



Shenzhen Boerane Technology Co., Ltd

Key Locking Thread Insert



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Shenzhen Boerane Technology Co., Ltd was established in 2004 as a proficient production and manufacturing enterprise that seamlessly integrates technology research, product manufacturing, and sales. Their product range includes Key Locking Inserts, Self Tapping Inserts, Wire Thread Inserts, Tailless Thread Inserts, Installation Tools, and Thread Repair Kits. With robust technical capabilities, advanced design standards, cutting-edge production equipment, and precision testing tools, the company specializes in offering comprehensive technical support throughout the entire process of threaded insert design and utilization.

Boerane is committed to technological innovation and refined product processing, having achieved success in fundamental research, new product development, process innovation, equipment enhancement, production control, quality management, and market expansion.

Their threaded insert products adhere to various international standards, catering to the aerospace, shipbuilding, high-voltage electrical components, and general mechanical sectors. The company also customizes products for European, American, and other foreign customers, following global standards. Boerane holds certifications for the "ISO9001:2015 Quality Management System" and "IATF 16949:2016", demonstrating its commitment to responsible business practices.

Operating across 7000 square meters, the company comprises two plants covering 2000 and 1000 square meters, boasting an annual output exceeding 5 million USD. With over 80 employees, including 5 senior executives and a 12-member R&D team, Boerane remains dedicated to professionalism and quality.

Business goal centers on "Professional Focus, Building a Brand," and business purpose revolves around "Quality Assurance, Reliable Price." Upholding the values of integrity and pioneering, Boerane promises customers high-quality products and services in line with their commitment to excellence.

Product Capability



Auto-lathe turning
OD 0.5–20mm Tol.±0.01mm
CNC lathe turning
OD 0.5–250mmTol.±0.05mm
CNC Milling
800X600mm (LxW), Tol.±0.05mm
Grinding: Tol.±0.002mm
Screw heading & rolling:
Metric M8-M36
Unified Imperial #0-2"
Stamping: 1200 T max



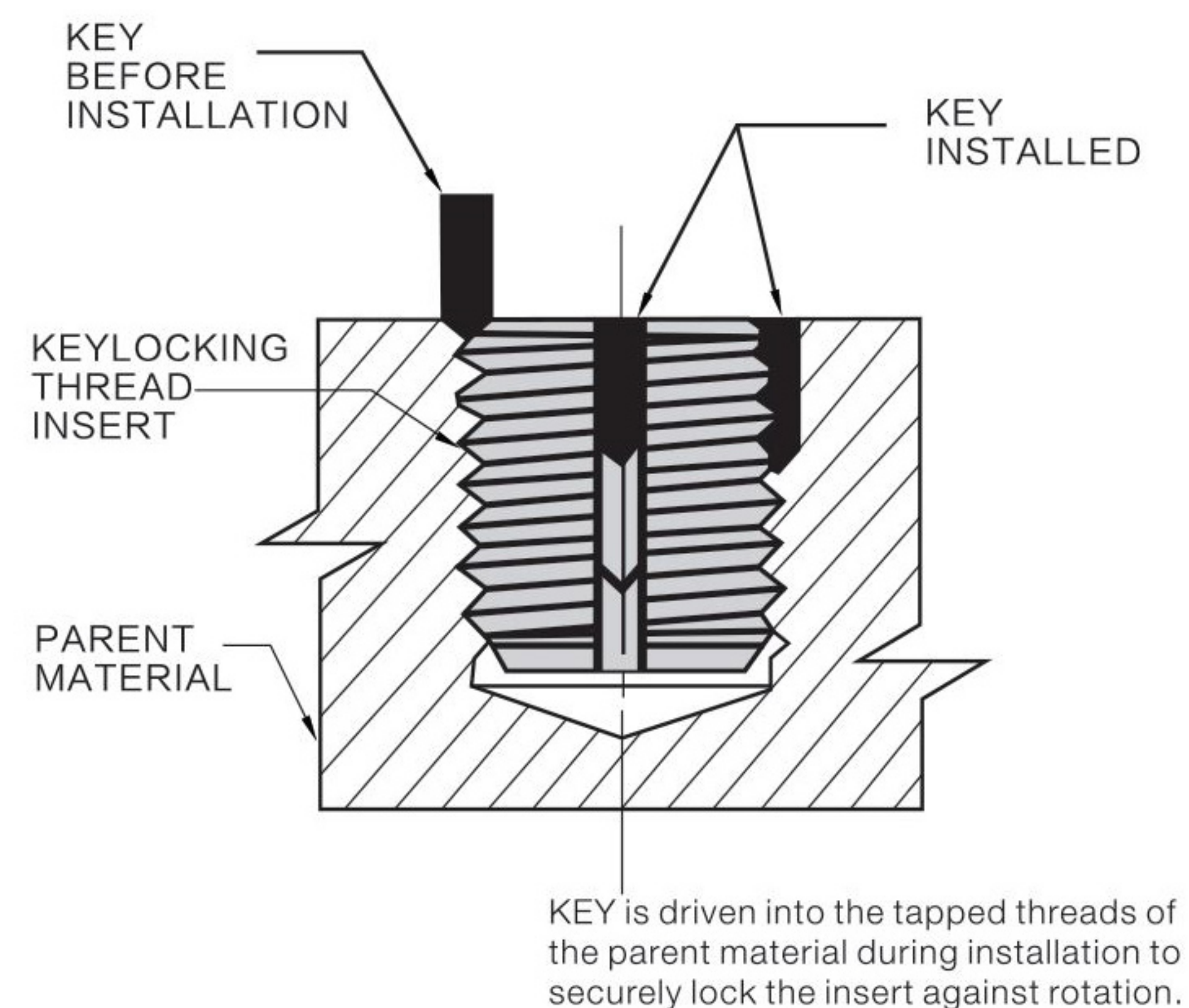
- 01 Automatic Lathe
- 02 CNC Lathe
- 03 CNC Machine
- 04 Screw Machine
- 05 Stamping Equipment
- 06 Injection machine
- 07 Ultraprecision Machining
- 08 Precision Grinding

Keylocking threaded inserts...

Product features:

Keylocking threaded inserts are used to quickly repair stripped, damaged or worn out threads with new stronger threads or for use in original equipment. The inserts are easy to install and easy to remove. No special drill steps or pre-winder tools are required. The keys are driven down into the threads of the surrounding base material, locking the inserts in place.

- Solid, one-piece insert construction provides a high degree of pull-out strength
- Key supply a positive mechanical lock against rotation
- Easy installation and removal
- Installed with standard drills and taps
- No pre-winder tool required
- No tang to break-off
- May be used in many types of materials



Hole prepared with standard taps and drills. Installs in seconds with Tridar power installation tool.

Available in many sizes in heavy duty and extra heavy duty configuration.

Meets the following configuration specifications: MS51831, MS51832, MS51833, MS51834 SERIES.

Internal thread locking feature meets the requirements of ML-I-45914.

Exclusive external thread design provides maximum pull-out strength with a minimum outside diameter.

Materials:

Inserts Materials-

- 1=303 Stainless Steel
- 2=304 Stainless Steel
- 3=316 Stainless Steel
- 4=17-4 PH Stainless
- 5=A286 Stainless
- 6=Nitronic 60 stainless steel
- 7=4140 Alloy
- 8=Inconel 718
- 9=Carbon Steel

Keys Materials -

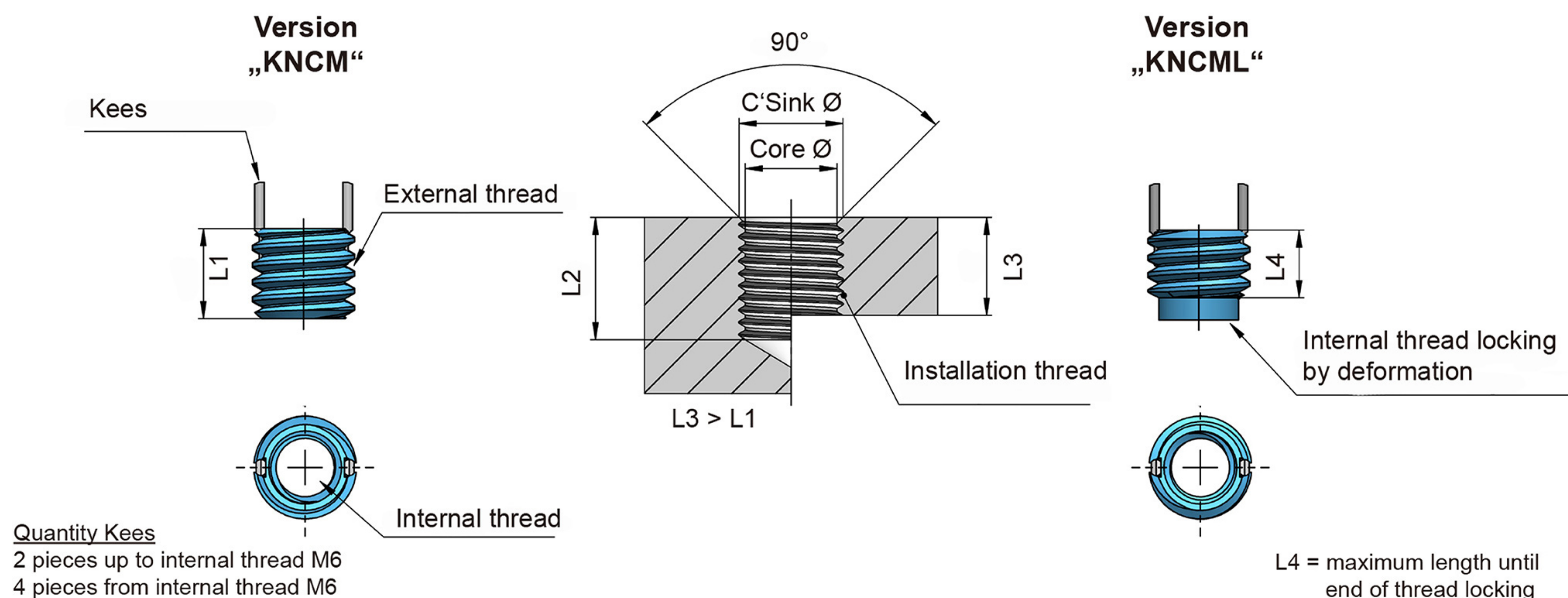
- 1=302 Stainless Steel
- 2=420 Stainless (Self-Broaching)

Finishes:

- 1=Zinc Phosphate
- 2=Passivate
- 3=Cadmium
- 4=Dry-Film Lube
- 5=Silver
- 6=Nickel

Tolerances Thread:

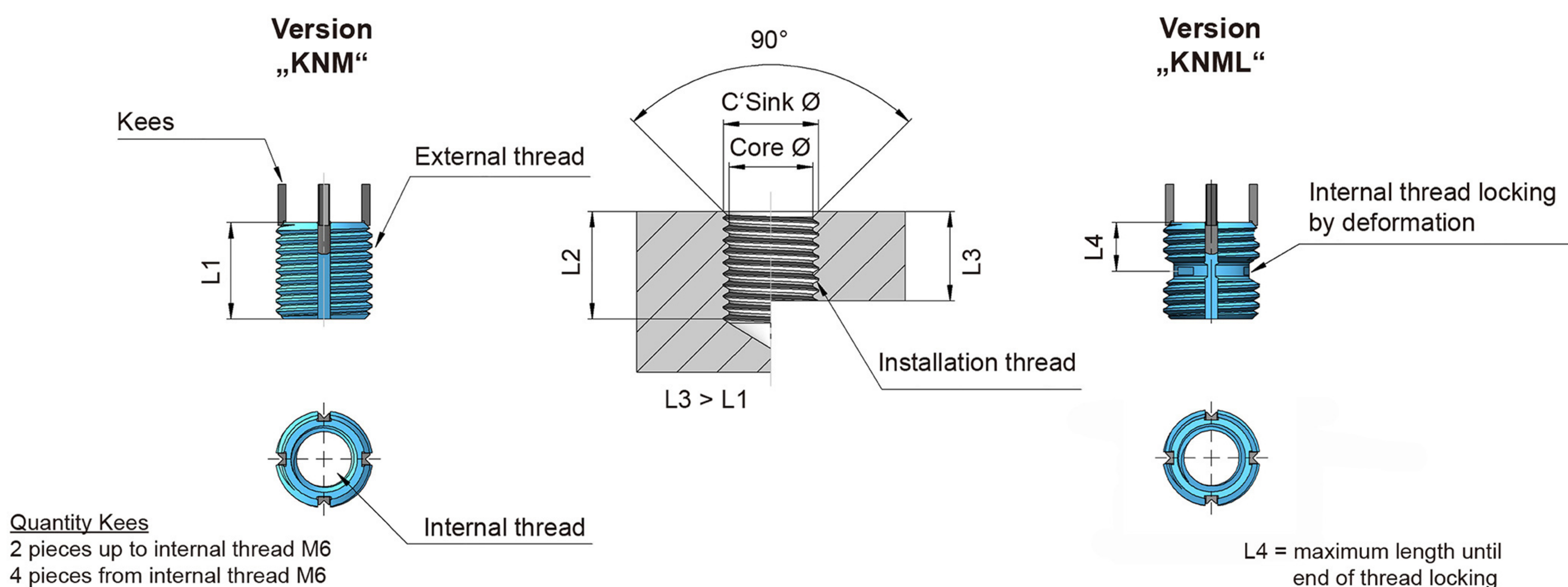
ISO 2768-m



Part number		Dimensions				
Standard „KNCM“	Self-locking „KNCML“	Internal thread Ø Tol.- 5H	External thread Ø Tol.- 4h	Shear engagement mm ²	L1 ± 0,25	L4
KNCM2X0,4		M2X0,4	M4X0,7	16,5	3	
	KNCML2X0,4			10,3		2,2
KNCM2,5X0,45		M2,5X0,45	M4,5X0,75	26,5	3,8	
	KNCML2,5X0,45			15,9		2,7
KNCM3X0,5		M3X0,5	M5X0,8	33,1	4,25	
	KNCML3X0,5			21,4		3,1
KNCM4X0,7		M4X0,7	M6X0,75	58,4	5,25	
	KNCML4X0,7			42,9		4,1

Part number	Installation dimensions					Removal dimensions	
	modified Core-Ø*	C'Sink-Ø +0,25	Installation thread		Hand installation tool part-no.	Drill	
			Thread Tol.- 6H	Depth L2 min.		Ø	Depth
KNCM2X0,4	3,4 +0,080 -0,025	4,1	M4X0,7	4,0	KRTM2-01	2,8	2,00
KNCML2X0,4							
KNCM2,5X0,45	3,9 +0,080 -0,025	4,6	M4,5X0,75	5,0	KRTM2,5-01	3,0	2,00
KNCML2,5X0,45							
KNCM3X0,5	4,4 +0,080 -0,025	5,1	M5X0,8	5,5	KRTM3-01	3,5	2,25
KNCML3X0,5							
KNCM4X0,7	5,5 +0,080 -0,025	6,1	M6X0,75	6,5	KRTM4-01	4,6	2,50
KNCML4X0,7							

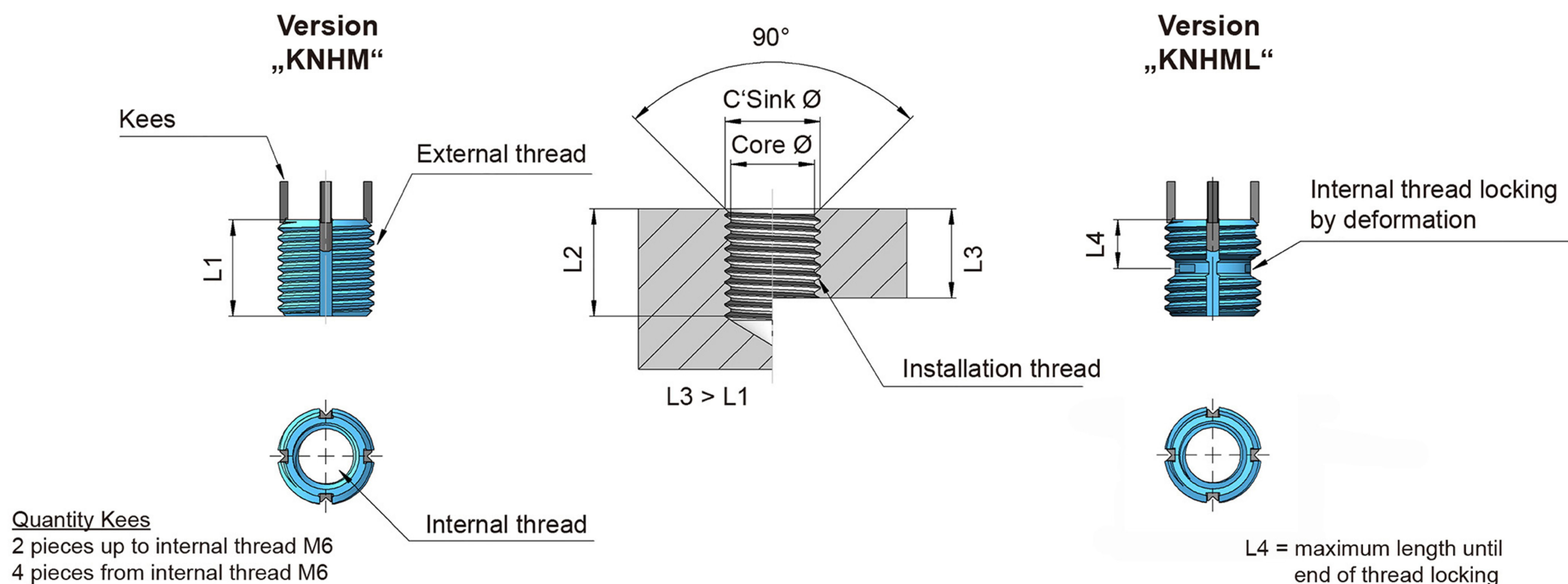
*the core Ø are different from DIN 13-20 / 21 / 22



Part number		Dimensions				
Standard “KNM”	Self-locking “KNML”	Internal thread Ø Tol.- 5H	External thread Ø Tol.- 4h	Shear engagement mm ²	L1 ± 0,3	L4
KNM5X0,8		M5X0,8	M8X1,25	104,9	8	
	KNML5X0,8			83,1		7,6
KNM6X1,0		M6X1,0	M10X1,25	177,7	10	
	KNML6X1,0			152,7		8,2
KNM8X1,25		M8X1,25	M12X1,25	266,7	12	
	KNML8X1,25			242,5		9,5
KNM10X1,5		M10X1,5	M14X1,5	341,6	14	
	KNML10X1,5			316,4		10,0
KNM12X1,75		M12X1,75	M16X1,5	470,2	16	
	KNML12X1,75			441,4		11,2

Part number	Installation dimensions					Removal dimensions	
	modified Core-Ø*	C'Sink-Ø +0,25	Installation thread		Hand installation tool part-no.	Drill	
			Thread Tol.- 6H	Depth L2 min.		Ø	Depth
KNM5X0,8	6,90 ^{+0,100} _{-0,025}	8,25	M8X1,25	9,5	KRTM5-01/ KNT01-M5X0,8AU	5,5	4,00
KNML5X0,8							
KNM6X1,0	8,80 ^{+0,100} _{-0,025}	10,25	M10X1,25	11,5	KRTM6-01/ KNT01-M6X1,0AU	7,5	4,75
KNML6X1,0							
KNM8X1,25	10,80 ^{+0,100} _{-0,025}	12,25	M12X1,25	13,5	KRTM8-01/ KNT01-M8X1,25AU	9,5	4,75
KNML8X1,25							
KNM10X1,5	12,80 ^{+0,130} _{-0,025}	14,25	M14X1,5	15,5	KRTM10-01/ KNT01-M10X1,5AU	11,5	4,75
KNML10X1,5							
KNM12X1,75	14,75 ^{+0,130} _{-0,025}	16,25	M16X1,5	17,5	KRTM12-01/ KNT01-M12X1,75AU	13,5	4,75
KNML12X1,75							

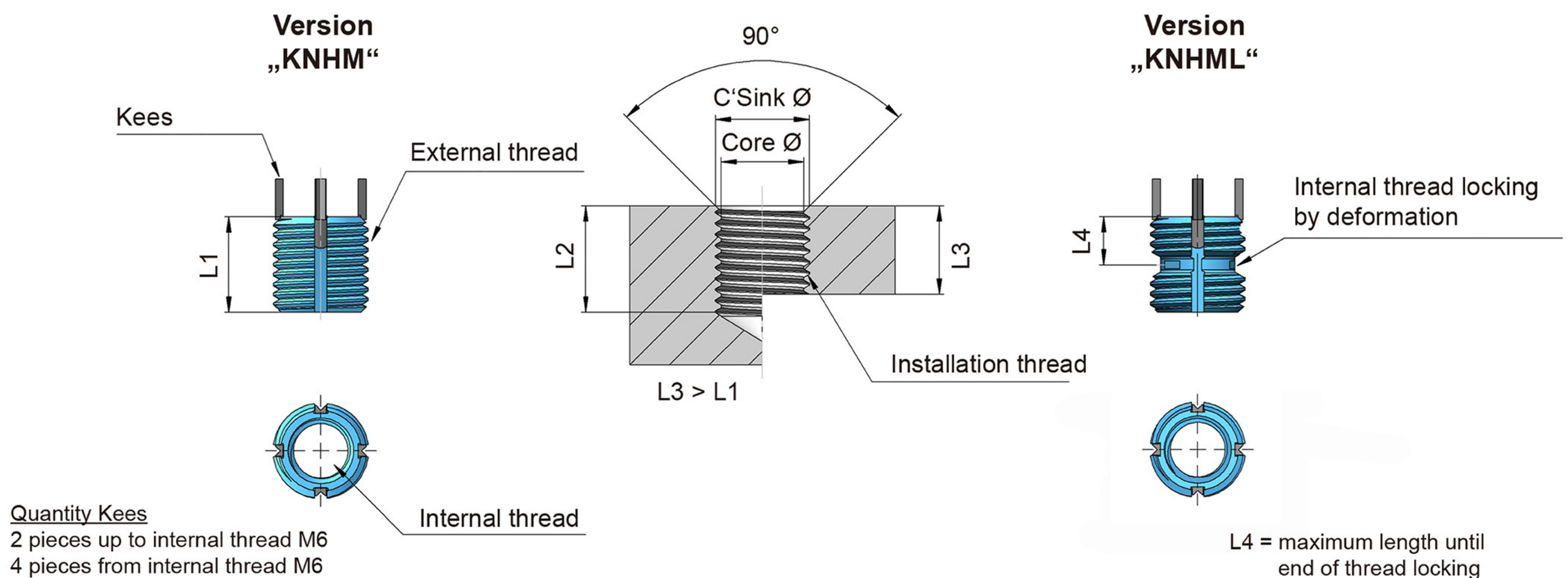
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Part number		Dimensions				
Standard „KNHM“	Self-locking „KNHML“	Internal thread Ø Tol.- 5H	External thread Ø Tol.- 4h	Shear engagement mm ²	L1 ± 0,3	L4
KNHM4X0,7		M4X0,7	M8X1,25	104,9	8	
	KNHML4X0,7			83,1		8,0
KNHM5X0,8		M5X0,8	M10X1,25	177,7	10	
	KNHML5X0,8			152,7		8,7
KNHM6X1,0		M6X1,0	M12X1,25	266,7	12	
	KNHML6X1,0			242,5		9,5
KNHM8X1,25		M8X1,25	M14X1,5	341,6	14	
	KNHML8X1,25			316,4		10,0
KNHM10X1,5		M10X1,5	M16X1,5	470,2	16	
	KNHML10X1,5			441,4		10,0
KNHM12X1,75		M12X1,75	M18X1,5	608,5	18	
	KNHML12X1,75			561,8		10,7

