH/UP

MEF

ALU

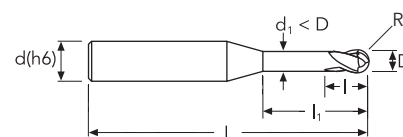
MEX

UH

HSS/CO-HSSP
END MILLSCARBIDE
BURRS

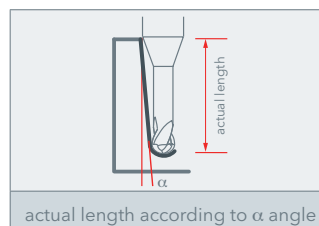
MEXLNB2

cylindrical shank, 2 flutes ball nose, extended and reduced neck



P	M	K	N	S	H
★		★			★

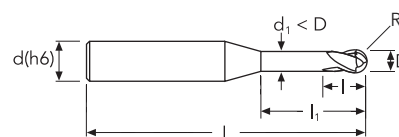
★ 1st choice ☆ suitable



D	D Tol.	R	R Tol.	d(h6)	l	l1	d1	L	z	30°	1°	1°30'	2°	3°	EDP No.	Stock
0.2	0/-0.020	0.10	0/-0.020	4	0.2	0.5	0.15	50	2	0.57	0.58	0.6	0.62	0.66	www002005	●
0.2	0/-0.020	0.10	0/-0.020	4	0.2	1	0.15	50	2	1.08	1.12	1.15	1.19	1.27	MEXLNB200201	●
0.2	0/-0.020	0.10	0/-0.020	4	0.2	1.5	0.15	50	2	1.60	1.65	1.71	1.76	1.89	MEXLNB2002015	●
0.3	0/-0.020	0.15	0/-0.020	4	0.3	1	0.25	50	2	1.08	1.11	1.15	1.18	1.26	MEXLNB200301	●
0.3	0/-0.020	0.15	0/-0.020	4	0.3	2	0.25	50	2	2.12	2.18	2.25	2.33	2.49	MEXLNB200302	●
0.3	0/-0.020	0.15	0/-0.020	4	0.3	3	0.25	50	2	3.15	3.25	3.36	3.48	3.73	MEXLNB200303	●
0.4	0/-0.020	0.20	0/-0.020	4	0.4	1	0.35	50	2	1.08	1.11	1.14	1.18	1.25	MEXLNB200401	●
0.4	0/-0.020	0.20	0/-0.020	4	0.4	2	0.35	50	2	2.11	2.18	2.25	2.32	2.48	MEXLNB200402	●
0.4	0/-0.020	0.20	0/-0.020	4	0.4	3	0.35	50	2	3.15	3.25	3.36	3.47	3.72	MEXLNB200403	●
0.4	0/-0.020	0.20	0/-0.020	4	0.4	4	0.35	50	2	4.18	4.32	4.46	4.62	4.95	MEXLNB200404	●
0.4	0/-0.020	0.20	0/-0.020	4	0.4	5	0.35	50	2	5.21	5.39	5.57	5.77	6.18	MEXLNB200405	●
0.5	0/-0.020	0.25	0/-0.020	4	0.4	2	0.45	50	2	2.15	2.22	2.29	2.36	2.52	MEXLNB200502	●
0.5	0/-0.020	0.25	0/-0.020	4	0.4	3	0.45	50	2	3.18	3.29	3.39	3.51	3.75	MEXLNB200503	●
0.5	0/-0.020	0.25	0/-0.020	4	0.4	4	0.45	50	2	4.22	4.35	4.5	4.65	4.98	MEXLNB200504	●
0.5	0/-0.020	0.25	0/-0.020	4	0.4	5	0.45	50	2	5.25	5.42	5.61	5.8	6.22	MEXLNB200505	●
0.5	0/-0.020	0.25	0/-0.020	4	0.4	6	0.45	50	2	6.28	6.49	6.71	6.95	7.45	MEXLNB200506	●
0.5	0/-0.020	0.25	0/-0.020	4	0.4	8	0.45	50	2	8.35	8.63	8.93	9.24	9.92	MEXLNB200508	●
