

730R/40/32 Quick



Torque wrench set

- for general maintenance work
- in steel case

Key features of torque wrench No. 730/40 Quick

- clicking type with dual stop signal
- no reset to '0' required, as the measuring element is only under load when a force is applied
- mount for interchangeable insert tools
- with QuickRelease safety lock
- Quick adjustment thanks to easy-to-operate locking lever in handle
- non-slip adjuster with thumb recess for quick torque adjustment
- double scale N·m/ft·lb or N·m/in·lb
- also available on request as a N·m only version without dual scale
- counter-clockwise tightening by turning the insert tools over
- clicking mechanism insensitive to continuous loads and counter-loads (up to the max. measurement range of the torque wrench)
- optimal calibration with perfectControl® calibration systems No. 7794 or calibration systems No. 7706, 7791
- easy adjustment without disassembly via 2 external adjustment screws
- with 2-component handle
- calibration certificate in accordance with DIN EN ISO 6789-2:2017
- **accuracy ± 4%**

Contains 32-pieces:

- 1 torque wrench Service MANOSKOP® No. 730R/40 Quick: measurement range: 80-400 N·m
- 1 ratchet insert tool, reversible 1/2" No. 735/20: 60 teeth
- 1 square drive insert tool 1/2" No. 734/20
- 7 open-ended insert tools No. 731/40: 13; 15; 17; 19; 22; 27; 30 mm
- 1 open-ended insert tool No. 3731/40: 24 mm
- 7 ring insert tools No. 732/40: 13; 15; 17; 19; 22; 24; 27 mm
- 10 sockets with bi-hex 1/2" No. 50: 13; 14; 15; 17; 19; 22; 24; 27; 30; 32 mm
- 1 T-handle 1/2" No. 506: L 300 mm
- 3 extensions 1/2" No. 509: L: 55; 130; 255 mm

Product no.	L mm	W mm	H mm	Content pcs.	⚖ g
96502053	640	240	60	32	9739



ACHIEVE THE CORRECT TIGHTENING TORQUE – even when using insert tools with an extended length.

When you tighten fasteners using inserts whose extension length S deviates from the standard length S_F , it is necessary to recalculate the setting/display value for the torque wrench in use.

Caution! If adaptors are combined with inserts or special tools, use the sum of the extensions = ΣS . Where the special tool is angled to the side, adjusted reading or setting value W_K will have to be determined empirically.

$$W_K = \frac{M_A \cdot L_F}{L_K} \left[\frac{\text{N}\cdot\text{m} \cdot \text{mm}}{\text{mm}} \right]$$

$$W_K = \frac{M_A \cdot L_F}{L_F - S_F + S \text{ (bzw. } \Sigma S)}$$

M_A = Desired tightening torque

W = Reading/setting $W = M_A$

W_K = Adjusted reading or setting value $W_K \neq M_A$

L_F = Functional length (see dimension table for torque wrenches)

L_K = Adjusted functional length
 $L_K = L_F - S_F + S$ (or ΣS)

S = Extension of STAHLWILLE inserts or special tools (see dimension table for inserts)

S_F = Standard extension (see dimension table for torque wrenches)

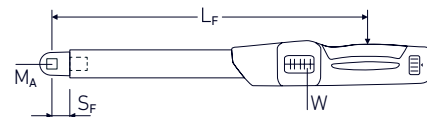
ΣS = Total of all extensions of the attached inserts
 $S_{\text{adaptor}} + S_{\text{insert}} + \dots$



Normal situation

Torque wrench No 730N/10 combined with square drive insert tool No 734/5 and socket size 13 mm
Required tightening torque for the screw $M_A = 40 \text{ N-m}$

Dimension table for torque wrenches: $S_F = 17.5 \text{ mm}$, $L_F = 336 \text{ mm}$
 Dimension table for square drive insert tools: $S = 17.5 \text{ mm}$



No adjustment to setting value required on torque wrench. $\rightarrow S = S_F$
 $\rightarrow W = M_A$

Example 1: adjusted setting value (1 insert tool)

Torque wrench No 730N/20 combined with ring insert tool No 732/40 size 36 mm
Required tightening torque for the screw $M_A = 190 \text{ N-m}$

