Spanners and sockets



Spanners and sockets

Interference fits on tapered shafts

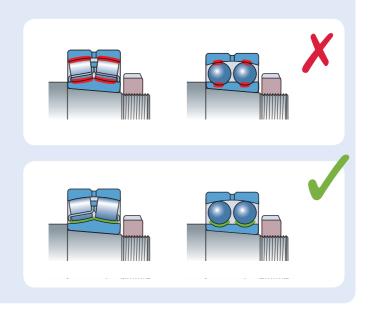
Bearings mounted on tapered seatings achieve their interference fit by being driven up the tapered shaft. Care should be taken to ensure the bearing is not driven up too far, as all the internal clearance may be removed and damage to the bearing is possible.

Incorrect mounting

Bearing driven up too far and all clearance removed; damage possible.

Correct mounting

Bearing driven up the correct distance and the right clearance is achieved.



The comprehensive range of SKF spanner and sockets are used to tighten and loosen many types and sizes of bearing lock nuts, for bearings mounted directly on a shaft or on sleeves.



Exact spanner radius reduces the risk of nut damage

SKF Hook Spanners HN series

- Minimises the risk of shaft and nut damage
- Plastic handle is oil, grease and dirt resistant to provide a better grip
- The plastic handle minimises direct metal to skin contact, reducing the risk of corrosion in the handle area
- Spanner designation is laser-engraved allowing for easy identification and selection
- Available as a set: SKF HN 4-16/SET containing 9 spanners for lock nut sizes 4 up to 16

Contents	Contents SKF HN 4-16/SET								
HN 4	HN 8-9	HN 14							
HN 5-6	HN 10-11	HN 15							
HN 7	HN 12-13	HN 16							

Selection cha	Selection chart – HN series											
Designation	Suitable fo	uitable for the following series of SKF lock nuts										
	KM	N	AN	KMK	KMFE	KMT	DIN 1804 (M)					
HN 0	0	0		0			M6×0,75, M8×1					
HN 1	1	1		1								
HN 2-3	2, 3	2, 3		2,3		0	M10×1, M12×1,5					
HN 4	4	4		4	4	1, 2	M14×1,5, M16×1,5					
HN 5-6	5, 6	5, 6		5, 6	5, 6	3, 4, 5	M22×1,5, M24×1,5, M26×1,5					
HN 7	7	7		7	7	6, 7	M28×1,5, M30×1,5, M32×1,5, M35×1,5					
HN 8-9	8, 9	8, 9		8, 9	8, 9	8	M38×1,5, M40×1,5, M42×1,5					
HN 10-11	10, 11	10, 11		10, 11	10, 11	9, 10	M45×1,5, M48×1,5, M50×1,5					
HN 12-13	12, 13	12, 13		12, 13	12, 13	11, 12	M52×1,5, M55×1,5, M58×1,5, M60×1,5					
HN 14	14		14	14	14							
HN 15	15		15	15	15	13, 14	M62×1,5, M65×1,5, M68×1,5, M70×1,5					
HN 16	16		16	16	16	15						
HN 17	17		17	17	17	16	M72×1,5, M75×1,5,					
HN 18-20	18, 19, 20		18, 19, 20	18, 19, 20	18, 19, 20	17, 18, 19	M80×2, M85×2, M90×2					
HN 21-22	21, 22		21, 22		21, 22	20, 22	M95×2, M100×2					

Designation	Spanner design	Outer diar	neter lock nut	Designation	Spanner design	Outer diam	eter lock nut
	DIN 1810	2 2.101 4.41	outer diameter took nut		DIN 1810		
	mm	mm	in.		mm	mm	in.
HN 0		16-20	0.6-0.8	HN 12-13	Ø80 – Ø90	80-90	3.1-3.5
HN 1	Ø20 – Ø22	20-22	0.8-0.9	HN 14		92	3.6
HN 2-3	Ø25-Ø28	25–28	1.0-1.1	HN 15	Ø95-Ø100	95-100	3.7-3.9
HN 4	Ø30 – Ø32	30–32	1.2-1.3	HN 16		105	4.1
HN 5-6		38-45	1.5–1.8	HN 17	0110-0115	110-115	4.3-4.5
HN 7	Ø52 – Ø55	52-55	2.0-2.2	HN 18-20	Ø120-Ø130	120-130	4.7-5.1
HN 8-9		58-65	2.3-2.6	HN 21-22	0135-0145	135-145	5.3-5.7
HN 10-11	Ø68–Ø75	68–75	2.7-3.0				



Four sizes for tightening or loosening up to 24 nut sizes

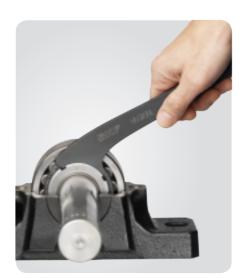
SKF Adjustable Hook Spanners HNA series

- One hook spanner covers several nut sizes, making it suitable for use with many applications
- Economic solution: 4 hook spanners cover a wide range of nut sizes
- Laser engraved designation, which represents the range of nut sizes covered by each spanner, allows easy selection of the correct spanner

