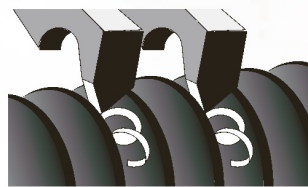




One Nes External replaces many dies!



One Nes Internal instead of many taps!



Nes[®]

The Thread Repair Experts



TECHSHARP
Hydraulics Solution Pvt. Ltd.



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

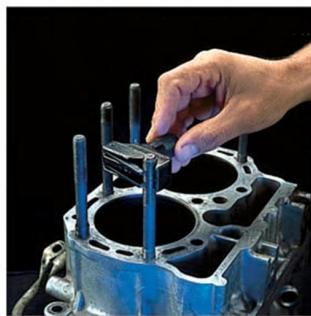
Shilo Technologies Ltd. Participate regularly in the major international tool exhibitions, demonstrating its product family. The products are protected by Patents and Intellectual Property Rights.

World-wide sales – USA, Europe & 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 need to be performed with the Nes External and Nes Internal thread restorers.

- ▲ These hand tools automatically adjust to any threads diameter and pitch, can be used on left & right hand threads, both inch and metric and need no prior measurement of the thread.
- ▲ Often the thread of 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 damage 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 4 sizes and can repair threads from 4 mm ($\frac{5}{32}$ " diameter up to 152 mm (6" diameter).



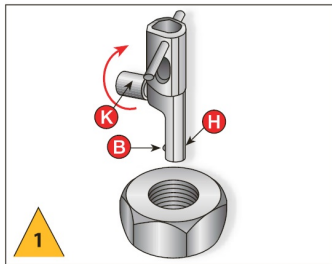
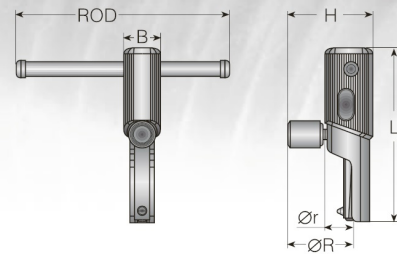
- ▲ The **Nes Internal** thread restorer is available in 6 sizes and can repair threads from 5 mm (#12) diameter up to 68 mm ($2\frac{5}{8}$ " diameter).



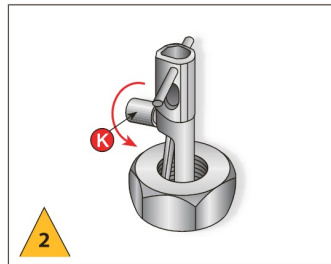


User Guide

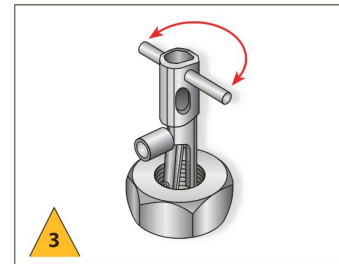
Internal Thread Repair



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

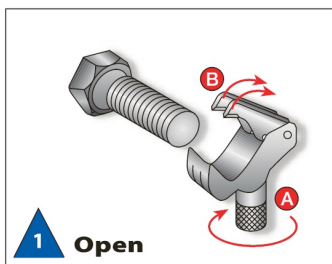
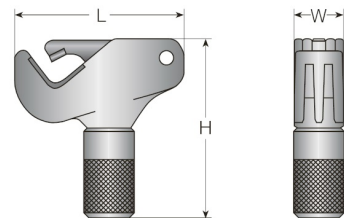


Turn knurled knob (K) to extend blade (B) into a thread groove on an undamaged section and tighten by hand only.

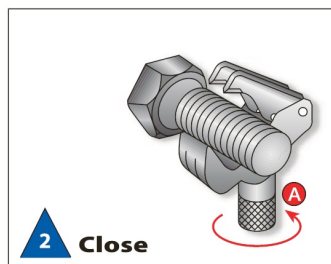


Rotate the **Nes Internal** tool by the cross-rod, as shown, in the desired direction.