Part number	Installation dimensions					Removal dimensions	
	modified Core-Ø*	C'Sink-Ø +0,25	Installation thread		Hand installation tool part-no.	Drill	
			Thread Tol.- 6H	Depth L2 min.		Ø	Depth
KNHM4X0,7	6,90 ^{+0,100} _{-0,025}	8,25	M8X1,25	9,5	KRTM4-02 / KNT01-HM4X0,7AU	5,5	4,00
KNHML4X0,7							
KNHM5X0,8	8,80 ^{+0,100} _{-0,025}	10,25	M10X1,25	12,5	KRTM5-02 / KNT01-HM5X0,8AU	7,5	4,75
KNHML5X0,8							
KNHM6X1,0	10,80 ^{+0,100} _{-0,025}	12,25	M12X1,25	14,5	KRTM6-02 / KNT01-HM6X1,0AU	9,5	4,75
KNHML6X1,0							
KNHM8X1,25	12,80 ^{+0,130} _{-0,025}	14,25	M14X1,5	16,5	KRTM8-02 / KNT01-HM8X1,25AU	11,5	4,75
KNHML8X1,25							
KNHM10X1,5	14,75 ^{+0,130} _{-0,025}	16,25	M16X1,5	18,5	KRTM10-02 / KNT01-HM10X1,5AU	13,5	4,75
KNHML10X1,5							
KNHM12X1,75	16,75 ^{+0,130} _{-0,025}	18,25	M18X1,5	20,5	KRTM12-02 / KNT01-HM12X1,75AU	15,5	4,75
KNHML12X1,75							

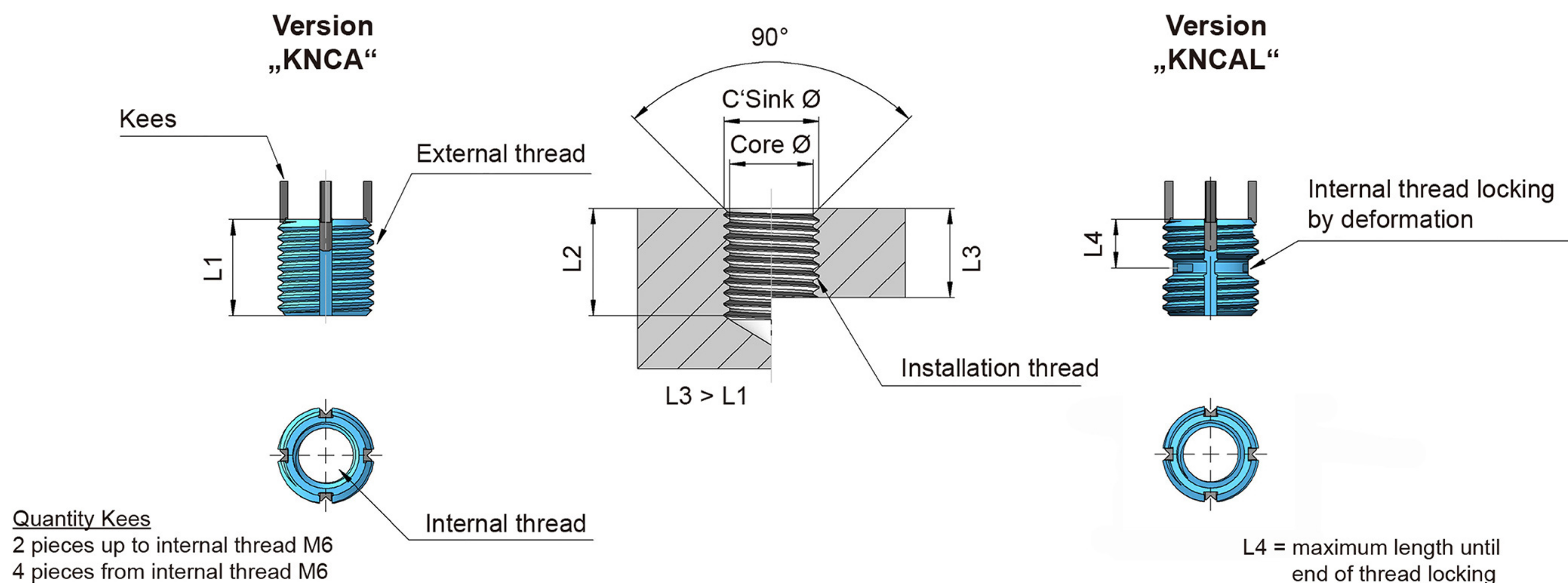
*the core Ø are different from DIN 13-20 / 21 / 22



Part number		Dimensions				
Standard „KNHM“	Self-locking „KNHML“	Internal thread Ø Tol.- 5H	External thread Ø Tol.- 4h	Shear engagement mm²	L1 ± 0,3	L4
KNHM14X2,0		M14X2,0	M20X1,5	770,5	20	
	KNHML14X2,0			724,4		12,4
KNHM16X2,0		M16X2,0	M22X1,5	896,8	22	
	KNHML16X2,0			855,2		12,4
KNHM18X1,5		M18X1,5	M24X1,5	1084,4	24	
	KNHML18X1,5			1051,5		16,8
KNHM20X2,5		M20X2,5	M30X2,0	1774,3	30	
	KNHML20X2,5			1736,4		17,5
KNHM24X3,0		M24X3,0	M33X2,0	2189,4	33	
	KNHML24X3,0			2161,9		19,0

Part number	Installation dimensions					Removal dimensions	
	modified Core-Ø*	C'Sink-Ø +0,25	Installation thread		Hand installation tool part-no.	Drill	
			Thread Tol.- 6H	Depth L2 min.		Ø	Depth
KNHM14X2,0	18,75 ^{+0,130} _{-0,025}	20,25	M20X1,5	22,5	KRTM14-02 / KNT03-HM14X2,0AU	17,50	4,75
KNHML14X2,0							
KNHM16X2,0	20,50 ^{+0,130} _{-0,025}	22,25	M22X1,5	24,5	KRTM16-02 / KNT03-HM16X2,0AU	17,75	6,35
KNHML16X2,0							
KNHM18X1,5	22,50 ^{+0,130} _{-0,025}	24,25	M24X1,5	26,5	KRTM18-02 / KNT03-HM18X1,5AU	19,75	6,35
KNHML18X1,5							
KNHM20X2,5	28,00 ^{+0,130} _{-0,025}	30,25	M30X2,0	34,5	KRTM20-02 / KNT03-HM20X2,5AU	25,75	6,35
KNHML20X2,5							
KNHM24X3,0	31,00 ^{+0,130} _{-0,025}	33,25	M33X2,0	37,5	KNT03-HM24X3,0AU	28,75	6,35
KNHML24X3,0							

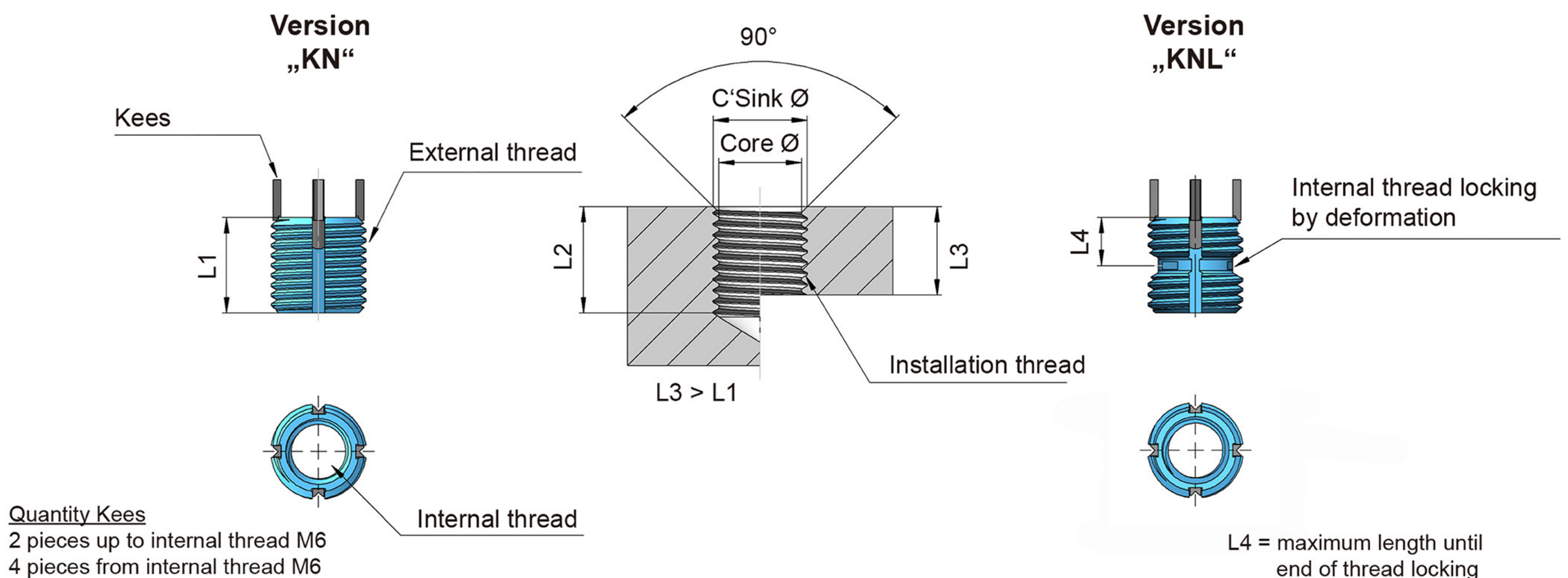
*the core Ø are different from DIN 13-20 / 21 / 22