0.6	0/-0.020	0.30	0/-0.020	4	0.5	2	0.55	50	2	2.15	2.21	2.28	2.35	2.50	MEXLNB200602	●
0.6	0/-0.020	0.30	0/-0.020	4	0.5	3	0.55	50	2	3.18	3.28	3.39	3.50	3.74	MEXLNB200603	●
0.6	0/-0.020	0.30	0/-0.020	4	0.5	4	0.55	50	2	4.22	4.35	4.49	4.65	4.97	MEXLNB200604	●
0.6	0/-0.020	0.30	0/-0.020	4	0.5	5	0.55	50	2	5.25	5.42	5.60	5.79	6.21	MEXLNB200605	●
0.6	0/-0.020	0.30	0/-0.020	4	0.5	6	0.55	50	2	6.28	6.49	6.71	6.94	7.44	MEXLNB200606	●
0.6	0/-0.020	0.30	0/-0.020	4	0.5	8	0.55	50	2	8.35	8.63	8.92	9.23	9.91	MEXLNB200608	●
0.8	0/-0.020	0.40	0/-0.020	4	0.6	2	0.75	50	2	2.15	2.21	2.27	2.34	2.48	MEXLNB200802	●
0.8	0/-0.020	0.40	0/-0.020	4	0.6	4	0.75	50	2	4.21	4.34	4.48	4.63	4.95	MEXLNB200804	●
0.8	0/-0.020	0.40	0/-0.020	4	0.6	5	0.75	50	2	5.25	5.41	5.59	5.78	6.18	MEXLNB200805	●
0.8	0/-0.020	0.40	0/-0.020	4	0.6	6	0.75	50	2	6.28	6.48	6.70	6.93	7.42	MEXLNB200806	●
0.8	0/-0.020	0.40	0/-0.020	4	0.6	7	0.75	50	2	7.31	7.55	7.81	8.07	8.65	MEXLNB200807	●
0.8	0/-0.020	0.40	0/-0.020	4	0.6	8	0.75	50	2	8.35	8.62	8.91	9.22	9.88	MEXLNB200808	●
0.8	0/-0.020	0.40	0/-0.020	4	0.6	10	0.75	50	2	10.41	10.76	11.13	11.51	12.35	MEXLNB200810	●
1	0/-0.020	0.50	0/-0.020	4	0.8	3	0.95	50	2	3.27	3.37	3.47	3.57	3.80	MEXLNB201003	●
1	0/-0.020	0.50	0/-0.020	4	0.8	4	0.95	50	2	4.31	4.44	4.58	4.72	5.04	MEXLNB201004	●
1	0/-0.020	0.50	0/-0.020	4	0.8	5	0.95	50	2	5.34	5.51	5.68	5.87	6.27	MEXLNB201005	●
1	0/-0.020	0.50	0/-0.020	4	0.8	6	0.95	50	2	6.37	6.58	6.79	7.02	7.50	MEXLNB201006	●
1	0/-0.020	0.50	0/-0.020	4	0.8	7	0.95	50	2	7.41	7.64	7.90	8.16	8.74	MEXLNB201007	●
1	0/-0.020	0.50	0/-0.020	4	0.8	8	0.95	50	2	8.44	8.71	9.00	9.31	9.97	MEXLNB201008	●
1	0/-0.020	0.50	0/-0.020	4	0.8	9	0.95	50	2	9.47	9.78	10.11	10.46	11.21	MEXLNB201009	●
1	0/-0.020	0.50	0/-0.020	4	0.8	10	0.95	50	2	10.51	10.85	11.22	11.61	12.44	MEXLNB201010	●
1	0/-0.020	0.50	0/-0.020	4	0.8	12	0.95	50	2	12.57	12.99	13.43	13.9	14.91	MEXLNB201012	●

