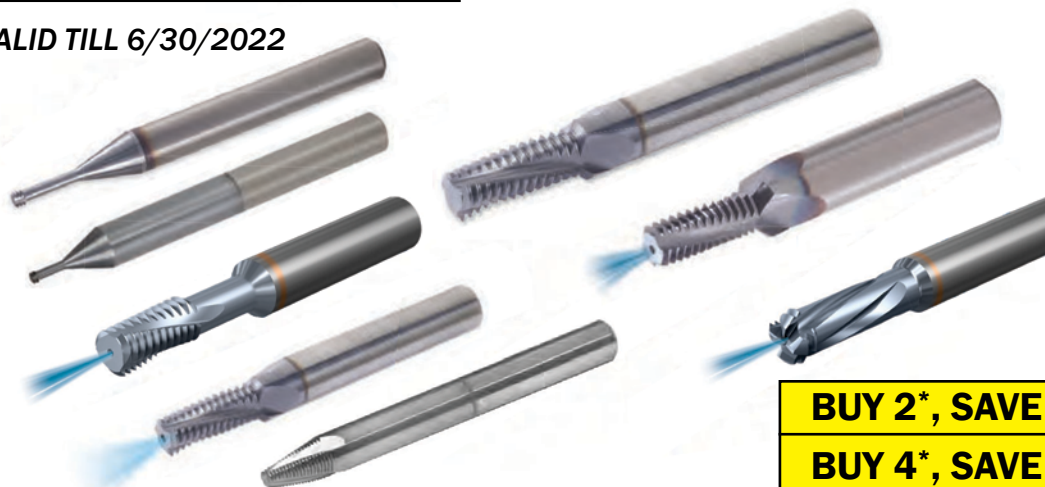


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THREAD MILL PROMOTION

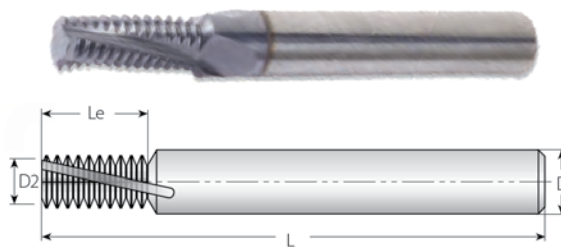
FREE LOCAL DELIVERY
VALID TILL 6/30/2022

BUY 2*, SAVE 32%
BUY 4*, SAVE 40%

* SAME SIZE

THREAD MILLS

- SOLID CARBIDE
- HELICAL FLUTES
- TICN COATED

INTERNAL UN 60°


**SAVE
32%**
**SAVE
40%**

FOR THREADS		TPI	D2	Le	L	D	MIN BORE	PART # VAR-	PRICE WHEN YOU BUY	
UNC	UNF								2 PC.	4 PC.
#10-24	#10-32	32	.121	.312	2.0	1/8	.157	80534	62.80	55.42
	#10-28	28	.121	.321	2.0	1/8	.155	80535	62.80	55.42
	#12-28	28	.150	.464	2.5	3/16	.181	80536	62.80	55.42
	1/4"-28	28	.181	.500	2.5	3/16	.217	80537	87.36	77.08
#12-24		24	.120	.333	2.0	1/8	.150	80538	62.80	55.42
		24	.138	.458	2.5	3/16	.177	80539	87.36	77.08
1/4"-20	5/16"-24	24	.232	.625	2.5	1/4	.268	80540	81.50	71.91
	3/8"-24	24	.291	.750	3.0	5/16	.335	80541	97.21	85.77
		20	.181	.500	2.5	3/16	.205	80542	87.36	77.08
	1/2"-20	20	.371	1.000	3.5	3/8	.453	80543	105.43	93.02
5/16"-18	7/16"-20	20	.335	.900	3.5	3/8	.386	80544	105.43	93.02
		18	.232	.667	2.5	1/4	.256	80545	81.50	71.91
	9/16"-18	18	.371	.889	3.5	3/8	.504	80546	105.43	93.02
	5/8"-18	18	.496	1.278	3.5	1/2	.571	80547	131.60	116.12
3/8"-16		16	.285	.750	3.0	5/16	.315	80548	105.43	93.02
	3/4"-16	16	.496	1.250	3.5	1/2	.689	80549	131.60	116.12
7/16"-14		14	.305	.786	3.0	5/16	.366	80550	97.21	85.77
1/2"-13		13	.350	.923	3.5	3/8	.425	80551	105.43	93.02
9/16"-12		12	.371	.917	3.5	3/8	.484	80552	131.60	116.12
5/8"-11		11	.469	1.273	3.5	1/2	.531	80553	131.60	116.12
3/4"-10		10	.496	1.300	3.5	1/2	.650	80554	131.60	116.12
7/8"-9		9	.621	1.444	4.0	5/8	.768	80555	164.50	145.15
1"-8		8	.621	1.375	4.0	5/8	.878	80556	164.50	145.15

NPT EXTERNAL & INTERNAL

THREAD SIZE	TPI	D2	Le	L	D	BORE DIA	PART # VAR-	PRICE WHEN YOU BUY	
								2 PC.	4 PC.
1/16"-27, 1/8"-27	27	.209	.407	2.5	1/4	.248, .335	80562	102.93	90.82
1/4"-18, 3/8"-18	18	.305	.611	3.0	5/16	.437, .571	80563	111.32	98.23
1/2"-14, 3/4"-14	14	.496	.929	3.5	1/2	.697, .906	80564	131.60	116.12
1" to 2"-11.5	11.5	.621	1.130	4.0	5/8	1.142 to 2.205	80565	164.50	145.15
2 1/2" to 6"-8	8	.746	1.500	5.0	3/4	from 2.618	80566	213.86	188.70

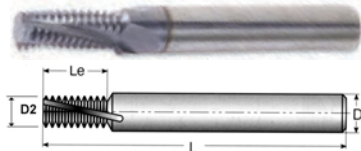
SEE FOLLOWING PAGES FOR MORE STYLES



HE-LEX

HELICAL FLUTES TiCN COATED THREAD MILLS

UN 60° - INTERNAL



FOR THREADS	UNC	TPI	D2	Le	L	D	MIN BORE	PART # VAR-
#10-24	#10-24	24	.121	.312	2.0	1/8	.157	80534
#12-24	#12-24	24	.121	.321	2.0	1/8	.155	80535
	#12-28	28	.150	.464	2.5	3/16	.181	80536
	1/4"-28	28	.181	.500	2.5	3/16	.217	80537
		24	.120	.333	2.0	1/8	.150	80538
		24	.138	.458	2.5	3/16	.177	80539
		24	.232	.625	3.0	1/4	.268	80540
		24	.291	.750	3.0	5/16	.335	80541
		20	.181	.500	2.5	3/16	.205	80542
		20	.371	1.000	3.5	3/8	.453	80543
		20	.335	.900	3.5	3/8	.386	80544
		18	.232	.667	2.5	1/4	.256	80545
		18	.371	.889	3.5	3/8	.504	80546
		18	.496	1.278	3.5	1/2	.571	80547
		16	.285	.750	3.0	5/16	.315	80548
		16	.496	1.250	3.5	1/2	.689	80549
		14	.305	.786	3.0	5/16	.366	80550
		13	.350	.923	3.5	3/8	.425	80551
		12	.371	.917	3.5	3/8	.484	80552
		11	.469	1.273	3.5	1/2	.531	80553
		10	.496	1.300	3.5	1/2	.650	80554
		9	.621	1.444	4.0	5/8	.768	80555
		8	.621	1.375	4.0	5/8	.878	80556

NPT EXTERNAL & INTERNAL

THREAD SIZE	TPI	D2	Le	L	D	BORE DIA	PART # VAR-
1/16"-27, 1/8"-27	27	.209	.407	2.5	1/4	.248, .335	80562
1/4"-18, 3/8"-18	18	.305	.611	3.0	5/16	.437, .571	80563
1/2"-14, 3/4"-14	14	.496	.929	3.5	1/2	.697, .906	80564
1" to 2"-11.5	11.5	.621	1.130	4.0	5/8	1.142 to 2.205	80565
2 1/2" to 6"-8	8	.746	1.500	5.0	3/4	from 2.618	80566

NPTF EXTERNAL & INTERNAL

THREAD SIZE	TPI	D2	Le	L	D	BORE DIA	PART # VAR-
1/16"-27, 1/8"-27	27	.209	.407	2.5	1/4	.248, .331	80557
1/4"-18, 3/8"-18	18	.305	.611	3.0	5/16	.437, .579	80558
1/2"-14, 3/4"-14	14	.496	.929	3.5	1/2	.705, .921	80559
1" to 2"-11.5	11.5	.621	1.130	4.0	5/8	1.158 to 2.213	80560
2 1/2" to 6"-8	8	.746	1.500	5.0	3/4	from 2.638	80561

METRIC - EXTERNAL 60°

THREAD	PITCH mm	D2	Le	L	D mm	Z	PART # VAR-
M3x0.5	0.5	.154	.236	1.772	4	3	80891
M4.5x0.75	0.75	.154	.354	1.772	4	3	80892
M6x1.0	1.0	.154	.472	1.772	4	3	80893
M8x1.25	1.25	.232	.640	2.244	6	3	80894
M10x1.5	1.5	.311	.827	2.480	8	3	80895
M14x2.0	2.0	.390	1.102	2.874	10	4	80896

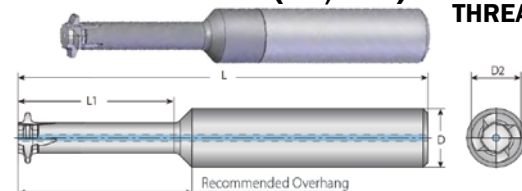
METRIC - INTERNAL 60°

THREAD	PITCH mm	D2	Le	L	D mm	Z	MIN BORE*	PART # VAR-
M3x0.5	0.5	.087	.236	1.772	4	3	.098	80897
M4x0.5	0.5	.118	.315	1.772	4	3	.138	80898
M5x0.5	0.5	.154	.394	1.772	4	3	.177	80899
M4x0.7	0.7	.110	.331	1.772	4	3	.130	80900
M5x0.7	0.75	.154	.472	1.772	4	3	.209	80901
M6x0.7	0.8	.138	.409	1.772	4	3	.165	80902
M8x1.0	1.0	.154	.472	1.772	4	3	.197	80903
M8x1.0	1.0	.232	.630	2.244	6	3	.276	80904
M10x1.0	1.0	.311	.787	2.480	8	3	.354	80905
M12x1.0	1.0	.390	.945	2.874	10	4	.433	80906
M8x1.25	1.25	.228	.640	2.244	6	3	.268	80907
M10x1.25	1.25	.303	.787	2.480	8	3	.346	80908
M12x1.5	1.5	.370	.945	2.874	10	4	.413	80910
M14x1.5	1.5	.441	1.122	3.268	12	4	.492	80911
M16x1.5	1.5	.469	1.299	3.268	12	4	.571	80912
M12x1.75	1.75	.343	.965	2.874	10	4	.402	80913
M14x2.0	2.0	.390	1.102	2.874	10	4	.472	80914
M16x2.0	2.0	.469	1.260	3.268	12	4	.551	80915
M18-M22x2.5	2.5	.547	1.575	3.622	16	5	.610	80916
M24x3.0	3.0	.626	1.654	3.622	16	4	.827	80917

*Bore Diameter applies to smallest thread Dia.