Part number		Dimensions				
Standard „KNCA“	Self-locking „KNCAL“	Internal thread Ø	External thread Ø	Shear engagement inch ² (mm ²)	L1 inch (mm)	L4 inch (mm)
KNCA0256J		2-56"	8-32"	0,0157 (10,1)	0,12 (3,05)	0,088 (2,24)
	KNCAL0256J	UNJC-3B	UNC-3A	0,0157 (10,1)		0,088 (2,24)
KNCA0440J		4-40"	10-32"	0,0302 (19,5)	0,17 (4,32)	0,125 (3,18)
	KNCAL0440J	UNJC-3B	UNF-2A	0,0302 (19,5)		0,125 (3,18)
KNC0632J		6-32"	12-28"	0,0329 (21,2)	0,17 (4,32)	0,125 (3,18)
	KNCL0632J	UNJC-3B	UNF-2A	0,0329 (21,2)		0,125 (3,18)
KNCA0832J		8-32"	1/4-28"	0,0669 (43,2)	0,22 (5,59)	0,175 (4,45)
	KNCAL0832J	UNJC-3B	UNF-2A	0,0669 (43,2)		0,175 (4,45)

Part number	Installation dimensions					Removal dimensions	
	modified Core-Ø* inch	C'Sink-Ø inch	Installation thread		Hand installation tool part-no.	Drill	
			Thread	L2 min. inch (mm)		Ø inch (mm)	Depth inch (mm)
KNCA0256J	.134 ^{+0,003} -0,001	.166 ^{+.001} - .000	8-32	0,140	TKNC02	0,113	1/16
KNCAL0256J			UNC-2B	(3,56)			
KNCA0440J	.161 ^{+0,003} -0,001	.194 ^{+.001} - .000	10-32	0,160	TKNC04	0,136	3/32
KNCAL0440J			UNF-2B	(4,06)			
KNC0632J	.187 ^{+0,003} -0,001	.220 ^{+.001} - .000	12-28	0,160	TKNC06	0,159	3/32
KNCL0632J			UNF-2B	(4,06)			
KNCA0832J	.228 ^{+0,003} -0,001	.255 ^{+.001} - .000	1/4-28	0,210	TKNC08	0,199	1/8
KNCAL0832J			UNF-2B	(5,33)			

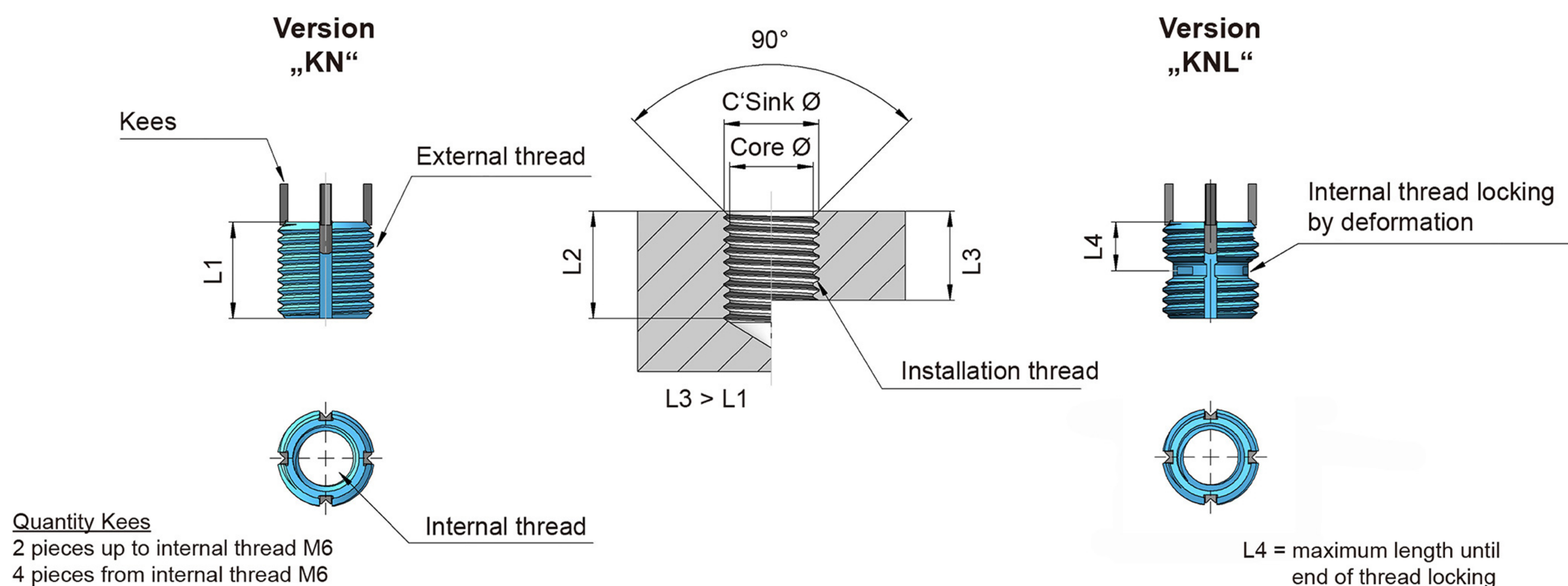
*the core Ø are different from SAE AS 8879



Part number		Dimensions				
Standard “KN”	Self-locking “KNL”	Internal thread Ø Tol.- 3B	External thread Ø Tol.- 2A mod.	Shear engagement inch ² (mm ²)	L1 inch (mm)	L4 inch (mm)
KN1032J		10-32	5/16-18	0,1517 (97,9)	0,31 (7,87)	
	KNL1032J			0,0945 (61,0)		0,31 (7,87)
KN1024J		10-24	5/16-18	0,1517 (97,9)	0,31 (7,87)	
	KNL1024J			0,0945 (61,0)		0,31 (7,87)
KN428J		1/4-28	3/8-16	0,2371 (153,0)	0,37 (9,40)	
	KNL428J			0,1726 (111,4)		0,33 (8,38)
KN420J		1/4-20	3/8-16	0,2371 (153,0)	0,37 (9,40)	
	KNL420J			0,1726 (111,4)		0,36 (9,14)
KN524J		5/16-24	7/16-14	0,3049 (196,7)	0,43 (10,9)	
	KNL524J			0,2321 (149,7)		0,34 (8,64)
KN518J		5/16-18	7/16-14	0,3049 (196,7)	0,43 (10,9)	
	KNL518J			0,2321 (149,7)		0,37 (9,40)

Part number	Installation dimensions					Removal dimensions	
	modified Core-Ø* inch (mm)	C'Sink-Ø inch +0,01 (mm) +0,25	Installation thread		Hand installation tool part-no.	Drill	
			Thread Tol. - 2B	L2 min. inch (mm)		Ø inch (mm)	Depth inch (mm)
KN1032J	0,272 (6,91)	0,323 (8,20)	5/16-18	0,37 (9,4)	TD1032L	7/32 (5,56)	5/32 (3,97)
KNL1032J							
KN1024J	0,272 (6,91)	0,323 (8,20)	5/16-18	0,37 (9,4)	TD1024L	7/32 (5,56)	5/32 (3,97)
KNL1024J							
KN428J	0,332 (8,43)	0,385 (9,78)	3/8-16	0,43 (10,9)	TD428L	9/32 (7,14)	3/16 (4,76)
KNL428J							
KN420J	0,332 (8,43)	0,385 (9,78)	3/8-16	0,43 (10,9)	TD420L	9/32 (7,14)	3/16 (4,76)
KNL420J							
KN524J	0,397 (10,08)	0,447 (11,35)	7/16-14	0,50 (12,7)	TD524L	11/32 (8,73)	3/16 (4,76)
KNL524J							
KN518J	0,397 (10,08)	0,447 (11,35)	7/16-14	0,50 (12,7)	TD518L	11/32 (8,73)	3/16 (4,76)
KNL518J							

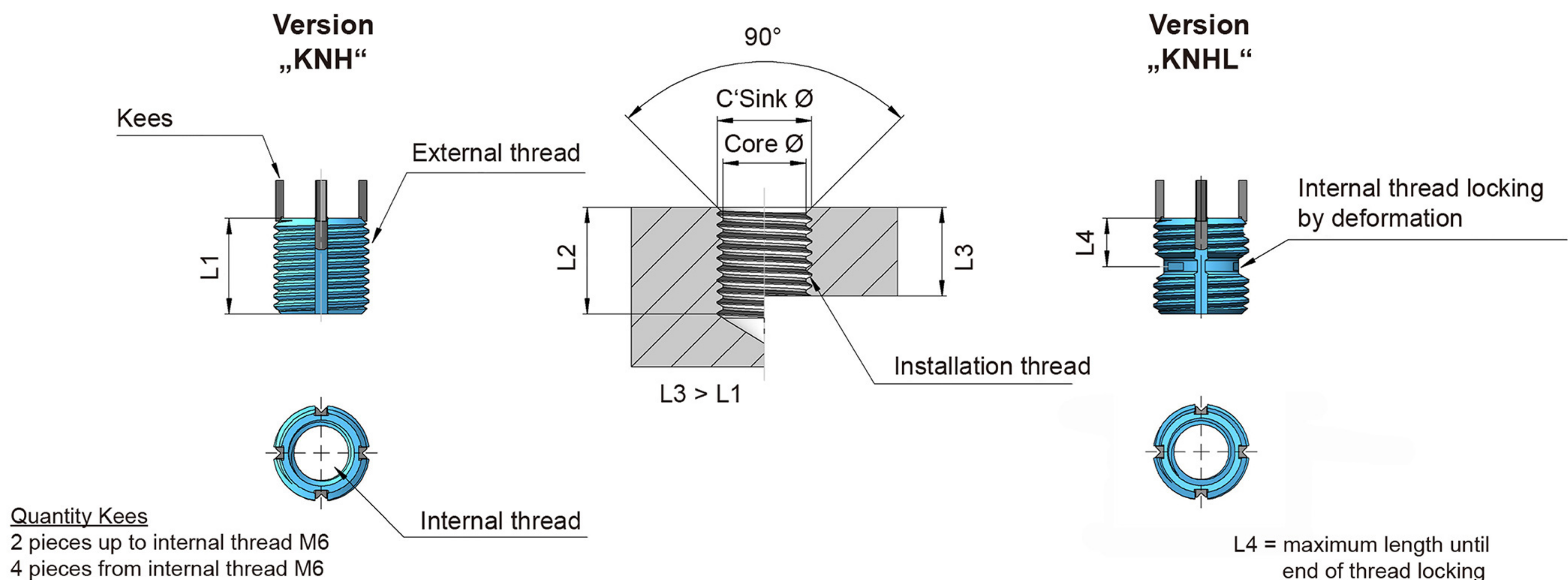
*the core Ø are different from SAE AS 8879



Part number		Dimensions				
Standard „KN“	Self-locking „KNL“	Internal thread Ø Tol.- 3B	External thread Ø Tol.- 2A mod.	Shear engagement inch ² (mm ²)	L1 inch (mm)	L4 inch (mm)
KN624J		3/8-24	1/2-13	0,4299 (277,4)	0,50 (12,7)	
	KNL624J			0,3366 (217,2)		0,36 (9,14)
KN616J		3/8-16	1/2-13	0,4299 (277,4)	0,50 (12,7)	
	KNL616J			0,3366 (217,2)		0,40 (10,16)
KN720J		7/16-20	9/16-12	0,5665 (365,5)	0,56 (14,2)	
	KNL720J			0,4606 (297,2)		0,41 (10,41)
KN714J		7/16-14	9/16-12	0,5665 (365,5)	0,56 (14,2)	
	KNL714J			0,4606 (297,2)		0,45 (11,43)
KN820J		1/2-20	5/8-11	0,7175 (462,9)	0,62 (15,8)	
	KNL820J			0,5906 (381,0)		0,42 (10,67)
KN813J		1/2-13	5/8-11	0,7175 (462,9)	0,62 (15,8)	
	KNL813J			0,5906 (381,0)		0,47 (11,94)