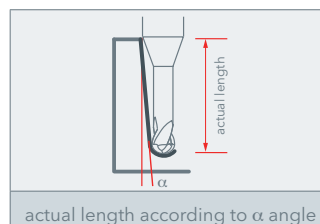
MEXLNB2

cylindrical shank, 2 flutes ball nose, extended and reduced neck



P	M	K	N	S	H
★		★			★

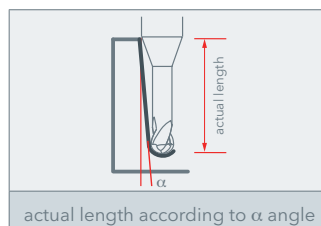
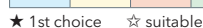
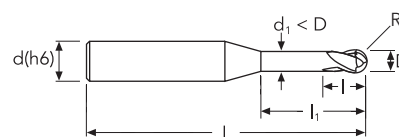
★ 1st choice ☆ suitable



D	D Tol.	R	R Tol.	d(h6)	l	l1	d1	L	z	30°	1°	1°30'	2°	3°	EDP No.	Stock
1	0/-0.020	0.50	0/-0.020	4	0.8	14	0.95	50	2	14.64	15.13	15.65	16.19	17.37	MEXLNB201014	●
1	0/-0.020	0.50	0/-0.020	4	0.8	16	0.95	50	2	16.71	15.13	15.65	16.19	17.37	MEXLNB201016	●
1	0/-0.020	0.50	0/-0.020	4	0.8	20	0.95	60	2	20.84	21.55	22.29	23.08	24.78	MEXLNB201020	●
1.2	0/-0.020	0.60	0/-0.020	4	1	6	1.15	50	2	6.37	6.57	6.78	7.00	7.48	MEXLNB201206	●
1.2	0/-0.020	0.60	0/-0.020	4	1	8	1.15	50	2	8.44	8.71	8.99	9.30	9.95	MEXLNB201208	●
1.2	0/-0.020	0.60	0/-0.020	4	1	10	1.15	50	2	10.50	10.85	11.21	11.59	12.42	MEXLNB201210	●
1.2	0/-0.020	0.60	0/-0.020	4	1	12	1.15	50	2	12.57	12.98	13.42	13.89	14.88	MEXLNB201212	●
1.4	0/-0.020	0.70	0/-0.020	4	1.1	8	1.35	50	2	8.43	8.70	8.98	9.28	9.93	MEXLNB201408	●
1.4	0/-0.020	0.70	0/-0.020	4	1.1	12	1.35	50	2	12.57	12.98	13.41	13.87	14.86	MEXLNB201412	●
1.4	0/-0.020	0.70	0/-0.020	4	1.1	16	1.35	50	2	16.70	17.26	17.84	18.46	19.8	MEXLNB201416	●
1.5	0/-0.020	0.75	0/-0.020	4	1.2	8	1.45	50	2	8.43	8.70	8.98	9.27	9.91	MEXLNB201508	●
1.5	0/-0.020	0.75	0/-0.020	4	1.2	12	1.45	50	2	12.57	12.97	13.41	13.86	14.85	MEXLNB201512	●
1.5	0/-0.020	0.75	0/-0.020	4	1.2	16	1.45	50	2	16.7	17.25	17.84	18.45	19.78	MEXLNB201516	●
1.5	0/-0.020	0.75	0/-0.020	4	1.2	18	1.45	60	2	18.77	19.39	20.05	20.75	22.25	MEXLNB201518	●
1.6	0/-0.020	0.80	0/-0.020	4	1.3	8	1.55	50	2	8.43	8.69	8.97	9.27	9.90	MEXLNB201608	●
1.6	0/-0.020	0.80	0/-0.020	4	1.3	12	1.55	50	2	12.56	12.97	13.40	13.86	14.84	MEXLNB201612	●
1.6	0/-0.020	0.80	0/-0.020	4	1.3	16	1.55	50	2	16.7	17.25	17.83	18.45	19.77	MEXLNB201616	●
