



МОНОЛИТНЫЕ ТВЕРДОСПЛАВНЫЕ РЕЗЬБОФРЕЗЫ



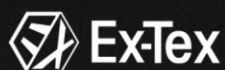
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The Advantages of Thread Milling

- Eliminates the need to reverse the spindle as is the case with conventional tapping applications
- One thread mill will handle various bore diameters so long as the pitch is the one required
- Internal thread can be produced all the way to the bottom of the hole
- Exceptional thread quality on a wide variety of materials including specific designs for aluminum and exotic materials
- Standard coolant tools are axial, but radial coolant holes are available as specials.



Ex-Tex

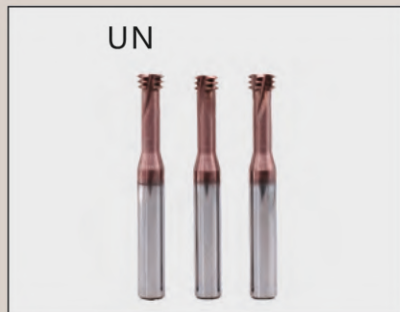


Ex-Tex

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Carbide Milling Threading and Drilling Solutions



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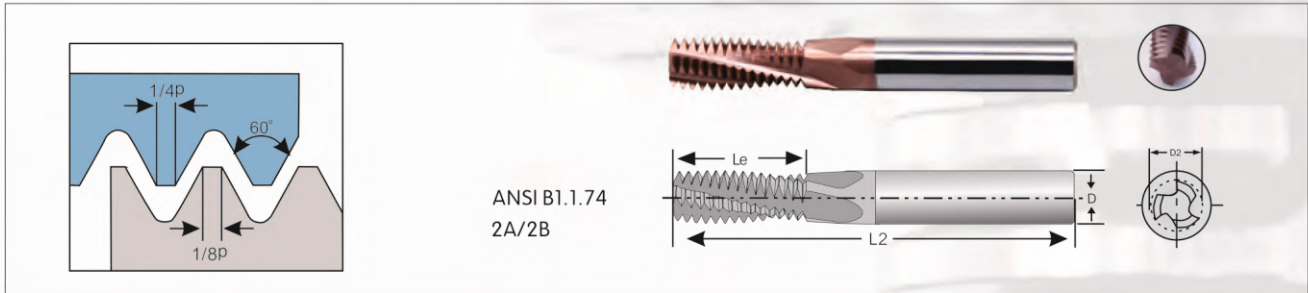
Aerospace thread/UN

16/Sixteen



Solid MilliPro Dental - in American UN

UN



ANSI B1.1.74
2A/2B

EMH.27: External Thread Milling Cutters - Full Form - UN Threads

2xD0 (Le ≤ 2x)

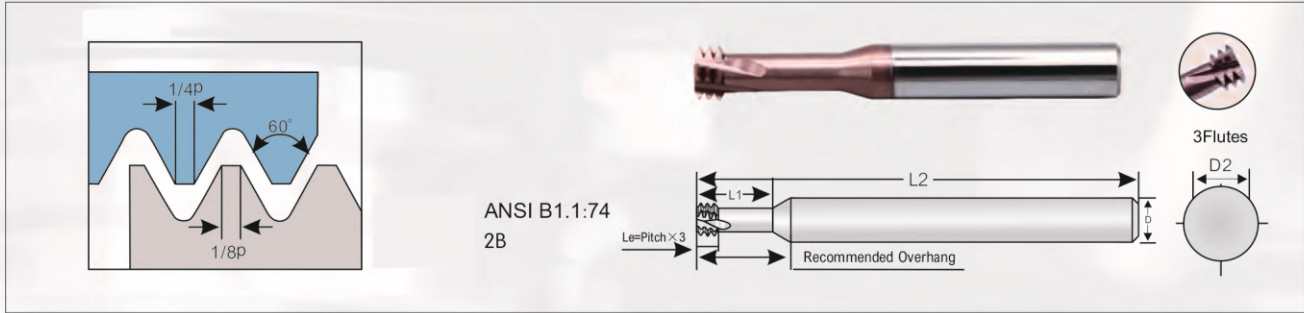
UNT EDP#	Nominal Thread Size		Pitch	Metric size				Crest	Flute
Ex Thread	UNC	UNF	TIP	D	D2	L2	Le	Z	Zt
EMH.27.001	No.8-32		32	4	3.9	50	8.7	3	11
EMH.27.002		No.12-28	28	4	3.9	50	11.8	3	13
EMH.27.003	No.12-24		24	4	3.9	50	11.6	3	11
EMH.27.004	1/4"X20		20	4	3.9	50	12.70	3	10
EMH.27.005	5/6"X18		18	6	5.9	60	16.9	3	12
EMH.27.006	3/8"X16		16	8	7.9	65	19.1	3	12
EMH.27.007	9/16"X12		12	12	11.9	82	29.6	4	14

EMH.28: Internal Thread Milling Cutters - Full Form - UN Threads

2xD0 (Le ≤ 2x)

UNT EDP#	Nominal Thread Size			Pitch	Metric size				Crest	Flute	Minor Dia
In Thread	UNC	UNF	UNEF	TIP	D	D2	L2	Le	Z	Zt	mm
EMH.28.001		No.8-36	No.12-3/8"X32	36	4	3.0	50	8.5	3	12	3.5
EMH.28.002		No.10-32	7/16", 1/2"X28	32	4	3.3	50	11.1	3	14	4
EMH.28.003		No.12-28, 1/4"X28	7/16", 1/2"X28	28	4	3.8	50	11.8	3	13	4.6
EMH.28.004		1/4"X28	7/16", 1/2"X28	28	6	4.6	60	12.7	3	14	5.5
EMH.28.005			9/16"-11/16"X24	28	10	9.2	75	22.7	4	25	10.2
EMH.28.006	No.12-24	5/16", 3/8"X24	9/16"-11/16"X24	24	4	2.9	50	10.6	3	10	3.8
EMH.28.007	No.10-25	5/16", 3/8"X24	9/16"-11/16"X24	24	4	3.5	50	11.6	3	11	4.5
EMH.28.008		5/16", 3/8"X24	9/16"-11/16"X24	24	6	5.7	60	15.9	3	15	6.8
EMH.28.009		3/8"X24	9/16"-11/16"X24	24	8	7.4	65	19.1	3	18	8.5
EMH.28.010			3/4"-1"X20	24	12	11.9	82	28.6	4	27	13.2
EMH.28.011	1/4"X20	7/16", 1/2"X20	3/4"-1"X20	20	4	3.9	50	12.7	3	10	5.2
EMH.28.012		7/16", 1/2"X20	3/4"-1"X20	20	10	8.5	75	22.9	4	18	9.8
EMH.28.013		1/2"X20	3/4"-1"X20	20	10	9.9	75	25.4	4	20	11.5
EMH.28.014			11/16"-1 11/16"X18	20	16	15.9	100	38.1	5	30	17.8
EMH.28.015	5/16"X18	9/16", 5/8"X18	11/16"-1 11/16"X18	18	6	5.2	60	16.9	3	12	6.5
EMH.28.016		9/16", 5/8"X18	11/16"-1 11/16"X18	18	12	11.3	82	29.6	4	21	12.8
EMH.28.017		5/8"X18		18	12	11.9	82	32.5	4	23	14.5
EMH.28.018	3/8"X16	3/4"X16		16	8	6.7	65	19.1	3	12	8.0
EMH.28.019		3/4"X16		16	16	15.9	100	38.1	4	24	17.5
EMH.28.020	7/16"X14	7/8"X14		14	8	7.6	65	23.6	4	13	9.3
EMH.28.021		7/8"X14		14	20	18.7	110	44.4	4	24	20.5
EMH.28.022	1/2"X13			13	10	8.9	75	25.4	4	13	10.8
EMH.28.023	9/16"X12	1"-11/2"X12		12	12	10.3	82	29.6	4	14	12.3
EMH.28.024		1"-11/2"X12		12	20	19.9	110	50.8	5	24	23.5
EMH.28.025	5/8"X11			11	12	11.0	82	32.3	4	14	13.5
EMH.28.026	3/4"X10			10	16	13.5	100	38.1	5	15	16.5
EMH.28.027	7/8"X9			9	16	15.2	100	45.2	4	16	19.5
EMH.28.028	1"X8			8	20	17.0	110	50.8	4	16	22.0

UN



EMH.36: Internal Thread Milling Cutters - Tri-Form - UN Threads

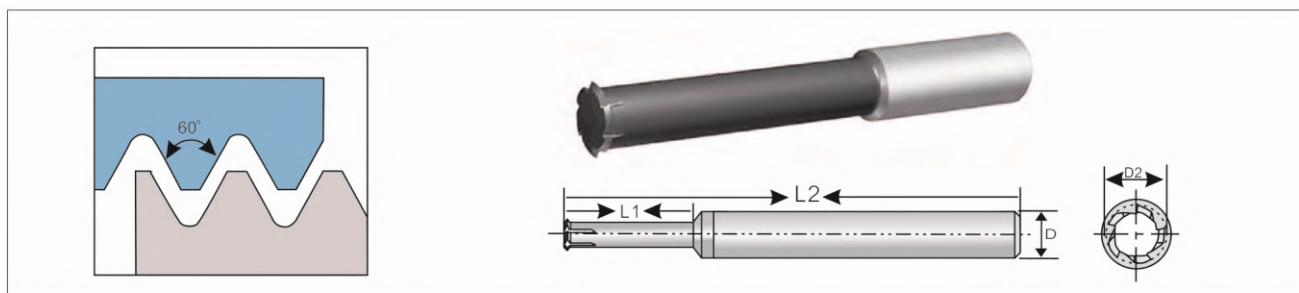
2xD0 (Le ≤ 2x)