ACME - INTERNAL (2G, 29°)

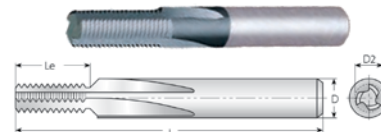
DEEP THREADING



THREAD	PITCH	DIMENSIONS INCH	NO. OF FLUTES	TEETH	BORE DIA	PART # VAR-
UNC	TPI	D D2 L L1	Z	Zt	INCH	
3/8"-12	12	1/4 .240 2.520 .811	3	1	.354	81058
1/2"-10	10	3/8 .327 2.990 1.071	3	1	.400	81059
5/8"-8	8	1/2 .425 3.500 1.330	4	1	.500	81060
3/4"-6	6	1/2 .488 3.500 1.600	5	1	.583	81061
1"-5	5	5/8 .571 4.015 2.110	5	1	.800	81062

STRAIGHT FLUTE TiCN COATED THREAD MILLS

UN 60° - EXTERNAL



THREAD MIN. DIA.	PITCH TPI	D	D2	L	Le	NO. OF FLUTES Z	TEETH Zt	PART # VAR-
No.6	32	1/4	.240	2.244	.562	3	18	80026
No.12	28	5/16	.310	2.480	.786	3	22	80027
No.12	28	5/16	.310	2.480	.786	5	22	80028
1/4"	20	3/8	.370	2.835	.900	5	18	80029
5/16"	18	3/8	.370	2.835	.944	5	17	80030
3/8"	16	1/2	.470	3.268	1.125	5	18	80031
9/16"	12	1/2	.470	3.268	1.167	5	14	80032
1"	8	5/8	.620	3.622	1.500	5	12	80033
1 3/8"	6	5/8	.620	3.622	1.500	5	9	80033

UN 60° - INTERNAL

THREAD MIN. DIA.	PITCH TPI	D	D2	L	Le	NO. OF FLUTES Z	TEETH Zt	PART # VAR-
No.8	36	1/8	.120	1.654	.250	3	9	80034
No.8	32	1/8	.120	1.654	.250	3	8	80035
5/16"	32	1/4	.240	2.244	.562	3	18	80036
No.12	28	3/16	.145	1.654	.321	3	9	80037
7/16"	28	5/16	.310	2.480	.786	3	22	80038
7/16"	28	5/16	.310	2.480	.786	5	22	80039
No.12	24	3/16	.160	2.244	.333	3	8	80040
1/4"	20	3/16	.160	2.244	.400	3	8	80041
9/16"	20	3/8	.370	2.835	.900	5	18	80042
5/16"	18	1/4	.200	2.244	.500	3	9	80043
9/16"	18	3/8	.370	2.835	.944	5	17	80044
3/8"	16	1/4	.240	2.244	.562	3	9	80045
13/16"	16	1/2	.470	3.268	1.125	5	18	80046
7/16"	14	5/16	.310	2.480	.714	3	10	80047
7/16"	14	5/16	.310	2.480	.714	5	10	80048
1/2"	13	5/16	.310	2.480	.769	3	10	80049
1/2"	13	5/16	.310	2.480	.769	5	10	80050
9/16"	12	3/8	.370	2.835	.917	5	11	80051
1"	12	1/2	.470	3.268	1.167	5	14	80052
5/8"	11	3/8	.370	2.835	.909	5	10	80053
3/4"	10	1/2	.470	3.268	1.100	5	11	80054
7/8"	9	5/8	.620	3.622	1.333	5	12	80055
1"	8	5/8	.620	3.622	1.500	5	12	80056
1 1/8"	7	5/8	.620	3.622	1.429	5	10	80057
1 3/8"	6	3/4	.745	4.095	1.500	5	9	80058
1 3/4"	5	3/4	.745	4.095	1.600	5	8	80059
2"	4.5	3/4	.745	4.095	1.555	5	7	80060

METRIC 60° - EXTERNAL

THREAD MIN. DIA.	PITCH mm	D	D2	L	Le	NO. OF FLUTES Z	TEETH Zt	PART # VAR-
M3	0.50	1/4	.240	2.244	.591	3	30	80000
M4.5	0.75	5/16	.310	2.480	.610	3	26	80001
M4.5	0.75	5/16	.310	2.480	.610	5	26	80002
M6	1.00	3/8	.370	2.835	.945	5	24	80003
M10	1.50	1/2	.470	3.268	1.181	5	20	80004
M14	2.00	1/2	.470	3.268	1.181	5	15	80005
M24	3.00	5/8	.620	3.622	1.417	5	12	80006
M36	4.00	5/8	.620	3.622	1.575	5	10	80007
M64	6.00	3/4	.745	4.095	1.417	5	6	80008

METRIC 60° - INTERNAL

THREAD MIN. DIA.	PITCH mm	D	D2	L	Le	NO. OF FLUTES Z	TEETH Zt	PART # VAR-
M4.5	0.75	1/8	.120	1.496	.270	3	9	80009
M8	0.75	1/4	.240	2.244	.591	3	20	80010
M5	0.80	3/16	.145	1.654	.315	3	10	80011
M6	1.00	3/16	.160	1.654	.354	3	9	80012
M12	1.00	5/16	.310	2.480	.787	3	20	80013
M12	1.00	5/16	.310	2.480	.787	5	20	80014
M8	1.25	1/4	.200	2.244	.492	3	10	80015
M10	1.50	1/4	.240	2.244	.591	3	10	80016
M14	1.50	3/8	.370	2.835	.945	5	16	80017
M18	1.50	1/2	.470	3.268	1.181	5	20	80018
M12	1.75	5/16	.310	2.480	.758	3	11	80019
M12	1.75	5/16	.310	2.480	.758	5	11	80020
M16	2.00	3/8	.370	2.835	.944	5	15	80021
M18	2.00	1/2	.470	3.268	1.181	5	12	80022
M20	2.50	1/2	.470	3.268	1.181	5	12	80023
M24	3.00	5/8	.620	3.622	1.417	5	12	80024
M30	3.50	5/8	.620	3.622	1.516	5	11	80025
M36	4.00	5/8	.620	3.622	1.575	5	10	80026
M48	5.00	3/4	.745	4.095	1.575	5	8	80

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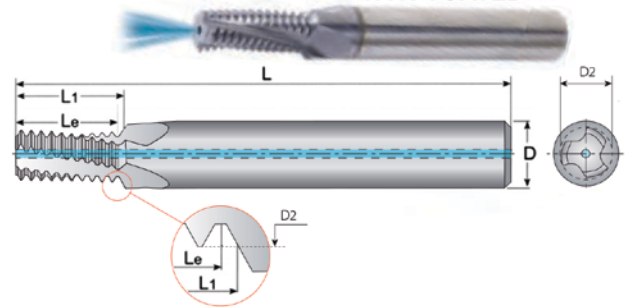
VARDEX HELICOOL

UN 60° - INTERNAL

1.5 x D₂

SOLID CARBIDE THREAD MILLS
WITH COOLANT THRU HOLE

TICN COATED



FOR THREADS		TPI	D2	L1	L	D	MIN BORE	PART # - VAR.
UNC	UNF							
#10-24	5/16"; 3/8"-24	9/16" to 11/16"-24	24	.141	.312	1.772	3/16	.150 80360
#12-24	5/16"; 3/8"-24	9/16" to 11/16"-24	24	.163	.354	2.244	1/4	.177 80361
1/4"-20	7/16"; 1/2"-20	3/4" to 1"-20	20	.192	.375	2.244	1/4	.201 80362
5/16"-18	9/16"; 5/8"-18		18	.242	.472	2.402	5/16	.260 80363
3/8"-16	3/4"-16		16	.301	.594	2.402	5/16	.315 80364
7/16"-14	7/8"-14	11/16" to 1.11/16"-18	14	.354	.678	2.874	3/8	.370 80365
1/2"-13			13	.407	.808	3.150	1/2	.429 80366
9/16"-12	1" to 1.1/2"-12		12	.465	.875	3.150	1/2	.484 80367

UN 60° - INTERNAL

2 x D₂

FOR THREADS		TPI	D2	L1	L	D	MIN BORE	PART # - VAR.
UNC	UNF							
#10-24	#10-32	#12 to 3/8"-32	32	.150	.391	1.772	3/16	.157 80291
		#12 to 3/8"-32	32	.173	.453	2.244	1/4	.185 80292
	#12: 1/4"-28	7/16"; 1/2"-28	28	.169	.446	2.244	1/4	.181 80293
	1/4"-28	7/16"; 1/2"-28	28	.203	.518	2.244	1/4	.216 80294
#12-24	5/16"; 3/8"-24	9/16" to 11/16"-24	24	.141	.396	1.772	3/16	.150 80296
	5/16"; 3/8"-24	9/16" to 11/16"-24	24	.163	.437	2.244	1/4	.177 80297
	5/16"; 3/8"-24	9/16" to 11/16"-24	24	.263	.646	2.402	5/16	.272 80298
	3/8"-24	9/16" to 11/16"-24	24	.323	.771	2.874	3/8	.335 80299
1/4"-20	7/16"; 1/2"-20	3/4" to 1"-20	20	.192	.525	2.244	1/4	.201 80301
	7/16"; 1/2"-20	3/4" to 1"-20	20	.362	.875	2.874	3/8	.390 80302
	1/2"-20	3/4" to 1"-20	20	.437	1.025	3.150	1/2	.453 80303
	1/2"-20	3/4" to 1"-20	20	.685	1.525	4.016	3/4	.701 80304
5/16"-18	9/16"; 5/8"-18	11/16" to 1.11/16"-18	18	.242	.639	2.402	5/16	.260 80305
	9/16"; 5/8"-18	11/16" to 1.11/16"-18	18	.492	1.139	3.150	1/2	.512 80306
	5/8"-18	11/16" to 1.11/16"-18	18	.555	1.250	3.622	5/8	.575 80307
	3/4"-16		16	.301	.781	2.402	5/16	.315 80308
3/8"-16	3/4"-16		16	.669	1.528	4.016	3/4	.689 80309
	7/16"-14	7/8"-14	14	.354	.893	2.874	3/8	.370 80310
	1/2"-13		13	.407	.875	3.150	1/2	.430 80312
	9/16"-12	1" to 1.1/2"-12	12	.465	1.125	3.150	1/2	.484 80313
5/8"-11	1" to 1.1/2"-12		11	.516	1.318	3.622	5/8	.539 80315
	3/4"-10		10	.622	1.550	3.622	5/8	.657 80316
	7/8"-9		9	.746	1.833	4.016	3/4	.768 80317
	1"-8		8	.746	2.063	4.016	3/4	.866 80318