1.6	0/-0.020	0.80	0/-0.020	4	1.3	20	1.55	60	2	20.83	21.53	22.26	23.03	-	MEXLNB201620	●
1.8	0/-0.020	0.90	0/-0.020	4	1.4	8	1.75	50	2	8.43	8.69	8.96	9.25	9.88	MEXLNB201808	●
1.8	0/-0.020	0.90	0/-0.020	4	1.4	12	1.75	50	2	12.56	12.96	13.39	13.84	14.81	MEXLNB201812	●
1.8	0/-0.020	0.90	0/-0.020	4	1.4	16	1.75	50	2	16.7	17.24	17.82	18.43	19.75	MEXLNB201816	●
1.8	0/-0.020	0.90	0/-0.020	4	1.4	20	1.75	60	2	20.83	21.52	22.25	23.02	-	MEXLNB201820	●
2	0/-0.020	1.00	0/-0.020	4	1.6	4	1.95	50	2	4.29	4.40	4.52	4.65	4.92	MEXLNB202004	●
2	0/-0.020	1.00	0/-0.020	4	1.6	6	1.95	50	2	6.36	6.54	6.74	6.94	7.39	MEXLNB202006	●
2	0/-0.020	1.00	0/-0.020	4	1.6	8	1.95	50	2	8.42	8.68	8.95	9.24	9.86	MEXLNB202008	●
2	0/-0.020	1.00	0/-0.020	4	1.6	10	1.95	50	2	10.49	10.82	11.17	11.53	12.32	MEXLNB202010	●
2	0/-0.020	1.00	0/-0.020	4	1.6	12	1.95	50	2	12.56	12.96	13.38	13.83	14.79	MEXLNB202012	●
2	0/-0.020	1.00	0/-0.020	4	1.6	14	1.95	50	2	14.62	15.10	15.59	16.12	17.26	MEXLNB202014	●
2	0/-0.020	1.00	0/-0.020	4	1.6	16	1.95	50	2	16.69	17.23	17.81	18.42	19.73	MEXLNB202016	●
2	0/-0.020	1.00	0/-0.020	4	1.6	18	1.95	60	2	18.76	19.37	20.02	20.71	-	MEXLNB202018	●
2	0/-0.020	1.00	0/-0.020	4	1.6	20	1.95	60	2	20.83	21.51	22.24	23.00	-	MEXLNB202020	●
2	0/-0.020	1.00	0/-0.020	4	1.6	25	1.95	75	2	25.99	26.86	27.77	28.74	-	MEXLNB202025	●
2	0/-0.020	1.00	0/-0.020	4	1.6	30	1.95	75	2	31.16	32.21	33.31	-	-	MEXLNB202030	●
3	0/-0.025	1.50	0/-0.020	6	2.4	8	2.85	50	2	8.60	8.84	9.10	9.37	9.96	MEXLNB203008	●
3	0/-0.025	1.50	0/-0.020	6	2.4	10	2.85	50	2	10.67	10.98	11.32	11.67	12.43	MEXLNB203010	●
3	0/-0.025	1.50	0/-0.020	6	2.4	16	2.85	60	2	16.87	17.4	17.96	18.55	19.83	MEXLNB203016	●
3	0/-0.025	1.50	0/-0.020	6	2.4	20	2.85	60	2	21.00	21.68	22.39	23.14	24.77	MEXLNB203020	●
3	0/-0.025	1.50	0/-0.020	6	2.4	25	2.85	75	2	26.17	27.02	27.93	28.88	-	MEXLNB203025	●
3	0/-0.025	1.50	0/-0.020	6	2.4	30	2.85	75	2	31.34	32.37	33.46	34.62	-	MEXLNB203030	●

