

# Spanners and sockets

Easy mounting and dismounting without nut damage

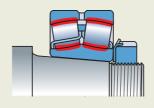


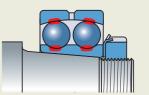
#### Interference fits on tapered shafts

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.

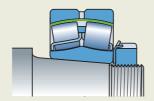


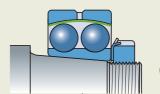




#### **Correct mounting**

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 S	KF 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

Designation	Suitable for t	the following s	eries 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, M80×2
HN 18-20	18, 19, 20		18, 19, 20	18, 19, 20	18, 19, 20	17, 18, 19	M85×2, M90×2
HN 21-22	21, 22	22	21, 22		21, 22	20, 22	M95×2, M100×2

Designation	Spanner design DIN 1810	Outer diameter lock nut				Spanner design DIN 1810	Outer diameter lock nut		
	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 <b>–</b> 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 <b>–</b> Ø55	52-55	2.0-2.2	HN 18-20	0120-0130	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
- Versatile: suitable for a wide selection of lock nuts
- Minimises the risk of shaft and nut damage

Selection chart	and technical da	ıta – HNA series							
Designation	Outer diame	ter lock nut	Suitable fo	r 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		1-4		0–4	4	0–2
HNA 5-8	35–60	1.4-2.4	5–8		4–8		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		15-24	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, FSNL, SNH and SE 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



Designation		liameter	Suitable for SKF housings	Suitable for the following series of SKF lock nuts						
	lock nu	t	SNL/FSNL/SNH/SE	KM	KML	N <sup>1)</sup>	AN1)	KMK <sup>1)</sup>	KMFE	KMT1)
	mm	in.								
HN 5/SNL	38	1.50	505, 506–605	5		5		5	5	4
HN 6/SNL	45	1.77	506-605, 507-606	6		6		6	6	5, 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		22	20, 21	20	20	19, 20
HN 22/SNL	145	5.71	522–619	22	24	24	22		22	22
HN 24/SNL	155	6.10	524-620	24	26	26	24		24	24
HN 26/SNL	165	6.50	526	26	28	28	26		26	26,28
HN 28/SNL	180	7.09	528	28	30	30				30
HN 30/SNL	195	7.68	530	30	32	34	30			32,34
HN 32/SNL	210	8.27	532	32		36				36

 $<sup>^{1)}\,\</sup>mathrm{Not}\,\mathrm{recommended}$  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	e for the foll	owing series of SKF lock nuts	Dimensi	Dimensions						
	KM, KMK	KMFE	DIN 1804 (M)	Outer di lock nut		Outer die socket	ameter	Effectiv	ve height		
				mm	in.	mm	in.	mm	in.	in.	
TMFS 0	01)			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	28	1.1	36,0	1.4	61	2.4	1/2	
TMFS 4	4	4	M16×1,5	32	1.3	38,0	1.5	58	2.3	1/2	
TMFS 5	5	5		38	1.5	46,0	1.8	58	2.3	1/2	
TMFS 6	6	6	M26×1,5	45	1.8	53,0	2.1	58	2.3	1/2	
TMFS 7	7	7		52	2.0	60,0	2.4	58	2.3	1/2	
TMFS 8	8	8	M38×1,5	58	2.3	68,0	2.7	58	2.3	1/2	
TMFS 9	9	9		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		75	3.0	83,5	3.3	63	2.5	3/4	
TMFS 12	12	12		80	3.1	88,5	3.5	63	2.5	3/4	
TMFS 13	13	13		85	3.3	94,0	3.7	63	2.5	3/4	
TMFS 14	14	14		92	3.6	103,0	4.1	80	3.2	1	
TMFS 15	15	15		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		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		125	4.9	137,0	5.5	80	3.2	1	
TMFS 20	20	20		130	5.1	143,0	5.7	80	3.2	1	



#### High impact forces without nut damage

# SKF Impact Spanners TMFN series

- Designed for safely tightening and loosening a wide selection of larger lock nuts
- Not intended to be used to drive bearings up a tapered seating
- Helps avoid shaft and nut damage
- Safe and user friendly
- Impact applied effectively to the nut
- Special wide impact face
- To be used in combination with a hammer