Dimension table for torque wrenches: $S_F = 25 \text{ mm}$, $L_F = 424.5 \text{ mm}$
 Dimension table for ring insert tools: $S = 28 \text{ mm}$

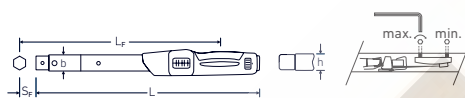
And this is what it looks like in the catalogue:

730N



Service MANOSKOP® torque wrench

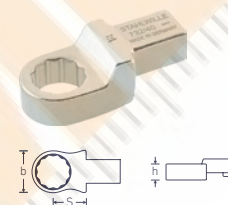
- dual scale N-m/in-lb
- with holder for interchangeable insert tools
- with QuickRelease safety lock
- counter-clockwise tightening by turning the insert tools over
- accuracy ± 4



Product no.	Size	N-m	in-lb	N-m	in-lb	fine scale	mm	L_F mm	S_F mm
50181005	5	10-50	7-37	5	1	0,25 N-m	9 x 12	280,5	17,5
50181010	10	20-100	15-75	10	2,5	0,5 N-m	9 x 12	336	17,5
50181012	12	25-130	20-95	10	2,5	0,5 N-m	14 x 18	379	25
50181020	20	40-200	30-150	10	5	1 N-m	14 x 18	424,5	25
50181040	40	80-400	60-300	20	10	2 N-m	14 x 18	564,5	25
50181065 *	65	130-650	100-480	50	20	2,5 N-m	14 x 18	848	25
50181365	III/65	130-650	100-480	50	20	2,5 N-m	22 x 28	900	55
50181080	80	160-800	120-600	100	25	5 N-m	22 x 28	1167	55
50181100	100	200-1000	150-750	100	25	5 N-m	22 x 28	1352	55

$$W_k = \frac{M_A \cdot L_F}{L_F - S_F + S} = \frac{190 \text{ N-m} \cdot 424,5 \text{ mm}}{424,5 \text{ mm} - 25 \text{ mm} + 28 \text{ mm}} = \frac{190 \text{ N-m} \cdot 424,5 \text{ mm}}{427,5 \text{ mm}} = 188,7 \text{ N-m}$$

732/40



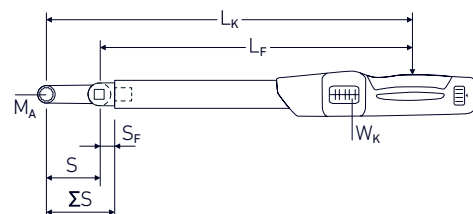
Product no.	\varnothing mm	mm	b mm	h mm	S mm
58224013	13	14 x 18	22,5	11	25
58224014	14	14 x 18	23	11	25
58224015	15	14 x 18	24	11	25
58224016	16	14 x 18	25,5	12	25
58224017	17	14 x 18	27	12	25
58224018	18	14 x 18	29	13	25
58224019	19	14 x 18	30,5	13	25
58224021	21	14 x 18	33	15	25
58224022	22	14 x 18	34,5	15	25
58224024	24	14 x 18	37,5	15	25
58224027	27	14 x 18	42,5	17	25
58224028	28	14 x 18	45,5	19	25
58224030	30	14 x 18	46	19	25
58224032	32	14 x 18	47,5	19	25
58224034 *	34	14 x 18	52	19	28
58224036 *	36	14 x 18	54	19	28
58224041 *	41	14 x 18	60	20	30

Adjusted setting value $W_k = 188,7 \text{ N-m}$
 \rightarrow value to set 189 N-m $\rightarrow S \neq S_F$
 $\rightarrow W \neq M_A$

Example 2: adjusted reading (insert tool and adaptor)

Torque wrench No 730N/10 combined with square drive insert tool No 734/5 and adaptor No 447 size 10 mm
Required tightening torque for the screw $M_A = 25 \text{ N-m}$

Dimension table for torque wrenches: $L_F = 336 \text{ mm}$, $S_F = 17.5 \text{ mm}$
 Dimension table for square drive insert tools: $S_F = 17.5 \text{ mm}$
 Dimension table for adaptors: $\Sigma S = 50.8 \text{ mm}$



$$W_k = \frac{M_A \cdot L_F}{L_F - S_F + \Sigma S} = \frac{25 \text{ N-m} \cdot 336 \text{ mm}}{336 \text{ mm} - 17.5 \text{ mm} + 17.5 \text{ mm} + 50.8 \text{ mm}} = \frac{25 \text{ N-m} \cdot 336 \text{ mm}}{386.8 \text{ mm}}$$

Adjusted setting value $W_k = 21.7 \text{ N-m}$
 $\rightarrow \Sigma S \neq S_F$
 $\rightarrow W \neq M_A$

INSERT TOOLS.