UNT EDP#	Nominal Thread Size		Pitch	Metric size				Crest	Flute	Minor Dia
	UNC	UNF		TIP	D	D2	L2			
In Thread	UNC	UNF	TIP	D	D2	L2	L1	Z	Zt	mm
EMH.36.001		No.1-72	72	6	1.45	60		3	3	1.6
EMH.36.002	No.1-64	No.2-64	64	6	1.40	60	4.2	3	3	1.5
EMH.36.003	No.2-56	No.3-56	56	6	1.65	60	5.0	3	3	1.8
EMH.36.004	No.3-48	No.4-48	48	6	1.90	60	6.0	3	3	2.1
EMH.36.005	No.4, No.5-40	No.6-40	40	6	2.10	60	6.0	3	3	2.3
EMH.36.006	No.5-40	No.6-40	40	6	2.45	60	7.2	3	3	2.6
EMH.36.007		No.8-36	36	6	3.30	60	8.7	3	3	3.5
EMH.36.008	No.6, No.8-32	No.10-32	32	6	2.55	60	7.4	3	3	2.8
EMH.36.009	No.8-32	No.10-32	32	6	3.20	60	10.0	3	3	3.5
EMH.36.010		No.10-32	32	6	3.80	60	10.3	3	3	4.0
EMH.36.011		1/4"x28	28	6	5.25	60	13.2	3	3	5.5
EMH.36.012	No.10-24	5/16"x24	24	6	3.58	60	10.2	3	3	3.9
EMH.36.013		5/16"x24	24	8	6.68	65	16.5	3	3	6.9
EMH.36.014	1/4"x20	7/16"x20	20	6	4.88	60	13.4	3	3	5.2
EMH.36.015		7/16"x20	20	10	9.55	75	23.0	3	3	9.9
EMH.36.016	5/16"x18		18	8	6.15	65	16.9	3	3	6.6
EMH.36.017	3/8"x16		16	8	6.70	65	19.1	3	3	8.0
EMH.36.018	7/16"x14		14	10	9.00	75	23.3	3	3	9.4

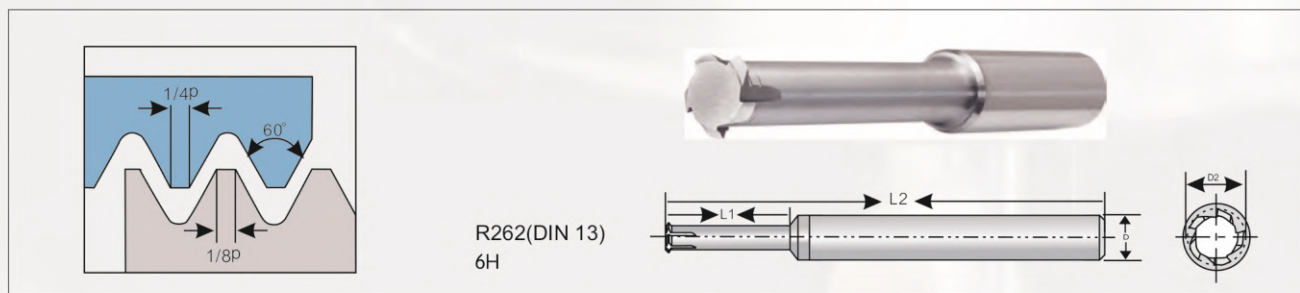
EMH.37 Internal Thread Milling Cutters - Tri-Form - UN Threads

3xD0 (L1 ≤ 3x)

UNT EDP#	Nominal Thread Size		Pitch	Metric size				Crest	Flute	Minor Dia
	UNC	UNF		TIP	D	D2	L2			
In Thread	UNC	UNF	TIP	D	D2	L2	L1	Z	Zt	mm
EMH.37.001		No.1-72	72	3	1.45	38	5.75	3	3	1.6
EMH.37.002		No.1-72	72	6	1.45	60	5.75	3	3	1.6
EMH.37.003	No.2-56	No.3-56	56	3	1.65	38	7.0	3	3	1.8
EMH.37.004	No.4, No.5-40	No.6-40	40	3	2.10	38	9.0	3	3	2.3
EMH.37.005	No.4, No.5-40	No.6-40	40	6	2.10	60	9.0	3	3	2.3
EMH.37.006	No.5-40	No.6-40	40	6	2.45	60	10.0	3	3	2.6
EMH.37.007	No.6, No.8-32	No.10-32	32	3	2.55	38	11.0	3	3	2.8
EMH.37.008	No.6, No.8-32	No.10-32	32	6	2.55	60	11.0	3	3	2.8
EMH.37.009	No.8-32	No.10-32	32	6	3.20	60	13.0	3	3	3.4
EMH.37.010		No.10-32	32	6	3.80	60	15.1	3	3	4.0
EMH.37.011	No.12-28	1/4"x28	28	6	4.40	60	17.0	3	3	4.7
EMH.37.012		1/4"x28	28	6	5.25	60	19.6	3	3	5.5
EMH.37.013		5/16"x24	24	8	6.68	65	24.5	3	3	6.9
EMH.37.014	1/4"x20	7/16"x20	20	6	4.88	60	19.8	3	3	5.1
EMH.37.015	5/16"x18		18	8	6.15	65	24.0	3	3	6.6


EMH.35: Micro Partial Profile 60° Thread Mills - Single Form - BSP Threads

UNT EDP#	Nominal Thread Size			Pitch	Metric size						
	M	M	UN, UNS, UNF, UNEF	TIP	mm	D	D2	L2	L1	Z	Zt
EMH.35.001	M5X0.8	M5X0.5 M5X0.75	NO.10-56UNS, NO.10-48UNS NO.10-40UNS, NO.10-36UNS NO.10-32UNF	0.5-0.8	32-56	4	3.90	50	16	4	1
EMH.35.002	M6X1.0	M6X0.5 M6X0.75	NO.12-56UNS, NO.12-48UNS 1/4-40UNS, 1/4-36UNS 1/4-32UNEF, 1/4-28UNF 1/4-27UNS, 1/4-24UNS	0.5-1.0	24-56	6	4.85	60	20	5	1
EMH.35.003	M8X1.25	M7X0.5 M7X0.75 M7.5X1.0	5/16-48UNS, 5/16-40UNS 5/16-36UNS, 5/16-32UNS 5/16-28UN, 5/16-27UNS 5/16-24UNS, 5/16-20UN	0.5-1.25	20-48	6	5.90	60	25	5	1
EMH.35.004	—	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	10	9.90	75	35	6	1
EMH.35.005	M10X1.5	M10X1.0 M10X1.25	3/8-24UNF, 3/8-20UN 7/16-18UNS, 7/16-16UN	1.0-1.50	16-24	8	7.90	65	32	6	1
EMH.35.006	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	10	9.90	75	38	6	1
EMH.35.007	—	M13.5X1.0 M14X1.25 M14X1.5	9/16-24UNEF	1.0-1.75	14-24	12	11.90	82	45	6	1



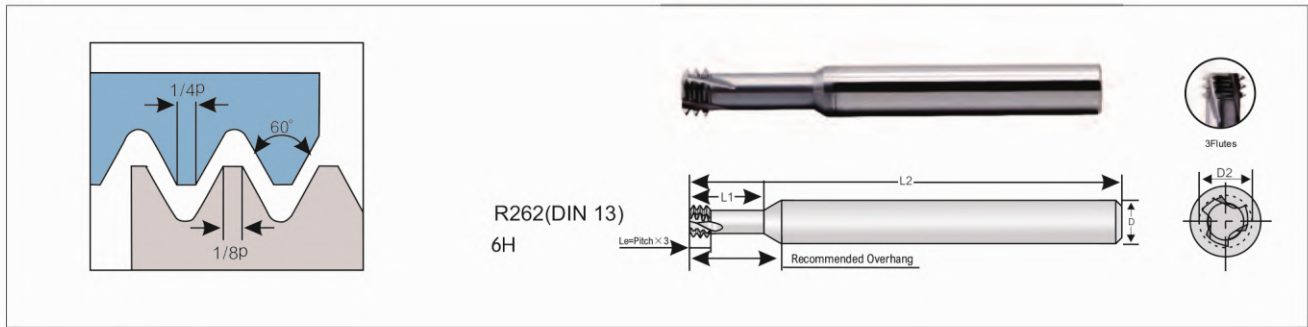
ISO

EMH.19: Thread Milling Cutters - Single Form - Metric threads

3xD0 (L1 ≤ 3x)