Designation	KMT	KM	KML	KMFE	HM (HM E)			НМ Т	AN	N	DIN 1804 (M)
TMFN 23-30	26-30	23-31	26-32	24-28					AN22-AN28	N022-N032	M105x2-M130x3
TMFN 30-40	32-40	32-40	34-40	30-38					AN30-AN38	N034-N040	M140x3-M180x3
TMFN 40-52				40	3044-3052			42-48	AN40	N044-N052	N44 M190x3, M200x3
TMFN 52-64					3056-3064	3160		50, 52, 56		N056-N064	
TMFN 64-80					3068-3084	3164-3176				N068-N084	
TMFN 80-500					3088-3096	3180-3196	30/500			N088-N096	N500
TMFN 500-600					30/530-30/630	31/500-31/56	0			N530-N630	
TMFN 600-750					30/670-30/800	31/600-31/75	0			N670-N800	

Suitable for the	e following series of S	SKF adapter sleeves			
Designation	H 23	H 30	H 31	H32	H39
TMFN 23-30	H2324-H2332L	H3024E-H3032	H3124-H3130L		H3926-H3932
TMFN 30-40	H2332-H2340	H3030E, H3034-H3040	H3132-H3140L		H3934-H3940
TMFN 40-52	0H2344H, 0H2348H	OH3044H-OH3052H	H3144H(HTL)-H3152HTL		H3944H-H3952H
TMFN 52-64	OH2352H, OH2356H	OH3056H-OH3064H	OH3152H-OH3160H	0H3260H	OH3956H-OH3964H
TMFN 64-80		0H3068 H-0H3084H	OH3164H-OH3176H(E)	0H3264H-0H3276 H	OH3968H-OH3984H(E)
TMFN 80-500		0H30/500H, 0H3080H – 0H3096H	OH3180H(E)-OH3196H(E)	0H3280H-0H3296 H	0H39/500H(E), 0H3988H-0H3996H(E)
TMFN 500-600		OH30/530H-OH30/630H	OH31/530H-OH31/560H(E)	OH32/500H-0H32/560H	OH39/530H(E)-OH39/630H(E)
TMFN 600-750		OH30/670H-OH30/800H(E)	OH31/600H-OH31/750H(E)	OH32/600H-0H32/750H	OH39/670H(E)-OH39/800H(E)

Designation	d		f		h		
	mm	in.	mm	in.	mm	in.	
TMFN 23-30	148	5.83	11,5	0.45	4,4	0.17	
TMFN 30-40	193	7.60	13,5	0.53	5,3	0.21	
TMFN 40-52	248	9.76	16	0.63	6,5	0.26	
TMFN 52-64	316	12.44	19	0.75	8,5	0.33	
TMFN 64-80	396	15.59	23	0.91	11	0.43	
TMFN 80-500	516	20.31	28	1.10	13	0.51	h †
TMFN 500-600	626	24.65	36	1.42	16	0.63	" <del>     </del>
TMFN 600-750	746	29.37	40	1.57	19	0.75	Ød



For achieving the correct radial clearance

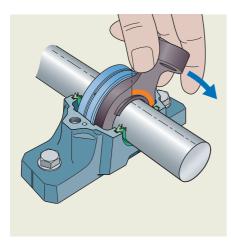
#### SKF Bearing Lock Nut Spanner TMHN 7 series

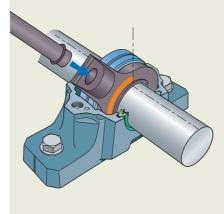
The SKF TMHN 7 set of lock nut spanners is especially designed for mounting self-aligning ball bearings as well as small spherical roller and CARB toroidal roller bearings on tapered seatings. Using the SKF TMHN 7, minimises the risk of over-tightening of the lock nut, which can remove the bearing's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

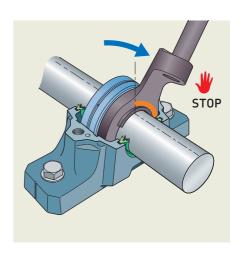
- 7 different-sized spanners to fit nut sizes 5 to 11
- Each spanner is equipped with a protractor and is clearly marked with the correct tightening angle for mounting SKF Self aligning ball bearings
- 4 grip points on each spanner provide a better and safer grip on the nut
- Reduced risk of damaging 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	
Carrying case dimensions	345 × 255 × 85 mm (13.6 × 10.0 × 3.3 in.)	
Weight	2,2 kg (4. <i>7 lb</i> )	







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