



# EXOCARB® Thread Mill

Ideal for Steels, Exotics and Difficult to Machine Materials

## List 41200 **NEW!**

<b>SPEED FEED</b> P450	<b>CARBIDE</b>	<b>SS</b>	<b>WXS®</b>	<b>11°</b>	<b>SHRINK</b> h6
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Miniature, Helical Flute



Size	Threads Per Inch	Cutter Dia.	Overall Length	Length of Cut	Neck Length	Shank Dia.	No. of Flutes	Type	EDP Number
		D	L	Lc	L1	d			
0	80	0.045	1.625	0.013	0.165	1/8	3	5	4120000115
1	72	0.055	1.625	0.016	0.198	1/8	3	5	4120000313
1	64	0.055	1.625	0.014	0.196	1/8	3	5	4120000213
2, 3	56	0.064	1.661	0.054	0.190	1/4	3	6	4120000413
2	64	0.064	1.661	0.047	0.187	1/4	3	6	4120000513
3, 4	48	0.074	1.661	0.063	0.219	1/4	3	6	4120000613
4, 5, 6	40	0.083	1.661	0.075	0.249	1/4	3	6	4120000713
5	44	0.096	1.661	0.068	0.273	1/4	3	6	4120000813
6, 8	32	0.103	1.661	0.094	0.307	1/4	3	6	4120000913
8	36	0.129	1.661	0.083	0.356	1/4	3	6	4120001013

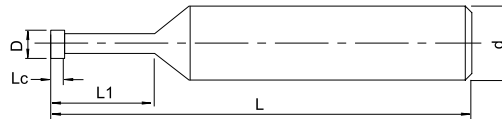
Packed: 1 pc.  
Available SS (D ≤ 0.055) and WXS® (D ≥ 0.064) only.  
For internal threads only.



**Type 5**  
(Lc=1 Thread)



**Type 6**  
(Lc=3 Threads)



For more information on thread mill applications, including "Nezilla" software, visit [www.osgtool.com](http://www.osgtool.com).  
Please contact customer service if you would like to request the thread mill program on CD-ROM.

### Work Material

List No.	Aluminum		Cast Iron	CoCr	Carbon Steel	Alloy & Die Steels	Ductile Cast Iron	MMC	Copper Alloys	Fiberglass	High Heat Material		Stainless Steels			Hardened Steels		
	6061	7075									Ti-Alloy	Inconel & Waspaloy	300	400	17-4PH	~55 HRC	55-60 HRC	60-65 HRC
<b>41200</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

good  best





## List 41300 **NEW!**

<b>SPEED FEED</b> P450	<b>CARBIDE</b>	<b>SS</b>	<b>WXS®</b>	<b>11°</b>	<b>SHRINK</b> h6
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Miniature, Helical Flute



Size	Pitch	Cutter Dia.	Overall Length	Length of Cut	Neck Length	Shank Dia.	No. of Flutes	Type	EDP Number
		D	L	Lc	L1	d			
M1	0.25	0.72	40	0.25	2.75	3	3	5	3900495
M1.2	0.25	0.92	40	0.25	3.25	3	3	5	3900496
M1.4	0.30	1.05	40	0.30	3.80	3	3	5	3900497
M1.6	0.35	1.20	40	0.35	4.35	3	3	5	3900498
M1.7, M1.8	0.35	1.30	40	0.35	4.85	3	3	5	3900499
M2	0.40	1.50	40	1.20	4.40	6	3	6	3900500
M2.5, M2.6	0.45	1.90	40	1.40	5.60	6	3	6	3900501
M3	0.50	2.50	40	1.50	6.50	6	3	6	3900502
M4	0.70	3.10	40	2.10	8.70	6	3	6	3900503
M5	0.80	4.00	40	2.40	10.80	6	3	6	3900504

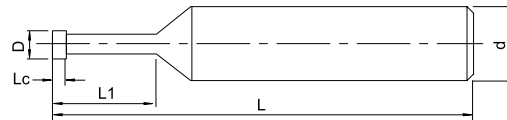
Packed: 1 pc.  
Available SS (D ≤ 0.055) and WXS® (D ≥ 0.064) only.  
For internal threads only.