UNJ 60° - INTERNAL

2 x D₂

THREAD				PITCH	D	D2	L	Le	NO. OF FLUTES	TEETH	MIN. BORE	PART # VAR.
UNJC	UNJF	UNJEF	UNJ	TPI					Z			
#6	#10	#12	7/16"	32	3/16	.106	1.772	.297	3	9	.110	80106
-	1/4"	7/16"	9/16"	28	1/4	.213	2.244	.518	3	14	.220	81110
#10	5/16"	9/16"	-	24	3/16	.146	1.772	.396	3	9	.157	80108
-	5/16"	9/16"	-	24	5/16	.264	2.402	.646	3	15	.276	80109
1/4"	7/16"	3/4"	5/16"	20	1/4	.197	2.244	.525	3	10	.209	80110
-	7/16"	3/4"	9/16"	20	3/8	.371	2.874	.875	4	17	.394	80111
5/16"	9/16"	1.1/16"	-	18	5/16	.252	2.402	.639	3	11	.266	80112
3/8"	3/4"	-	7/16"	16	5/16	.303	2.402	.781	3	12	.319	80113
7/16"	7/8"	-	-	14	3/8	.362	2.874	.893	4	12	.374	80114
1/2"	-	-	-	13	3/8	.371	2.874	1.039	4	13	.433	80115

*Bore Diameter applies to smallest thread dia.

METRIC 60° - INTERNAL

1.5 x D₂

FOR THREADS		PITCH MM	D2	L1	L	D	MIN BORE	PART # - VAR.
M COARSE	M FINE							
M3x0.5	M3.5 to M16x0.5	0.5	.094	.187	1.772	3/16	.098	80337
M4x0.7		0.7	.124	.262	1.772	3/16	.129	80355
M5x0.8		0.8	.159	.299	2.244	3/16	.165	80356
M6x1.0	M8 to M40x1.0	1.0	.189	.374	2.244	1/4	.197	80343
M8x1.25		1.25	.256	.524	2.402	5/16	.268	80357
M10x1.5	M12 to M48x1.5	1.5	.323	.620	2.874	3/8	.335	80346
M12x1.75		1.75	.370	.724	2.874	3/8	.405	80358
M14x2.0	M17 to M80x2.0	2.0	.457	.827	2.874	1/2	.472	80351
M16x2.0	M17 to M80x2.0	2.0	.535	.984	3.622	5/8	.551	80353

METRIC 60° - INTERNAL

2 x D₂

FOR THREADS		PITCH MM	D2	L1	L	D	MIN BORE	PART # - VAR.
M COARSE	M FINE							
M3x0.5	M3.5 to M16x0.5	0.5	.094	.246	1.772	3/16	.098	80336
	M4x0.5	0.5	.126	.325	1.772	3/16	.138	80338
	M5x0.5	0.5	.165	.404	2.244	1/4	.177	80339
M4x0.7		0.7	.124	.344	1.772	3/16	.129	80284
	M6x0.75	0.75	.197	.487	2.244	1/4	.209	80340
M5x0.8		0.8	.159	.425	2.244	3/16	.165	80341
M6x1.0	M8 to M40x1.0	1.0	.189	.492	2.244	1/4	.197	80342
	M8x1.0	1.0	.264	.650	2.402	5/16	.276	80344
	M10x1.0	1.0	.343	.807	2.874	3/8	.354	80285
	M12x1.0	1.0	.421	.965	2.874	1/2	.433	80286
M8x1.25		1.25	.256	.664	2.402	5/16	.268	80287
	M10x1.25	1.25	.335	.812	2.874	3/8	.346	80345
M10x1.5	M12 to M48x1.5	1.5	.323	.797	2.874	3/8	.335	80288
	M12x1.5	1.5	.370	.974	2.874	3/8	.413	80347
	M14x1.5	1.5	.469	1.152	3.150	1/2	.492	80348
	M16x1.5	1.5	.547	1.270	3.150	5/8	.571	80349
M12x1.75		1.75	.370	.999	2.874	3/8	.405	80350
M14x2.0	M17 to M80x2.0	2.0	.457	1.142	3.150	1/2	.472	80289
M16x2.0	M17 to M80x2.0	2.0	.535	1.299	3.622	5/8	.551	80352
M18x2.5		2.5	.583	1.427	3.622	5/8	.598	80354
M20x2.5		2.5	.673	1.624	4.016	3/4	.687	80290
M24x3.0		3.0	.746	1.949	4.016	3/4	.827	80359

NPT External / Internal

THREAD SIZE	TPI	D2	L1	L	D	MIN BORE	PART # - VAR.
1/16"-27	27	.232	.389	2.244	1/4	.244	80321
1/8"-27	27	.301	.389	2.402	5/16	.330	80322
1/4"-18	18	.370	.583	2.874	3/8	.437	80323
3/8"-18	18	.439	.583	2.874	1/2	.562	80324
1/2", 3/4"-14	14	.561	.750	3.150	5/8	.704, .905	80325
1", 1.1/4", 1.1/2", 2"-11.5	11.5	.746	.913	4.016	3/4	1.411, 1.484, 1.732, 2.204	80326
2.1/2"-8, 3"-8	8	.746	1.313	4.016	3/4	2.625, 3.232	80327

NPTF External / Internal

THREAD SIZE	TPI	D2	L1	L	D	MIN BORE	PART # - VAR.
1/16"-27	27	.232	.389	2.244	1/4	.240	80328
1/8"-27	27	.301	.389	2.402	5/16	.330	80329
1/4"-18	18	.370	.583	2.874	3/8	.437	80330
3/8"-18	18	.439	.583	2.874	1/2	.562	80331
1/2", 3/4"-14	14	.561	.750	3.150	5/8	.704, .905	80332
1", 1.1/4", 1.1/2", 2"-11.5	11.5	.746	.913	4.016	3/4	1.411, 1.484, 1.720, 2.188	80333
2.1/2"-8, 3"-8	8	.746	1.313	4.016	3/4	2.610, 3.232	80334

ANPT External / Internal

THREAD	PITCH	DIMENSIONS INCH	NO. OF FLUTES	TEETH	MIN. BORE*	PART # - VAR.
STANDARD	TPI	D D2 L Le	Z	Zt	INCH	
1/4"x18	18	3/8 .370 2.874 .583	3	10	.437	81054
1/2", 3/4"x14	14	5/8 .561 3.150 .750	4	10	.704, .905	81055

*Bore Diameter applies to smallest thread dia.

NPS External / Internal

THREAD	PITCH	DIMENSIONS INCH	NO. OF FLUTES	TEETH	MIN. BORE*	PART # - VAR.
STANDARD	TPI	D D2 L Le	Z	Zt	INCH	
1/8"	27	5/16 .301 2.402 .389	3	10	.330	80116
1/4"	18	3/8 .370 2.874 .583	3	10	.437	80117
3/8"	18	1/2 .439 2.874 .583	4	10	.562	80118
1/2", 3/4"	14	5/8 .561 3.150 .750	4	10	.704, .905	80119
1", 2"	11.5	3/4 .746 4.016 .913	4	10	1.411, 2.204	80120

*Bore Diameter applies to smallest thread dia.

BSP (G) External / Internal 1.5 x D₂

THREAD	PITCH	DIMENSIONS INCH	NO. OF FLUTES	TEETH	MIN. BORE*	PART # - VAR.
STANDARD	TPI	D D2 L Le	Z	Zt	INCH	
1/16", 1/8"x28	28	5/16 .252 2.402 .480	3	13	.264	80386
1/8"x28	28	3/8 .323 2.874 .591	3	16	.324	80388
1/4", 3/8"x19	19	1/2 .433 2.874 .815	4	15	.465	80389
3/8"x19	19	5/8 .571 3.622 1.028	4	19	.602	80391
1/2"-4x11	11	3/4 .746 4.016 1.681	4	18	1.208	80393

BSP (G) External / Internal 2 x D₂

THREAD	PITCH	DIMENSIONS INCH					NO. OF FLUTES	TEETH	MIN. BORE*	PART #: VAR.
STANDARD	TPI	D	D2	L	Le	Z	Zt	INCH		
1/16", 1/8"x28	28	5/16	.252	2.402	.625	3	17	.264	80385	
1/8"x28	28	3/8	.323	2.874	.768	3	21	.324	80387	
1/4", 3/8"x19	19	1/2	.433	3.150	1.079	4	20	.465	80319	
3/8"x19	19	5/8	.571	3.622	1.342	4	25	.602	80390	
1/2"-7/8"x14	14	3/4	.705	4.016	1.678	4	23	.752	80392	



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STRAIGHT FLUTE TiCN COATED THREAD MILLS



ANPT External / Internal

THREAD	PITCH	DIMENSIONS INCH					NO. OF FLUTES	TEETH	PART #:
MIN. DIA.	TPI	D	D2	L	Le	Z	Zt		VAR-
1/4"	18	5/16	.310	2.480	.555	5	10		81056
1/2"	14	1/2	.470	3.268	.786	5	11		81057

BSPT 55° - External / Internal

THREAD	PITCH	DIMENSIONS INCH					NO. OF FLUTES	TEETH	PART #:
MIN. DIA.	TPI	D	D2	L	Le	Z	Zt		VAR-
1/16"	28	1/4	.240	2.244	.393	3	11		80072
1/4"	19	5/16	.310	2.480	.579	3	11		80077
1/4"	19	5/16	.310	2.480	.579	5	11		80235
1/2"	14	1/2	.470	3.268	.786	5	11		80078
1"	11	5/8	.620	3.622	1.545	5	17		80079