● stock standard ○ non-stock standard ▽ stock exhaustion

cylindrical shank, 2 flutes ball nose, extended and reduced neck



● stock standard ○ non-stock standard ▽ stock exhaustion

CUTTING PARAMETERS

MEXLNB2

	Material Group ISO 513				P2 P3 P4 K1 K2			P4 P5 K3			P6 K4			H1 H4 H5		
	Hardness/Rm				< 1000 N/mm ²			< 35 HRC			35 - 45 HRC			45 - 55 HRC		
	ap x ae				ap x 0.2D			ap x 0.1D			ap x 0.1D			ap x 0.1D		
	Vc (m/min)				110-130			90-110			50-70			45-55		
	D (mm)	l1 (mm)	ap (mm)	D (eff.) (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	0.09		40000	0.007	580	40000	0.006	520	40000	0.006	460	40000	0.005	405
	≤ 8D	0.01	0.08		40000	0.006	520	40000	0.005	420	40000	0.005	375	40000	0.004	325
	≤ 10D	0.01	0.07		40000	0.006	460	40000	0.004	330	40000	0.004	295	40000	0.003	260
0.3	≤ 6D	0.02	0.13		40000	0.009	720	40000	0.008	650	40000	0.007	575	40000	0.006	505
	≤ 8D	0.01	0.12		40000	0.008	650	40000	0.007	520	40000	0.006	465	40000	0.005	410
	≤ 10D	0.01	0.11		40000	0.007	580	40000	0.005	410	40000	0.005	370	40000	0.004	325
0.4	≤ 6D	0.02	0.17		40000	0.012	940	40000	0.011	840	40000	0.009	750	40000	0.008	655
	≤ 8D	0.02	0.16		40000	0.011	840	40000	0.009	680	40000	0.008	605	35830	0.007	475
	≤ 10D	0.01	0.15		40000	0.009	750	40000	0.007	540	38220	0.006	460	31850	0.005	335
0.5	≤ 6D	0.03	0.22		40000	0.015	1220	40000	0.014	1100	38220	0.012	935	31850	0.011	680
	≤ 8D	0.02	0.20		40000	0.014	1100	40000	0.011	890	34390	0.010	680	28660	0.009	495
	≤ 10D	0.02	0.18		40000	0.012	980	40000	0.009	710	30570	0.008	480	25480	0.007	350
0.6	≤ 6D	0.03	0.26		40000	0.019	1510	40000	0.017	1360	31850	0.015	965	26540	0.013	700
	≤ 8D	0.03	0.24		40000	0.017	1360	40000	0.014	1100	28660	0.012	700	23890	0.011	510
	≤ 10D	0.02	0.22		40000	0.015	1210	40000	0.011	870	25480	0.010	495	21230	0.008	360
0.8	≤ 6D	0.04	0.35		40000	0.023	1800	39810	0.020	1610	23890	0.018	860	19900	0.016	625
	≤ 8D	0.03	0.32		40000	0.020	1620	35830	0.016	1180	21500	0.015	625	17910	0.013	455
	≤ 10D	0.03	0.29		38220	0.018	1380	31850	0.013	830	19110	0.012	440	15920	0.010	320
1	≤ 6D	0.05	0.44		38220	0.027	2060	31850	0.024	1550	19110	0.022	825	15920	0.019	600
	≤ 8D	0.04	0.40		34390	0.024	1670	28660	0.020	1130	17200	0.017	600	14330	0.015	440
	≤ 10D	0.04	0.37		30570	0.022	1320	25480	0.016	790	15290	0.014	425	12740	0.012	310
1.2	≤ 12D	0.03	0.33		26750	0.019	1010	22290	0.012	530	13380	0.011	285	11150	0.009	205
	> 12D	0.02	0.30		22930	0.016	740	19110	0.009	330	11460	0.008	180	9550	0.007	130
	≤ 6D	0.06	0.52		31850	0.032	2010	21230	0.028	1200	15920	0.025	800	13270	0.022	585
1.5	≤ 8D	0.05	0.48		28660	0.028	1630	19110	0.023	880	14330	0.020	585	11940	0.018	425
	≤ 10D	0.04	0.44		25480	0.025	1280	16990	0.018	620	12740	0.016	410	10620	0.014	300
	≤ 12D	0.03	0.39		22290	0.022	980	14860	0.014	410	11150	0.012	275	9290	0.011	200
2	> 12D	0.03	0.36		19110	0.019	720	12740	0.010	260	9550	0.009	175	7960	0.008	125
	≤ 6D	0.08	0.65		25480	0.041	2060	21230	0.036	1550	12740	0.032	825	10620	0.028	600
	≤ 8D	0.06	0.61		22930	0.036	1670	19110	0.030	1130	11460	0.026	600	9550	0.023	440
2.5	≤ 10D	0.05	0.55		20380	0.032	1320	16990	0.023	790	10190	0.021	425	8490	0.018	310
	≤ 12D	0.04	0.49		17830	0.028	1010	14860	0.018	530	8920	0.016	285	7430	0.014	205
	> 12D	0.03	0.44		15290	0.024	740	12740	0.013	330	7640	0.012	180	6370	0.010	130
3	≤ 6D	0.10	0.87		19110	0.054	2060	15920	0.049	1550	9550	0.043	825	7960	0.038	600
	≤ 8D	0.09	0.81		17200	0.049	1670	14330	0.039	1130	8600	0.035	600	7170	0.031	440
	≤ 10D	0.07	0.74		15290	0.043	1320	12740	0.031	790	7640	0.028	420	6370	0.024	310
4	≤ 12D	0.06	0.65		13380	0.038	1010	11150	0.024	530	6690	0.021	285	5570	0.019	205
	> 12D	0.05	0.59		11460	0.032	740	9550	0.017	330	5730	0.016	180	4780	0.014	130
	≤ 6D	0.13	1.09		15290	0.054	1650	12740	0.049	1240	7640	0.043	660	6370	0.038	480
5	≤ 8D	0.11	1.01		13760	0.049	1340	11460	0.039	900	6880	0.035	480	5730	0.031	350
	≤ 10D	0.09	0.92		12230	0.043	1060	10190	0.031	630	6110	0.028	340	5100	0.024	245
	≤ 12D	0.07	0.82		10700	0.038	810	8920	0.024	420	5350	0.021	225	4460	0.019	165
6	> 12D	0.06	0.74		9170	0.032	590	7640	0.017	270	4590	0.016	145	3820	0.014	105

	α	n (rpm)	Vf (mm/min)
45°	x 1.65	x 1.65	x 1.65
30°	x 1.30	x 1.30	x 1.30
15°	x 1.15	x 1.15	x 1.15

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

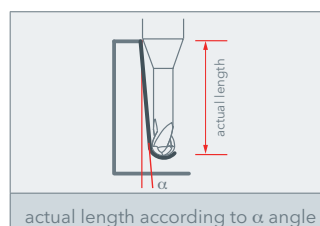
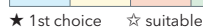
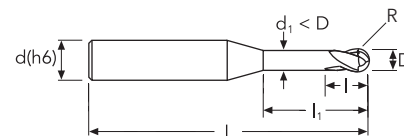
CUTTING PARAMETERS