Insert tools for torque wrenches

General information

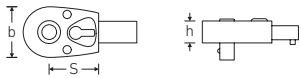
- external square drives ■ according to DIN 3120
- load capacities on external square drives in accordance with DIN EN ISO 6789
- if larger torque wrenches and tool holders are used, this must not be exceeded

725QR



QuickRelease ratchet insert tools

- for torque wrenches with interchangeable insert system
- reversible
- with QuickRelease safety lock
- size 4: 22 teeth
- sizes 5 and 10: 30 teeth



Product no.	Size	■	mm	b mm	h mm	S mm	°	max. N·m	△△ g
58253004	4	1/4	9 x 12	22	13.8	17.5	16.4	40	50
58253005 *	5	3/8	9 x 12	29	18	28	12	100	130
58253010 *	10	1/2	9 x 12	29	18	28	12	100	141

* **Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

725B



Bit ratchet insert tools

- for torque wrenches with interchangeable insert system
- reversible
- with internal hex, 1/4" or 5/16", DIN 3126 / ISO 1173 D 6.3 or D8
- for direct mounting of bits with 1/4" or 5/16" external hex C 6.3 or C 8 (size 4: 22 teeth, size 5: 30 teeth)
- hex with collar-thrust spring
- bits are easy to insert, lock securely into place, and can be easily pulled out again; also hex with wide groove (Form E, DIN 3126 / ISO 1173)



Product no.	Size	mm	b mm	h mm	S mm	°	△△ g
58255004	4	9 x 12	22	13.6	17.5	16.4	54
58255005 *	5	9 x 12	29	17.9	28	12	117

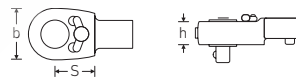
* **Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

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Ratchet insert tool

- for torque wrenches with interchangeable insert system
- reversible
- 22 teeth



Product no.	■	mm	b mm	h mm	S mm	°	max. N·m	△△ g
58254004	1/4	9 x 12	22	13.8	17.5	16.4	40	62

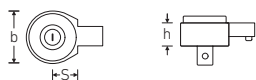


735



Fine-tooth ratchet insert tools

- for torque wrenches with interchangeable insert system
- reversible (also available as a clockwise-only ratchet on request)
- 60 teeth



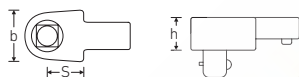
Product no.	Size	■ "	🔧 mm	b mm	h mm	S mm	∠ °	max. N·m	ΔΔ g
58250004	4	1/4	9 x 12	24	19	17.5	6	42	82
58250005	5	3/8	9 x 12	33	24	17.5	6	100	150
58250010	10	1/2	9 x 12	33	24	17.5	6	100	147

734



Square drive insert tools

- for torque wrenches with interchangeable insert system
- with secured square drive



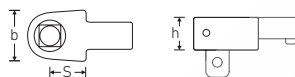
Product no.	Size	■ "	🔧 mm	b mm	h mm	S mm	max. N·m	ΔΔ g
58240004	4	1/4	9 x 12	20	14	17.5	40	71
58240005	5	3/8	9 x 12	20	14	17.5	80	76
58240010	10	1/2	9 x 12	20	14	17.5	100	82

734F



Square drive insert tools

- for torque wrenches with interchangeable insert system
- with secured square drive



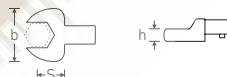
Product no.	Size	■ "	🔧 mm	b mm	h mm	S mm	max. N·m	ΔΔ g
58241004	4	1/4	9 x 12	22	14	17.5	40	72
58241005	5	3/8	9 x 12	22	14	17.5	80	75

731/10



Open-ended insert tools

- for torque wrenches with interchangeable insert system
- special chromium over nickel plating, durable and chip-proof finish
- drop-forged, hardened, and cooled in an oil bath
- extremely strong, exceptionally durable



