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NSEA 101
04/10

One Nes External replaces many dies!

One Nes Internal instead of many taps!



Shilo Technologies Ltd - Company Profile

▲ COMPANY

Shilo Technologies Ltd, was founded in 1986 to provide multipurpose, cost-effective, innovative mechanical and electro-mechanical tools for the professional and Do-It-Yourself markets worldwide. The company is located in Israel.

▲ BUSINESS

Shilo Technologies Ltd. is a leading manufacturer of innovative hand tools focusing on the field of thread restoring. Its first product, the "Nes 1 External Thread-Restoring Tool" is a revolutionary hand tool, used by professionals as well as Do-It-Yourself users to restore damaged threads.

Due to the innovative nature of the cost effective products, the user can correct a wide range of thread types on site. Following positive reporting by some very prestigious publications - including "Popular Mechanics" - Shilo moved forward, expanding its product range with the Nes 2 and Nes 3.

Shilo is now introducing a new range of tools for repairing internal threads that will further enhance the product range and position the company at the forefront of thread restoring technology.

▲ MARKETING

Shilo Technologies Ltd, participates regularly in the major international tool exhibitions, demonstrating its product family. The products are protected by patents and Intellectual Property Rights.

World-wide sales – USA, Europe and the Far East - are conducted via a network of international distribution outlets. Among Shilo's customers are some leading companies in a wide range of industries.

Restore Damaged Threads with NEW Exciting Range of Hand Tools

Nes External and now **NEW PATENTED Nes Internal** thread restorers are the ideal tools for saving money during maintenance, plumbing, construction, agriculture, car repair and many other applications where there are components with a damaged thread. Compare the cost of disassembling the part in order to repair a component with the INSTANT repair that can be performed with the **Nes External** and **Nes Internal** thread restorers.

- ▲ These hand tools automatically adjust to any thread diameter and pitch, can be used on left hand or right hand threads, both inch and metric and need no prior measurement of the thread.

- ▲ Often the thread of a component is damaged at the end of the thread eliminating the use of taps or dies for carrying out the repair.

Nes External and **Nes Internal** thread restorers have the capability to enter BELOW the damaged area and work outwards to complete the repair.

- ▲ The blades are made of high quality hardened tool steel (internal tools' blades - HSS, external tools' blades - O1). The blades are guided by the existing undamaged section of thread, in order to regroove the damaged section

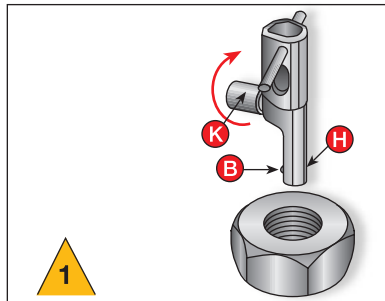
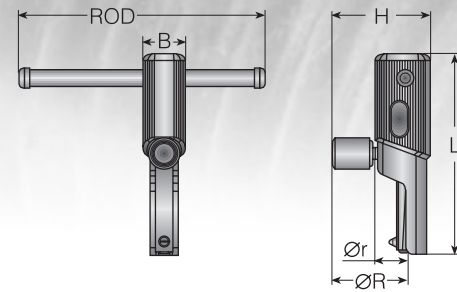


- ▲ The **Nes External** thread restorer is available in 3 sizes and can repair threads from 4 mm (5/32") diameter up to 128 mm (5") dia.

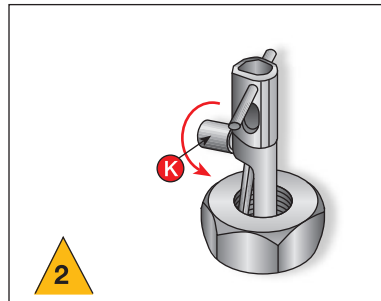


- ▲ The **Nes Internal** thread restorer is available in 6 sizes and can repair threads from 8 mm (5/16") diameter up to 68 mm (2 5/8") diameter.

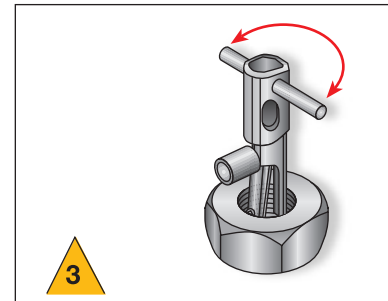
Internal Thread Repair



1 Turn knurled knob **K** to fully retract the blade **B** into the housing **H**. Insert **Nes Internal** tool into the threaded hole or bore to be repaired.