Part number	Installation dimensions					Removal dimensions	
	modified Core-Ø* inch (mm)	C'Sink-Ø inch +0,01 (mm) +0,25	Installation thread		Hand installation tool part-no.	Drill	
			Thread Tol.- 2B	L2 min. inch (mm)		Ø inch (mm)	Depth inch (mm)
KN624J	0,453 (11,51)	0,510 (12,95)	1/2-13	0,56 (14,2)	TD624L	13/32 (10,32)	3/16 (4,76)
KNL624J							
KN616J	0,453 (11,51)	0,510 (12,95)	1/2-13	0,56 (14,2)	TD616L	13/32 (10,32)	3/16 (4,76)
KNL616J							
KN720J	0,516 (13,11)	0,572 (14,53)	9/16-12	0,62 (15,7)	TD720L	15/32 (11,91)	3/16 (4,76)
KNL720J							
KN714J	0,516 (13,11)	0,572 (14,53)	9/16-12	0,62 (15,7)	TD714L	15/32 (11,91)	3/16 (4,76)
KNL714J							
KN820J	0,578 (14,68)	0,635 (16,13)	5/8-11	0,68 (17,3)	TD820L	17/32 (13,49)	3/16 (4,76)
KNL820J							
KN813J	0,578 (14,68)	0,635 (16,13)	5/8-11	0,68 (17,3)	TD813L	17/32 (13,49)	3/16 (4,76)
KNL813J							

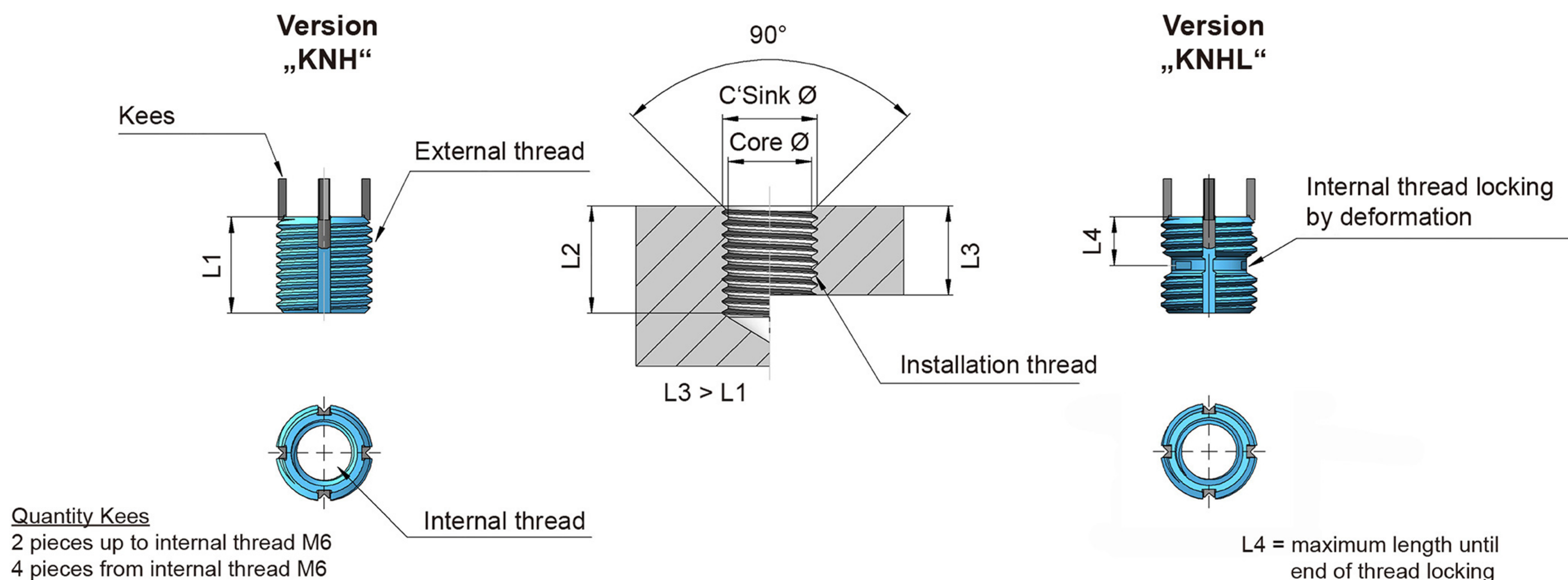
*the core Ø are different from SAE AS 8879



Part number		Dimensions				
Standard „KNH“	Self-locking „KNHL“	internal-thread Ø Tol.- 3B	outer-thread Ø Tol.- 2A mod.	Shear engagement inch ² (mm ²)	L1 inch (mm)	L4 inch (mm)
KNH0832J		8-32	5/16-18	0,1517 (97,87)	0,31 (7,87)	
	KNHL0832J			0,0945 (60,97)		0,29 (7,37)
KNH1032J		10-32	3/8-16	0,1901 (122,7)	0,31 (7,87)	
	KNHL1032J			0,1156 (74,6)		0,31 (7,87)
KNH1024J		10-24	3/8-16	0,1901 (122,7)	0,31 (7,87)	
	KNHL1024J			0,1156 (74,6)		0,31 (7,87)
KNH428J		1/4-28	7/16-14	0,2842 (183,4)	0,37 (9,40)	
	KNHL428J			0,1970 (127,1)		0,33 (8,38)
KNH420J		1/4-20	7/16-14	0,2842 (183,4)	0,37 (9,40)	
	KNHL420J			0,1970 (127,1)		0,36 (9,14)
KNH524J		5/16-24	1/2-13	0,3588 (231,5)	0,43 (10,9)	
	KNHL524J			0,2608 (168,3)		0,34 (8,64)

Part number	Installation dimensions					Removal dimensions	
	modified Core-Ø* inch (mm)	C'Sink-Ø inch +0,01 (mm) +0,25	Installation thread		Hand installation tool part-no.	Drill	
			Thread Tol. - UNC 2B	L2 min. inch (mm)		Ø inch (mm)	Depth inch (mm)
KNH0832J	0,272 (6,91)	0,323 (8,20)	5/16-18	0,37 (9,4)	THD0832L	7/32 (5,56)	1/8 (3,18)
KNHL0832J							
KNH1032J	0,332 (8,43)	0,385 (9,78)	3/8-16	0,37 (9,4)	THD1032L	9/32 (7,14)	1/8 (3,18)
KNHL1032J							
KNH1024J	0,332 (8,43)	0,385 (9,78)	3/8-16	0,37 (9,4)	THD1024L	9/32 (7,14)	1/8 (3,18)
KNHL1024J							
KNH428J	0,397 (10,08)	0,447 (11,35)	7/16-14	0,43 (10,9)	THD428L	11/32 (8,73)	3/16 (4,76)
KNHL428J							
KNH420J	0,397 (10,08)	0,447 (11,35)	7/16-14	0,43 (10,9)	THD420L	11/32 (8,73)	3/16 (4,76)
KNHL420J							
KNH524J	0,453 (11,51)	0,510 (12,95)	1/2-13	0,50 (12,7)	THD524L	13/32 (10,32)	3/16 (4,76)
KNHL524J							

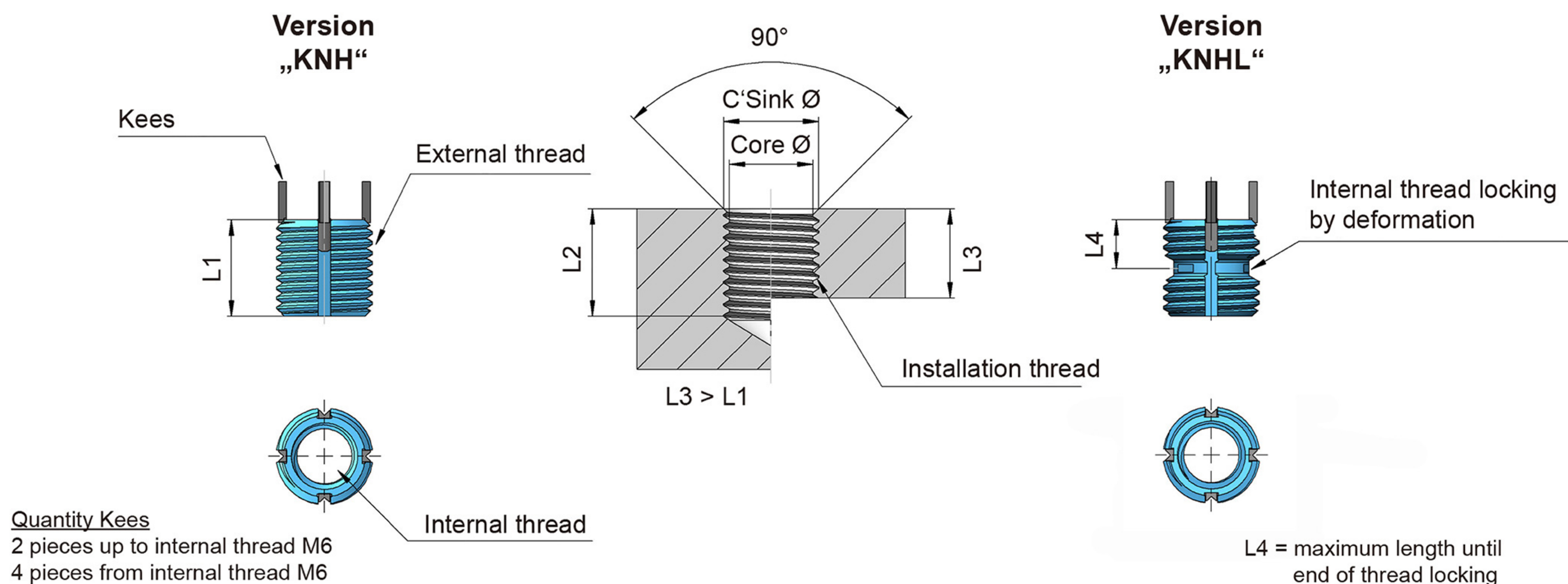
*the core Ø are different from SAE AS 8879



Part number		Dimensions				
Standard „KNH“	Self-locking „KNHL“	internal-thread Ø Tol.- 3B	outer-thread Ø Tol.- 2A mod.	Shear engagement inch ² (mm ²)	L1 inch (mm)	L4 inch (mm)
KNH518J		5/16-18	1/2-13	0,3588 (231,5)	0,43 (10,9)	
	KNHL518J			0,2608 (168,3)		0,37 (9,40)
KNH624J		3/8-24	9/16-12	0,4975 (321,0)	0,50 (12,7)	
	KNHL624J			0,3843 (248,0)		0,37 (9,40)
KNH616J		3/8-16	9/16-12	0,4975 (321,0)	0,50 (12,7)	
	KNHL616J			0,3843 (248,0)		0,41 (10,41)
KNH720J		7/16-20	5/8-11	0,7172 (462,7)	0,62 (15,8)	
	KNHL720J			0,5831 (376,2)		0,42 (10,67)
KNH714J		7/16-14	5/8-11	0,7172 (462,7)	0,62 (15,8)	
	KNHL714J			0,5831 (376,2)		0,46 (11,68)