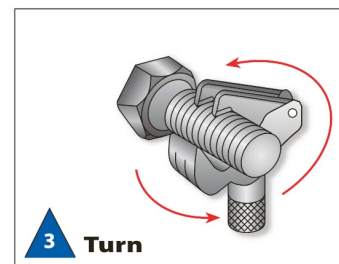
External Thread Repair



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



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



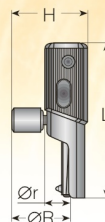
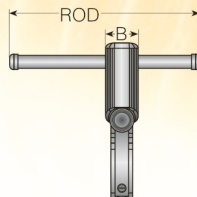
Turn the **Nes External** tool in direction of the arrow.





Nes® Internal

Universal Thread Repair Tool



Nes21 Cat # 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"	1 1/16"	1 9/16"	4 1/2"	7 3/8"	0.23	100
mm	8-11		109	18	45	116	17	39	115	187		

Replacement Blades:

- RK21 60° Cat # 07216 (fitted as standard)
- RK21 55° Cat # 07215



Nes22 Cat # 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"	0.27	120
mm	12-16		109	18	45	116	17	39	115	187		

Replacement Blades:

- RK22 60° Cat # 07226 (fitted as standard)
- RK22 55° Cat # 07225



Nes23 Cat # 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" - 1/2"	4 3/8"	1 3/16"	2 1/16"	5 1/8"	1 3/16"	1 3/4"	4 1/2"	7 3/8"	0.45	200
mm	16-20		111	21	53	130	20	45	115	187		

Replacement Blades:

- RK23 60° Cat # 07236 (fitted as standard)
- RK23 55° Cat # 07235



Nes24 Cat # 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"	0.9	400
mm	22-32		136	27	64	161	27	54	127	211		

Replacement Blades:

- RK24 60° Cat # 07246F (fitted as standard)
- RK24 60° Cat # 07248C - best for threads coarser than 10 TPI or 2.5mm
- RK24 55° Cat # 07245F
- RK24 55° Cat # 07242C - best for threads coarser than 10 TPI or 2.5mm

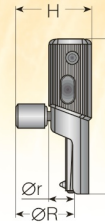
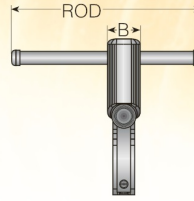
N.B. 55° blades are marked by orange dot.





Nes® Internal

Universal Thread Repair Tool



Nes25 Cat # 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"	7/8" - 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 to use with diameters between 44-54 mm.

Replacement Blades:

- RK25 60° Cat # 07256C (fitted as standard)
- RK25 55° Cat # 07255C
- RK25 60° Cat # 07258F – best for threads finer than 14 TPI or 1.75mm
- RK25 55° Cat # 07252F – best for threads finer than 14 TPI or 1.75mm



Nes26 Cat # 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"	7/8" - 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"	2.40	1100
mm	32-68		163	50	92	192	41	70	208	85	42		

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

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

Replacement Blades:

- RK25 60° Cat # 07256C (fitted as standard)
- RK25 55° Cat # 07255C
- RK25 60° Cat # 07258F – best for threads finer than 14 TPI or 1.75mm
- RK25 55° Cat # 07252F – best for threads finer than 14 TPI or 1.75mm
- RK 26 60° Cat No. 07266C
- RK 26 60° Cat No. 07265C
- RK26 60° Cat # 07268F – best for threads finer than 14 TPI or 1.75mm
- RK26 55° Cat # 07262F – best for threads finer than 14 TPI or 1.75mm

N.B 55° blades are marked by Orange dot



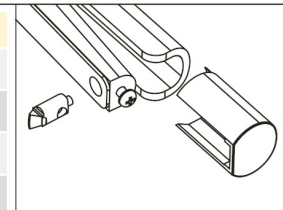
Nylon Pads

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

Internal tool accessories

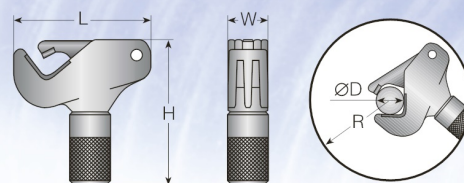
Available for TM20, TM21, Nes21, Nes22, Nes23, Nes24 Internal tools to be used for repair of threads in Aluminum or other soft metals. Each Pad is clearly embossed with the Nes item number. Nes Nylon Pads are produced from top quality Polyamide resins which represent superior toughness, resilience and outstanding mechanical properties over a wide range of operating environments. The Pads are designed for multiple usages – dependent on the severity of the damage.