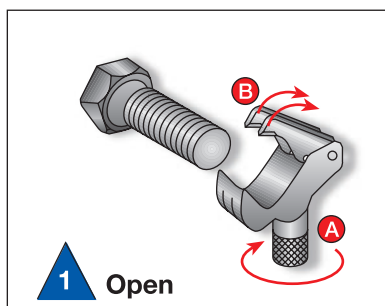
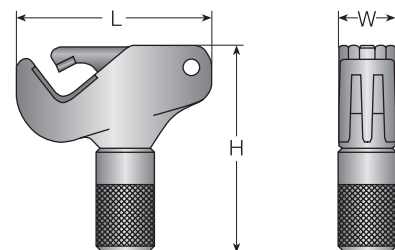


2 Turn knurled knob **K** to extend blade **B** into a thread groove on an undamaged section and tighten by hand only.

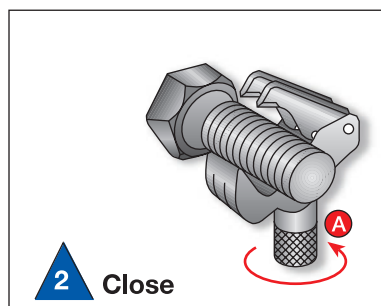


3 Rotate the **Nes Internal** tool by the cross-rod, as shown, in the desired direction.

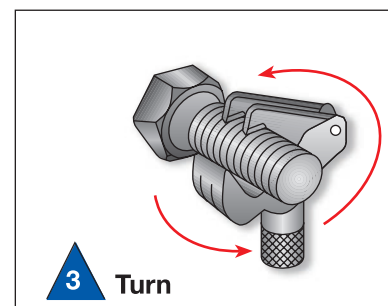
External Thread Repair



1 Open Turn handle **(A)** to raise floating blades **(B)**. Place the **Nes External** tool over thread to be repaired.



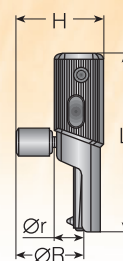
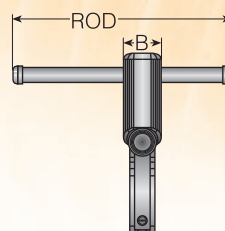
2 Close Turn handle **(A)** to lower floating blades into grooves of thread and tighten by hand only.



3 Turn the **Nes External** tool in direction of the arrow.

Nes[®] Internal

Universal Thread Repair Tool



Nes21 Cat No. 07210

	ØD Range	Pipes	L	B	H	ROD	Ør	ØR	Package Size		Weight	
									W	H	lb	gm
inch	5/16"-7/16"	1/16"-3/16"	4 5/16"	1 1/16"	1 3/4"	4 9/16"	2 1/32"	1 17/32"	4 1/2"	7 3/8"	0.35	160
mm	8-11		109	18	45	116	16	38	115	187		

Replacement Blades:

- RK21 60° Cat No. 07216 (fitted as standard)
- RK21 55° Cat No. 07215



Nes22 Cat No. 07220

	ØD Range	Pipes	L	B	H	ROD	Ør	ØR	Package Size		Weight	
									W	H	lb	gm
inch	1/2"-5/8"	1/4"-3/8"	4 5/16"	1 1/16"	1 3/4"	4 9/16"	1 1/16"	1 9/16"	4 1/2"	7 3/8"	0.37	170
mm	12-16		109	18	45	116	17	39	115	187		

Replacement Blades:

- RK22 60° Cat No. 07226 (fitted as standard)
- RK22 55° Cat No. 07225



Nes23 Cat No. 07230

	ØD Range	Pipes	L	B	H	ROD	Ør	ØR	Package Size		Weight	
									W	H	lb	gm
inch	1 1/16"-1 3/16"	3/8"-1 1/2"	4 3/8"	1 3/16"	2 1/16"	5 1/8"	1 3/16"	1 3/4"	4 1/2"	7 3/8"	0.55	250
mm	16-20		111	21	53	130	20	45	115	187		

Replacement Blades:

- RK23 60° Cat No. 07236 (fitted as standard)
- RK23 55° Cat No. 07235



Nes24 Cat No. 07240

	ØD Range	Pipes	L	B	H	ROD	Ør	ØR	Package Size		Weight	
									W	H	lb	gm
inch	7/8"-1 1/4"	1/2"-7/8"	5 3/8"	1 1/16"	2 1/2"	6 3/8"	1 1/16"	2 1/8"	5"	8 5/16"	1.00	450
mm	22-32		136	27	64	161	27	54	127	211		