**Type 5**  
(Lc=1 Thread)



**Type 6**  
(Lc=3 Threads)



For more information on thread mill applications, including "Nezilla" software, visit [www.osgtool.com](http://www.osgtool.com).  
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### Work Material

List No.	Aluminum		Cast Iron	CoCr	Carbon Steel	Alloy & Die Steels	Ductile Cast Iron	MMC	Copper Alloys	Fiberglass	High Heat Material		Stainless Steels			Hardened Steels		
	6061	7075									Ti-Alloy	Inconel & Waspaloy	300	400	17-4PH	~55 HRC	55-60 HRC	60-65 HRC
<b>41300</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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# EXOCARB® Thread Mill

Ideal for Steels, Exotics and Difficult to Machine Materials

## List 41000



UNC/UNF/UNEF/UNS, Regular & Long Length, Helical Flute



Size	Threads Per Inch				Cutter Diameter	Overall Length	Length of Cut	Neck Length	Shank Diameter	No. of Flutes	Type	EDP Number
	UNC	UNF	UNEF	UNS	D	L	Lc	L1	d			
10	24	-	-	-	0.130	2.5	0.396	0.440	3/16	3	1	4100000411
10	-	32	-	-	0.130	2.5	0.391	0.440	3/16	3	1	4100000511
12	24	-	-	-	0.160	3	0.354	0.370	1/4	3	1	4100000611
12	-	28	-	-	0.160	3	0.339	0.360	1/4	3	1	4100000711
1/4	20	-	-	-	0.180	3	0.425	0.450	1/4	3	1	4100000811
1/4	-	28	-	-	0.180	3	0.411	0.430	1/4	3	1	4100000911
1/4	-	-	32	-	0.190	3	0.390	0.410	1/4	3	1	4100002811
5/16	18	-	-	-	0.245	3	0.528	-	1/4	3	2	4100001011
5/16	-	24	-	-	0.245	3	0.521	-	1/4	3	2	4100001111
5/16	-	-	32	-	0.250	3	0.484	-	1/4	3	2	4100002911
3/8	16	-	-	-	0.300	3	0.594	-	5/16	3	2	4100001211
3/8	-	24	-	-	0.300	3	0.604	-	5/16	3	2	4100001311
3/8	-	-	32	-	0.310	3	0.578	-	5/16	3	2	4100003011
7/16	14	-	-	-	0.350	3	0.750	0.780	3/8	3	1	4100001411
7/16	-	20	-	-	0.350	3	0.725	0.750	3/8	3	1	4100001511
1/2	13	-	-	-	0.370	3	0.808	-	3/8	4	2	4100001611
1/2	-	20	-	-	0.370	3	0.775	-	3/8	4	2	4100001711
1/2	-	-	-	32	0.375	3	0.766	-	3/8	4	2	4100003111
9/16	12	-	-	-	0.430	4	0.958	1.000	1/2	4	1	4100001811
9/16	-	18	-	-	0.450	4	0.917	0.990	1/2	4	1	4100001911
5/8	11	-	-	-	0.430	4	1.045	1.090	1/2	4	1	4100002011
5/8	-	18	-	-	0.495	4	0.972	-	1/2	4	2	4100002111
3/4	10	-	-	-	0.620	4	1.250	-	5/8	4	2	4100002211
3/4	-	16	-	-	0.620	4	1.156	-	5/8	4	2	4100002311
7/8	9	-	-	-	0.745	4	1.389	-	3/4	4	2	4100002411
7/8	-	14	-	-	0.745	4	1.393	-	3/4	4	2	4100002511
1	8	-	-	-	0.745	4	1.688	-	3/4	4	2	4100002611
1	-	12	-	-	0.745	4	1.625	-	3/4	4	2	4100002711

Packed: 1 pc.  
Available EXO®coating only.  
For internal threads only.



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### Work Material

List No.	Aluminum		Cast Iron	CoCr	Carbon Steel	Alloy & Die Steels	Ductile Cast Iron	MMC	Copper Alloys	Fiberglass	High Heat Material		Stainless Steels			Hardened Steels		
	6061 7075	Casting									Ti-Alloy	Inconel & Waspaloy	300	400	17-4PH	~55 HRC	55-60 HRC	60-65 HRC
41000	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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## List 41100 **NEW SIZES**

<b>SPEED FEED</b> P449	<b>CARBIDE</b>	<b>EXO*</b>	<b>11°-30°</b>	<b>SHRINK</b> h6
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Regular & Long Length, Helical Flute