Part number	Installation dimensions					Removal dimensions	
	modified Core-Ø* inch (mm)	C'Sink-Ø inch +0,01 (mm) +0,25	Installation thread		Hand installation tool part-no.	Drill	
			thread Tol.- UNC 2B	L2 min. inch (mm)		Ø inch (mm)	Depth inch (mm)
KNH518J	0,453 (11,51)	0,510 (12,95)	1/2-13	0,50 (12,7)	THD518L	13/32 (10,32)	3/16 (4,76)
KNHL518J							
KNH624J	0,516 (13,11)	0,572 (14,53)	9/16-12	0,56 (14,2)	THD624L	15/32 (11,91)	3/16 (4,76)
KNHL624J							
KNH616J	0,516 (13,11)	0,572 (14,53)	9/16-12	0,56 (14,2)	THD616L	15/32 (11,91)	3/16 (4,76)
KNHL616J							
KNH720J	0,578 (14,68)	0,635 (16,13)	5/8-11	0,68 (17,27)	THD720L	17/32 (13,49)	3/16 (4,76)
KNHL720J							
KNH714J	0,578 (14,68)	0,635 (16,13)	5/8-11	0,68 (17,27)	THD714L	17/32 (13,49)	3/16 (4,76)
KNHL714J							

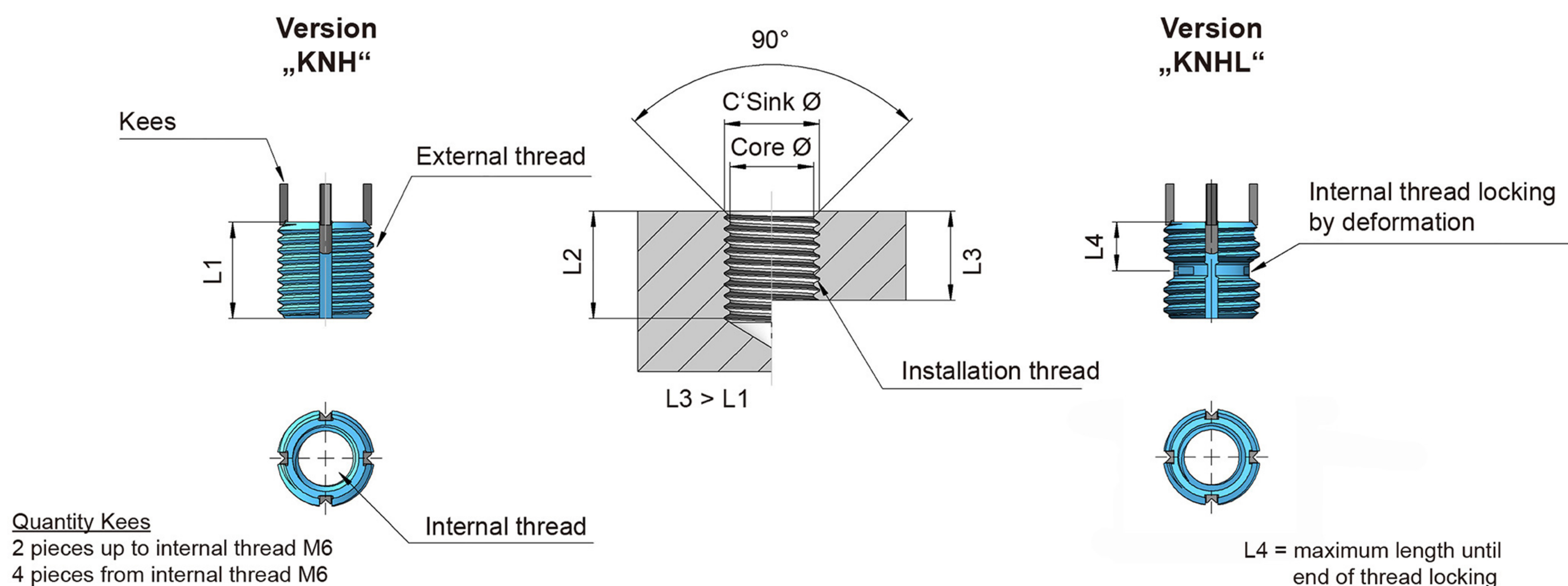
*the core Ø are different from SAE AS 8879



Part number		Dimensions				
Standard „KNH“	Self-locking „KNHL“	Internal thread Ø Tol.- 3B	External thread Ø Tol.- 2A mod.	Shear engagement inch ² (mm ²)	L1 inch (mm)	L4 inch (mm)
KNH820J	KNHL820J	1/2-20	11/16-11NS	0,8884 (573,2)	0,68 (17,3)	0,42 (10,67)
				0,7368 (475,4)		
KNH813J	KNHL813J	1/2-13	11/16-11NS	0,8884 (573,2)	0,68 (17,3)	0,47 (11,94)
				0,7368 (475,4)		
KNH918J	KNHL918J	9/16-18	13/16-16	1,2493 (806,0)	0,81 (20,6)	0,48 (12,19)
				1,0247 (661,1)		
KNH912J	KNHL912J	9/16-12	13/16-16	1,2493 (806,0)	0,81 (20,6)	0,54 (13,72)
				1,0247 (661,1)		
KNH1018J	KNHL1018J	5/8-18	7/8-14	1,4866 (959,1)	0,87 (22,1)	0,49 (12,47)
				1,2415 (801,0)		
KNH1011J	KNHL1011J	5/8-11	7/8-14	1,4866 (959,1)	0,87 (22,1)	0,57 (14,48)
				1,2415 (801,0)		

Part number	Installation dimensions					Removal dimensions	
	modified Core-Ø* inch (mm)	C'Sink-Ø inch +0,01 (mm) +0,25	Installation thread		Hand installation tool part-no.	Drill	
			Thread Tol. - UNC 2B	L2 min. inch (mm)		Ø inch (mm)	Depth inch (mm)
KNH820J	0,641 (16,28)	0,700 (17,80)	11/16-11NS	0,75 (19,06)	THD820L	19/32 (15,08)	3/16 (4,76)
KNHL820J							
KNH813J	0,641 (16,28)	0,700 (17,80)	11/16-11NS	0,75 (19,06)	THD813L	19/32 (15,08)	3/16 (4,76)
KNHL813J							
KNH918J	0,766 (19,46)	0,822 (20,88)	13/16-16UN	0,94 (23,88)	THD918L	23/32 (18,26)	3/16 (4,76)
KNHL918J							
KNH912J	0,766 (19,46)	0,822 (20,88)	13/16-16UN	0,94 (23,88)	THD912L	23/32 (18,26)	3/16 (4,76)
KNHL912J							
KNH1018J	0,828 (21,03)	0,885 (22,48)	7/8-14UNF	1,00 (25,40)	THD1018L	25/32 (19,84)	3/16 (4,76)
KNHL1018J							
KNH1011J	0,828 (21,03)	0,885 (22,48)	7/8-14 UNF	1,00 (25,40)	THD1011L	25/32 (19,84)	3/16 (4,76)
KNHL1011J							

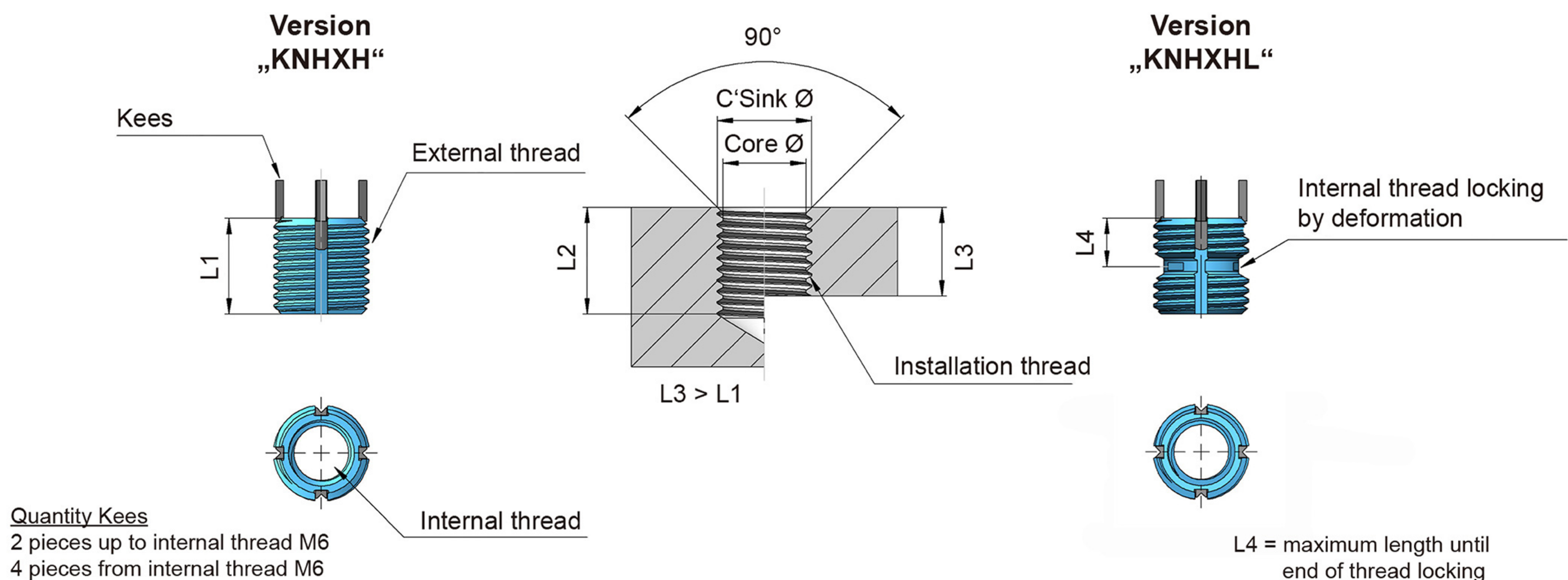
*the core Ø are different from SAE AS 8879



Part number		Dimensions				
Standard „KNH“	Self-locking „KNHL“	Internal thread Ø Tol.- 3B	External thread Ø Tol.- 2A mod.	Shear engagement inch² (mm²)	L1 inch (mm)	L4 inch (mm)
KNH1216J	KNHL1216J	3/4-16	1-1/8-12	2,4901 (1606,5)	1,12 (28,5)	0,68 (17,27)
				2,4478 (1579,3)	1,25 (31,8)	
KNH1210J	KNHL1210J	3/4-10	1-1/8-12	2,4901 (1606,5)	1,12 (28,5)	0,75 (19,05)
				2,4478 (1579,3)	1,25 (31,8)	
KNH1414J	KNHL1414J	7/8-14	1-1/4-12	3,1370 (2024,1)	1,25 (31,8)	0,69 (17,53)
				3,0775 (1985,6)	1,37 (34,8)	
KNH1409J	KNHL1409J	7/8-9	1-1/4-12	3,1370 (2024,1)	1,25 (31,8)	0,77 (19,56)
				3,0775 (1985,6)	1,37 (34,8)	
KNH1612J	KNHL1612J	1-12	1-3/8-12	3,8381 (2476,3)	1,37 (34,8)	0,78 (19,81)
				3,7929 (2447,0)	1,50 (38,1)	
KNH1608J	KNHL1608J	1-8	1-3/8-12	3,8381 (2476,3)	1,37 (34,8)	0,86 (21,84)
				3,7929 (2447,0)	1,50 (38,1)	