Replacement Blades:

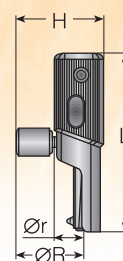
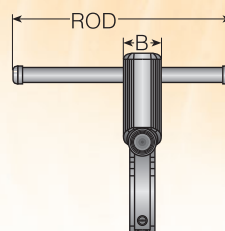
- RK24 60° Cat No. 07246F (fitted as standard)
- RK24 60° Cat No. 07248C - best for threads coarser than 10 T.P.I. or 2.5mm
- RK24 55° Cat No. 07245F
- RK24 55° Cat No. 07242C - best for threads coarser than 10 T.P.I. or 2.5mm



N.B. 55° blades are marked by orange dot.

Nes[®] Internal

Universal Thread Repair Tool



Nes25 Cat No. 07251

	ØD Range*	Pipes	L	B	H	ROD	Ør	ØR	Package Size			Weight	
									L	W	H	lb	gm
inch	1 ¹ / ₄ "-2 ¹ / ₈ "	7 ⁷ / ₈ "-1 ³ / ₄ "	6 ⁷ / ₁₆ "	1 ¹ / ₂ "	3 ³ / ₁₆ "	7 ⁹ / ₁₆ "	1 ³ / ₈ "	2 ⁷ / ₁₆ "	8 ³ / ₁₆ "	3 ³ / ₈ "	1 ⁵ / ₈ "	2.10	950
mm	32-54		163	38	81	192	35	62	208	85	42		

* Attachable sleeve (Code 07259) included for use with diameters between 44-54 mm.

Replacement Blades:

- RK25 60° Cat No. 07256 C (fitted as standard)
- RK25 55° Cat No. 07255 C
- RK25 60° Cat No. 07258 F Best for threads finer than 14 T.P.I. or 1.75mm
- RK25 55° Cat No. 07252 F Best for threads finer than 14 T.P.I. or 1.75mm



Nes26 Cat No. 07263

	ØD Range*	Pipes	L	B	H	ROD	Ør	ØR	Package Size			Weight	
									L	W	H	lb	gm
inch	1 ¹ / ₄ "-2 ⁵ / ₈ "	7 ⁷ / ₈ "-2 ¹ / ₄ "	6 ⁷ / ₁₆ "	1 ¹⁵ / ₁₆ "	3 ⁵ / ₈ "	7 ⁹ / ₁₆ "	1 ⁵ / ₈ "	2 ³ / ₄ "	8 ³ / ₁₆ "	3 ³ / ₈ "	1 ⁵ / ₈ "	2.4	1100
mm	32-68		163	50	92	192	41	70	208	85	42		

* Attachable sleeve (Code 07259) included for use with diameters between 44-54 mm.

* Attachable sleeve (Code 07269) included for use with diameters between 54-68 mm.

Replacement Blades:

- RK25 60° Cat No. 07256 C (fitted as standard)
- RK25 55° Cat No. 07255 C
- RK25 60° Cat No. 07258 F Best for threads finer than 14 T.P.I. or 1.75mm
- RK25 55° Cat No. 07252 F Best for threads finer than 14 T.P.I. or 1.75mm
- RK26 60° Cat No. 07266 C
- RK26 55° Cat No. 07265 C
- RK26 60° Cat No. 07268 F Best for threads finer than 14 T.P.I. or 1.75mm
- RK26 55° Cat No. 07262 F Best for threads finer than 14 T.P.I. or 1.75mm

N.B. 55° blades are marked by orange dot.



Nylon Pads

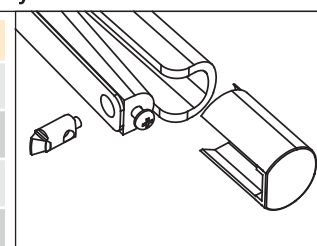
Internal tool accessories

Available for TM-20, Nes-21, Nes-22, Nes-23, Nes-24 internal tools to be used for the repair of threads in Aluminum or other soft metals. Each Pad is clearly embossed with the Nes item number.

Nes Nylon Pads are produced from top quality polyamide resins which represent superior toughness, resilience and outstanding mechanical properties over a wide range of operating environments. The Pads are designed for multiple usages - dependent on the severity of the damage.