BSW 55° - External / Internal

THREAD	PITCH	DIMENSIONS INCH					NO. OF FLUTES	TEETH	PART #:
MIN. DIA.	TPI	D	D2	L	Le	Z	Zt		VAR-
1/4"	20	3/16	.160	1.654	.400	3	8		80059
5/16"	18	1/4	.200	2.244	.444	3	8		80060
3/8"	16	1/4	.240	2.244	.562	3	9		80061
7/16"	14	5/16	.310	2.480	.714	3	10		80062
7/16"	14	5/16	.310	2.480	.714	5	10		80232
1/2"	12	5/16	.310	2.480	.750	3	9		80063
1/2"	12	5/16	.310	2.480	.750	5	9		80447
5/8"	11	3/8	.370	2.835	.909	5	10		80064
3/4"	10	1/2	.470	3.268	1.100	5	11		80065
7/8"	9	1/2	.470	3.268	1.111	5	10		80066
1"	8	5/8	.620	3.622	1.500	5	12		80067
1 1/8"	7	5/8	.620	3.622	1.429	5	10		80068
1 3/8"	6	5/8	.620	3.622	1.500	5	9		80069
1 5/8"	5	3/4	.745	4.095	1.600	5	8		80070
1 7/8"	4.5	3/4	.745	4.095	1.555	5	7		80071

BSP 55° - External / Internal

THREAD	PITCH	DIMENSIONS INCH					NO. OF FLUTES	TEETH	PART #:
MIN. DIA.	TPI	D	D2	L	Le	Z	Zt		VAR-
1/16"	28	1/4	.240	2.244	.571	3	16		80076
1/4"	19	5/16	.310	2.480	.737	3	14		80073
1/4"	19	5/16	.310	2.480	.737	5	14		80234
1/2"	14	1/2	.470	3.268	1.143	5	16		80074
1"	11	5/8	.620	3.622	1.364	5	15		80075

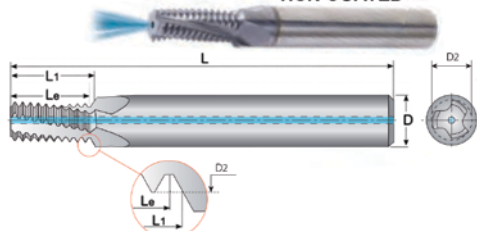
PG 80° - External / Internal

THREAD	PITCH	DIMENSIONS INCH					NO. OF FLUTES	TEETH	PART #:
MIN. DIA.	TPI	D	D2	L	Le	Z	Zt		VAR-
Pg7	20	5/16	.310	2.480	.750	3	15		80090
Pg7	20	5/16	.310	2.480	.750	5	15		80448
Pg9, 11, 13.5, 16	18	3/8	.370	2.835	.944	5	17		80091
Pg21, 29, 36, 42, 48	16	1/2	.470	3.268	1.125	5	18		80092

HELICOOL

**SOLID CARBIDE THREAD MILLS
WITH COOLANT THRU HOLE**

TiCN COATED



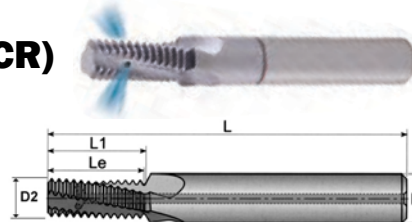
WHITWORTH 55° - External / Internal

FOR THREADS		TPI	D2	L1	L	D	MIN BORE	PART #:
BSW	BSF							VAR-
1/4"-20	1/4"-26	26	.197	.519	2.244	1/4	.209	80368
	5/16"-22	22	.250	.659	2.402	5/16	.264	80369
	3/8"-20	20	.175	.525	2.244	1/4	.197	80370
5/16"-18	3/8"-20	20	.301	.775	2.402	5/16	.323	80371
	7/16"-18	18	.230	.639	2.244	1/4	.256	80372
	7/16"-18	18	.362	.917	2.874	3/8	.382	80373
3/8"-16	1/2", 9/16"-16	16	.283	.781	2.402	5/16	.311	80374
	1/2", 9/16"-16	16	.413	1.031	2.874	1/2	.437	80375
	9/16"-16	16	.478	1.156	3.150	1/2	.496	80376
7/16"-14	5/8", 11/16"-14	14	.335	.893	2.874	3/8	.362	80377
	5/8", 11/16"-14	14	.528	1.250	3.150	5/8	.551	80378
	11/16"-14	14	.591	1.393	3.622	5/8	.614	80379
1/2"-12	3/4"-12	12	.362	1.042	2.874	3/8	.413	80380
	3/4"-12	12	.444	1.125	3.150	1/2	.476	80381
	3/4"-12	12	.622	1.542	3.622	5/8	.661	80382
9/16"-11	7/8"-11	11	.496	1.318	3.150	1/2	.528	80383
	7/8"-11	11	.559	1.409	3.622	5/8	.591	80384

VARDEX SOLID CARBIDE THREAD MILLS

HELICOOL-R (HCR)

HELICAL FLUTES WITH
RADIAL COOLING
TiCN COATED



UN 60° - Internal

FOR THREADS			TPI	D2	L1	L	D	MIN BORE	PART #:
UNC	UNF	UNEF							VAR-
#10-24	#10-32	#12 to 3/8"-32	32	.150	.391	1.772	3/16	.157	80458
	1/4"-28	7/16", 1/2"-28	28	.203	.518	2.244	1/4	.216	80459
	5/16", 3/8"-24	9/16" to 11/16"-24	24	.141	.396	1.772	3/16	.150	80460
#12-24	5/16", 3/8"-24	9/16" to 11/16"-24	24	.163	.437	1.772	3/16	.177	80461
	5/16", 3/8"-24	9/16" to 11/16"-24	24	.263	.646	2.402	5/16	.272	80462
	3/8"-24	9/16" to 11/16"-24	24	.323	.771	2.874	3/8	.335	80463
1/4"-20	7/16", 1/2"-20	3/4" to 1"-20	20	.192	.525	2.244	1/4	.201	80464
	1/2"-20	3/4" to 1"-20	20	.437	1.025	3.150	1/2	.453	80465
	5/16"-18	9/16", 5/8"-18	18	.242	.639	2.402	5/16	.260	80466
3/8"-16	3/4"-16	11/16" to 1 1/16"-18	16	.301	.781	2.402	5/16	.315	80467
	7/16"-14	7/8"-14	14	.354	.893	2.874	3/8	.370	80468
	1/2"-13		13	.407	1.039	3.150	1/2	.430	80469
9/16"-12	1" to 1 1/2"-12		12	.465	1.125	3.150	1/2	.484	80470

METRIC 60° - Internal

2 x D₂

THREAD	PITCH	D	D2	L	Le	NO. OF FLUTES	TEETH	MIN. BORE	PART #:
UNC	UNF	mm				Z	Zt		VAR-
M6x1.0	M8-M40x1.0	1.00	1/4	.189	2.244	.492	3	.197	81188
	M10x1.0	1.00	3/8	.343	2.874	.807	3	.354	81191
M8x1.25		1.25	5/16	.256	2.402	.664	3	.268	81189
M10x1.5	M12-M48x1.5	1.50	3/8	.323	2.874	.797	3	.335	81190
M12x1.75		1.75	3/8	.370	2.874	.999	3	.405	81192
M14x2.0	M17-M80x2.0	2.00	1/2	.457	3.150	1.142	4	.472	81193
M16x2.0		2.00	5/8	.535	3.622	1.299	4	.551	81194
M20x2.5		2.50	3/4	.673	4.016	1.624	4	.687	81195
M24x3.0		3.00	3/4	.746	4.016	1.949	4	.827	81196

NPT - External / Internal

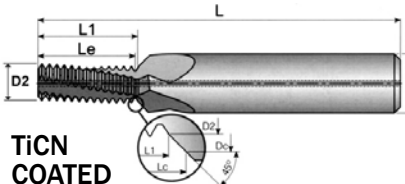
THREAD SIZE	TPI	D2	L1	L	D	BORE DIA	PART #:
							VAR-
1/16"-27	27	.232	.389	2.244	1/4	.244	80573
1/8"-27	27	.301	.389	2.402	5/16	.330	80574
1/4"-18	18	.370	.583	2.874	3/8	.437	80575
3/8"-18	18	.439	.583	2.874	1/2	.562	80576
1/2", 3/4"-14	14	.561	.750	3.150	5/8	.704, .905	80577
1", 1 1/4", 1 1/2", 2"-11.5	11.5	.746	.913	4.016	3/4	1.411, 1.484, 1.732, 2.204	80578
2 1/2", 3"-8	8	.746	1.313	4.016	3/4	2.625, 3.232	80579

NPTF - External / Internal

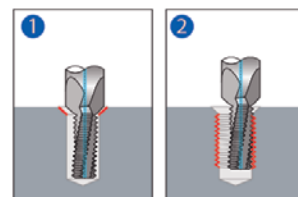
THREAD	PITCH	DIMENSIONS INCH					NO. OF FLUTES	TEETH	BORE DIA	PART #:
STANDARD	TPI	D	D2	L	Le	Z	Zt			VAR-
1/8"x27	27	5/16	.301	2.402	.389	3	10		.330	81197
1/4"x18	18	3/8	.370	2.874	.583	3	10		.437	81198
3/8"x18	18	1/2	.439	2.874	.583	4	10		.562	81199
1/2", 3/4"x14	14	5/8	.561	3.150	.750	4	10		.704, .905	81200

HELICOOL-C (HCC)

CHAMFER AND THREAD-MILL IN ONE



TiCN
COATED



Chamfering

Thread Milling

INTERNAL UN 60° ~ 2 x D₂

FOR THREADS			TPI	D2	L1	L	D	MIN BORE	PART # VAR-
UNC	UNF	UNEF							
#10-24 #12-24	#10-32	#12 to 3/8"-32	32	.150	.391	2.244	1/4	.157	80449
	1/4"-28	7/16", 1/2"-28	28	.203	.518	2.402	5/16	.216	80450
	5/16", 3/8"-24	9/16" to 11/16"-24	24	.141	.396	2.244	1/4	.150	80451
	5/16", 3/8"-24	9/16" to 11/16"-24	24	.163	.437	2.244	1/4	.177	80452
1/4"-20	5/16", 3/8"-24	9/16" to 11/16"-24	24	.263	.646	2.874	3/8	.272	80453
	3/8"-24	9/16" to 11/16"-24	24	.323	.771	3.150	1/2	.335	80454
	7/16", 1/2"-20	3/4" to 1"-20	20	.192	.525	2.402	5/16	.201	80455
	1/2"-20	3/4" to 1"-20	20	.437	1.025	3.622	5/8	.453	80456
5/16"-18	9/16", 5/8"-18	11/16" to 1.11/16"-18	18	.242	.639	2.874	3/8	.260	80457
3/8"-16	3/4"-16		16	.301	.781	3.150	1/2	.315	80528
7/16"-14	7/8"-14		14	.354	.893	3.150	1/2	.370	80529
1/2"-13			13	.407	1.039	3.622	5/8	.430	80530
9/16"-12	1" to 1.1/2"-12		12	.465	1.125	3.622	5/8	.484	80531