Tool	Pad Cat #	mm	inch
TM20	07207	6-9	1/4 - 3/8
TM21/ Nes21	07217	9-12	3/8 - 1/2
Nes22	07227	14-18	9/16 - 11/16
Nes23	07237	18-22	11/16 - 7/8
Nes24	07247	22-33	7/8 - 1 5/16





Universal Thread Repair Tool



Nes1A Cat # 06001

	ØD Range	Pipes	L	W	H	R	Packaged Size			Weight	
							W	H		lb	gm
inch	5/32" - 3/4"	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	4-19		61	23	62	68	115	187			

Replacement Blades:

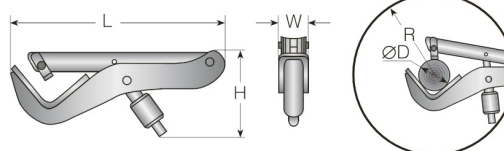
- RK 1 60° Cat # 00010 (fitted as standard)
- RK 1 55° Cat # 00020

Nes2 Cat # 02000

	ØD Range	Pipes	L	W	H	R	Packaged 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:

- RK 2 60° Cat # 00030 (fitted as standard)
- RK 2 55° Cat # 00040
- RK2 60° Cat # 00031F – For threads finer than 17 TPI or 1.5mm
- RK2 55° Cat # 00041F – For threads finer than 17 TPI or 1.5mm



Nes3 Cat # 03000

	ØD Range	Pipes	L	W	H	R	Packaged Size			Weight	
							L	W	H	lb	gm
inch	1 3/8" - 6"	1" - 5 1/2"	12"	1 1/4"	5 1/8"	9 7/8"	12 3/8"	2"	5 1/2"	4.0	1820
mm	35-152		305	32	130	250	315	51	140		

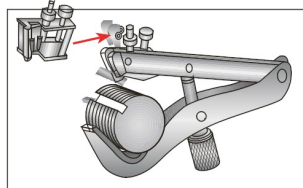
Replacement Blades:

- RK 3 60° Cat # 03010 (fitted as standard)
- RK 3 55° Cat # 03020
- RK 3 60° Cat # 03011C – For threads coarser than 7 TPI or 3.5mm
- RK 3 55° Cat # 03021C – For threads coarser than 7 TPI or 3.5mm
- RK 3 60° Cat # 03012F – For threads finer than 14 TPI or 1.75mm
- RK 3 55° Cat # 03022F – For threads finer than 14 TPI or 1.75mm

Nes 3 Keyway Skip Accessory

Cat # 03101 for threads finer than 2.5mm or 10 TPI

Cat # 03104 for threads coarser than 2.5mm or 10 TPI



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 slots 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° 2.0mm 03036
- 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

Nes1000 External External 4-38 mm $\frac{5}{32}$ " - $1\frac{1}{2}$ "

Model	Cat. #	Contents		Packaged Size			Weight	
				L	W	H	lb	gm
Nes 1000	01000	Nes external 1A Nes External 2	RK 1 60° RK 2 60°	inch	10 $\frac{1}{16}$ "	6"	1 $\frac{13}{16}$ "	2.7 1200
				mm	256	152	46	



Nes1300 External External 4-152 mm $\frac{5}{32}$ " - 6"

Model	Cat. #	Contents		Packaged Size			Weight	
				L	W	H	lb	gm
Nes 1300	01300	Nes external 1A Nes External 2 Nes External 3 Nes Cleaner Nes 3 extension handle	RK 1 60° RK 2 60° RK 3 60°	inch	17"	9 $\frac{1}{2}$ "	2 $\frac{9}{16}$ "	8.4 3750
				mm	430	240	65	



Nes1007 Internal Internal 8-20 mm $\frac{5}{16}$ " - $1\frac{3}{16}$ "

Model	Cat. #	Contents		Packaged 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 $\frac{13}{16}$ "	8 $\frac{1}{16}$ "	1 $\frac{15}{16}$ "	1.9 860
				mm	275	205	50	



Nes1008 Internal Internal 8-32 mm $\frac{5}{16}$ " - $1\frac{1}{4}$ "