Note: Range dimensions for Nes tools with Nylon Pads are as follows:

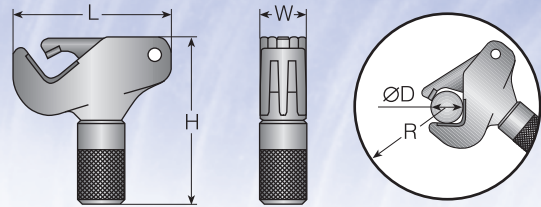
Tool	Pad Cat No.	mm	inch
TM20	07207	6-9	1 ¹ / ₄ "-3 ³ / ₈ "
Nes21	07217	9-12	3 ³ / ₈ "-1 ¹ / ₂ "
Nes22	07227	14-18	9 ⁹ / ₁₆ "-1 ¹¹ / ₁₆ "
Nes 23	07237	18-22	1 ¹¹ / ₁₆ "-7 ⁷ / ₈ "
Nes 24	07247	22-33	7 ⁷ / ₈ "-1 ⁵ / ₁₆ "






Nes[®] External

Universal Thread Repair Tool



Nes 1A Cat No. 06001

	ØD Range	Pipes	L	W	H	R	Package Size			Weight	
							W	H		lb	gm
inch	5/32" - 11/16"	Up to 7/16"	2 3/8"	29/32"	2 7/16"	2 11/16"	4 1/2"	7 3/8"		0.5	225
mm	4-18		61	23	62	68	115	187			



Replacement Blades:

- RK1 60° Cat No. 00010 (fitted as standard)
- RK1 55° Cat No. 00020

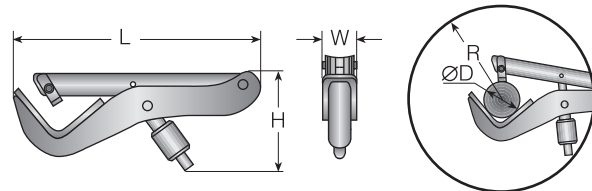
Nes 2 Cat No. 02000

	ØD Range	Pipes	L	W	H	R	Package Size			Weight	
							W	H		lb	gm
inch	1 1/16" - 1 1/2"	3/8" - 1 1/8"	4 1/8"	1 1/2"	4 5/16"	4 5/8"	5 5/16"	8 1/8"		1.2	550
mm	17-38		105	32	110	117	135	205			




Replacement Blades:

- RK2 60° Cat No. 00030 (fitted as standard)
- RK2 55° Cat No. 00040
- RK2 60° Cat No. 00031F - For threads finer than 17 TPI or 1.5 mm
- RK2 55° Cat No. 00041F - For threads finer than 17 TPI or 1.5 mm



Nes 3 Cat No. 03000

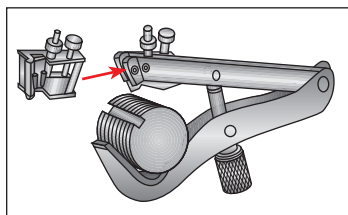
	ØD Range	Pipes	L	W	H	R	Package Size			Weight	
							L	W	H	lb	gm
inch	1 1/4" - 5"	1" - 4 1/2"	12"	1 3/4"	5 1/8"	9 7/8"	12 3/8"	2"	5 1/2"	4.4	1950
mm	32-128		305	44	130	250	315	51	140		



Replacement Blades:

- RK3 60° Cat No. 03010 (fitted as standard)
- RK3 55° Cat No. 03020
- RK3 60° Cat No. 03011C - For threads coarser than 7 TPI or 3.5 mm
- RK3 55° Cat No. 03021C - For threads coarser than 7 TPI or 3.5 mm
- RK3 60° Cat No. 03012F - For threads finer than 14 TPI or 1.75 mm
- RK3 55° Cat No. 03022F - For threads finer than 14 TPI or 1.75 mm

Nes 3 Keyway Skip Accessory - Cat No. 03101



Providing a new dimension to NES 3, This accessory enables the versatile re-threader to glide over Keyway, Slots, Grooves or channels.

For repairing damage threaded shafts with slot for key or tab washer, choose the appropriate addition cutter for best results.