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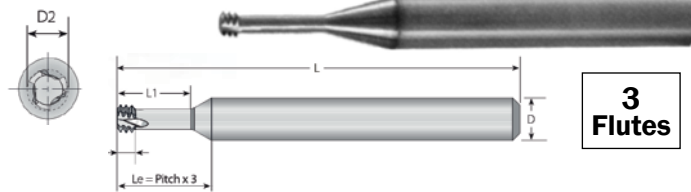
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VARDEX THREAD MILLING

MilliPro Long Overhang Miniature Threadmill



UN - INTERNAL - TiCN COATED - 2B 2 x D₂ (L₁ ≤ 2 x Thread Diameter)

THREAD SIZE		TPI	D2	L1	L	D	MIN BORE	PART #
UNC	UNF							VAR-
#1-72	#2-64	72	.057	.154	2.244	1/4	.059	80215
#2-64	#3-56	64	.055	.165	2.244	1/4	.059	80214
#3-56	#4-48	56	.065	.197	2.244	1/4	.071	80216
#4-48	#5-40	48	.075	.236	2.244	1/4	.079	80217
#5-40	#6-40	40	.083	.236	2.244	1/4	.090	80218
#6-40	#8-32	40	.096	.283	2.244	1/4	.102	80219
#8-32	#10-32	32	.130	.343	2.244	1/4	.138	80240
#10-32	#12-24	32	.100	.292	2.244	1/4	.110	80241
#12-24	#14-20	32	.126	.394	2.244	1/4	.134	80242
#14-20	#16-18	28	.207	.520	2.244	1/4	.216	80243
#16-18	#18-14	24	.141	.402	2.244	1/4	.150	80244
#18-14	#20-12	24	.263	.965	2.480	5/16	.272	80245
#20-12	#22-10	20	.192	.528	2.244	1/4	.201	80246
#22-10	#24-8	20	.375	.906	2.874	3/8	.390	80247
#24-8	#27-6	16	.264	.750	2.480	5/16	.315	80279
#27-6	#30-4	14	.354	.917	2.874	3/8	.370	80248

3 x D₂ (L₁ ≤ 3 x Thread Diameter)

THREAD SIZE		TPI	D2	L1	L	D	MIN BORE	PART #
UNC	UNF							VAR-
#1-72	#2-64	72	.057	.226	2.244	1/4	.059	80443
#2-64	#3-56	64	.055	.234	2.244	1/4	.091	80263
#3-56	#4-48	40	.083	.354	2.244	1/4	.102	80249
#4-48	#5-40	40	.096	.394	2.244	1/4	.110	80264
#5-40	#6-40	32	.100	.433	2.244	1/4	.134	80250
#6-40	#8-32	32	.126	.512	2.244	1/4	.216	80251
#8-32	#10-32	28	.207	.772	2.244	1/4	.272	80252
#10-32	#12-24	24	.263	.965	2.480	5/16	.201	80253
#12-24	#14-20	20	.192	.780	2.244	1/4		

METRIC - INTERNAL - TiCN COATED - 6H 2 x D₂ (L₁ ≤ 2 x Thread Diameter) WITH INCH SHANKS

THREAD SIZE		PITCH mm	D2	L1	L	D	MIN BORE	PART #
M COARSE	M FINE							VAR-
M1.6x0.35		0.35	.047	.134	1.181	1/8	.049	80660
M2x0.4		0.4	.061	.165	2.244	1/4	.063	80661
M2.5x0.45		0.45	.065	.181	2.244	1/4	.069	80662
M3x0.5		0.5	.077	.205	2.244	1/4	.081	80663
M3.5x0.6		0.6	.094	.244	2.244	1/4	.098	80664
M4x0.7		0.7	.108	.287	2.244	1/4	.114	80665
M5x0.8		0.8	.124	.327	2.244	1/4	.130	80666
M6x1.0		1.0	.159	.409	2.244	1/4	.165	80667
M8x1.25		1.25	.189	.492	2.244	1/4	.197	80668
M10x1.5		1.5	.256	.654	2.480	5/16	.268	80669
M12x1.75		1.75	.323	.819	2.874	3/8	.335	80670
M16x2.5		2.5	.371	.984	2.874	3/8	.406	80671

2 x D₂ (L₁ ≤ 2 x Thread Diameter) WITH MM SHANKS

THREAD SIZE		PITCH mm	D2 (mm)	L1	L	# Flutes Z	Teeth Zt	MIN BORE	PART #
M COARSE	M FINE								VAR-
M1.6x0.35		0.35	3	.05	1.18	.13	3	.05	80420
M2x0.4		0.4	6	.06	2.24	.17	3	.06	80254
M2.5x0.45		0.45	6	.06	2.24	.18	3	.07	80255
M3x0.5		0.5	6	.08	2.24	.20	3	.08	80256
M3.5x0.6		0.6	6	.09	2.24	.24	3	.10	80257
M4x0.7		0.7	6	.11	2.24	.29	3	.11	80258
M5x0.8		0.8	6	.12	2.24	.33	3	.13	80259
M6x1.0		1.0	6	.16	2.24	.41	3	.17	80260
M8x1.25		1.25	6	.19	2.24	.49	3	.20	80261
M10x1.5		1.5	10	.26	2.48	.65	3	.27	80262
M12x1.75		1.75	10	.32	2.87	.82	3	.33	80418
M16x2.0		2.0	10	.39	2.87	.98	3	.41	80419
M20x2.5		2.5	12	.47	3.27	1.30	3	.55	80963
M25x3.0		3.0	16	.63	3.62	1.63	3	.69	80962

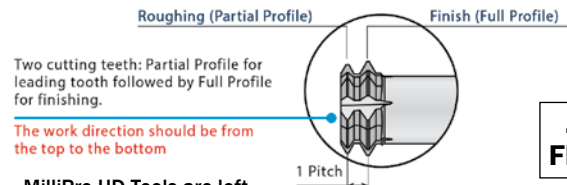
3 x D₂ (L₁ ≤ 3 x Thread Diameter) WITH INCH SHANKS*

THREAD SIZE		PITCH mm	D2	L1	L	D	MIN BORE	PART #
M COARSE	M FINE							VAR-
M1.6x0.35		0.35	.047	.197	1.181	1/8	.049	80672
M2x0.4		0.4	.061	.244	2.244	1/4	.063	80673
M2.5x0.45		0.45	.077	.276	2.244	1/4	.081	80674
M3x0.5		0.5	.094	.362	2.244	1/4	.098	80675
M4x0.7		0.7	.124	.484	2.244	1/4	.130	80676
M5x0.8		0.8	.159	.606	2.244	1/4	.165	80677
M6x1.0		1.0	.189	.728	2.244	1/4	.197	80678
M8x1.25		1.25	.256	.969	2.480	5/16	.268	80679

* FOR THREADMILLS WITH MM SHANKS SEE TABLE ON THE RIGHT.

MilliPro-HD

Miniature Thread Mills for Hard Materials up to 62 HRC



Two cutting teeth: Partial Profile for leading tooth followed by Full Profile for finishing.
The work direction should be from the top to the bottom

MilliPro HD Tools are left handed. For CNC use M04 code.

UN - INTERNAL - 2B LIMIT 2 x D₂ (L₁ ≤ 2 x Thread Diameter)

THREAD SIZE		TPI	D2	L1	L	D	MIN BORE	PART #
UNC	UNF							VAR-
#2-56	#3-56	56	.065	.21	3.00	1/4	.071	80936
#3-56	#4-48	48	.075	.26	3.00	1/4	.083	80937
#4-40, #5-40	#6-40	40	.083	.26	3.00	1/4	.093	80938
#5-40	#6-40	40	.096	.31	3.00	1/4	.104	80939
#6-32, #8-32	#8-36	36	.130	.37	3.00	1/4	.140	80940
#8-32	#10-32	32	.100	.32	3.00	1/4	.112	80941
#10-32	#12-24	32	.126	.42	3.00	1/4	.138	80942
#12-24	#14-20	32	.146	.43	3.00	1/4	.164	80943
#14-20	#16-18	28	.207	.56	3.00	1/4	.219	80944
#16-18	#18-14	24	.141	.44	3.00	1/4	.154	80945
#18-14	#20-12	24	.263	.69	3.15	5/16	.276	80946
#20-12	#22-10	20	.192	.58	3.00	1/4	.205	80947
#22-10	#24-8	20	.372	.96	4.00	3/8	.390	80948
#24-8	#27-6	16	.301	.84	3.15	5/16	.315	80949
#27-6	#30-4	14	.354	.99	4.00	3/8	.374	80950
#30-4	#36-3	13	.390	1.08	4.00	3/8	.429	80951

3 x D₂ (L₁ ≤ 3 x Thread Diameter)

THREAD SIZE		TPI	D2	L1	L	D	MIN BORE	PART #
UNC	UNF							VAR-
#4-40, #5-40	#6-40	40	.083	.38	3.00	1/4	.093	80952
#5-40	#6-40	40	.096	.41	3.00	1/4	.104	80953
#6-32, #8-32	#10-32	32	.100	.46	3.00	1/4	.111	80954
#8-32	#12-24	32	.126	.54	3.00	1/4	.136	80955
#12-24	#14-20	28	.207	.81	3.00	1/4	.219	80956
#14-20	#16-18	24	.263	1.01	3.15	5/16	.272	80957
#16-18	#18-14	20	.192	.83	3.00	1/4	.204	80958
#18-14	#20-12	14	.354	1.39	4.00	3/8	.375	80959

METRIC - INTERNAL - 6H LIMIT 2 x D₂ (L₁ ≤ 2 x Thread Diameter)

THREAD SIZE		PITCH mm	D2	L1	L	D	MIN BORE	PART #
M COARSE	M FINE							VAR-
M2x0.4		0.4	.061	.18	2.99	1/4	.063	80918
M2.5x0.45		0.45	.065	.20	2.99	1/4	.071	80919
M3x0.5		0.5	.077	.22	2.99	1/4	.081	80920
M3.5x0.6		0.6	.094	.27	2.99	1/4	.101	80921
M4x0.7		0.7	.124	.36	2.99	1/4	.116	80922
M5x0.8		0.8	.159	.44	2.99	1/4	.132	80923
M6x1.0		1.0	.189	.53	2.99	1/4	.169	80924
M8x1.25		1.25	.256	.70	3.15	5/16	.268	80925
M10x1.5		1.5	.308	.88	3.15	5/16	.339	80926
M12x1.75		1.75	.371	1.05	3.98	3/8	.409	80928

3 x D₂ (L₁ ≤ 3 x Thread Diameter)

THREAD SIZE		PITCH mm	D2	L1	L	D	MIN BORE	PART #
M COARSE	M FINE							VAR-
M2x0.4		0.4	.061	.26	2.99	1/4	.063	80929
M2.5x0.45		0.45	.077	.32	2.99	1/4	.081	80930
M3x0.5		0.5	.094	.38	2.99	1/4	.101	80931
M4x0.7		0.7	.124	.51	2.99	1/4	.132	80932
M5x0.8		0.8	.159	.64	2.99	1/4	.169	80933
M6x1.0		1.0	.189	.77	2.99	1/4	.201	80934
M8x1.25		1.25	.256	1.02	3.15	5/16	.268	80935