Part number	Installation dimensions				Removal dimensions	
	modified Core-Ø* inch (mm)	C'Sink-Ø inch +0,01 (mm) +0,25	Installation thread		Drill	
			Thread Tol. - UNC 2B	L2 min. inch (mm)	Hand installation tool part-no.	Ø inch (mm) Depth inch (mm)
KNH1216J	1,062 (26,97)	1,145 (29,08)	1-1/8-12 UNF	1,31 (33,27) 1,44 (36,58)	THD1216L	31/32 (24,61) 5/16 (7,94)
KNHL1216J						
KNH1210J	1,062 (26,97)	1,145 (29,08)	1-1/8-12 UNF	1,31 (33,27) 1,44 (36,58)	THD1210L	31/32 (24,61) 5/16 (7,94)
KNHL1210J						
KNH1414J	1,187 (30,15)	1,270 (32,26)	1-1/4-12 UNF	1,44 (36,58) 1,56 (39,62)	THD1414L	1-3/32 (27,78) 5/16 (7,94)
KNHL1414J						
KNH1409J	1,187 (30,15)	1,270 (32,26)	1-1/4-12 UNF	1,44 (36,58) 1,56 (39,62)	THD1409L	1-3/32 (27,78) 5/16 (7,94)
KNHL1409J						
KNH1612J	1,312 (33,32)	1,395 (35,43)	1-3/8-12 UNF	1,56 (39,62) 1,68 (42,67)	THD1612L	1-7/32 (30,96) 5/16 (7,94)
KNHL1612J						
KNH1608J	1,312 (33,32)	1,395 (35,43)	1-3/8-12 UNF	1,56 (39,62) 1,68 (42,67)	THD1608L	1-7/32 (30,96) 5/16 (7,94)
KNHL1608J						

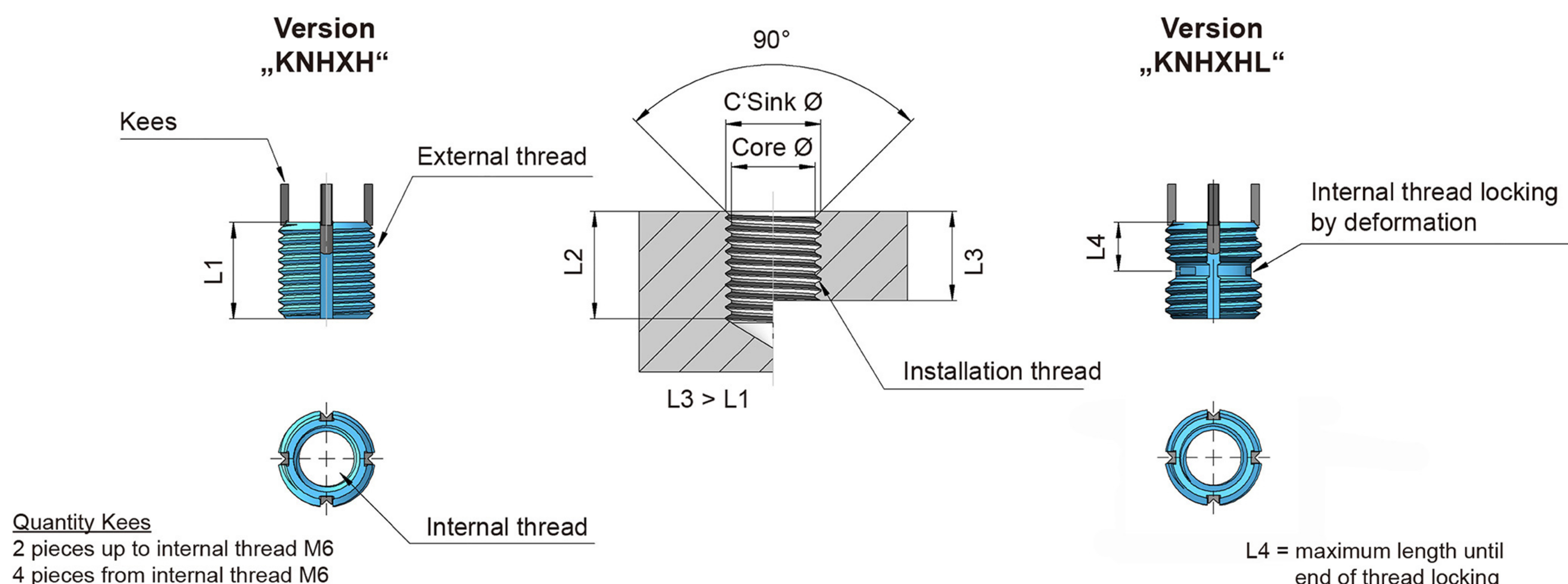
*the core Ø are different from SAE AS 8879



Part number		Dimensions				
Standard „KNHXXH“	Self-locking „KNHXXHL“	Internal thread Ø Tol.- 3B	External thread Ø Tol.- 2A mod.	Shear engagement inch ² (mm ²)	L1 inch (mm)	L4 inch (mm)
KNHXXH1032J		10-32	7/16-14	0,2299 (148,3)	0,31 (7,9)	
	KNHXXHL1032J			0,1403 (90,5)		0,31 (7,90)
KNHXXH1024J		10-24	7/16-14	0,2299 (148,3)	0,31 (7,9)	
	KNHXXHL1024J			0,1403 (90,5)		0,31 (7,90)
KNHXXH428J		1/4-28	1/2-13	0,2997 (193,4)	0,37 (9,4)	
	KNHXXHL428J			0,2005 (129,4)		0,33 (8,38)
KNHXXH420J		1/4-20	1/2-13	0,2997 (193,4)	0,37 (9,4)	
	KNHXXHL420J			0,2005 (129,4)		0,36 (9,14)
KNHXXH524J		5/16-24	9/16-12	0,4163 (268,6)	0,43 (10,9)	
	KNHXXHL524J			0,3029 (195,4)		0,34 (8,64)

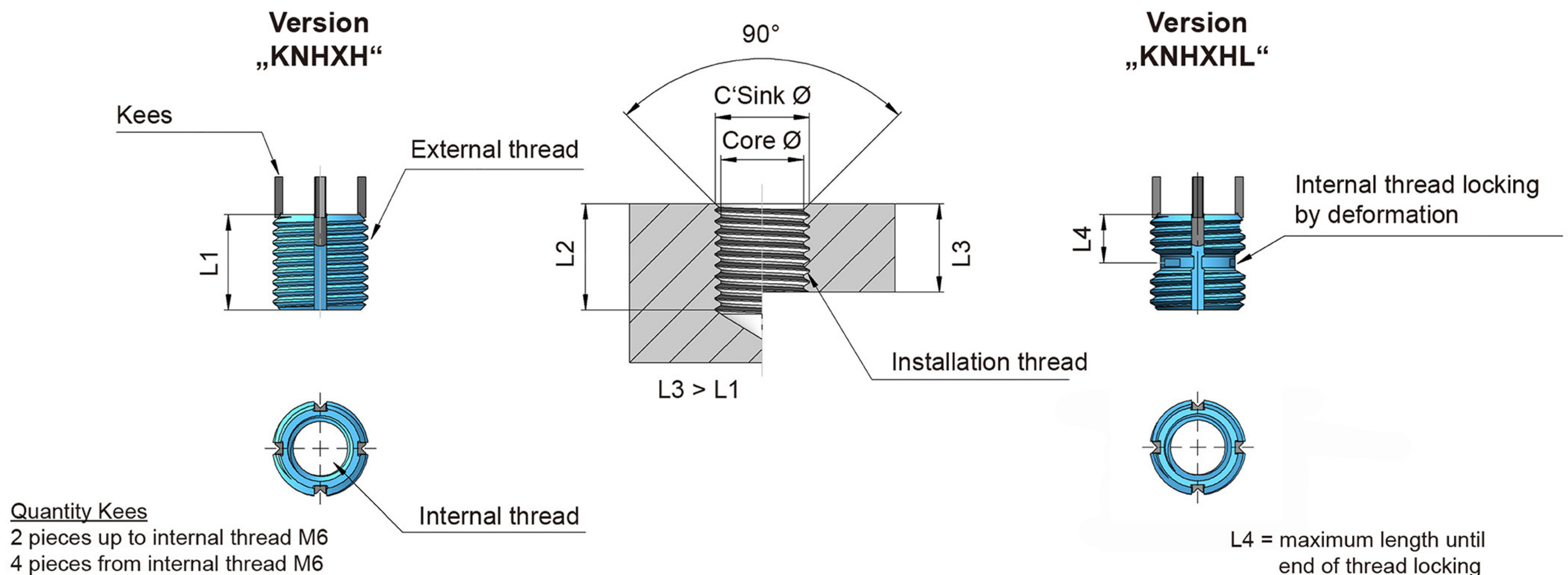
Part number	Installation dimensions					Removal dimensions	
	modified Core-Ø* inch (mm)	C'Sink-Ø inch +0,01 (mm) +0,25	Installation thread		Hand installation tool part-no.	Drill	
			Thread Tol.- UNC 2B	L2 min. inch (mm)		Ø inch (mm)	Depth inch (mm)
KNHXXH1032J	0,397 (10,08)	0,447 (11,35)	7/16-14	0,37 (9,40)	THXHD1032L	11/32 (8,73)	3/16 (4,76)
KNHXXHL1032J							
KNHXXH1024J	0,397 (10,08)	0,447 (11,35)	7/16-14	0,37 (9,40)	THXHD1024L	11/32 (8,73)	3/16 (4,76)
KNHXXHL1024J							
KNHXXH428J	0,453 (11,51)	0,510 (12,95)	1/2-13	0,44 (11,18)	THXHD428L	13/32 (10,32)	3/16 (4,76)
KNHXXHL428J							
KNHXXH420J	0,453 (11,51)	0,510 (12,95)	1/2-13	0,44 (11,18)	THXHD420L	13/32 (10,32)	3/16 (4,76)
KNHXXHL420J							
KNHXXH524J	0,516 (13,11)	0,572 (14,53)	9/16-12	0,50 (12,70)	THXHD524L	15/32 (11,91)	3/16 (4,76)
KNHXXHL524J							

*the core Ø are different from SAE AS 8879



Part number		Dimensions				
Standard „KNHXXH“	Self-locking „KNHXXHL“	Internal thread Ø Tol.- 3B	External thread Ø Tol.- 2A mod.	Shear engagement inch ² (mm ²)	L1 inch (mm)	L4 inch (mm)
KNHXXH518J		5/16-18	9/16-12	0,4163 (268,6)	0,43 (10,9)	
	KNHXXHL518J			0,3029 (195,4)		0,37 (9,40)
KNHXXH624J		3/8-24	5/8-11	0,5584 (360,3)	0,50 (12,7)	
	KNHXXHL624J			0,4234 (273,8)		0,37 (9,40)
KNHXXH616J		3/8-16	5/8-11	0,5584 (360,3)	0,50 (12,7)	
	KNHXXHL616J			0,4234 (273,8)		0,41 (10,41)
KNHXXH720J		7/16-20	11/16-11 NS	0,8000 (516,1)	0,62 (15,6)	
	KNHXXHL720J			0,6498 (419,2)		0,42 (10,67)
KNHXXH714J		7/16-14	11/16-11 NS	0,8000 (516,1)	0,62 (15,6)	
	KNHXXHL714J			0,6498 (419,2)		0,46 (11,68)