MEXLNB2

	Material Group ISO 513				P2 P3 P4 K1 K2			P4 P5 K3			P6 K4			H1 H4 H5		
	Hardness/Rm				< 1000 N/mm ²			< 35 HRC			35 - 45 HRC			45 - 55 HRC		
	ap x ae				ap x 0.2D			ap x 0.1D			ap x 0.1D			ap x 0.1D		
	Vc (m/min)				110-130			90-110			50-70			45-55		
	D (mm)	l1 (mm)	ap (mm)	D (eff.) (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)
3	≤ 6D	0.15	1.31	12740	0.068	1720	10620	0.061	1290	6370	0.054	690	5310	0.047	500	
	≤ 8D	0.13	1.21	11460	0.061	1390	9550	0.049	940	5730	0.044	500	4780	0.038	365	
	≤ 10D	0.11	1.10	10190	0.054	1100	8490	0.039	660	5100	0.035	355	4250	0.030	255	
	≤ 12D	0.08	0.98	8920	0.047	840	7430	0.030	440	4460	0.026	235	3720	0.023	170	
	> 12D	0.07	0.89	7640	0.041	620	6370	0.022	280	3820	0.019	150	3180	0.017	110	
4	≤ 6D	0.20	1.74	9550	0.086	1630	7960	0.077	1230	4780	0.068	655	3980	0.060	475	
	≤ 8D	0.17	1.61	8600	0.077	1320	7170	0.062	890	4300	0.055	475	3580	0.048	345	
	≤ 10D	0.14	1.47	7640	0.068	1050	6370	0.049	630	3820	0.044	335	3180	0.038	245	
	≤ 12D	0.11	1.31	6690	0.060	800	5570	0.038	420	3340	0.034	225	2790	0.029	165	
	> 12D	0.09	1.19	5730	0.051	590	4780	0.028	260	2870	0.025	140	2390	0.022	105	

	α	n (rpm)	Vf (mm/min)
	45°	x 1.65	x 1.65
	30°	x 1.30	x 1.30
	15°	x 1.15	x 1.15

cylindrical shank, 2 flutes ball nose,
extended and reduced neck, 6 mm. shank

[illegible]

● stock standard ○ non-stock standard ▽ stock exhaustion

INFO

TYPHOON
TA-HTA-4HTA

TYPHOON
PU-HPU

TYPHOON
SUH

TYPHOON
ALHTYPHOON
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

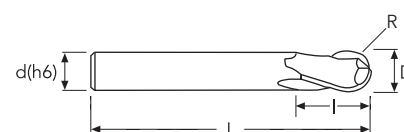
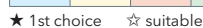
CUTTING PARAMETERS

MEXLNB206

	Material Group ISO 513				P2 P3 P4 K1 K2			P4 P5 K3			P6 K4			H1 H4 H5		
	Hardness/Rm				< 1000 N/mm ²			< 35 HRC			35 - 45 HRC			45 - 55 HRC		
	ap x ae				ap x 0.2D			ap x 0.1D			ap x 0.1D			ap x 0.1D		
	Vc (m/min)				110-130			90-110			50-70			45-55		
	D (mm)	l1 (mm)	ap (mm)	D (eff.) (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)
	0.5	≤ 6D	0.03	0.22	40000	0.015	1220	40000	0.014	1100	38220	0.012	935	31850	0.011	680
		≤ 10D	0.02	0.22	40000	0.015	1210	40000	0.011	870	25480	0.010	495	21230	0.008	360
	0.8	≤ 6D	0.04	0.35	40000	0.023	1800	39810	0.020	1610	23890	0.018	860	19900	0.016	625
		≤ 10D	0.03	0.29	38220	0.018	1380	31850	0.013	830	19110	0.012	440	15920	0.010	320
	1	≤ 6D	0.05	0.44	38220	0.027	2060	31850	0.024	1550	19110	0.022	825	15920	0.019	600
		≤ 8D	0.04	0.40	34390	0.024	1670	28660	0.020	1130	17200	0.017	600	14330	0.015	440
		≤ 12D	0.03	0.33	26750	0.019	1010	22290	0.012	530	13380	0.011	285	11150	0.009	205
	1.2	≤ 6D	0.06	0.52	31850	0.032	2010	21230	0.028	1200	15920	0.025	800	13270	0.022	585
		≤ 6D	0.08	0.65	25480	0.041	2060	21230	0.036	1550	12740	0.032	825	10620	0.028	600
	1.5	≤ 8D	0.06	0.61	22930	0.036	1670	19110	0.030	1130	11460	0.026	600	9550	0.023	440
		≤ 12D	0.04	0.49	17830	0.028	1010	14860	0.018	530	8920	0.016	285	7430	0.014	205
	1.6	≤ 10D	0.06	0.59	19110	0.030	1130	15920	0.021	680	9550	0.019	360	7960	0.017	265
	1.8	≤ 10D	0.06	0.66	16990	0.032	1100	14150	0.023	660	8490	0.021	350	7080	0.018	255
	2	≤ 6D	0.10	0.87	19110	0.054	2060	15920	0.049	1550	9550	0.043	825	7960	0.038	600
		≤ 8D	0.09	0.81	17200	0.049	1670	14330	0.039	1130	8600	0.035	600	7170	0.031	440
		≤ 10D	0.07	0.74	15290	0.043	1320	12740	0.031	790	7640	0.028	420	6370	0.024	310