UNT EDP#	Nominal Thread Size	Pitch	Metric size				Crest	Flute	Minor Dia
In Thread	M	mm	D	D2	L2	L1	Root Z	Zt	mm
EMH.19.010	M1X0.25	0.25	4	0.70	50	3.5	3	1	0.75
EMH.19.012	M1.2X0.25	0.25	4	0.90	50	4.2	3	1	0.95
EMH.19.014	M1.4X0.3	0.30	4	1.05	50	4.2	3	1	1.10
EMH.19.016	M1.6X0.35	0.35	4	1.20	50	5.6	3	1	1.25
EMH.19.018	M1.8X0.35	0.35	4	1.41	50	6.6	3	1	1.45
EMH.19.020	M2.0X0.4	0.40	4	1.55	50	6.6	3	1	1.60
EMH.19.022	M2.2X0.45	0.45	4	1.70	50	6.6	3	1	1.75
EMH.19.025	M2.5X0.45	0.45	4	1.96	50	8.0	3	1	2.05
EMH.19.030	M3X0.5	0.50	4	2.40	50	10.0	3	1	2.50
EMH.19.040	M4X0.7	0.70	4	3.15	50	13.0	3	1	3.30
EMH.19.050	M5X0.8	0.80	6	3.90	50	16.0	3	1	4.20
EMH.19.060	M6×1	1.00	8	4.10	65	19.0	3	1	5.00
EMH.19.080A	M8×1.25	1.25	10	5.80	75	26.0	4	1	6.80
EMH.19.100	M10×1.5	1.50	10	7.70	75	32.0	4	1	8.50
EMH.19.120	M12×1.5	1.50	12	9.40	82	38.0	4	1	10.50
EMH.19.120A	M12×1.75	1.75	12	8.70	82	38.0	4	1	10.20
EMH.19.140	M14X2	2.00	12	11.6	82	44.0	4	1	12.00
EMH.19.140A	M14X2	2.00	16	10.20	100	44.0	4	1	12.00
EMH.19.160	M16×2	2.00	16	12.20	100	50.0	4	1	14.00
EMH.19.180	M18×2.5	2.50	16	12.90	110	57.0	5	1	15.50
EMH.19.200	M20×2.5	2.50	16	14.80	110	63.0	5	1	17.50

ISO



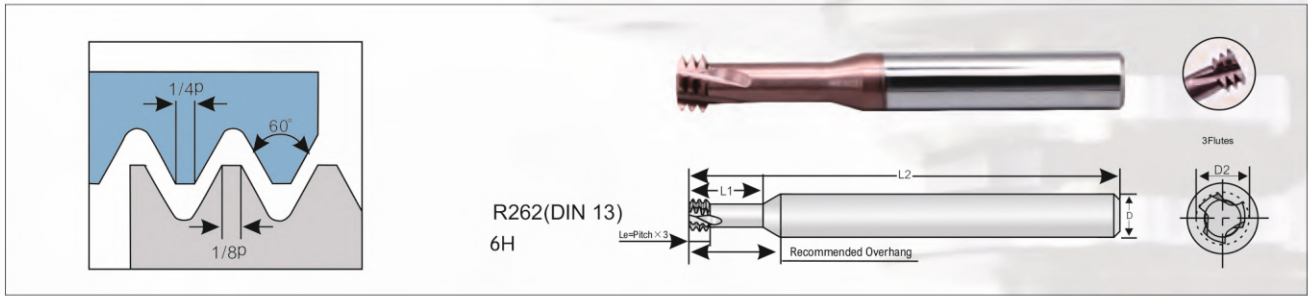
ISO

EMH.14: Interl Thread Milling Cutters - Tri-Form - ISO Metric threads

2xD0 (L1 ≤ 2x)

UNT EDP#	Nominal Thread Size		Pitch	Metric size				Crest	Flute	Minor Dia
In Thread	M	M	mm	D	D2	L2	L1	Z	Zt	mm
EMH.14.009	M0.9X0.225		0.225	4	0.65	50	2.0	3	3	0.68
EMH.14.010	M1X0.25		0.25	4	0.73	50	2.3	3	3	0.75
EMH.14.012	M1.2X0.25		0.25	4	0.92	50	2.8	3	3	0.95
EMH.14.014	M1.4X0.3		0.30	4	1.05	50	3.1	3	3	1.10
EMH.14.016B	M1.6X0.35		0.35	3	1.20	50	3.6	3	3	1.25
EMH.14.016	M1.6X0.35		0.35	4	1.21	50	3.6	3	3	1.25
EMH.14.018	M1.8X0.35		0.35	4	1.41	50	4.0	3	3	1.45
EMH.14.020	M2X0.4		0.4	4	1.55	50	4.4	3	3	1.60
EMH.14.020B	M2X0.4		0.4	6	1.55	60	4.4	3	3	1.60
EMH.14.022B	M2.2X0.45		0.45	6	1.65	60	4.9	3	3	1.75
EMH.14.022	M2.2X0.45		0.45	4	1.65	50	4.9	3	3	1.75
EMH.14.025B	M2.5X0.45		0.45	6	1.95	60	5.5	3	3	2.05
EMH.14.025	M2.5X0.45		0.45	4	1.95	50	5.5	3	3	2.05
EMH.14.030	M3X0.5	M3.5-M16X0.5	0.5	4	2.40	50	6.5	3	3	2.50
EMH.14.030B	M3X0.5	M3.5-M16X0.5	0.5	6	2.40	60	6.5	3	3	2.50
EMH.14.035B	M3.5X0.6		0.6	6	2.75	60	7.6	3	3	2.90
EMH.14.035	M3.5X0.6		0.60	4	2.75	50	7.6	3	3	2.90
EMH.14.040	M4X0.7		0.70	4	3.15	50	8.7	3	3	3.30
EMH.14.040B	M4X0.7		0.7	6	3.15	60	8.7	3	3	3.30
EMH.14.050	M5X0.8		0.80	4	4.00	50	10.8	3	3	4.20
EMH.14.050B	M5X0.8		0.8	6	4.05	60	10.8	3	3	4.20
EMH.14.060B	M6X1.0		1.00	4	4.00	50	10.8	3	3	5.00
EMH.14.060C	M6X1.0	M8-M40X1.0	1.0	6	4.80	60	13.0	4	3	5.00
EMH.14.080	M8X1.25		1.25	6	6.00	60	17.5	4	3	6.80
EMH.14.08065	M8X1.25		1.25	8	6.50	65	17.5	4	3	6.80
EMH.14.10075	M10X1.5	M12-M48X1.50	1.50	10	8.20	75	21.5	4	3	8.50
EMH.14.100	M10X1.5		1.50	8	7.90	65	21.5	4	3	8.50
EMH.14.12075	M12X1.75		1.75	12	9.90	75	25.0	4	3	10.30
EMH.14.120	M12X1.75		1.75	10	9.90	75	25.0	4	3	10.30
EMH.14.140	M14X2		2.00	10	9.90	82	30.0	4	3	12.00
EMH.14.14082	M14X2		2.00	12	11.60	82	30.0	4	3	12.00
EMH.14.160	M16X2.0		2.00	12	11.90	82	32.0	4	3	14.00
EMH.14.200	M20X2.5		2.50	16	15.90	100	41.3	5	3	17.50

ISO



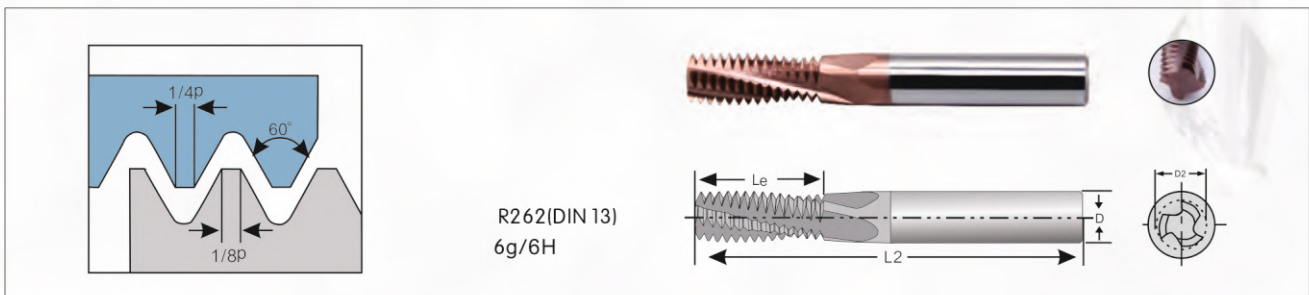
ISO

EMH.43: Internal Thread Milling Cutters - Tri-Form - ISO Metric threads

3xD0 (L1 ≤ 3x)

UNT EDP#	Nominal Thread Size		Pitch	Metric size				Crest	Flute	Minor Dia
In Thread	M	M	mm	D	D2	L2	L1	Z	Zt	mm
EMH.43.001	M1.6X0.35		0.35	3	1.20	50	5.0	3	3	1.25
EMH.43.002	M2X0.4		0.4	3	1.55	50	6.2	3	3	1.6
EMH.43.003	M2X0.4		0.4	6	1.55	60	6.2	3	3	1.6
EMH.43.004	M2.5X0.45		0.45	3	1.95	50	7.7	3	3	2.05
EMH.43.005	M2.5X0.45		0.45	6	1.95	60	7.7	3	3	2.05
EMH.43.006	M3X0.5	M3.5-M16X0.5	0.5	3	2.40	50	9.2	3	3	2.5
EMH.43.007	M3X0.5	M3.5-M16X0.5	0.5	6	2.40	60	9.2	3	3	2.5
EMH.43.008	M4X0.7		0.7	6	3.15	60	12.3	3	3	3.3
EMH.43.009	M5X0.8		0.8	6	4.05	60	15.4	3	3	4.2
EMH.43.010	M6X1.0	M8-M40X1.0	1.00	6	4.80	60	18.5	4	3	5.0
EMH.43.011	M8X1.25		1.25	8	6.50	65	24.6	4	3	6.8