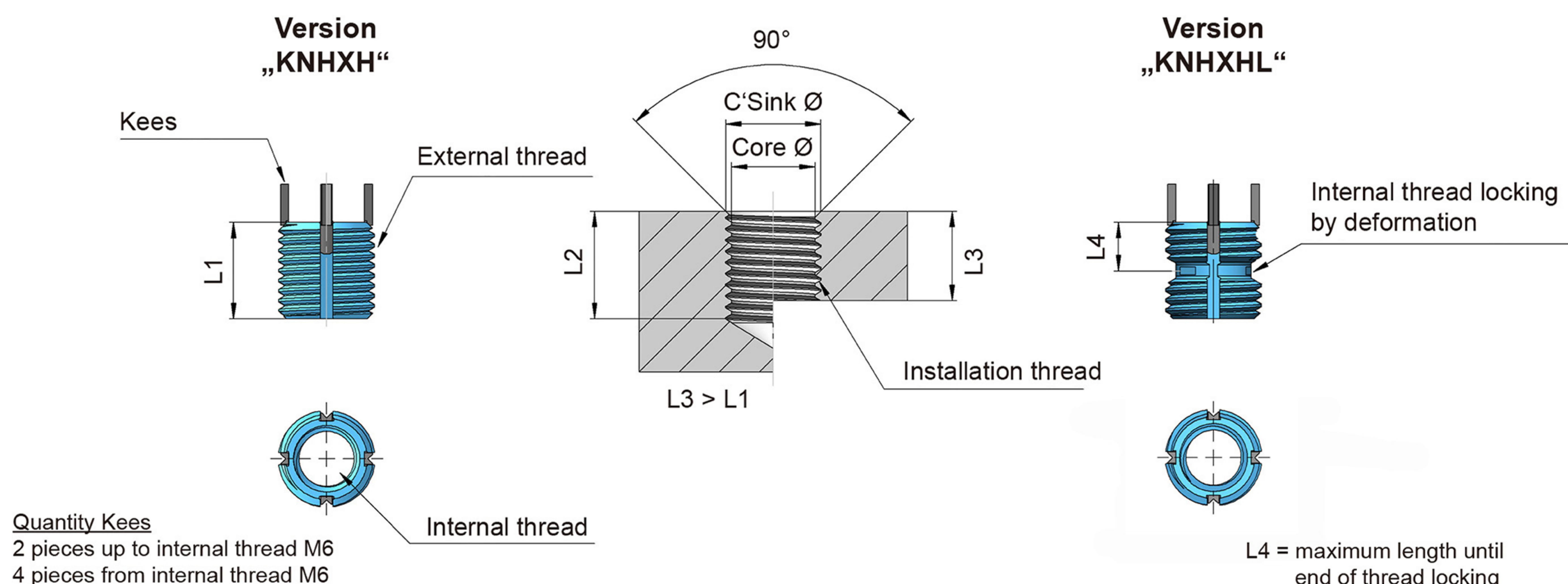
Part number	Installation dimensions					Removal dimensions	
	modified Core-Ø* inch (mm)	C'Sink-Ø inch +0,01 (mm) +0,25	Installation thread		Hand installation tool part-no.	Drill	
			Thread Tol.- UNC 2B	L2 min. inch (mm)		Ø inch (mm)	Depth inch (mm)
KNHXXH518J	0,516 (13,11)	0,572 (14,53)	9/16-12	0,50 (12,70)	THXHD518L	15/32 (11,91)	3/16 (4,76)
KNHXXHL518J							
KNHXXH624J	0,578 (14,68)	0,635 (16,13)	5/8-11	0,56 (14,22)	THXHD624L	17/32 (13,49)	3/16 (4,76)
KNHXXHL624J							
KNHXXH616J	0,578 (14,68)	0,635 (16,13)	5/8-11	0,56 (14,22)	THXHD616L	17/32 (13,49)	3/16 (4,76)
KNHXXHL616J							
KNHXXH720J	0,641 (16,28)	0,700 (17,80)	11/16-11 NS	0,68 (17,27)	THXHD720L	19/32 (15,08)	3/16 (4,76)
KNHXXHL720J							
KNHXXH714J	0,641 (16,28)	0,700 (17,80)	11/16-11 NS	0,68 (17,27)	THXHD714L	19/32 (15,08)	3/16 (4,76)
KNHXXHL714J							



Part number		Dimensions				
Standard „KNHXXH“	Self-locking „KNHXXHL“	Internal thread Ø Tol.- 3B	External thread Ø Tol.- 2A	Shear engagement inch ² (mm ²)	L1 inch (mm)	L4 inch (mm)
KNHXXH820J	KNHXXHL820J	1/2-20	13/16-16	1,0293 (664,1)	0,68 (17,3)	0,42 (10,67)
				0,8642 (557,6)		
KNHXXH813J	KNHXXHL813J	1/2-13	13/16-16	1,0293 (664,1)	0,68 (17,3)	0,47 (11,94)
				0,8642 (557,6)		
KNHXXH918J	KNHXXHL918J	9/16-18	7/8-14	1,3761 (887,8)	0,81 (20,6)	0,48 (12,19)
				1,1131 (718,1)		
KNHXXH912J	KNHXXHL912J	9/16-12	7/8-14	1,3761 (887,8)	0,81 (20,6)	0,54 (13,72)
				1,1131 (718,1)		
KNHXXH1018J	KNHXXHL1018J	5/8-18	1-12	1,6420 (1059,4)	0,87 (22,1)	0,51 (12,95)
				1,2770 (823,9)		
KNHXXH1011J	KNHXXHL1011J	5/8-11	1-12	1,6420 (1059,4)	0,87 (22,1)	0,59 (14,99)
				1,2770 (823,9)		

Part number	Installation dimensions					Removal dimensions	
	modified Core-Ø* inch (mm)	C'Sink-Ø inch +0,01 (mm) +0,25	Installation thread		Hand installation tool part-no.	Drill	
			Thread Tol.- UNC 2B	L2 min. inch (mm)		Ø inch (mm)	Depth inch (mm)
KNHXXH820J	0,766 (19,46)	0,822 (20,88)	13/16-16 UNF	0,75 (19,05)	THXHD820L	23/32 (18,26)	3/16 (4,76)
KNHXXHL820J							
KNHXXH813J	0,766 (19,46)	0,822 (20,88)	13/16-16 UNF	0,75 (19,05)	THXHD813L	23/32 (18,26)	3/16 (4,76)
KNHXXHL813J							
KNHXXH918J	0,828 (21,03)	0,885 (22,48)	7/8-14 UNF	0,94 (23,88)	THXHD918L	25/32 (19,84)	3/16 (4,76)
KNHXXHL918J							
KNHXXH912J	0,828 (21,03)	0,885 (22,48)	7/8-14 UNF	0,94 (23,88)	THXHD912L	25/32 (19,84)	3/16 (4,76)
KNHXXHL912J							
KNHXXH1018J	0,937 (23,80)	1,020 (25,91)	1-12 UNF	1,00 (25,40)	THXHD1018L	27/32 (21,43)	5/16 (7,94)
KNHXXHL1018J							
KNHXXH1011J	0,937 (23,80)	1,020 (25,91)	1-12 UNF	1,00 (25,40)	THXHD1011L	27/32 (21,43)	5/16 (7,94)
KNHXXHL1011J							

*the core Ø are different from SAE AS 8879



Part number		Dimensions				
Standard „KNHXXH“	Self-locking „KNHXXHL“	Internal thread Ø Tol.- 3B	External thread Ø Tol.- 2A	Shear engagement inch ² (mm ²)	L1 inch (mm)	L4 inch (mm)
KNHXXH1216J		3/4-16	1-1/4-12	2,7966 (1804,2)	1,12 (28,5)	
	KNHXXHL1216J			2,5505 (1645,5)	1,25 (31,8)	0,57 (14,48)
KNHXXH1210J		3/4-10	1-1/4-12	2,7966 (1804,2)	1,12 (28,5)	
	KNHXXHL1210J			2,5505 (1645,5)	1,25 (31,8)	0,64 (16,26)
KNHXXH1414J		7/8-14	1-3/8-12	3,4652 (2235,6)	1,25 (31,8)	
	KNHXXHL1414J			3,2769 (2114,1)	1,37 (34,8)	0,63 (16,00)
KNHXXH1409J		7/8-9	1-3/8-12	3,4652 (2235,6)	1,25 (31,8)	
	KNHXXHL1409J			3,2769 (2114,1)	1,37 (34,8)	0,71 (18,03)
KNHXXH1612J		1-12	1-1/2-12	4,2374 (2733,8)	1,37 (34,8)	
	KNHXXHL1612J			4,2135 (2718,4)	1,50 (38,1)	0,70 (17,78)
KNHXXH1608J		1-8	1-1/2-12	4,2374 (2733,8)	1,37 (34,8)	
	KNHXXHL1608J			4,2135 (2718,4)	1,50 (38,1)	0,78 (19,81)

Part number	Installation dimensions					Removal dimensions	
	modified Core-Ø* inch (mm)	C'Sink-Ø inch +0,01 (mm) +0,25	Installation thread		Hand installation tool part-no.	Drill	
			Thread Tol. - UNC 2B	L2 min. inch (mm)		Ø inch (mm)	Depth inch (mm)
KNHXXH1216J	1,187 (30,15)	1,270 (32,26)	1-1/4-12 UNF	1,31 (33,27) 1,44 (36,58)	THXHD1216L	1-3/32 (27,78)	5/16 (7,94)
KNHXXHL1216J							
KNHXXH1210J	1,187 (30,15)	1,270 (32,26)	1-1/4-12 UNF	1,31 (33,27) 1,44 (36,58)	THXHD1210L	1-3/32 (27,78)	5/16 (7,94)
KNHXXHL1210J							
KNHXXH1414J	1,312 (33,32)	1,395 (35,43)	1-3/8-12 UNF	1,44 (36,58) 1,56 (39,62)	THXHD1414L	1-7/32 (30,96)	5/16 (7,94)
KNHXXHL1414J							
KNHXXH1409J	1,312 (33,32)	1,395 (35,43)	1-3/8-12 UNF	1,44 (36,58) 1,56 (39,62)	THXHD1409L	1-7/32 (30,96)	5/16 (7,94)
KNHXXHL1409J							
KNHXXH1612J	1,437 (36,50)	1,520 (38,61)	1-1/2-12 UNF	1,56 (39,62) 1.68 (42,67)	THXHD1612L	1-11/32 (34,13)	5/16 (7,94)
KNHXXHL1612J							
KNHXXH1608J	1,437 (36,50)	1,520 (38,61)	1-1/2-12 UNF	1,56 (39,62) 1.68 (42,67)	THXHD1608L	1-11/32 (34,13)	5/16 (7,94)
KNHXXHL1608J							

*the core Ø are different from SAE AS 8879