Product no.	□ mm	🔧 mm	b mm	h mm	S mm	ΔΔ g
58211007	7	9 x 12	22	5	17.5	40
58211008	8	9 x 12	22	5	17.5	39
58211009	9	9 x 12	26	5.5	17.5	38
58211010	10	9 x 12	26	5.5	17.5	42
58211011	11	9 x 12	26	5.5	17.5	41
58211012	12	9 x 12	30	7	17.5	43
58211013	13	9 x 12	30	7	17.5	45
58211014	14	9 x 12	35	8	17.5	52
58211015	15	9 x 12	35	8	17.5	51
58211016	16	9 x 12	38	8.5	17.5	58
58211017	17	9 x 12	38	8.5	17.5	60
58211018*	18	9 x 12	42	9	20	71
58211019*	19	9 x 12	42	9	20	74

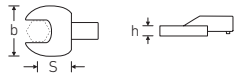
* Caution! Adjust the setting on the torque wrench (see note on page 58 and 59)

731a/10



Open-ended insert tools

- for torque wrenches with interchangeable insert system
- special chromium over nickel plating, durable and chip-proof finish
- drop-forged, hardened, and cooled in an oil bath
- extremely strong, exceptionally durable



Product no.	Size	mm	b mm	h mm	S mm	Δg
58611016	1/4	9 x 12	22	5	17.5	36
58611020	5/16	9 x 12	22	5	17.5	53
58611024	3/8	9 x 12	26	5.5	17.5	38
58611028	7/16	9 x 12	26	5.5	17.5	37
58611032	1/2	9 x 12	30	7	17.5	44
58611034	9/16	9 x 12	35	8	17.5	49
58611036	5/8	9 x 12	38	8.5	17.5	64
58611038 *	11/16	9 x 12	42	9	20	76
58611040 *	3/4	9 x 12	42	9	20	73

* **Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

732/10



Ring insert tools

- bi-hex with AS-Drive profile
- for torque wrenches with interchangeable insert system
- special chromium over nickel plating, durable and chip-proof finish
- drop-forged, hardened, and cooled in an oil bath
- extremely strong, exceptionally durable



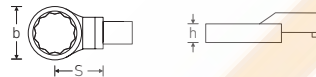
Product no.	Size	mm	b mm	h mm	S mm	Δg
58221007	7	9 x 12	13	8	17.5	37
58221008	8	9 x 12	14.2	8	17.5	40
58221010	10	9 x 12	17.2	9	17.5	44
58221011	11	9 x 12	18.5	9	17.5	41
58221012	12	9 x 12	20.5	11	17.5	49
58221013	13	9 x 12	21.5	11	17.5	55
58221014	14	9 x 12	22.5	11	17.5	52
58221015	15	9 x 12	24.5	12	17.5	52
58221016	16	9 x 12	26	12	17.5	54
58221017	17	9 x 12	27	13	17.5	59
58221018	18	9 x 12	28	13	17.5	56
58221019	19	9 x 12	30.5	13	17.5	65
58221021	21	9 x 12	33	15	17.5	71
58221022	22	9 x 12	34.5	15	17.5	74

732a/10



Ring insert tools

- bi-hex with AS-Drive profile
- for torque wrenches with interchangeable insert system
- special chromium over nickel plating, durable and chip-proof finish
- drop-forged, hardened, and cooled in an oil bath
- extremely strong, exceptionally durable



Product no.	Size	mm	b mm	h mm	S mm	Δg
58621016	1/4	9 x 12	13	8	17.5	36
58621020	5/16	9 x 12	14.2	8	17.5	37
58621024	3/8	9 x 12	17.2	9	17.5	37
58621028	7/16	9 x 12	18.5	9	17.5	40
58621032	1/2	9 x 12	21.5	11	17.5	53
58621034	9/16	9 x 12	22.5	11	17.5	52
58621036	5/8	9 x 12	26	12	17.5	54
58621038	11/16	9 x 12	28	13	17.5	58
58621040	3/4	9 x 12	30.5	13	17.5	58
58621042	13/16	9 x 12	33	15	17.5	68
58621044	7/8	9 x 12	34.5	15	17.5	69