ISO

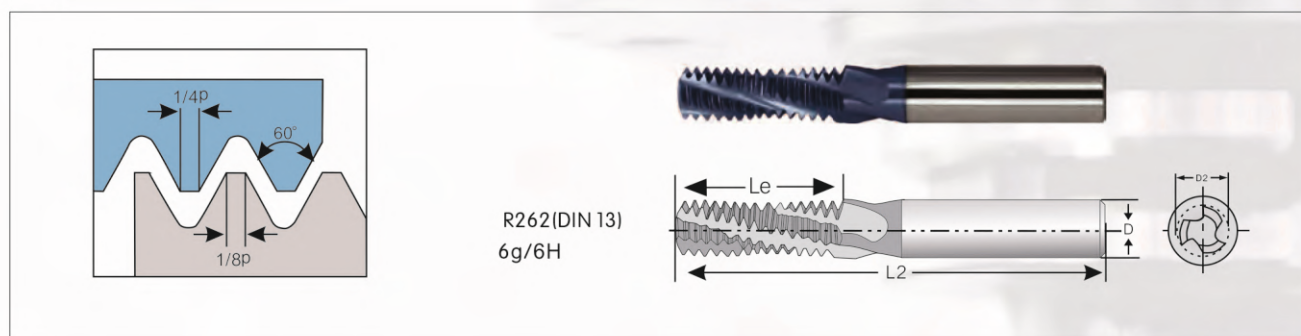


ISO

EMH.42: External Thread Milling Cutters - Full Form - ISO Metric Threads

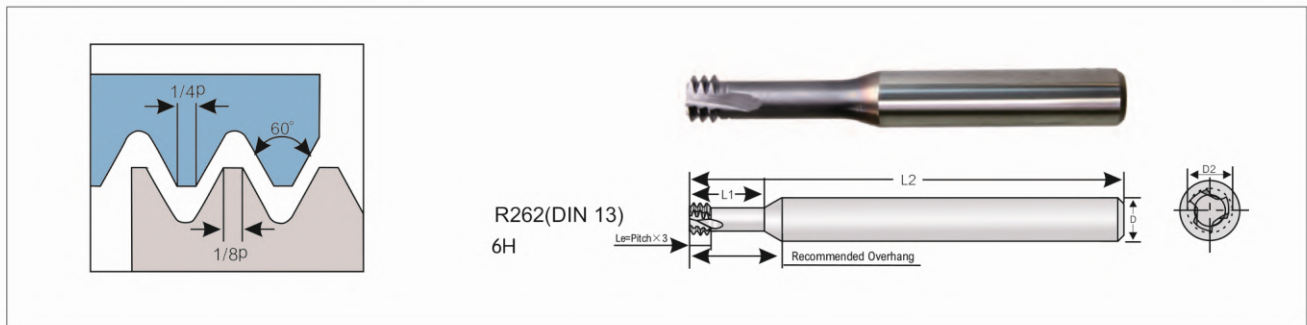
2xD0 (Le ≤ 2x)

UNT EDP#	Nominal Thread Size	Pitch	Metric size				Crest	Flute
Ex Thread	M	mm	D	D2	L2	Le	Z	Zt
EMH.42.001	M3X0.5	0.50	4	3.9	45	6.0	3	12
EMH.42.002	M4.5X0.75	0.75	4	3.9	45	9.0	3	12
EMH.42.003	M6X1.0	1.00	4	3.9	45	12.0	3	12
EMH.42.004	M8X1.25	1.25	6	5.9	57	16.25	3	13
EMH.42.005	M10X1.5	1.50	8	7.9	63	21.0	3	14
EMH.42.006	M14X2.0	2.00	10	9.9	73	28.0	4	14

ISO

ISO
EMH.18: Internal Thread Milling Cutters - Full Form - ISO Metric Threads

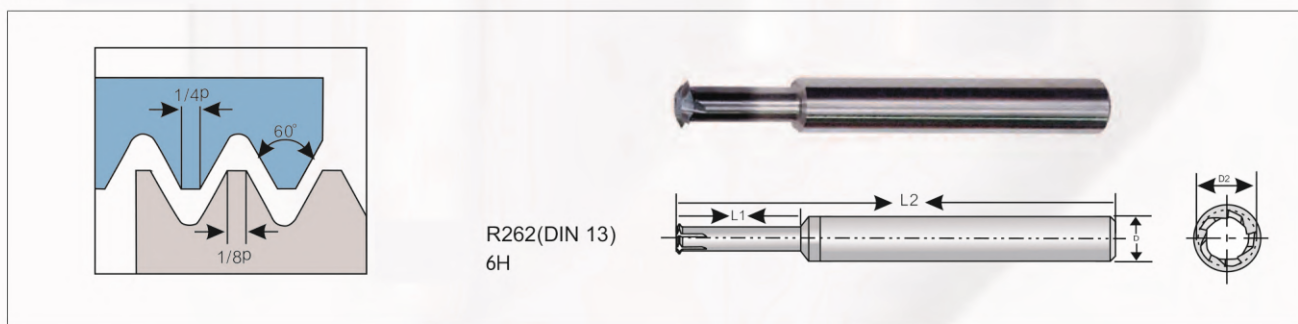
2xD0 (Le ≤ 2x)

UNT EDP#	Nominal Thread Size		Pitch	Metric size				Crest	Flute	Minor Dia
In Thread	M	M	mm	D	D2	L2	Le	Z	Zt	mm
EMH.18.030	M3X0.5	M3.5-M16X0.5	0.50	4	2.40	50	6.0	3	12	2.50
EMH.18.040		M4X0.5	0.50	4	3.20	50	8.0	3	16	3.50
EMH.18.050		M5X0.5	0.50	4	3.90	50	10.0	3	20	4.50
EMH.18.080		M8X0.5	0.50	6	5.90	60	16.0	4		7.50
EMH.18.040B	M4X0.7		0.70	4	3.15	50	8.4	3	12	3.30
EMH.18.050C	M5X0.8		0.80	4	3.90	50	10.0	3	13	4.20
EMH.18.050A	M5X0.8		0.80	6	3.90	60	12.0	3	15	4.20
EMH.18.060		M6X0.75	0.75	4	3.90	50	12.0	3	16	5.30
EMH.18.060A		M6X0.75	0.75	6	5.00	60	12.0	4	16	5.25
EMH.18.080A		M8X0.75	0.75	6	5.90	60	16.0	4	20	7.25
EMH.18.100		M10X0.75	0.75	8	7.90	65	21.0	4	28	9.25
EMH.18.060B	M6X1.0	M8-M40X1.0	1.00	4	3.90	50	12.0	3	12	5.00
EMH.18.060C	M6X1.0		1.00	6	4.80	60	12.0	4	12	5.00
EMH.18.080B		M8X1.0	1.00	6	5.90	60	16.0	4	16	7.00
EMH.18.080D		M8X1.0	1.00	8	6.80	65	20.0	4	20	7.00
EMH.18.100A		M10X1.0	1.00	8	7.90	65	20.0	4	20	9.00
EMH.18.100B		M10X1.0	1.00	10	8.20	75	25.0	4	25	9.00
EMH.18.120		M12X1.0	1.00	10	9.90	75	24.0	4	24	11.00
EMH.18.080C	M8X1.25		1.25	6	5.90	60	16.00	4	13	6.80
EMH.18.080E	M8X1.25		1.25	8	6.50	65	20.0	4		6.80
EMH.18.100C		M10X1.25	1.25	8	7.90	65	20.0	4	16	8.80
EMH.18.120A		M12X1.25	1.25	10	9.90	75	24.0	4		10.25
EMH.18.100D	M10X1.5	M12-M48X1.5	1.50	8	7.90	65	21.0	4	14	8.50
EMH.18.100E	M10X1.5		1.50	10	8.20	75	26.0	4		8.50
EMH.18.120B		M12X1.5	1.50	10	9.90	75	24.0	4	16	10.50
EMH.18.120C		M12X1.5	1.50	12	9.90	75	30.0	4		10.50
EMH.18.140		M14X1.5	1.50	12	11.90	82	28.0	4	19	12.50
EMH.18.160		M16X1.5	1.50	14	13.90	100	32.0	4		14.50
EMH.18.120E	M12X1.75		1.75	10	9.90	75	24.5	4	14	10.20
EMH.18.120D	M12X1.75		1.75	12	9.90	75	30.0	4		10.20
EMH.18.140A	M14X2.0	M17-M80X2.0	2.00	10	9.90	82	28.0	4	14	12.00
EMH.18.140B	M14X2.0		2.00	12	11.60	82	28.0	4		12.00
EMH.18.160B	M16X2.0	M17-M80X2.0	2.00	12	11.90	82	32.0	4	16	14.00
EMH.18.180	M18-M22-2.5		2.50	14	13.90	100	35.0	4	14	15.50
EMH.18.200	M20-M22-2.5		2.50	16	15.90	103	40.0	5	16	17.50
EMH.18.240	M24X3.0		3.00	16	15.90	103	42.0	5	14	21.00
EMH.18.240A	M24X3.0		3.00	20	19.90	110	48.0	5	16	21.00
EMH.18.300	M30X3.5		3.50	20	19.90	110	63.0	5	18	26.50


EMH.48: Internal Thread Milling Cutters For Aluminum - Tri-Form - ISO Metric Threads
2xD0 (L1 ≤ 2x)