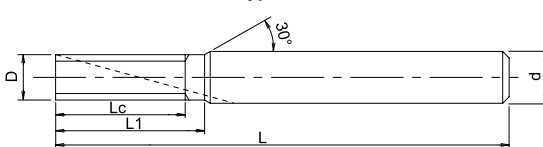


Size	Pitch	Cutter Diameter	Overall Length	Length of Cut	Neck Length	Shank Diameter	No. of Flutes	Type	EDP Number
		D	L	Lc	L1	d			
M6	1.00	4.5	60	10.00	15	6	3	1	4110000111
M6	1.00	4.5	60	13.00	15	6	3	1	3900001
M8	1.00	6.0	65	13.00	-	6	3	2	4110000211
M8	1.00	6.0	65	17.00	-	6	3	2	3900011
M8	1.25	6.0	65	13.80	-	6	3	2	4110000311
M8	1.25	6.0	65	17.50	-	6	3	2	3900012
M10	1.00	7.5	70	16.00	26	8	3	1	4110000411
M10	1.00	7.5	70	21.00	26	8	3	1	3900021
M10	1.25	7.5	70	16.25	26	8	3	1	4110000511
M10	1.50	7.5	70	16.50	26	8	3	1	4110000611
M10	1.50	7.5	70	22.50	26	8	3	1	3900023
M12	1.25	9.5	85	20.00	28	10	4	1	4110000711
M12	1.25	9.5	85	26.30	28	10	4	1	3900032
M12	1.75	9.5	85	21.00	28	10	4	1	4110000811
M12	1.75	9.5	85	26.30	28	10	4	1	3900034
M14	1.50	10.0	85	22.50	-	10	4	2	4110000911
M14	1.50	10.0	85	30.00	-	10	4	2	3900043
M14	2.00	10.0	85	24.00	-	10	4	2	4110001011
M14	2.00	10.0	85	30.00	-	10	4	2	3900044
M16	1.50	12.0	95	25.50	-	12	4	2	4110001111
M16	1.50	12.0	95	34.50	-	12	4	2	3900053
M16	2.00	12.0	95	34.00	-	12	4	2	3900054
M20	1.50	16.0	105	31.50	-	16	4	2	4110001211
M20	1.50	16.0	105	42.00	-	16	4	2	3900073
M20	2.00	16.0	105	42.50	-	16	4	2	3900075
M24	2.00	20.0	120	50.00	-	20	5	2	3900084
M24	3.00	20.0	120	51.00	-	20	5	2	3900086

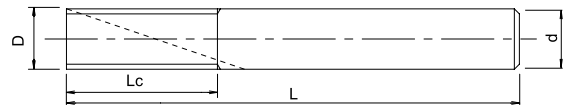
Packed: 1 pc.  
Available EXO\* coating only.  
For internal threads only.



Type 1



Type 2



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### Work Material

List No.	Aluminum		Cast Iron	CoCr	Carbon Steel	Alloy & Die Steels	Ductile Cast Iron	MMC	Copper Alloys	Fiberglass	High Heat Material		Stainless Steels			Hardened Steels		
	6061 7075	Casting									Ti-Alloy	Inconel & Waspaloy	300	400	17-4PH	~55 HRC	55-60 HRC	60-65 HRC
<b>41100</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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# EXOCARB® Thread Mill

Ideal for Steels, Exotics and Difficult to Machine Materials

## List 41150 **NEW!**



Coolant-through, Long Length, Helical Flute

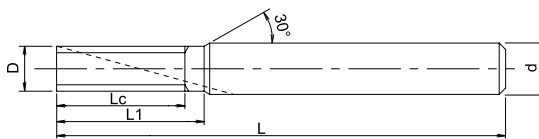


Size	Pitch	Cutter Diameter	Overall Length	Length of Cut	Neck Length	Shank Diameter	No. of Flutes	Type	EDP Number
		D	L	Lc	L1	d			
M6	1.00	4.5	60	13.0	15.0	6.0	4	1	8304701
M8	1.00	6.0	65	17.0	—	6.0	4	2	8304711
M8	1.25	6.0	65	17.5	—	6.0	4	2	8304712
M10	1.00	7.5	70	21.0	26.0	8.0	4	1	8304721
M10	1.50	7.5	70	22.5	26.0	8.0	4	1	8304723
M12	1.25	9.5	85	26.3	28.0	10.0	5	1	8304732
M12	1.75	9.5	85	26.3	28.0	10.0	5	1	8304734
M14	1.50	10.0	85	30.0	—	10.0	5	2	8304743
M14	2.00	10.0	85	30.0	—	10.0	5	2	8304744
M16	1.50	12.0	95	34.5	—	12.0	5	2	8304753
M16	2.00	12.0	95	34.0	—	12.0	5	2	8304754
M20	1.50	16.0	105	42.0	—	16.0	5	2	8304773
M20	2.50	16.0	105	42.5	—	16.0	5	2	8304775
M24	2.00	20.0	120	50.0	—	20.0	5	2	8304784
M24	3.00	20.0	120	51.0	—	20.0	5	2	8304786