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- Versatile: suitable for a wide selection of lock nuts
- Minimises the risk of shaft and nut damage

Selection chart and technical data – HNA series											
Designation	Outer diame	eter lock nut	Suitable fo	Suitable for the following series of SKF lock nuts							
	mm	in.	KM	KML	N	AN	KMK	KMFE	KMT		
HNA 1-4	20–35	0.8-1.4	1-4		2-4		0-4	4	0–2		
HNA 5-8	35–60	1.4-2.4	5–8		5–8		5–8	5–8	3–7		
HNA 9-13	60–90	2.4-3.5	9–13		9–13		9–13	9–13	8–12		
HNA 14-24	90-150	3.5-6.1	14-24	24-26		14-24	14-20	14-24	13-24		



Easy and quick bearing mounting and dismounting in SNL housings

SKF Hook Spanners HN ../SNL series

- Unique design allows the SKF HN ../SNL series to be used inside SKF SNL and SNH bearing housings
- Suitable for tightening and loosening a wide selection of lock nuts, facilitating their use in a wide range of housing and shaft applications
- The large contact area of the spanner around the nut provides excellent grip and force transmission
- Exact fit reduces the risk of shaft, nut and housing damage



Selection chart and technical data											
Designation	Outer diameter lock nut		Suitable for SKF housings	Suitable for the following series of SKF lock nuts							
	mm	in.	SNL	KM	KML	N	AN	KMK	KMFE	KMFE L	KMT*
HN 5/SNL	38	1.50	505, 506–605	5		5		5	5		4, 5
HN 6/SNL	45	1.77	506-605, 507-606	6		6		6	6		6
HN 7/SNL	52	2.05	507–606, 508–607	7		7		7	7		7
HN 8/SNL	58	2.28	508–607, 510–608	8		8		8	8		
HN 9/SNL	65	2.56	509, 511–609	9		9		9	9		8
HN 10/SNL	70	2.76	510-608, 512-610	10		10		10	10		9
HN 11/SNL	75	2.95	511–609, 513–611	11		11		11	11		10
HN 12/SNL	80	3.15	512–610, 515–612	12		12		12	12		
HN 13/SNL	85	3.35	513-611, 516-613	13		13		13	13		11, 12,
HN 15/SNL	98	3.86	515–612, 518–615	15			15	15	15		13, 14
HN 16/SNL	105	4.13	516-613, 519-616	16			16	16	16		15
HN 17/SNL	110	4.33	517, 520–617	17			17	17	17		16
HN 18/SNL	120	4.72	518–615	18			18	18	18		17
HN 19/SNL	125	4.92	519-616, 522-619	19			19	19	19		18
HN 20/SNL	130	5.12	520-617, 524-620	20			20	20	20		19, 20
HN 22/SNL	145	5.71	522–619	22	24		22		22		22
HN 24/SNL	155	6.10	524–620	24, 25	26		24		24, 25		24
HN 26/SNL	165	6.50	526	26, 27	28				26	26	26, 28
HN 28/SNL	180	7.09	528	28, 29	30, 32		28		28	28	30
HN 30/SNL	195	7.68	530	30, 31	34		30		-		32, 34
HN 32/SNL	210	8.27	532	32, 33, 34	36, 38				30		36

^{*} Not recommended for use in combination with SNL/SNH housing



Easy mounting and dismounting without nut damage

SKF Axial Lock Nut Sockets TMFS series

- Requires less space around the bearing arrangement than hook spanners
- Inch connections for power tools or torque wrenches
- SKFTMFS fits nuts of series KM, KMK (metric) and KMF
- Special versions are available on request



Designation	Suitable for nuts of series				ons					Connection	
	KM, KMK	KMFE	DIN 1804 (M)	Outer diameter lock nut		Outer di socket	ameter	Effecti	ve height		
				mm	in.	mm	in.	mm	in.	in.	
TMFS 0	0		M8×1	18	0.7	22,0	0.9	45	1.8	3/8	
TMFS 1	1			22	0.9	28,0	1.1	45	1.8	3/8	
TMFS 2	2		M10×1	25	1.0	33,0	1.3	61	2.4	1/2	
TMFS 3	3		M12×1,5, M14×1,5	28	1.1	36,0	1.4	61	2.4	1/2	
TMFS 4	4	4	M16×1,5, M18×1,5, M20×1,5	32	1.3	38,0	1.5	58	2.3	1/2	
TMFS 5	5	5	M22×1,5, M24×1,5	38	1.5	46,0	1.8	58	2.3	1/2	
TMFS 6	6	6	M26×1,5, M28×1,5, M30×1,5	45	1.8	53,0	2.1	58	2.3	1/2	
TMFS 7	7	7	M32×1,5, M35×1,5	52	2.0	60,0	2.4	58	2.3	1/2	
TMFS 8	8	8	M38×1,5, M40×1,5, M42×1,5	58	2.3	68,0	2.7	58	2.3	1/2	
TMFS 9	9	9	M45×1,5	65	2.6	73,5	2.9	63	2.5	3/4	
TMFS 10	10	10		70	2.8	78,5	3.1	63	2.5	3/4	
TMFS 11	11	11	M48×1,5, M50×1,5	75	3.0	83,5	3.3	63	2.5	3/4	
TMFS 12	12	12	M52×1,5, M55×1,5	80	3.1	88,5	3.5	63	2.5	3/4	
TMFS 13	13	13	M58×1,5, M60×1,5	85	3.3	94,0	3.7	63	2.5	3/4	
TMFS 14	14	14	M62×1,5, M65×1,5	92	3.6	103,0	4.1	80	3.2	1	
TMFS 15	15	15	M68×1,5, M70×1,5	98	3.9	109,0	4.3	80	3.2	1	
TMFS 16	16	16		105	4.1	116,0	4.6	80	3.2	1	
TMFS 17	17	17	M72×1,5, M75×1,5	110	4.3	121,0	4.8	80	3.2	1	
TMFS 18	18	18		120	4.7	131,0	5.2	80	3.2	1	
TMFS 19	19	19	M85×2	125	4.9	137,0	5.5	80	3.2	1	
TMFS 20	20	20	M90×2	130	5.1	143,0	5.7	80	3.2	1	