732TX/10



TORX® insert tools

- for torque wrenches with interchangeable insert system
- special chromium over nickel plating, durable and chip-proof finish
- drop-forged, hardened, and cooled in an oil bath
- extremely strong, exceptionally durable



Product no.	Size	mm	b mm	h mm	S mm	Δg
58291006	E6	9 x 12	13	8	17.5	40
58291008	E8	9 x 12	14.2	8	17.5	45
58291010	E10	9 x 12	17.2	9	17.5	45
58291012	E12	9 x 12	18.5	9	17.5	50
58291014	E14	9 x 12	21.5	11	17.5	60

732G/10



Ring insert tools

- bi-hex with AS-Drive profile
- for torque wrenches with interchangeable insert system
- HPQ® high-performance steel, gunmetal finish



Product no.	Ø mm	mm	b mm	h mm	S mm	g
58620007	7	9 x 12	11.5	6	45	31
58620008	8	9 x 12	12.4	6	45	33
58620009	9	9 x 12	14	8	45	44
58620010	10	9 x 12	15.6	8	45	45
58620013	13	9 x 12	19.3	9.2	45	60

* **Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

732aG/10



Ring insert tools

- bi-hex with AS-Drive profile
- for torque wrenches with interchangeable insert system
- for the assembly and disassembly of engines
- HPQ® high-performance steel, gunmetal finish



Product no.	Ø mm	mm	b mm	h mm	S mm	g
58621216	1/4	9 x 12	10.4	6	45	28
58621220	5/16	9 x 12	12.4	6	45	31
58621224	3/8	9 x 12	14.9	8	45	42
58621228	7/16	9 x 12	17	8	45	43
58621232	1/2	9 x 12	19	9.2	45	58
58621234	9/16	9 x 12	21	9.2	45	58
58621236	5/8	9 x 12	23	12	45	74

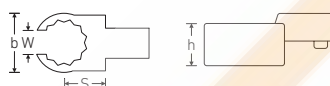
* **Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

733/10



OPEN RING insert tools

- bi-hex with AS-Drive profile
- for torque wrenches with interchangeable insert system
- special chromium over nickel plating, durable and chip-proof finish
- drop-forged, hardened, and cooled in an oil bath
- extremely strong, exceptionally durable



Product no.	Ø mm	mm	b mm	h mm	W mm	S mm	g
58231010	10	9 x 12	21.5	11	7.1	17.5	57
58231011	11	9 x 12	22.5	11	8.6	17.5	55
58231012	12	9 x 12	24.5	12	9	17.5	59
58231013	13	9 x 12	26	12	10	17.5	55
58231014	14	9 x 12	27	13	11	17.5	60
58231016	16	9 x 12	30.5	13	13	17.5	65
58231017	17	9 x 12	31.5	13	14	17.5	64
58231018	18	9 x 12	33	15	14.8	17.5	74
58231019	19	9 x 12	34	15	15.8	17.5	70
58231021 *	21	9 x 12	38.5	15	16.2	20	88
58231022 *	22	9 x 12	39.5	15	17	20	92
58231024 *	24	9 x 12	40	15	18	20	75

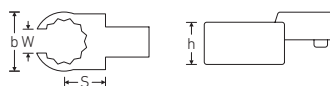
* **Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

733a/10



OPEN RING insert tools

- bi-hex with AS-Drive profile
- for torque wrenches with interchangeable insert system
- special chromium over nickel plating, durable and chip-proof finish
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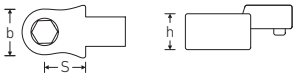
Product no.	Ø mm	mm	b mm	h mm	W mm	S mm	g
58631024	3/8	9 x 12	21.5	11	7.1	17.5	55
58631028	7/16	9 x 12	22.5	11	8.6	17.5	56
58631032	1/2	9 x 12	26	12	9.5	17.5	58
58631034	9/16	9 x 12	27.5	13	11	17.5	59
58631036	5/8	9 x 12	30.5	13	12.7	17.5	61
58631038	11/16	9 x 12	33	15	14	17.5	48
58631040	3/4	9 x 12	34	15	15.8	17.5	76

736



Bit holder insert tools

- hex with collar-thrust spring
- for torque wrenches with interchangeable insert system
- bits are easy to insert, lock securely into place, and can be easily pulled out again
- hex socket DIN 3126 / ISO 1173