3 x D₂ (L₁ ≤ 3 x Thread Diameter) WITH MM SHANKS

THREAD SIZE		PITCH mm	D2 (mm)	L1	L	# Flutes Z	Teeth Zt	MIN BORE	PART #
M COARSE	M FINE								VAR-
M1.6x0.35		0.35	3	.05	1.18	.20	3	.05	80421
M2x0.4		0.4	6	.06	1.18	.24	3	.06	80966
M2.5x0.45		0.45	6	.06	2.24	.24	3	.06	80422
M3x0.5		0.5	6	.08	1.18	.30	3	.08	80964
M3.5x0.6		0.6	6	.08	2.24	.30	3	.08	80265
M4x0.7		0.7	6	.09	1.18	.36	3	.10	80965
M5x0.8		0.8	6	.09	2.24	.36	3	.10	80266
M6x1.0		1.0	6	.12	2.24	.48	3	.13	80267
M8x1.25		1.25	8	.16	2.24	.61	3	.17	80268
M10x1.5		1.5	10	.19	2.24	.73	3	.20	80269
M12x1.75		1.75	12	.26	2.48	.97	3	.27	80270



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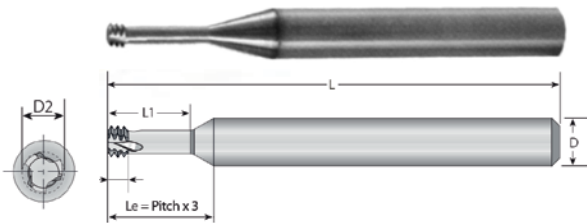
Houston
(713) 682-1889

Email
sales@basstool.com

Fax
(713) 681-4931

Toll Free
800-442-0042

VARDEX MillPro



UNJ - INTERNAL

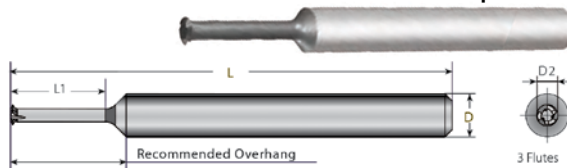
THREAD		TPI	D	D2	L	L1	MIN BORE	PART # VAR-
UNJC	UNJF							
.138" (#6)	.190" (#10)	32	1/4	.106	2.244	.433	.110	80436
-	.250" (1/4")	28	1/4	.213	2.244	.768	.220	80437
.190" (#10)	-	24	1/4	.146	2.244	.587	.157	80438
.250" (1/4")	.3125" (5/16")	20	5/16	.264	2.480	.949	.276	80439
-	-	20	1/4	.197	2.244	.768	.209	80445
.3125" (5/16")	.4375" (7/16")	20	3/8	.371	2.874	1.319	.394	80446
.375" (3/8")	.5625" (9/16")	18	5/16	.252	2.480	.949	.266	80961
.4375" (7/16")	.750" (3/4")	16	5/16	.303	2.480	1.142	.319	80879
.500" (1/2")	.875" (7/8")	14	3/8	.362	2.874	1.319	.374	80880
-	-	13	3/8	.371	2.874	1.516	.433	80881

METRIC MJ - INTERNAL

THREAD	PITCH	DIMENSIONS INCH				NO. OF FLUTES	TEETH	MIN. BORE	PART # VAR-
MJ	mm	D	D2	L	L1	Z	Zt		
MJ3x0.5	0.5	1/4	.094	2.244	.362	3	3	.102	80882
MJ3.5x0.6	0.6	1/4	.112	2.244	.433	3	3	.118	80883
MJ4x0.7	0.7	1/4	.124	2.244	.484	3	3	.134	80884
MJ5x0.8	0.8	1/4	.159	2.244	.606	3	3	.169	80885
MJ6x1.0	1.0	1/4	.189	2.244	.728	3	3	.201	80886
MJ8x1.25	1.25	5/16	.256	2.480	.969	3	3	.272	80887
MJ10x1.5	1.50	3/8	.323	2.874	1.213	3	3	.343	80888
MJ12x1.75	1.75	3/8	.371	2.874	1.457	3	3	.409	80889
MJ14x2	2.0	1/2	.469	3.268	1.673	3	3	.482	80890

VARDEX MillPro Dental

Miniature Thread Mills for Dental Implants



UN 60° - INTERNAL

3 x D₂

THREAD	PITCH	D (mm)	D2	L	L1	NO. OF FLUTES	TEETH	MIN. BORE	PART # VAR-
UNF	mm					Z	Zt		
0-80 UN	80	3	.045	1.220	.181	3	1	.051	80283
1-72 UN	72	3	.057	1.220	.256	3	1	.063	80413

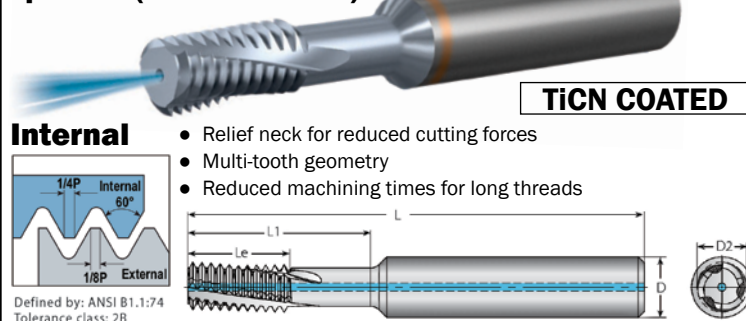
METRIC 60° - INTERNAL

3 x D₂

THREAD	PITCH	D (mm)	D2	L	L1	NO. OF FLUTES	TEETH	MIN. BORE	PART # VAR-
M Coarse	M Fine	mm				Z	Zt		
M1.0x0.25	M1.4x0.25	0.25	3	.028	1.220	.122	3	.030	80210
M1.2x0.25	M1.4x0.25	0.25	3	.035	1.220	.150	3	.037	80211
M1.4x0.3	-	0.30	3	.041	1.220	.173	3	.045	80212
M1.6x0.35	-	0.35	3	.047	1.220	.197	3	.051	80213
M1.8x0.35	M2.0x0.35	0.35	3	.055	1.220	.220	3	.059	80280
M2.0x0.4	-	0.40	3	.059	1.220	.244	3	.065	80281
M2.5x0.45	-	0.45	3	.077	1.220	.303	3	.083	80282

VARDEX TM Solid HCN For Long Threads

Up to 3xD (Thread Diameter)



Internal

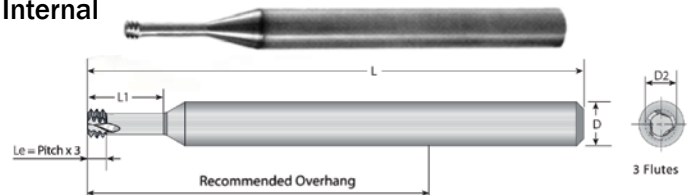
- Relief neck for reduced cutting forces
- Multi-tooth geometry
- Reduced machining times for long threads

Defined by: ANSI B1.1:74
Tolerance class: 2B

MillPro EL - EXTRA LONG

Miniature Thread Mills, Extra Long Tools Internal

3 Flute



American UN Defined by: ANSI B1.1:74 Tolerance class: 2B

THREAD		PITCH	DIMENSIONS				MIN. BORE DIA..	PART# VAR.
UNC	UNF	TPI	D	D2	L	L1	INCH	
2-56	3-56	56	1/4	.065	3.937	.197	.071	80430
4-40, 5-40	6-40	40	1/4	.083	3.937	.236	.091	80431
6-32, 8-32	10-32	32	1/4	.100	3.937	.291	.110	80432
8-32	10-32	32	1/4	.126	3.937	.394	.134	80433

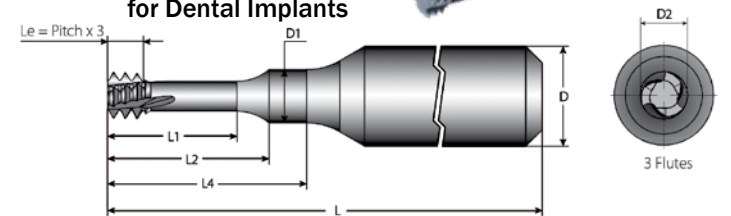
ISO Metric Defined by: R262 (DIN 13)

Tolerance class: 6H

THREAD		PITCH	DIMENSIONS				MIN. BORE	PART# VAR-
M COARSE	M FINE	mm	D	D2	L	L1	INCH	
M2x0.4		0.4	1/4	.061	3.937	.165	.063	80426
M2.5x0.45		0.45	1/4	.077	3.937	.205	.081	80428
M3x0.5	M3.5-M16x0.5	0.5	1/4	.094	3.937	.244	.098	80429

VARDEX MillPro Dental

Miniature Thread Mills for Dental Implants



UN 60° - INTERNAL

3 x D₂ (L₄ ≥ 3 x Thread Dia.)

THREAD	PITCH	D (mm)	D2	L	L1	L2	L4	D1	NO. OF FLUTES	TEETH	MIN. BORE	PART # VAR-
UNF	TPI								Z	Zt		
0-80 UN	80	3	.046	1.535	.110	.142	.197	.045	3	3	.050	80202
1-72 UN	72	3	.057	1.535	.154	.193	.256	.063	3	3	.061	80205

METRIC 60° - INTERNAL

3 x D₂ (L₄ ≥ 3 x Thread Dia.)