UNT EDP#	Nominal Thread Size		Pitch	Metric size				Crest	Flute	Minor Dia
	In Thread	M		M	mm	D	D2			
EMH.48.001	M0.9X0.225		0.225	4	0.65	50	2.0	3	3	0.68
EMH.48.002	M1X0.25		0.25	4	0.73	50	2.3	3	3	0.75
EMH.48.003	M1.2X0.25		0.25	4	0.92	50	2.8	3	3	0.95
EMH.48.004	M1.4X0.3		0.30	4	1.05	50	3.1	3	3	1.10
EMH.48.005	M1.6X0.35		0.35	4	1.20	50	3.6	3	3	1.25
EMH.48.006	M1.8X0.35		0.35	4	1.41	50	4.0	3	3	1.45
EMH.48.007	M2X0.4		0.4	4	1.55	50	4.4	3	3	1.60
EMH.48.008	M2.2X0.45		0.45	4	1.65	50	4.9	3	3	1.75
EMH.48.009	M2.5X0.45		0.45	4	1.96	50	5.5	3	3	2.05
EMH.48.010	M3X0.5	M3.5-M16X0.5	0.5	4	2.40	50	6.5	3	3	2.50
EMH.48.011	M3.5X0.6		0.60	4	2.75	50	7.6	3	3	2.90
EMH.48.012	M4X0.7		0.70	4	3.15	50	8.7	3	3	3.30
EMH.48.013	M5X0.8		0.80	4	4.00	50	10.8	3	3	4.20
EMH.48.014	M6X1.0	M8-M40X1.0	1.0	6	4.80	60	13.0	4	3	5.00
EMH.48.015	M8X1.25		1.25	6	6.00	60	17.5	4	3	6.80
EMH.48.016	M10X1.5		1.50	8	7.90	65	21.5	4	3	8.50
EMH.48.017	M12X1.75		1.75	10	9.90	75	25.0	4	3	10.30
EMH.48.018	M14X2		2.00	10	9.90	82	30.0	4	3	12.00
EMH.48.019	M16X2.0		2.00	12	11.90	82	32.0	4	3	14.00

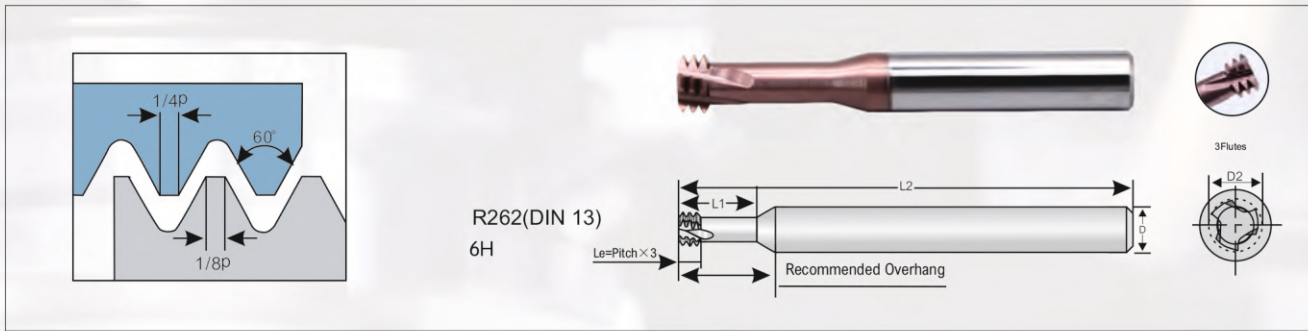
ISO



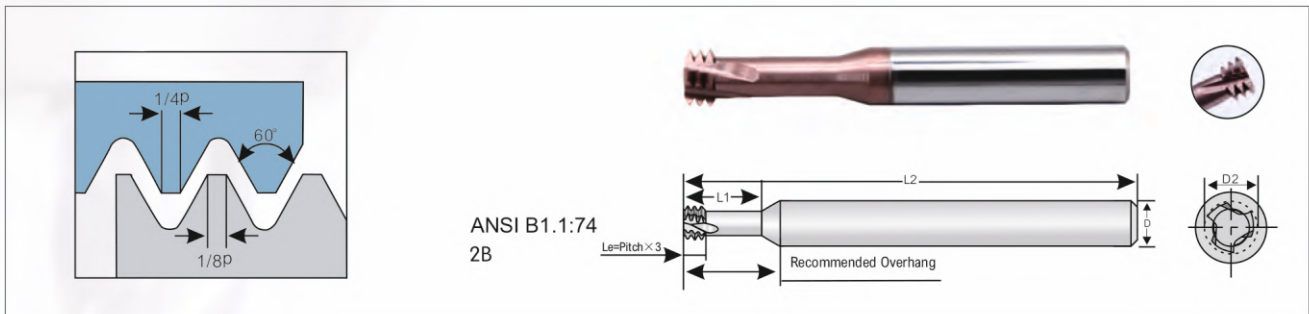
EMH.26: Internal Thread Milling Cutters For Aluminum - Single Form - ISO Metric Threads

3xD0 (L1≤3x)

UNT EDP#	Nominal Thread Size	Pitch	Metric size				Crest	Flute	Minor Dia
In Thread	M	mm	D	D2	L2	L1	Z	Zt	mm
EMH.26.010	M1X0.25	0.25	4	0.70	50	3.5	3	1	0.75
EMH.26.012	M1.2X0.25	0.25	4	0.90	50	4.2	3	1	0.95
EMH.26.014	M1.4X0.3	0.30	4	1.05	50	4.2	3	1	1.10
EMH.26.016	M1.6X0.35	0.35	4	1.20	50	5.6	3	1	1.25
EMH.26.018	M1.8X0.35	0.35	4	1.41	50	6.6	3	1	1.45
EMH.26.020	M2.0X0.4	0.40	4	1.55	50	6.6	3	1	1.60
EMH.26.022	M2.2X0.45	0.45	4	1.70	50	6.6	3	1	1.75
EMH.26.025	M2.5X0.45	0.45	4	1.96	50	8.0	3	1	2.05
EMH.26.030	M3X0.5	0.50	4	2.40	50	10.0	3	1	2.50
EMH.26.040	M4X0.7	0.70	4	3.15	50	13.0	3	1	3.30
EMH.26.050	M5X0.8	0.80	4	3.90	50	16.0	3	1	4.20
EMH.26.060	M6×1	1.00	6	4.80	60	19.0	4	1	5.00
EMH.26.080	M8×1.25	1.25	6	5.90	60	26.0	4	1	6.80
EMH.26.100	M10×1.5	1.50	8	7.90	65	32.0	4	1	8.50
EMH.26.120	M12×1.75	1.75	10	9.90	82	38.0	4	1	10.30
EMH.26.160	M16×2	2.00	12	11.90	100	50.0	4	1	14.00

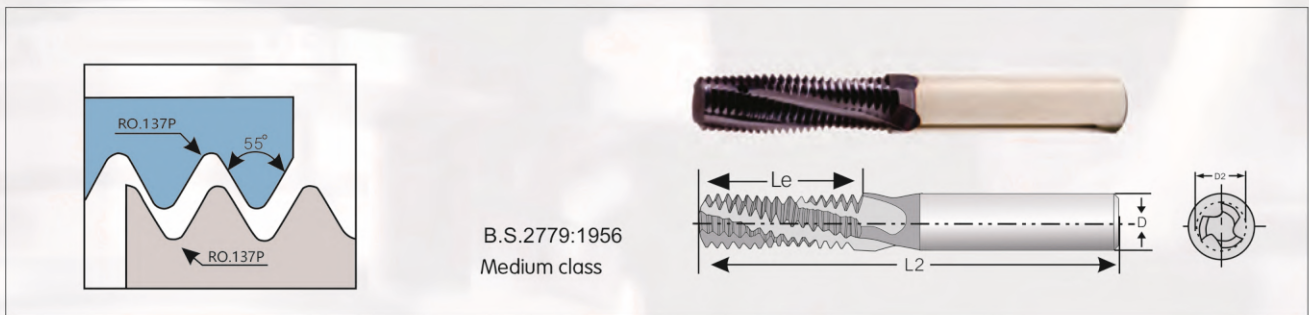

EMH.44: Internal Thread Milling Cutters- Micro Tri-Tooth - ISO Metric Threads
2xD0 (L1≤2x)

UNT EDP#	Nominal Thread Size		Pitch	Metric size				Crest	Flute	Minor Dia
	M	M		D	D2	L2	L1			
In Thread	M	M	mm	D	D2	L2	L1	Z	Zt	mm
EMH.44.001	M2X0.4		0.40	6	1.55	100	4.2	3	3	1.6
EMH.44.002	M2.5X0.45		0.45	6	1.95	100	5.2	3	3	2.05
EMH.44.003	M3X0.5	M3.5-M16X0.5	0.50	6	2.40	100	6.2	3	3	2.5
EMH.44.004	M4X0.7		0.70	6	3.15	100	8.7	3	3	3.3
EMH.44.005	M5X0.8		0.80	6	4.05	100	10.8	4	3	4.2
EMH.44.006	M6X1.0	M8-M40X1.0	1.00	6	4.80	100	13.0	4	3	5.0
EMH.44.007	M10X1.5	M12-M48X1.50	1.50	8	7.90	100	21.5	4	3	8.5
EMH.44.008	M12X1.75		1.75	10	9.90	100	25.0	4	3	10.30


EMH.45: Internal Thread Milling Cutters- Micro Tri-Tooth with Extra Length -UN Threads
2xD0 (L1≤2x)

UNT EDP#	Nominal Thread Size		Pitch	Metric size				Crest	Flute	Minor Dia
	UNC	UNF		TIP	D	D2	L2			
In Thread	UNC	UNF	TIP	D	D2	L2	L1	Z	Zt	mm
EMH.45.001	No.2-56	No.3-56	56	6	1.65	100	5.0	3	3	1.8
EMH.45.002	No.4,No.5-40	No.6-40	40	6	2.10	100	6.0	3	3	2.3
EMH.45.003	No.6,No.8-32	No.10-32	32	6	2.55	100	7.4	3	3	2.8
EMH.45.004	No.8-32	No.10-32	32	6	3.20	100	10.0	3	3	3.4