	α	n (rpm)	Vf (mm/min)
	45°	x 1.65	x 1.65
	30°	x 1.30	x 1.30
	15°	x 1.15	x 1.15

cylindrical shank, 2 flutes ball nose



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

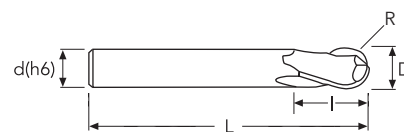
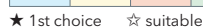
CUTTING PARAMETERS

MEXCSB2

	Material Group ISO 513		P2 P3 P4 K1 K2					P4 P5 K3			P6 K4			H1 H4 H5		
	Hardness/Rm		< 1000 N/mm ²					< 35 HRC			35 - 45 HRC			45 - 55 HRC		
	ap x ae		0.05D x 0.2D					0.05D x 0.1D			0.05D x 0.1D			0.05D x 0.1D		
	Vc (m/min)		120-160					80-120			60-100			50-70		
	D (mm)	D (eff.) (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	0.44	40000	0.009	720	31850	0.008	520	25480	0.007	370	19110	0.006	240		
	1.5	0.79	29720	0.012	710	21230	0.011	460	16990	0.010	330	12740	0.008	210		
	2	1.20	22290	0.012	530	15920	0.011	340	12740	0.010	240	9550	0.008	160		
	2.5	1.65	17830	0.015	530	12740	0.014	340	10190	0.012	240	7640	0.011	160		
	3	2.14	14860	0.018	530	10620	0.016	340	8490	0.014	240	6370	0.013	160		
	4	3.20	11150	0.025	560	7960	0.023	360	6370	0.020	250	4780	0.018	170		
	5	4.33	8920	0.032	570	6370	0.029	370	5100	0.026	260	3820	0.022	170		
	6	5.50	7430	0.038	560	5310	0.034	360	4250	0.030	260	3180	0.027	170		
	8	7.84	5570	0.048	530	3980	0.043	340	3180	0.038	240	2390	0.034	160		
	10	10.00	4460	0.057	510	3180	0.051	330	2550	0.046	230	1910	0.040	150		
12	11.76	3720	0.067	500	2650	0.060	320	2120	0.054	230	1590	0.047	150			
14	12.83	3180	0.08	510	2270	0.072	330	1820	0.064	230	1360	0.056	150			
16	12.80	2790	0.095	530	1990	0.086	340	1590	0.076	240	1190	0.067	160			
18	10.80	2480	0.108	540	1770	0.097	340	1420	0.086	250	1060	0.076	160			
20	12.00	2230	0.108	480	1590	0.097	310	1270	0.086	220	960	0.076	150			