Product no.	Size	Ø mm	Ø"	mm	b mm	h mm	S mm	g
58261010	10	D 8	5/16	9 x 12	16	12.5	17.5	47
58262610	10-1	D 6.3	1/4	9 x 12	14	10	17.5	45

737/10



Blank end insert tool

- for welding on custom-made tools
- for torque wrenches with interchangeable insert system
- gunmetal finish
- to avoid damage due to high temperatures, the pin and spring must not be fitted before the tool has been welded
- instructions are provided
- material: 1.2208 - 31CRV3



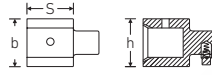
Product no.	Welding dimensions h ₂ x b in mm	mm	L mm	h ₂ mm	g
58270010	8 x 14	9 x 12	8	14.5	35

7370/10



Insert tool adaptor

- for use with insert tools with an external size of 14 x 18 mm in torque wrenches with an internal insert system of 9 x 12 mm



Product no.	Ø mm	mm	L mm	b mm	h mm	S mm	g
58290010	14 x 18	9 x 12	55	31	26	30.5	118

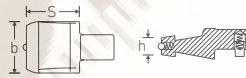
* **Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

7370/10-2



Insert tool adaptor

- for use with insert tools with a lateral dovetail profile in torque wrenches with an internal system of 9 x 12 mm



Product no.	mm	mm	L mm	b mm	h mm	S mm	g
58290012	9.5 x 23.5	9 x 12	40	23.5	9.5	24	51

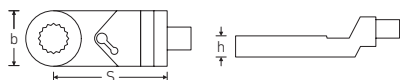
* **Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

717



Ratchet ring insert tools

- bi-hex
- for torque wrenches with interchangeable insert system
- reversible
- HPQ® high-performance steel, black gunmetal finish



Product no.	Ø mm	mm	b mm	h mm	S mm	°	max. N-m	Δ g
58170108	8	9 x 12	20	7.5	35	5	34	58
58170110	10	9 x 12	22	7.6	42	5	58	70
58170112	12	9 x 12	25	9.1	42	5	89	90
58170113	13	9 x 12	26	9.4	42	5	100	94
58170117	17	9 x 12	32.5	10.6	52	5	160	114
58170119	19	9 x 12	35.5	11.5	52	5	160	126
58170122	22	9 x 12	42	13.8	52	5	160	166

* Caution! Adjust the setting on the torque wrench (see note on page 58 and 59)

1820



Tool holder/disassembly tool

- tool holder without torque function, with tool carrier for insert tools

Product no.	mm	L mm	Δ g
18200001	9 x 12	382.5	490

725QR/20



QuickRelease ratchet insert tool

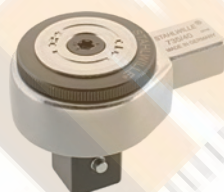
- for torque wrenches with interchangeable insert system
- reversible
- with QuickRelease safety lock
- 36 teeth



Product no.	Size	mm	b mm	h mm	S mm	°	max. N-m	Δ g	
58253020	20	1/2	14 x 18	41	22.3	38.5	10	200	325

* Caution! Adjust the setting on the torque wrench (see note on page 58 and 59)

735



Fine-tooth ratchet insert tools

- for torque wrenches with interchangeable insert system
- reversible (also available as a clockwise-only ratchet on request)
- 60 teeth



Product no.	Size	mm	b mm	h mm	S mm	°	max. N-m	Δ g	
58250020	20	1/2	14 x 18	43	26	25	6°	300	302
58250040	40	3/4	14 x 18	50	31.5	25	6°	400	515
58250065*	40HD	3/4	14 x 18	58	36	30	6°	650	725

* Caution! Adjust the setting on the torque wrench (see note on page 58 and 59)

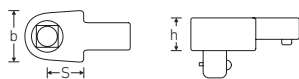


734



Square drive insert tools

- for torque wrenches with interchangeable insert system
- with secured square drive



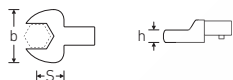
Product no.	Size	mm	b mm	h mm	S mm	max. N·m	g	
58240020	20	1/2	14 x 18	27	18	25	300	205
58240040	40	3/4	14 x 18	40	25	25	650	396