High impact forces without nut damage

SKF Impact Spanners TMFN series

- Helps avoid shaft and nut damage
- Safe and user friendly
- Impact applied effectively to the nut
- Suitable for a wide selection of lock nuts
- Special wide impact face
- To be used in combination with a hammer

Selection chart										
Designation	Suitable for	adapter sleeves	Suitable for nuts of series							
	H 23, H 31, H 32	H 30, H 39	KM	KML	НМТ	НМ	KMFE	KMT	DIN 1804 (M)	
TMFN 23-30	24–30	26–32	23–30	26–32	-	-	23–28 26L–28L	24–30	M105×2, M105×2, M110×2, M115×2, M120×2, M125×2, M130×3, M140×3, M150×3, M160×3	
TMFN 30-40	30–40	34–40	32–38	34–40	-	-	30–40	32–40	M170x3, M180x3, M190x3, M200x3	
TMFN 40-52	40-48	44–52	40	-	42T-50T	3044–3052	-	40, 44, 48	=	
TMFN 52-64	52-64	56–68	-	-	52T-56T	3056–3068	-	-	-	
TMFN 64-80	64-80	68–88	-	-	-	3168–3088	-	-	-	
TMFN 80-500	80-500	88–530	-	-	-	3184-30/500	-	-	-	
TMFN 500-600	500-600	530-630	-	-	-	31/500–30/630	-	-	-	
TMFN 600-750	600-750	670-800	-	-	-	31/600-31/800	-	-	-	

Technical data							
Designation	Lock nut outer diameter						
	mm	in.					
TMFN 23-30	150-220	5.9-8.7					
TMFN 30-40	195–270	7.7–10.6					
TMFN 40-52	250–320	9.8–12.6					
TMFN 52-64	330-400	12.6-15.7					
TMFN 64-80	420-520	15.7–20.5					
TMFN 80-500	540-620	21.3-24.8					
TMFN 500-600	630–730	24.8–29.5					
TMFN 600-750	750–950	29.5–37.4					







For achieving the correct radial clearance

SKF Bearing Lock Nut Spanner TMHN 7 series

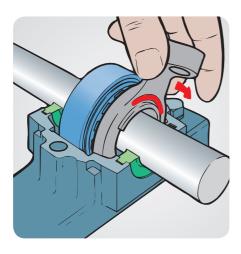
The SKF TMHN 7 set of lock nut spanners is especially designed for mounting self-aligning ball bearings as well as small spherical roller and CARB toroidal roller bearings on tapered seatings. Using the SKF TMHN 7, minimises the risk of over-tightening of the lock nut, which can remove the bearing's radial clearance resulting in bearing damage.

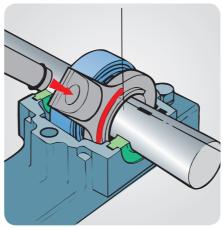
- 7 different-sized spanners to fit nut sizes 5 to 11
- Each spanner is clearly marked with correct tightening angle and protractor
- 4 grip points on each spanner provide a better and safer grip on the nut
- Reduced risk of damaging bearing by over-tightening
- Suitable for use with lock nuts of the KM series either on shaft or in SNL housings

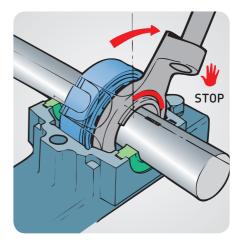


TMHN 7 is suitable for use with:
Bearing designation
1205 EK-1211 EK
1306 EK-1311 EK
2205 EK-2211 EK
2306 K
2307 EK-2309 EK
2310 K-2311 K

Technical data		
Designation	TMHN 7	
Dimensions of case (w \times d \times h)	$340 \times 250 \times 80 \text{ mm}$ (13.4 × 9.8 × 3.1 in.)	
Weight	2,2 kg (4. <i>7 lb</i>)	









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