	α	n (rpm)	Vf (mm/min)
	15°	x 1.1	x 1.1

cylindrical shank, 2 flutes ball nose, long reach



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

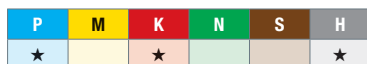
CUTTING PARAMETERS

MEXCLSB2

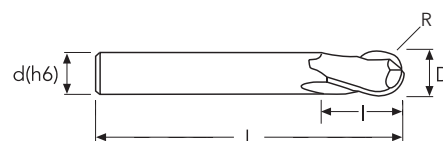
	Material Group ISO 513		P2 P3 P4 K1 K2			P4 P5 K3			P6 K4			H1 H4 H5		
	Hardness/Rm		< 1000 N/mm ²			< 35 HRC			35 - 45 HRC			45 - 55 HRC		
	ap x ae		0.05D x 0.2D			0.05D x 0.2D			0.05D x 0.2D			0.05D x 0.2D		
	Vc (m/min)		100-140			80-120			60-80			40-60		
	D (mm)	D (eff.) (mm)	n (rpm)	fz (mm/z)	Vf (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	0.44	38220	0.015	1150	31850	0.014	860	22290	0.012	530	15920	0.011	330
	2	0.87	19110	0.021	810	15920	0.019	610	11150	0.017	380	7960	0.015	240
	3	1.31	12740	0.027	690	10620	0.024	520	7430	0.022	320	5310	0.019	200
	4	1.74	9550	0.037	700	7960	0.033	520	5570	0.029	330	3980	0.026	200
	5	2.18	7640	0.045	690	6370	0.041	520	4460	0.036	320	3180	0.032	200
	6	2.62	6370	0.051	650	5310	0.046	490	3720	0.041	300	2650	0.036	190
	8	3.49	4780	0.060	570	3980	0.054	430	2790	0.048	270	1990	0.042	170
	10	4.36	3820	0.068	520	3180	0.061	390	2230	0.054	240	1590	0.048	150
	12	5.23	3180	0.077	490	2650	0.069	360	1860	0.061	230	1330	0.054	140
	14	6.10	2730	0.089	490	2270	0.080	360	1590	0.071	230	1140	0.062	140
	16	6.97	2390	0.102	490	1990	0.092	370	1390	0.082	230	1000	0.071	140
	18	7.85	2120	0.115	490	1770	0.103	370	1240	0.092	230	880	0.080	140
	20	8.72	1910	0.132	500	1590	0.119	380	1110	0.106	230	800	0.092	150

	α	n (rpm)	Vf (mm/min)
	30°	x 0.8	x 0.8
	15°	x 0.7	x 0.7
	0°	x 0.6	x 0.6

cylindrical shank, 2 flutes ball nose, extra long reach



★ 1st choice ☆ suitable

[illegible]

● stock standard ○ non-stock standard ▽ stock exhaustion

INFO

TYPHOON
TA-HTA-4HTA

TYPHOON
PU-HPU

TYPHOON
SUH

TYPHOON
ALH

TYPHOON
URG

TYPHOON
SUH MINI

TYPHOON
HL

C-SD-TA

LFTA

SKILLS

G2

MDTA

HF VH/LIP

MEF

ALU

MEX

UH

HSS/CO-HS
END MILLS

CARBIDE
BURRS

CUTTING PARAMETERS

MEX253

	Material Group ISO 513		P2P3P4K1K2					P4P5K3			P6K4			H1H4H5		
	Hardness/Rm		< 1000 N/mm ²					< 35 HRC			35 - 45 HRC			45 - 55 HRC		
	ap x ae		0.05D x 0.2D					0.05D x 0.2D			0.05D x 0.2D			0.05D x 0.2D		
	Vc (m/min)		90-130					60-100			50-70			30-50		
	D (mm)	D (eff.) (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	0.44	35030	0.015	1050	25480	0.014	690	19110	0.012	460	12740	0.011	270			
2	0.87	17520	0.021	740	12740	0.019	490	9550	0.017	320	6370	0.015	190			
3	1.31	11680	0.027	640	8490	0.024	420	6370	0.022	280	4250	0.019	160			
4	1.74	8760	0.037	640	6370	0.033	420	4780	0.029	280	3180	0.026	160			
5	2.18	7010	0.045	630	5100	0.041	410	3820	0.036	280	2550	0.032	160			
6	2.62	5840	0.051	600	4250	0.046	390	3180	0.041	260	2120	0.036	150			
8	3.49	4380	0.060	520	3180	0.054	340	2390	0.048	230	1590	0.042	130			
10	4.36	3500	0.068	480	2550	0.061	310	1910	0.054	210	1270	0.048	120			
12	5.23	2920	0.077	450	2120	0.069	290	1590	0.061	190	1060	0.054	110			
14	6.10	2500	0.089	450	1820	0.080	290	1360	0.071	190	910	0.062	110			
16	6.97	2190	0.102	450	1590	0.092	290	1190	0.082	190	800	0.071	110			
18	7.85	1950	0.115	450	1420	0.103	290	1060	0.092	190	710	0.080	110			
20	8.72	1750	0.132	460	1270	0.119	300	960	0.106	200	640	0.092	120			

	α	n (rpm)	Vf (mm/min)
	30°	x 0.8	x 0.8
	15°	x 0.7	x 0.7
	0°	x 0.6	x 0.6