Model	Cat. #	Contents		Packaged 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 $\frac{13}{16}$ "	8 $\frac{1}{16}$ "	1 $\frac{15}{16}$ "	2.9 1300
				mm	275	205	50	



Nes1036 Internal Internal 22-68 mm $\frac{7}{8}$ " - $2\frac{5}{8}$ "

Model	Cat. #	Contents		Packaged 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 $\frac{13}{16}$ "	8 $\frac{1}{16}$ "	1 $\frac{15}{16}$ "	4.4 2000
				mm	275	205	50	





Nes® Sets

Universal Thread Repair Tool



Nes1015 Combination

External 4-19 mm $\frac{5}{32}$ " - $\frac{3}{4}$ " Internal 8-16 mm $\frac{5}{16}$ " - $\frac{5}{8}$ "

Model	Cat. #	Contents			Packaged 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 $\frac{1}{16}$ "	6"	1 $\frac{13}{16}$ "	1.7	800
				mm	256	152	46		



Nes1017 Combination

External 4-19 mm $\frac{5}{32}$ " - $\frac{3}{4}$ " Internal 8-20 mm $\frac{5}{16}$ " - $1\frac{3}{16}$ "

Model	Cat. #	Contents			Packaged 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 $\frac{1}{16}$ "	6"	1 $\frac{13}{16}$ "	2.2	1000
				mm	256	152	46		



Nes1025 Combination

External 4-38 mm $\frac{5}{32}$ " - $1\frac{1}{2}$ " Internal 8-32 mm $\frac{5}{16}$ " - $1\frac{1}{4}$ "

Model	Cat. #	Contents			Packaged 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 $\frac{13}{16}$ "	8 $\frac{1}{16}$ "	1 $\frac{15}{16}$ "	4.9	2200
				mm	275	205	50		





Universal Thread Repair Tool



Nes1044 MINI-KIT

External 4-13 mm $\frac{5}{32}$ " - $\frac{1}{2}$ " Internal 5-12 mm #12" - $\frac{1}{2}$ "

NEW

Model	Cat. #	Contents		Packaged Size			Weight	
				L	W	H	lb	gm
Nes 1044 Mini-Kit	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 60° + holder Cat # 06056
- RK TM20 55° + holder Cat # 06058
- RK TM21 60° + holder Cat # 06057
- RK TM21 55° + holder Cat # 06059

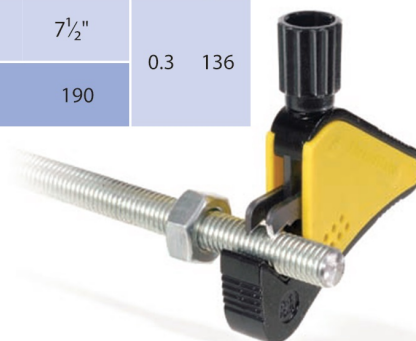


ThreadMate Cat # 06040

	ØD Range	Pipes	L	W	H	R	Packaged Size		Weight	
							W	H	lb	gm
inch	$\frac{5}{32}$ " - $\frac{1}{2}$ "	Up to - $\frac{1}{4}$ "	2 $\frac{3}{4}$ "	2 $\frac{7}{8}$ "	$\frac{9}{16}$ "	2 $\frac{5}{16}$ "	4 $\frac{1}{2}$ "	7 $\frac{1}{2}$ "	0.3	136
mm	4-13		70	73	14	59	115	190		

Replacement Blades:

- RK TM1 60° Cat # 06046
- RK TM1 55° Cat # 06045



MINIKIT Display Cat # 00006



NEW

Present 6 Mini-Kits together





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	1-1/16	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	2-3/16-2-5/8	
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																								
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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 10 11 7/16 1/2 9/16 15 5/8 11/16 17 18 3/4 20 13/16 7/8 15/16 1 1 1/8 1 1/16 1 1/4 1 3/8 1 1/2 40 1 5/8 1 3/4 2 2 1/2 3 3 1/2 4 5 6																																	
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 80 100 128 152																																	
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	3.5																																	
6	4																																	
5	4.5																																	
4.5	5																																	
4	6																																	

Color Key:

- ThreadMate 1
- Nes 1A
- Nes 2
- Nes 3

TECHSHARP HYDRAULICS SOLUTIONS

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