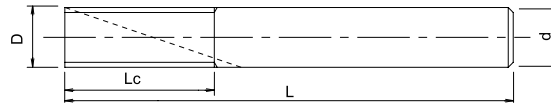
Packed: 1 pc.  
Available EXO<sup>®</sup> coating only.  
For internal threads only.



Type 1



Type 2



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### Work Material

List No.	Aluminum		Cast Iron	CoCr	Carbon Steel	Alloy & Die Steels	Ductile Cast Iron	MMC	Copper Alloys	Fiberglass	High Heat Material		Stainless Steels			Hardened Steels		
	6061 7075	Casting									Ti-Alloy	Inconel & Waspaloy	300	400	17-4PH	~55 HRC	55-60 HRC	60-65 HRC
<b>41150</b>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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## List 42000

NPT, Helical Flute

<b>SPEED FEED</b> P449	<b>CARBIDE</b>	<b>EXO®</b>	30°	<b>SHRINK</b> h6
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Thread Form	TPI	Tip Diameter	Overall Length	Length of Cut	Neck Length	Shank Dia.	No. of Flutes	Type	EDP Number
		D1	L	Lc	L1	d			
1/16	27	0.184	3	0.426	0.44	1/4	3	3	4200000111
1/8	27	0.284	3	0.426	—	5/16	3	4	4200000211
1/4 or 3/8	18	0.331	3	0.639	—	3/8	4	4	4200000311
1/2 or 3/4	14	0.570	4	0.821	—	5/8	4	4	4200000411
1 thru 2	11-1/2	0.780	4	1.000	1.04	1	4	3	4200000511
2-1/2	8	0.910	4	1.438	—	1	4	4	4200000611

Packed: 1 pc.  
Available EXO® coating only. For internal threads only.



## List 42001

NPTF, Helical Flute

<b>SPEED FEED</b> P449	<b>CARBIDE</b>	<b>EXO®</b>	30°	<b>SHRINK</b> h6
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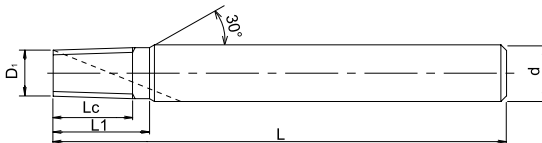


Thread Form	TPI	Tip Diameter	Overall Length	Length of Cut	Neck Length	Shank Dia.	No. of Flutes	Type	EDP Number
		D1	L	Lc	L1	d			
1/16	27	0.184	3	0.426	0.44	1/4	3	3	4200100111
1/8	27	0.284	3	0.426	—	5/16	3	4	4200100211
1/4 or 3/8	18	0.331	3	0.639	—	3/8	4	4	4200100311
1/2	14	0.570	4	0.821	—	5/8	4	4	4200100411
3/4	14	0.570	4	0.821	—	5/8	4	4	4200100711
1 or 1-1/4	11-1/2	0.780	4	1.000	1.04	1	4	3	4200100511
1-1/2 or 2	11-1/2	0.780	4	1.000	1.04	1	4	3	4200100811
2-1/2	8	0.910	4	1.438	—	1	4	4	4200100611

Packed: 1 pc.  
Available EXO® coating only. For internal threads only.



Type 3



Type 4



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### Work Material

List No.	Aluminum		Cast Iron	CoCr	Carbon Steel	Alloy & Die Steels	Ductile Cast Iron	MMC	Copper Alloys	Fiberglass	High Heat Material		Stainless Steels			Hardened Steels		
	6061 7075	Casting									Ti-Alloy	Inconel & Waspaloy	300	400	17-4PH	~55 HRC	55-60 HRC	60-65 HRC
<b>42000</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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good  best