BSP(G)

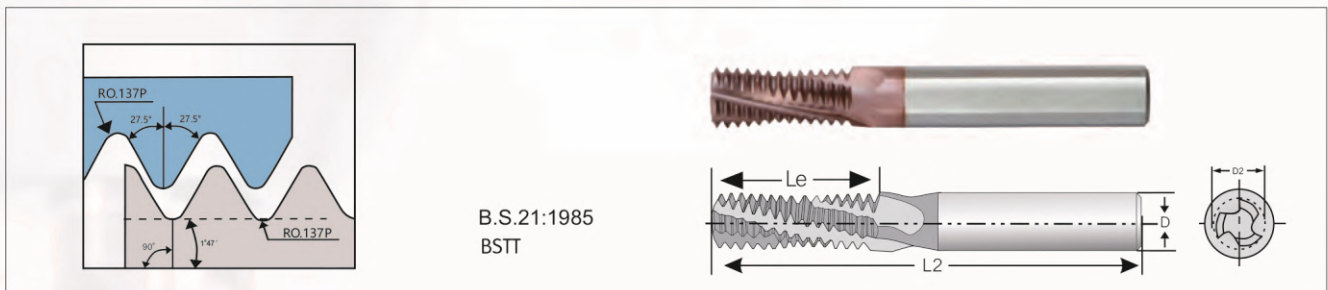


EMH.29: Internal Thread Milling Cutters- Full Form -BSP(G) Threads

2xD0 (Le≤2x)

UNT EDP#	Nominal Thread Size	Pitch	Metric size				Crest	Flute	Minor Dia
In Thread		TIP	D	D2	L2	Le	Z	Zt	mm
EMH.29.001	1/16"X28, 1/8"X28	28	6	5.8	60	16.3	3	18	6.7
EMH.29.002	1/8"x28	28	8	7.7	65	20.0	3	22	8.7
EMH.29.003	1/4"X19, 3/8"X19	19	10	9.9	75	26.7	4	20	11.8
EMH.29.004	3/8"X19	19	16	13.4	103	33.4	4	25	15.2
EMH.29.005	1/2", 3/4"X14	14	16	15.7	103	43.5	5	24	19.0
EMH.29.006	1", 1 1/2", 2", 2 1/2"X11	11	20	19.9	103	41.6	5	18	30.7

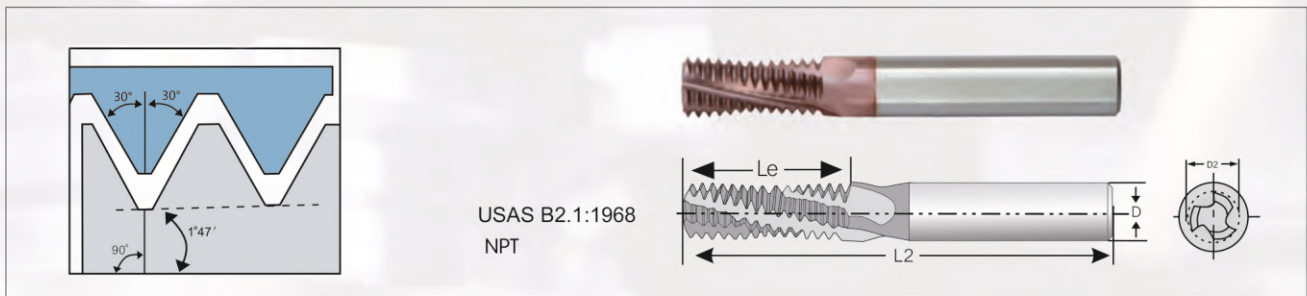
BSPT



EMH.30: Internal Thread Milling Cutters- Full Form -BSPT Threads

UNT EDP#	Nominal Thread Size	Pitch	Metric size				Crest	Flute	Minor Dia
In Thread		TIP	D	D2	L2	Le	Z	Zt	mm
EMH.30.001	1/16"X28	28	6	5.8	60	16.3	3	18	6.7
EMH.30.002	1/8"x28	28	8	7.7	65	20.0	3	22	8.7
EMH.30.003	1/4"X19	19	10	9.9	75	26.7	4	20	11.8
EMH.30.004	3/8"X19	19	16	13.4	103	33.4	4	25	15.2
EMH.30.005	1/2", 3/4"X14	14	16	15.7	103	43.5	5	24	19.0
EMH.30.006	1", 1 1/2", 2", 2 1/2"X11	11	20	19.9	103	41.6	5	18	30.7

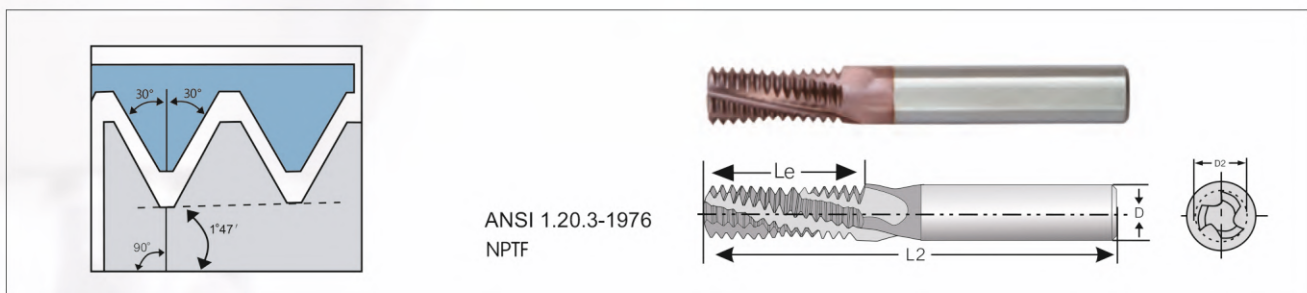
NPT



EMH.31: Internal Thread Milling Cutters- Full Form -NPT Threads

UNT EDP#	Nominal Thread Size	Pitch	Metric size				Crest	Flute	Minor Dia
In Thread		TIP	D	D2	L2	Le	Z	Zt	mm
EMH.31.001	1/16"X27	27	6	5.3	60	9.4	3	10	6.3
EMH.31.002	1/8"X27	27	8	7.5	65	9.4	4	10	8.5
EMH.31.003	1/4"X18	18	10	9.4	75	14.1	4	10	11.1
EMH.31.004	3/8"X18	18	12	11.9	82	14.1	4	10	14.5
EMH.31.005	1/2",3/4"X14	14	16	15.5	103	25.4	5	14	17.7,23.0
EMH.31.006	1"-2"X11.5	11.5	20	19.9	103	33.1	5	15	29.0-56.0
EMH.31.007	2 1/2",3"X8	8	20	19.9	103	38.1	4	12	66.5

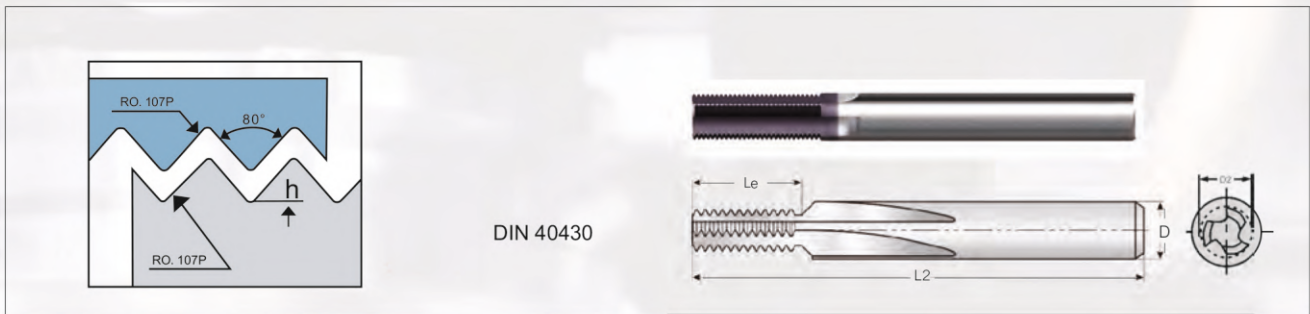
NPTF



NPTF

EMH.32: Internal Thread Milling Cutters- Full Form -NPTF Threads

UNT EDP#	Nominal Thread Size	Pitch	Metric size				Crest	Flute	Minor Dia
In Thread		TIP	D	D2	L2	Le	Z	Zt	mm
EMH.32.001	1/16"X27	27	6	5.3	60	9.4	3	10	6.3
EMH.32.002	1/8"X27	27	8	7.5	65	9.4	4	10	8.4
EMH.32.003	1/4"X18	18	10	9.4	75	14.1	4	10	11.1
EMH.32.004	3/8"X18	18	12	11.9	82	14.1	4	10	14.7
EMH.32.005	1/2",3/4"X14	14	16	15.5	103	25.4	5	14	17.79,23.4
EMH.32.006	1"-2"X11.5	11.5	20	19.9	103	33.1	5	15	29.4-56.2
EMH.32.007	2 1/2",3"X8	8	20	19.9	103	38.1	4	12	67.0