THREAD	PITCH	D (mm)	D2	L	L1	L2	L4	D1	NO. OF FLUTES	TEETH	MIN. BORE	PART # VAR-
M Coarse	M Fine	mm							Z	Zt		
M1.2x0.25	M1.4x0.25	0.25	.035	.098	.130	.169	.037	.110	3	3	.038	80200
M1.4x0.30	-	0.30	.041	.110	.138	.197	.041	.110	3	3	.044	80201
M1.6x0.35	M1.8x0.35	0.35	.047	.130	.165	.232	.049	.130	3	3	.050	80203
M1.8x0.35	M2.0x0.35	0.35	.055	.150	.185	.260	.057	.150	3	3	.058	80204
M2.0x0.4	-	0.4	.061	.154	.193	.264	.067	.154	3	3	.064	80206
M2.5x0.45	-	0.45	.077	.189	.228	.323	.079	.189	3	3	.082	80207

VTH Grade: A general-purpose, heavy duty thread milling grade

TiCN coated for high resistance to wear

Helical Flutes with Relief Neck and Thru-Hole Coolant

THREAD SIZE			PITCH	Dimensions Inch					# FL	Teeth	Min. Bore Dia	PART# VAR-
UNC	UNF	UNEF	TPI	D	D2	L	Le	L1	Z	Zt	Inch	
#10-24 #12-24	#10-32	#12-3/8"-32	32	3/16	.150	2.008	.314	.570	3	10	.157	81165
	1/4"-28	7/16", 1/2"-28	28	1/4	.203	2.480	.394	.750	3	11	.216	81166
	5/16", 3/8"-24	9/16"-11/16"-24	24	3/16	.141	2.008	.333	.570	3	8	.150	81167
	5/16", 3/8"-24	9/16"-11/16"-24	24	3/16	.163	2.008	.378	.648	3	9	.177	81168
1/4"-20	5/16", 3/8"-24	9/16"-11/16"-24	24	5/16	.263	2.598	.501	.938	3	12	.272	81169
	3/8"-24	9/16"-11/16"-24	24	3/8	.323	3.071	.585	1.125	3	14	.335	81170
	7/16", 1/2"-20	3/4"-1"-20	20	1/4	.192	3.504	.402	.750	3	8	.201	81171
	1/2"-20	3/4"-1"-20	20	1/2	.437	3.622	.802	1.500	4	16	.453	81172
5/16"-18 3/8"-16 7/16"-14 1/2"-13 9/16"-12	9/16", 5/8"-18	1 1/16"-1.11/16"-18	18	5/16	.242	2.598	.500	.938	3	9	.260	81173
	3/4"-16		16	5/16	.301	2.756	.626	1.125	3	10	.315	81174
	7/16"-14	7/8"-14	14	3/8	.354	3.031	.715	1.314	3	10	.370	81175
			13	1/2	.407	3.622	.771	1.500	4	10	.429	81176
	1"-1.1/2"-12		12	1/2	.465	3.622	.917	1.686	4	11	.484	81177

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VARDEX THREAD MILLING

TMDR

DRILLING, THREAD MILLING & CHAMFERING

3-in-1 Tool for Reduced Cycle Times and Productivity

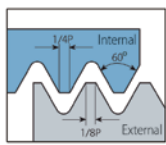
- TMDR tools drill, thread and chamfer all in one tooling operation
- Pre-drilled holes are no longer required!
- Drilling and thread milling is done simultaneously, while chamfering is produced at the end of the operation
- This versatile tool also works on components with pre-drilled holes, such as:
blind holes, through holes, and even semi-finished holes
- Thread lengths: 2xD and 2.5xD (Thread Diameter)
- All tools are left handed, and are suitable for right and left hand threads

OFFERED WITH OR
WITHOUT COOLANT HOLE

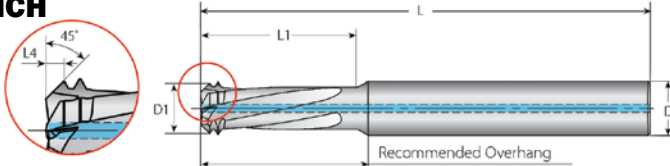
SHOWN WITH COOLANT HOLE

TMDR Tools are left handed.
For CNC use M04 code.

Internal - INCH



Defined by: ANSI B1.1:74
Tolerance class: 2B



NOTE: FOR TOOLS WITH COOLANT HOLE CHOOSE THE PROPER PART# BELOW

UN - INTERNAL THREADS WITH INCH SHANKS

STYLE	THREAD SIZE			TPI	D	D2	L	L1	# FL	# TEETH	L4	D1	PART# VAR.
	UNC	UNF	UN										
2XD	Without coolant												
	#4-40, #5-40	#6-40		40	1/4	.083	2.283	.283	3	2	.015	.069	80130
	#6-32, #8-32			32	1/4	.102	2.283	.339	3	2	.018	.087	81132
	#8-32	#10-32		32	1/4	.118	2.283	.394	3	2	.024	.103	81134
	#10-24, #12-24	5/16"-28		28	1/4	.197	2.283	.567	3	2	.027	.180	81139
	1/4"-20	5/16"-20		20	1/4	.138	2.283	.449	3	2	.031	.125	81136
	With coolant												
	1/4"-20	5/16"-28		28	5/16	.197	2.520	.567	3	2	.027	.180	81145
	5/16"-18	5/16"-20		20	5/16	.189	2.520	.571	3	2	.031	.169	81140
	3/8"-16	7/16"-16		18	5/16	.236	2.520	.705	4	2	.040	.215	81144
	1/2"-13			16	5/16	.264	2.520	.848	4	2	.043	.243	81143
	5/8"-11			13	3/8	.362	3.150	1.122	4	2	.050	.330	81181
2.5XD	Without coolant												
	#4-40, #5-40	#6-40		40	1/4	.083	2.283	.346	3	2	.015	.069	81131
	#6-32, #8-32			32	1/4	.102	2.283	.413	3	2	.018	.087	81133
	#8-32	#10-32		32	1/4	.118	2.283	.480	3	2	.024	.103	81135
	1/4"-20	5/16"-20		20	1/4	.189	2.283	.709	3	2	.031	.169	81138
	With coolant												
	1/4"-20	5/16"-20		20	5/16	.189	2.520	.709	3	2	.031	.169	81146
	5/16"-18			18	5/16	.236	2.520	.872	4	2	.040	.215	81180
	1/2"-13			13	3/8	.362	3.150	1.372	4	2	.050	.330	81182
	5/8"-11			11	1/2	.449	3.940	1.944	4	2	.059	.415	81184
	3/4"-10			10	5/8	.583	4.330	2.048	4	2	.070	.522	81185
	Without coolant												
	No.4-48			48	1/4	.090	2.283	.311	3	2	.016	.063	81210
	No.5-44			44	1/4	.100	2.283	.347	3	2	.016	.071	81203
	No.8-36			36	1/4	.131	2.283	.452	3	2	.020	.094	81211
	No.10-24UN	No.10-36		24	1/4	.152	2.283	.538	3	2	.032	.098	81204
1/4"x20	Without coolant												
	1/4"x28	5/16"x28		28	5/16	.197	2.520	.701	3	2	.027	.180	81067
	5/16"x24, 3/8"x24			24	5/16	.250	2.520	.844	4	2	.032	.193	81212
	3/8"x24	7/16"x24, 1/2"x24		24	5/16	.300	2.520	1.000	4	2	.032	.208	81205
		5/16"x20		20	5/16	.189	2.520	.709	3	2	.031	.169	81146
		9/16"x20		20	3/8	.350	3.150	1.169	4	2	.032	.283	81206
		1/2"x20		20	1/2	.400	3.937	1.325	4	2	.032	.335	81207
		9/16"x18, 5/8"x18		18	1/2	.450	3.937	1.490	4	2	.040	.374	81208
		3/4"x18, 7/8"x18		18	5/8	.500	5.315	1.646	6	2	.040	.429	81209
		13/16"x1, 1-1/16"x16		16	5/8	.600	5.315	1.969	6	2	.044	.520	81215
		7/16"x16		16	5/16	.264	2.520	1.024	4	2	.043	.243	81068
		1/2"x14		14	3/8	.350	3.150	1.201	4	2	.048	.264	81213
		5/8"-3/4"x12		12	1/2	.450	3.937	1.531	4	2	.056	.350	81214

UN - INTERNAL THREADS WITH METRIC (MM) SHANKS

STYLE	THREAD SIZE			TPI	D	D2	L	L1	# FL	# TEETH	L4	D1	PART# VAR.
	UNC	UNF	UN										
2XD	Without coolant												
	#4-40, #5-40	#6-40		40	6	.083	2.284	.284	3	2	.015	.069	81147
	#6-32, #8-32			32	6	.102	2.284	.339	3	2	.018	.087	81148
	#8-32	#10-32		32	6	.118	2.284	.394	3	2	.024	.103	81149
	#10-24, #12-24	5/16"-28		28	6	.197	2.284	.567	3	2	.027	.180	81150
	1/4"-20	5/16"-20		20	6	.138	2.284	.449	3	2	.032	.125	81151
	With coolant												
	1/4"-28	5/16"-24		28	8	.197	2.520	.567	3	2	.027	.180	81153
	5/16"-24, 3/8"-24	5/16"-20		24	8	.256	2.520	.693	3	2	.034	.237	81154
	1/4"-20	5/16"-20		20	8	.189	2.520	.571	3	2	.032	.169	81155
	Without coolant												
	#4-40, #5-40	#6-40		40	6	.083	2.284	.347	3	2	.015	.069	81156
2.5XD	Without coolant												
	#6-32, #8-32			32	6	.102	2.284	.413	3	2	.018	.087	81157
	#8-32	#10-32		32	6	.118	2.284	.480	3	2	.024	.103	81158
	1/4"-20	5/16"-28		28	6	.197	2.284	.701	3	2	.027	.180	81159
	1/4"-20	5/16"-20		20	6	.189	2.284	.709	3	2	.032	.169	81160
	With coolant												
	1/4"-28	5/16"-28		28	8	.197	2.520	.701	3	2	.027	.180	81161
	5/16"-24, 3/8"-24	5/16"-20		24	8	.256	2.520	.858	3	2	.034	.237	81162
	1/4"-20	5/16"-20		20	8	.189	2.520	.709	3	2	.032	.169	81163
	3/8"-16	7/16"-16		16	8	.264	2.520	1.024	4	2	.043	.243	81164

METRIC INTERNAL - WITH MM SHANKS

STYLE	THREAD SIZE		PITCH mm	D (mm)	D2	L	L1	# FL	# TEETH	L4	D1	PART# VAR.
	M Coarse	M Fine										
2XD	Without coolant											
	M3x0.5	M4x0.5	0.50	6	.094	2.283	.276	3	2	.016	.082	81117
	M4x0.7		0.70	6	.126	2.283	.362	3	2	.022	.113	81119
	M5x0.8		0.80	6	.154	2.283	.453	3	2	.028	.138	81120
	M6-M7x1.0	M8-M9x1.0	1.00	6	.185	2.283	.551	3	2	.031	.164	81122
	With coolant											
	M6-M7x1.0	M8-M9x1.0	1.00	8	.185	2.520	.551	3	2	.031	.164	81124
	M8x1.25	M9-M12x1.25	1.25	8	.240	2.520	.709	4	2	.035	.219	81126
	M10x1.5	M11-15x1.5	1.50	8	.307	2.520	.906	4	2	.044	.285	81116
	M12x1.75		1.75	10	.354	3.150	1.024	4	2	.047	.329	81128
	M16x2.0	M17-M23x2.0	2.00	12	.465	3.937	1.378	4	2	.079	.438	81129
	M18-M22x2.5		2.50	16	.591	5.315	1.756	4	2	.089	.554	81178
2.5XD	Without coolant											
	M3x0.5	M4x0.5	0.50	6	.094	2.283	.335	3	2	.40	2.08	81118
	M4x0.7		0.70	6	.126	2.283	.441	3	2	.57	2.88	81115
	M5x0.8		0.80	6	.154	2.283	.567	3	2	.70	3.51	81121
	M6-M7x1.0	M8-M9x1.0	1.00	6	.185	2.283	.669	3	2	.79	4.16	81123
	With coolant											
	M6-M7x1.0	M8-M9x1.0	1.00	8	.185	2.520	.669	3	2	.79	4.16	81125
	M8x1.25	M9-M12x1.25	1.25	8	.240	2.520	.866	4	2	.90	5.57	81127
	M18-M22x2.5		2.50	16	.591	5.315	2.150	4	2	.089	.554	81179
	M10x1.5	M11-M14x1.5	1.50	8	.307	2.520	1.102	4	2	.044	.285	81063
	M12x1.75		1.75	10	.354	3.150	1.260	4	2	.047	.329	81064
	M24x3.0		3.00	18	.701	5.315	2.559	4	2	.098	.665	81066