Replacement Blades:

- RK 3 60° 1.0mm 03032
- RK 3 60° 1.25mm 03033
- RK 3 60° 1.5mm 03034
- RK 3 60° 1.75mm 03035
- RK 3 60° 24 TPI 03124
- RK 3 60° 20 TPI 03120
- RK 3 60° 18 TPI 03118
- RK 3 60° 16 TPI 03116
- RK 3 60° 14 TPI 03114



Nes® Sets

Universal Thread Repair Tool



Set 12 External *External 4-38 mm 5/32"-1 1/2"*

Model	Cat. No.	Contents		Package Size			Weight	
				L	W	H	lb	gm
Nes 12	01000	Nes External 1A Nes External 2 RK1 60° RK2 60°	inch	10 ¹ / ₁₆ "	6"	1 ¹³ / ₁₆ "	2.7	1200
			mm	256	152	46		



Set 123 External *External 4-128 mm 5/32"-5"*

Model	Cat. No.	Contents		Package Size			Weight	
				L	W	H	lb	gm
Nes 123	01300	Nes External 1A Nes External 2 Nes External 3 Nes Cleaner Nes3 Extension Handle RK1 60° RK2 60° RK3 60°	inch	17"	9 1/2"	2 ⁹ / ₁₆ "	8.8	4000
			mm	430	240	65		



Set 1007 Internal *Internal 8-20 mm 5/16"-13/16"*

Model	Cat. No.	Contents		Package Size			Weight	
				L	W	H	lb	gm
Nes 1007	01007	Nes Internal 21 Nes Internal 22 Nes Internal 23 RK 21 60° RK 22 60° RK 23 60°	inch	10 ¹³ / ₁₆ "	8 1/16"	1 ¹⁵ / ₁₆ "	1.8	820
			mm	275	205	50		



Set 1008 Internal *Internal 8-32 mm 5/16"-1 1/4"*

Model	Cat. No.	Contents		Package Size			Weight	
				L	W	H	lb	gm
Nes 1008	01008	Nes Internal 21 Nes Internal 22 Nes Internal 23 Nes Internal 24 RK 21 60° RK 22 60° RK 23 60° RK 24 60°	inch	10 ¹³ / ₁₆ "	8 1/16"	1 ¹⁵ / ₁₆ "	2.9	1300
			mm	275	205	50		



Set 1036 Internal *Internal 22-68 mm 7/8"-2 5/8"*

Model	Cat. No.	Contents		Package Size			Weight	
				L	W	H	lb	gm
Nes 1036	01036	Nes Internal 24 Nes Internal 25 Sleeve 07259 Sleeve 07269 RK 24 60° RK 25 60°F RK 26 60°F RK 26 60°C	inch	10 ¹³ / ₁₆ "	8 1/16"	1 ¹⁵ / ₁₆ "	4.4	2000
			mm	275	205	50		



Nes® Sets

Universal Thread Repair Tool



Set 1015 Combination

External 4-18 mm 5/32"-11/16"

Internal 8-16 mm 5/16"-5/8"

Model	Cat. No.	Contents		Package Size			Weight	
				L	W	H	lb	gm
Nes 1015	01015	Nes External 1A Nes Internal 21 Nes Internal 22	RK 1 60° RK 21 60° RK 22 60°	inch	10 ¹ / ₁₆ "	6	1 ¹³ / ₁₆ "	1.7 800
				mm	256	152	46	



Set 1017 Combination

External 4-18 mm 5/32"-11/16"

Internal 8-20 mm 5/16"-13/16"

Model	Cat. No.	Contents		Package Size			Weight	
				L	W	H	lb	gm
Nes 1017	01017	Nes External 1A Nes Internal 21 Nes Internal 22 Nes Internal 23	RK 1 60° RK 21 60° RK 22 60° RK 23 60°	inch	10 ¹ / ₁₆ "	6	1 ¹³ / ₁₆ "	2.3 1030
				mm	256	152	46	



Set 1025 Combination

External 4-38 mm 5/32"-1¹/₂"

Internal 8-32 mm 5/16"-1¹/₄"

Model	Cat. No.	Contents		Package Size			Weight	
				L	W	H	lb	gm
Nes 1025	01025	Nes External 1A Nes External 2 Nes Internal 21 Nes Internal 22 Nes Internal 23 Nes Internal 24	RK 1 60° RK 2 60° RK 21 60° RK 22 60° RK 23 60° RK 24 60°	inch	10 ¹³ / ₁₆ "	8 ¹ / ₁₆ "	1 ¹⁵ / ₁₆ "	4.9 2020
				mm	275	205	50	