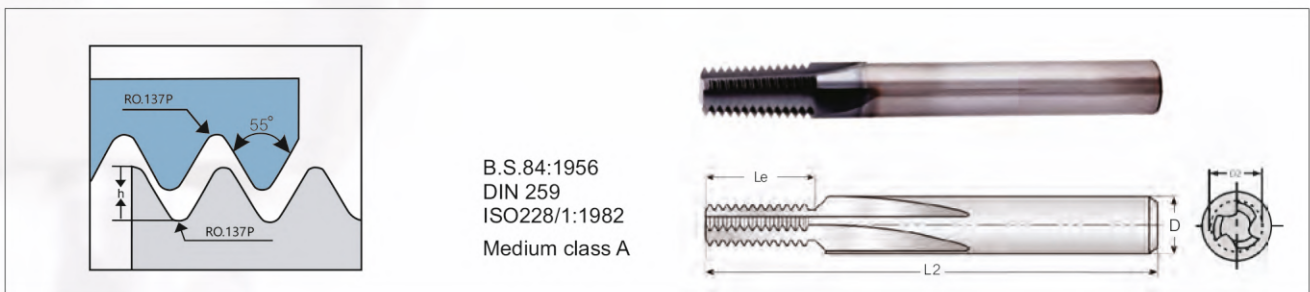


PG

EMH.46: Straight Flute Thread Milling - Single/Tri/Full Tooth -PG Threads

UNT EDP#	Nominal Thread Size	Pitch	Metric size				Crest	Flute	
In Thread EX Thread		TIP	D	D2	L2	L1	Z	Zt	hmm
EMH.46.001	Pg7	20	8	7.90	65	19.05	3	15	0.61
EMH.46.002	PG9,11,13.5,16	18	10	9.90	75	23.99	5	17	0.7
EMH.46.003	PG21,29,36,42,48	16	12	11.90	82	28.58	5	18	0.76
EMH.46.004	PG7	20	8	7.90	65	19	5	3	0.61
EMH.46.005	PG9,11,13.5,16	18	10	9.90	75	24	5	3	0.7
EMH.46.006	PG21,29,36,42,48	16	12	11.90	82	29	5	3	0.76
EMH.46.007	PG7	20	8	7.90	65	19	5	1	0.61
EMH.46.008	PG9,11,13.5,16	18	10	9.90	75	24	5	1	0.7
EMH.46.009	PG21,29,36,42,48	16	12	11.90	82	29	5	1	0.76

BSW

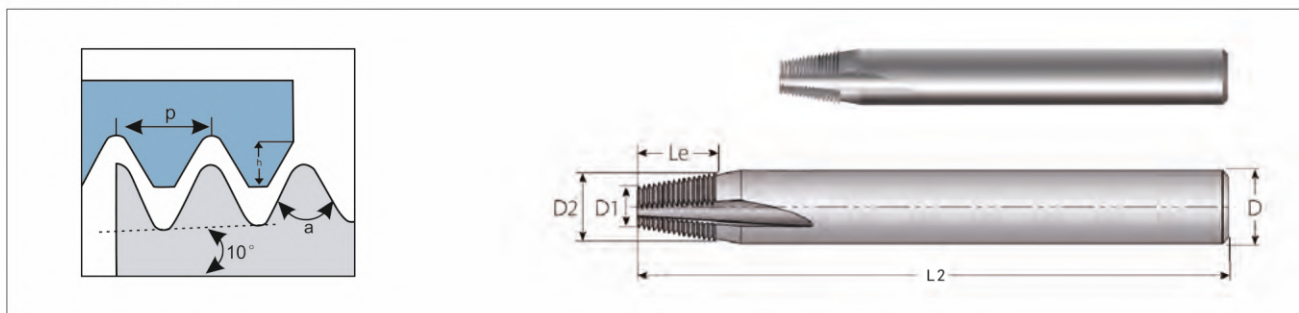


BSW

EMH.47: Spiral Flute Thread Milling - Full Tooth -BSW Threads

UNT EDP#	Nominal Thread Size	Pitch	Metric size				Crest	Flute	
In Thread EX Thread	Min. Dia	TIP	D	D2	L2	Le	Z	Zt	hmm
EMH.47.001	1/4"	20	6	4.00	60	10.16	3	8	0.81
EMH.47.002	5/16"	18	6	5.00	60	11.29	3	8	0.90
EMH.47.003	3/8"	16	6	5.90	60	14.29	3	9	1.02
EMH.47.004	7/16"	14	8	7.90	65	18.41	3,5*	10	1.16
EMH.47.005	1/2"	12	8	7.90	65	19.05	3,5*	9	1.36
EMH.47.006	5/8"	11	10	9.90	75	23.09	5	10	1.48
EMH.47.007	3/4"	10	12	11.90	82	27.94	5	11	1.63
EMH.47.008	7/8"	9	12	11.90	82	28.22	5	10	1.81
EMH.47.009	1"	8	16	15.90	103	38.10	5	12	2.03
EMH.47.010	1 1/8"	7	16	15.90	103	36.29	5	10	2.32
EMH.47.011	1 3/8"	6	16	15.90	103	38.10	5	9	2.71
EMH.47.012	1 5/8"	5	20	19.90	103	40.64	5	8	3.25
EMH.47.013	1 7/8"	4.5	20	19.90	103	39.51	5	7	3.61

60° , 55°



60°

EMH.33: Spiral Flute Taper 60° Thread Cutter - on Boving Cortical Bone

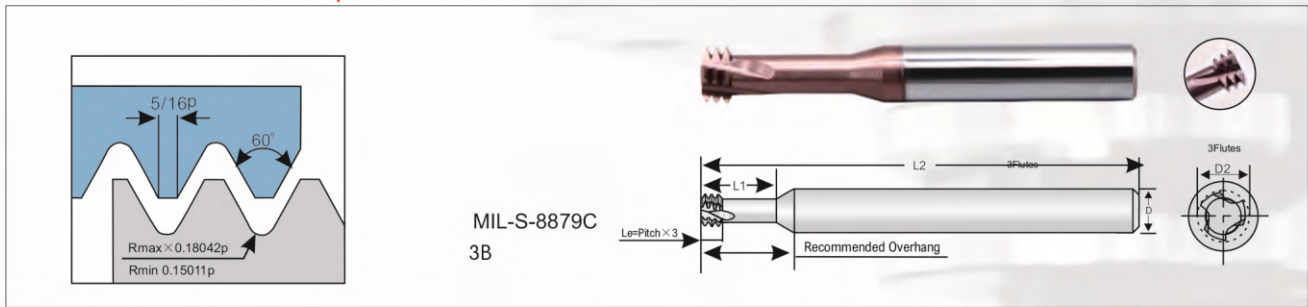
UNT EDP#	Pitch	Conical	Tooth angle	Tooth angle	Metric size					Crest	Flute
In Thread	mm		a	h	D	D2	D1	L2	Le	Z	Zt
EMH.33.001	0.4	20°	60°	0.2	6	5.9	3.2	60	8.0	8.0	20
EMH.33.002	0.5	20°	60°	0.25	6	5.9	2.9	60	9.0	9.0	18

55°

EMH.34: Spiral Flute Taper 55° Thread Cutter - on deep holes process

UNT EDP#	Pitch	Conical	Tooth angle	Tooth angle	Metric size					Crest	Flute
In Thread	mm		a	h	D	D2	D1	L2	Le	Z	Zt
EMH.34.001	0.3	20°	55°	0.18	3	2.8	1.5	38	3.9	3	13
EMH.34.002	0.35	20°	55°	0.20	4	3.9	1.8	50	6.3	3	18
EMH.34.003	0.4	20°	55°	0.29	6	5.9	2.5	60	10.0	3	25
EMH.34.004	0.5	20°	55°	0.33	6	5.9	2.9	60	9.0	3	18
EMH.34.005	0.6	20°	55°	0.47	6	5.9	2.8	60	6.6	3	11

Aerospace thread/UN

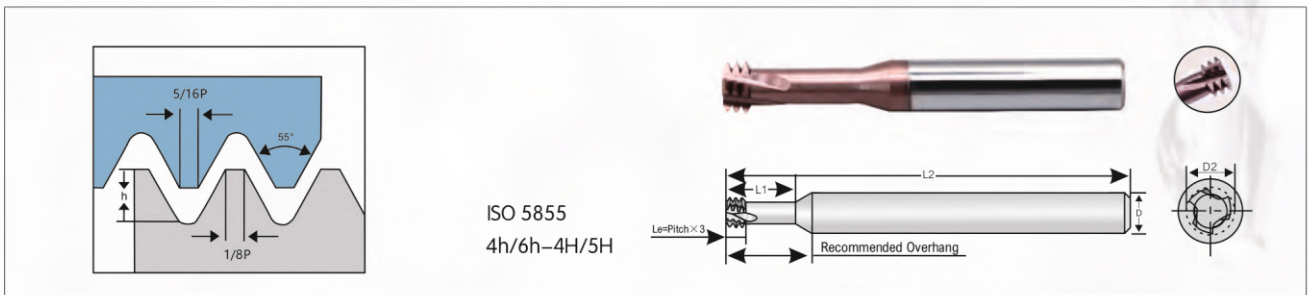


EMH.38: Aerospace thread Milling Cutter- Tri-tooth - American UN

3xD0 (L1 ≤ 3x)

UNT EDP#	Nominal Thread Size		Pitch	Metric size				Crest	Flute	Minor Dia
In Thread	UNC	UNJF	TIP	D	D2	L2	L1	Z	Zt	mm
EMH.38.001	0.138" (#6)	0.190" (#10)	32	6	2.70	60	11.0	3	3	2.8
EMH.38.002		0.250" (1/4")	28	6	5.40	60	19.5	3	3	5.6
EMH.38.003	0.190" (#10)		24	6	3.70	60	14.9	3	3	4.0
EMH.38.004		0.3125" (5/16")	24	8	6.70	60	24.1	3	3	7.0
EMH.38.005	0.250" (1/4")		20	6	5.00	60	19.5	3	3	5.3
EMH.38.006		0.4375" (7/16")	20	10	9.60	75	33.5	3	3	10.0
EMH.38.007	0.3125" (5/16")	0.5625" (9/16")	18	8	6.40	65	24.1	3	3	6.8
EMH.38.008	0.375" (3/8")	0.750" (3/4")	16	8	7.70	65	29.0	3	3	8.1
EMH.38.009	0.4375" (7/16")	0.875" (7/8")	14	10	9.20	75	33.5	3	3	9.5
EMH.38.010	0.500" (1/2")		13	10	9.90	75	38.5	3	3	11.0