BSPT - INTERNAL/EXTERNAL

THREAD	PITCH	D	D2	L	L1	# FL	# TEETH	L4	D1	PART# VAR.
Standard	TPI	(mm)								
With coolant										
1/16"x28 BSPT	28	6	.211	2.283	.669	3	2	.028	.157	81216
1/8"x28 BSPT	28	8	.266	2.520	.825	4	2	.028	.213	81217
1/4"x19 BSPT	19	10	.360	3.937	1.122	4	2	.039	.284	81218
3/8"x19 BSPT	19	12	.456	3.937	1.399	4	2	.039	.381	81219
1/2"x14 BSPT	14	16	.574	5.315	1.772	6	2	.053	.474	81220

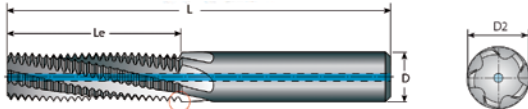
BASS TOOL & SUPPLY, INC.

2300 Fairway Park Dr.

Houston, TX 77092

VARDEX MultiFlute SOLID CARBIDE THREAD MILLS

Helical Flutes with Thru-Hole Coolant



INTERNAL

2 x D₂

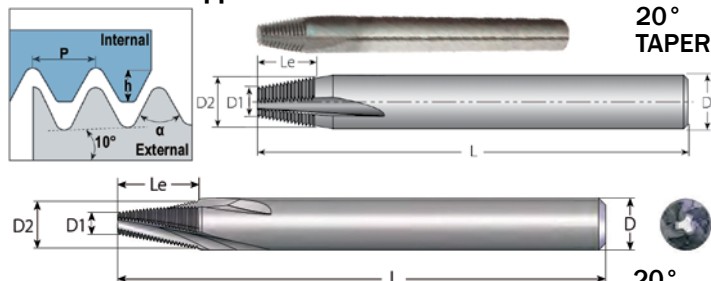
THREAD SIZE			TPI	D	D2	L	Le	# FL	# TEETH	MIN. BORE	PART# VAR-
UNC	UNF	UNEF									
No.10-32	5/16"-3/8"x24	7/16"-1/2"x28	32	3/16	.150	1.772	.391	6	12	.157	80042
1/4"-20	7/16"-1/2"x20	3/4"-1"x20	20	1/4	.192	2.244	.518	6	14	.216	80052
5/16"x18	9/16"-5/8"x18	1 1/16"-1 1/16"x18	18	5/16	.242	2.402	.639	6	11	.260	80093
3/8"x16	7/8"x14		16	3/8	.354	2.874	.893	6	12	.370	80095
7/16"x14			14	7/16	.407	3.150	1.039	6	13	.429	80096
1/2"x13			12	1/2	.465	3.150	1.125	6	13	.484	80097
9/16"x12	1"-1 1/2"x12		11	5/8	.516	3.622	1.318	6	14	.539	80098
5/8"x11			10	5/8	.622	3.622	1.550	7	15	.657	80099
3/4"x10			9	3/4	.746	4.016	1.833	7	16	.768	80100
7/8"x9			8	3/4	.746	4.016	2.063	7	16	.866	80101
1"x8											80104
											80125
											80126

3 x D₂

THREAD SIZE			TPI	D	D2	L	Le	# FL	# TEETH	MIN. BORE	PART# VAR-
UNC	UNF	UNEF									
No.10-32	5/16"-3/8"x24	7/16"-1/2"x28	32	3/16	.150	1.969	.579	5	18	.157	80128
1/4"-20	7/16"-1/2"x20	3/4"-1"x20	20	1/4	.192	2.441	.768	5	21	.216	80129
5/16"x18	9/16"-5/8"x18	1 1/16"-1 1/16"x18	18	5/16	.242	2.756	.975	5	17	.260	80130
3/8"x16	7/8"x14		16	3/8	.354	3.150	1.319	5	18	.370	80131
7/16"x14			14	7/16	.407	3.622	1.577	5	20	.429	80132
1/2"x13			12	1/2	.465	3.622	1.709	5	20	.484	80133
9/16"x12	1"-1 1/2"x12		11	5/8	.516	4.252	1.954	5	21	.539	80134
5/8"x11			10	5/8	.622	4.252	2.350	5	23	.657	80135
3/4"x10			9	3/4	.746	4.921	2.722	5	24	.768	80136
7/8"x9			8	3/4	.746	5.315	3.060	5	24	.866	80137
1"x8											80138
											80139
											80140

VARDEX Tap 60°, Tap 55°

For Bone Plate Application - Internal



HELICAL FLUTE & STRAIGHT FLUTE

THREAD ANGLE	PITCH mm	Profile Height h	D (mm)	D2	D1	L	Le	# FL	# TEETH	PART# VAR-	
										STRAIGHT FLUTE	HELICAL FLUTE
60°	0.4	.008	6	.232	.126	2.244	.315	3	20	80975	101-00148
	0.5	.010	6	.232	.114	2.244	.354	3	18	80976	101-00149
	0.3	.007	3	.110	.059	1.496	.154	3	13	80977	101-00150
55°	0.35	.008	4	.154	.071	1.772	.248	3	18	80978	101-00151
	0.4	.011	6	.232	.098	2.244	.394	3	25	80979	101-00152
	0.5	.013	6	.232	.114	2.244	.354	3	18	80980	101-00153
	0.6	.019	6	.232	.150	2.244	.260	3	11	80981	101-00147

BUY 2*, SAVE 32%

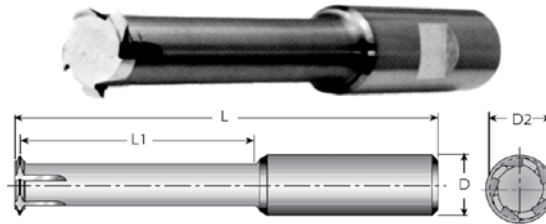
BUY 4*, SAVE 40%

* SAME SIZE

VARDEX

DEEP THREADING LONG
TOOLS FOR DEEP HOLES

- TiCN COATED
- 2B
- INTERNAL



UN-60° FULL PROFILE

THREAD SIZE			TPI	D2	L1	L	D	Z*	MIN BORE	PART # VAR-
UNC	UNF	UNEF								
1/4"-20	-	-	20	.157	.787	2.480	5/16	3	.205	80220
-	1/4"-28	-	28	.181	.787	2.480	5/16	3	.217	80271
5/16"-18	-	-	18	.205	.984	2.874	3/8	3	.256	80221
-	5/16"-24	-	24	.224	.984	2.874	3/8	3	.268	80272
3/8"-16	-	-	16	.264	1.181	2.874	3/8	3	.315	80222
-	3/8"-24	-	24	.291	1.181	2.874	3/8	3	.335	80273
7/16"-14	-	-	14	.299	1.378	3.268	1/2	4	.366	80274
-	7/16"-20	-	20	.335	1.378	3.268	1/2	4	.386	80275
1/2"-13	-	-	13	.350	1.575	3.268	1/2	4	.425	80223
-	1/2"-20	-	20	.398	1.575	3.268	1/2	4	.453	80276
9/16"-12	-	-	12	.406	1.772	3.780	5/8	4	.484	80224
-	9/16"-18	-	18	.445	1.772	3.780	5/8	4	.504	80277
5/8"-11	-	-	11	.433	1.969	3.976	5/8	4	.531	80225
-	5/8"-18	-	18	.504	1.969	3.976	5/8	4	.571	80278
3/4"-10	-	-	10	.531	2.362	4.370	5/8	5	.650	80226
-	3/4"-16	-	16	.610	2.362	4.370	5/8	5	.689	80227

UN & ISO 60° PARTIAL PROFILE

MIN THREAD			PITCH		PART# VAR-	DIMENSIONS				
MM COARSE	MM FINE	UN, UNS, UNF, UNEF	mm	tpi		D	D2	L	L1	Z*
M5x0.8	M5x0.5, M5x0.75	10-56UNS, 10-48UNS, 10-40UNS, 10-36UNS, 10-32UNF	0.5-0.8	32-56	80414	3/16	.154	1.750	0.63	4
M6x1.0	M6x0.5, M6x0.75	12-56UNS, 12-48UNS, 1/4-40UNS, 1/4-36UNS, 1/4-32UNEF, 1/4-28UNF, 1/4-24UNS	0.5-1.0	24-56	80415	1/4	.191	2.000	0.79	5
M8x1.25	M7x0.5, M7x0.75, M7.5x1.0	5/16-48UNS, 5/16-40UNS, 5/16-36UNS, 5/16-32UNEF, 5/16-28UN, 5/16-27UNS, 5/16-24UNS, 5/16-20UN	0.5-1.25	20-48	80416	1/4	.232	2.500	1.00	5
---	M10.5x0.5, M11x0.75, M11x1.0	7/16-32UN, 7/16-28UNEF, 7/16-27UNS, 7/16-24UNS	0.5-1.0	24-56	80417	3/8	.39	3.000	1.38	6
M10x1.5	M10x1.0, M10x1.25	3/8-24UNF, 3/8-20UN, 7/16-18UNS, 7/16-16UN	1.0-1.50	16-24	80423	5/16	.311	2.500	1.26	6
M12x1.75	M12x1.0, M12x1.25, M12x1.5	1/2-24UNS, 1/2-20UNS, 1/2-18UNS, 1/2-16UNS, 1/2-14UNS	1.0-1.75	14-24	80424	3/8	.39	3.000	1.50	6
---	M13.5x1.0, M14x1.25, M14x1.5	9/16-24UNEF	1.0-1.75	14-24	80425	1/2	.469	3.250	1.77	6

*Z = No. of flutes