Nes® Sets

Universal Thread Repair Tool



Set 1044 MINI-KIT

External 4-13mm 5/32"-1/2"

Internal 5-12mm no.12"-1/2"

Model	Cat. No.	Contents		Package Size			Weight	
				L	W	H	lb	gm
Mini-Kit 1044	01044	TM external TM 20 internal TM 21 internal 4 Nylon Pad 20 4 Nylon Pad 21	inch	5 ¹³ / ₁₆	4 ¹ / ₁₆	1 ³ / ₁₆	0.7	320
			mm	148	104	21		



Replacement Blades:

- RK
- TM20 Blade60 + Holder 06056
 - TM21 Blade60 + Holder 06057
 - TM20 Blade55 + Holder 06058
 - TM21 Blade55 + Holder 06059

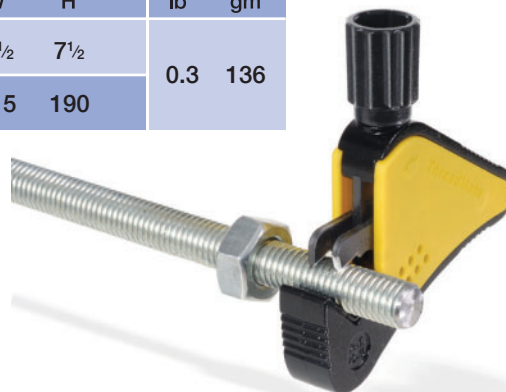


ThreadMate Cat No. 06040

	ØD Range	Pipes	L	W	H	R	Package Size		Weight	
							W	H	lb	gm
inch	5/32" - 1/2"	up to 1/4	2 ³ / ₄	2 ⁷ / ₈	9/16	2 ⁵ / ₁₆	4 ¹ / ₂	7 ¹ / ₂	0.3	136
mm	4-13		70	73	14	59	115	190		

Replacement Blades:

- RK
- TM1 Blade + Guide 55° 06045
 - TM1 Blade + Guide 60° 06046



MINIKIT Display Cat No. 00006



Present 6 Mini-Kits together



Nes®

Recommendation for Nes Internal tool selection

Find the best tool for your application by the color at the intersection of the column represented by the diameter of your workpiece and the row with the pitch of thread to be repaired.

Diameter Inch	Nr. 12	1/4	5/16	3/8	7/16	1/2	9/16	5/8	11/16-3/4		13/16		7/8	15/16	1-1.1/16	1.1/8	1.3/16	1.1/4	1.5/16	1.3/8-1.9/16	1.5/8	1.3/4	1.7/8	2-2.3/16	2.3/1-2.5/8
Diameter mm	5	6	8	10	11	12	14-15	16	17-19	20		21	22	24	25-27	28	30	32	33	35-40	42	44	45-48	50-55	54-68
tpi	Pitch																								
32	0.8																								
28																									
26																									
24	1																								
22																									
20	1.25																								
18																									
	1.5																								
16																									
14	1.75																								
13	2																								
12																									
11.5																									
11																									
10	2.5																								
9																									
	3																								
8																									
	3.5																								
7																									
	4																								
6																									
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4.5																									

Color Key

- ThreadMate 20
- Nes Internal 21 & ThreadMate 21
- Nes Internal 22
- Nes Internal 23
- Nes Internal 24
- Nes Internal 25
- Nes Internal 25 including sleeve
- Sleeve 26



Recommendation for Nes External tool selection

Diameter Inch	5/32	3/16	1/4	5/16	3/8		7/16	1/2	9/16		5/8	11/16		3/4		13/16	7/8	15/16	1	1 1/8	1 3/16	1 1/4	1 3/8		1 1/2		1 5/8	1 3/4	2	2 1/2	3	3 1/2	4	4 1/2	5
Diameter mm	4	5	6	8	9	10	11	12	14	15	16	17	18	19	20		22	24	25	28	30	32	35	36	38	40	42	44	50	64	80		100		128
tpi																																			
Pitch																																			
28																																			
26																																			
24	1																																		
22																																			
20	1.25																																		
18																																			
16	1.5																																		
14	1.75																																		
13	2																																		
12																																			
11.5																																			
11																																			
10	2.5																																		
9																																			
8	3																																		
7																																			
6	3.5																																		
5																																			
4.5	4																																		
4	4.5																																		
	6																																		

Color Key

- ThreadMate1
- Nes 1A
- Nes 2
- Nes 3