Aerospace thread/ISO

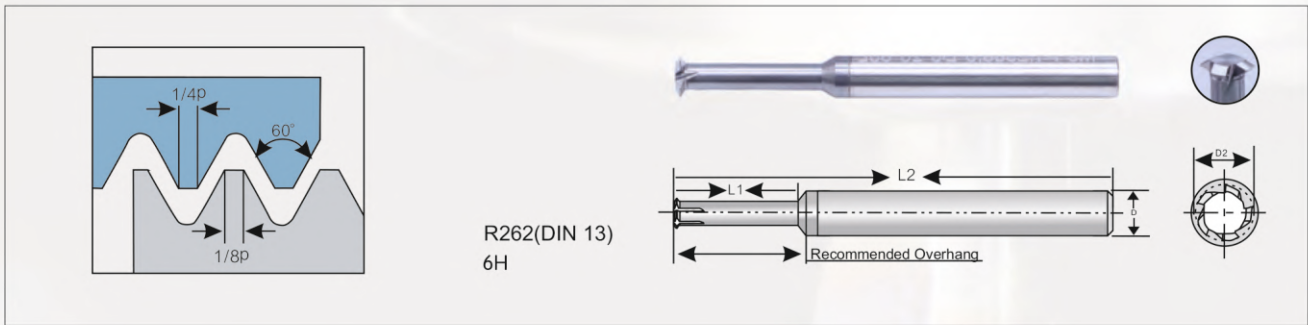


EMH.39: Aerospace thread Milling Cutter- Tri-tooth - ISO Metric

3xD0 (L1 ≤ 3x)

UNT EDP#	Nominal Thread Size	Pitch	Metric size				Crest	Flute	Minor Dia
In Thread		mm	D	D2	L2	Le	Z	Zt	mm
EMH.39.001	MJ3×0.5	0.5	6	2.40	60	9.2	3	3	2.6
EMH.39.002	MJ3.5×0.6	0.6	6	2.85	60	11.0	3	3	3.0
EMH.39.003	MJ4×0.7	0.7	6	3.15	60	12.3	3	3	3.4
EMH.39.004	MJ5×0.8	0.8	6	4.05	60	15.4	3	3	4.3
EMH.39.005	MJ6×1.0	1.0	6	4.80	60	18.5	3	3	5.1
EMH.39.006	MJ8×1.25	1.25	8	6.50	65	24.6	3	3	6.9
EMH.39.007	MJ10×1.5	1.50	10	8.20	75	30.8	3	3	8.7
EMH.39.008	MJ12×1.75	1.75	10	9.90	75	37.0	3	3	10.4
EMH.39.009	MJ14×2	2.0	12	11.90	82	42.5	3	3	12.25

ISO

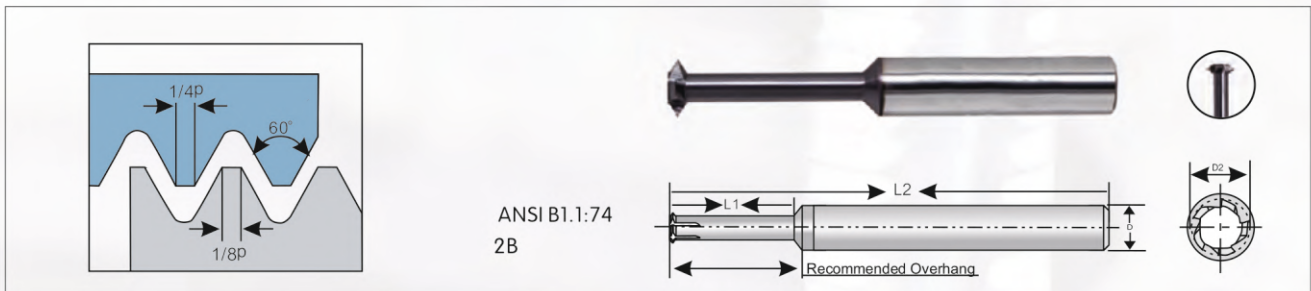


EMH.40: Internal Thread Milling Cutters - Single Form - ISO Millipro threads

3xD0 (L1 ≤ 3x)

UNT EDP#	Nominal Thread Size		Pitch	Metric size			Crest	Flute	Minor Dia	
In Thread	M	M	mm	D	D2	L2	L1	Z	Zt	mm
EMH.40.001	M1.0X0.25	M1.4X0.25	0.25	3	0.70	38	3.1	3	1	0.75
EMH.40.002	M1.2X0.25	M1.4X0.25	0.25	3	0.90	38	3.8	3	1	0.95
EMH.40.003	M1.4X0.3	—	0.30	3	1.05	38	4.4	3	1	1.15
EMH.40.004	M1.6X0.35	—	0.35	3	1.20	38	5.0	3	1	1.30
EMH.40.005	M1.8X0.35	M2.0X0.35	0.35	3	1.40	38	5.6	3	1	1.50
EMH.40.006	M2.0X0.4	—	0.40	3	1.50	38	6.2	3	1	1.65
EMH.40.007	M2.5X0.45	—	0.45	3	1.95	38	7.7	3	1	2.10

Millipro



EMH.41: Miniature Thread Mills for Dental Implants

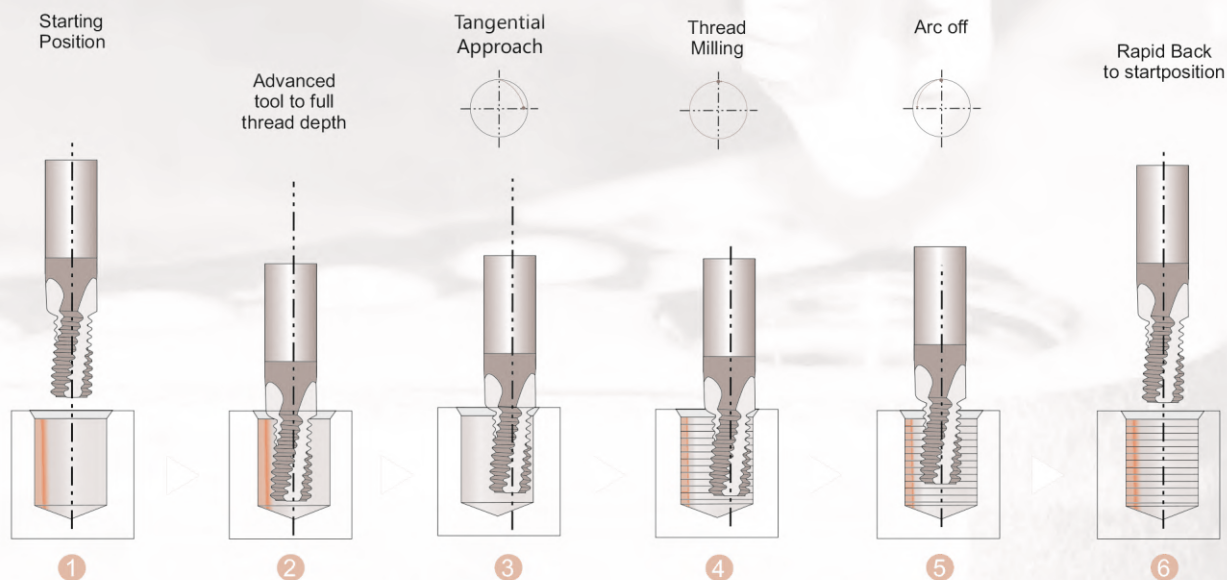
3xD0 (L1 ≤ 3x)

UNT EDP#	Nominal Thread Size	Pitch	Metric size			Crest	Flute	Minor Dia	
IN Thread	UNF	TIP	D	D2	L2	L1	Z	Zt	mm
EMH.41.001	0-80	80.00	3	1.15	38	4.6	3	1	1.30
EMH.41.002	1-72	72.0	3	1.45	38	6.5	3	1	1.60

Trouble Shooting

Specific Problem	Reason	Resolvent
The end mill is damaged.	• The feed speed is too fast and the speed is too slow	• Reduce the feed speed or increase the speed
	• Cutting edge wear severely	• Change the tool and regrind, or reduce the cutting speed
	• Poor cutting, serious sticky chips	• Reselect the tool model and change the cooling method
The blade is easy to crack	• The feed rate is too fast, the cutting edge is too sharp or the tip angle is too sharp	• Chamfering with a diamond file to reduce the feed rate to passivate the cutting edge
Blade is easy to wear	• Swing speed is too fast or feed speed is too slow	• Reduce the number of revolutions or increase the feed speed
	• Poor cutting, serious sticky chips	• Reselect the tool model and change the cooling method
Poor surface finish	• Severe tool wear	• Replace tool
	• The precision of the tool after grinding is not high	• New tools are recommended for finishing
The thread surface is not smooth and has ripples	• Workpiece material is too soft	• Heat treatment to increase the hardness of the workpiece
	• Mproper choice of cutting fluid	• Use cutting fluid with good lubricity
	• Tapping cutting speed is too high	• Appropriately reduce cutting speed

Explanation of Parameters





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