731/40



Open-ended insert tools

- for torque wrenches with interchangeable insert system
- special chromium over nickel plating, durable and chip-proof finish
- drop-forged, hardened, and cooled in an oil bath
- extremely strong, exceptionally durable



Product no.	mm	mm	b mm	h mm	S mm	g
58214013	13	14 x 18	30	7	25	128
58214014	14	14 x 18	35	8	25	129
58214015	15	14 x 18	35	8	25	132
58214016	16	14 x 18	38	9	25	140
58214017	17	14 x 18	38	9	25	130
58214018	18	14 x 18	42	10	25	147
58214019	19	14 x 18	42	10	25	140
58214021	21	14 x 18	50	11	25	171
58214022	22	14 x 18	50	11	25	165
58214024	24	14 x 18	53	12	25	167
58214025	25	14 x 18	53	12	25	170
58214027 *	27	14 x 18	60	13	30	219
58214030 *	30	14 x 18	66	14	30	275
58214032 *	32	14 x 18	66	14	32.5	246
58214034 *	34	14 x 18	66	14	32.5	239
58214036 *	36	14 x 18	74	15	32.5	275
58214038 *	38	14 x 18	74	15	32.5	265
58214041 *	41	14 x 18	82	15	36.5	307

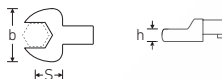
* **Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

731a/40



Open-ended insert tools

- for torque wrenches with interchangeable insert system
- special chromium over nickel plating, durable and chip-proof finish
- drop-forged, hardened, and cooled in an oil bath
- extremely strong, exceptionally durable



Product no.	mm	mm	b mm	h mm	S mm	g
58614028	7/16	14 x 18	30	7	25	127
58614032	1/2	14 x 18	30	7	25	125
58614034	9/16	14 x 18	35	8	25	129
58614036	5/8	14 x 18	38	9	25	136
58614038	11/16	14 x 18	42	10	25	148
58614040	3/4	14 x 18	42	10	25	144
58614042	13/16	14 x 18	50	11	25	171
58614044	7/8	14 x 18	50	11	25	165
58614046	15/16	14 x 18	53	12	25	177
58614048 *	1	14 x 18	60	13	30	224
58614052 *	1 1/8	14 x 18	66	14	30	258

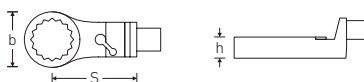
* **Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

718



Ratchet ring insert tools

- bi-hex
- for torque wrenches with interchangeable insert system
- reversible
- HPQ® high-performance steel, black gunmetal finish



Product no.	mm	mm	b mm	h mm	S mm	°	max. N·m	g
58170217	17	14 x 18	32.5	10.6	52	5	200	166
58170219	19	14 x 18	35.5	11.5	52	5	200	182
58170221	21	14 x 18	42	13.8	52	5	330	222
58170222	22	14 x 18	42	13.8	52	5	360	216
58170224	24	14 x 18	47	14.6	52	5	360	252
58170227	27	14 x 18	52	15.6	55	5	360	296

* **Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

732/40



Ring insert tools

- bi-hex with AS-Drive profile
- for torque wrenches with interchangeable insert system
- special chromium over nickel plating, durable and chip-proof finish
- drop-forged, hardened, and cooled in an oil bath
- extremely strong, exceptionally durable



Product no.	Ø mm	mm	b mm	h mm	S mm	±g
58224013	13	14 x 18	22.5	11	25	130
58224014	14	14 x 18	23	11	25	123
58224015	15	14 x 18	24	11	25	128
58224016	16	14 x 18	25.5	12	25	133
58224017	17	14 x 18	27	12	25	135
58224018	18	14 x 18	29	13	25	134
58224019	19	14 x 18	30.5	13	25	145
58224021	21	14 x 18	33	15	25	144
58224022	22	14 x 18	34.5	15	25	145
58224024	24	14 x 18	37.5	15	25	153
58224027	27	14 x 18	42.5	17	25	162
58224028	28	14 x 18	45.5	19	25	175
58224030	30	14 x 18	46	19	25	182
58224032	32	14 x 18	47.5	19	25	181
58224034 *	34	14 x 18	52	19	28	210
58224036 *	36	14 x 18	54	19	28	203
58224041 *	41	14 x 18	60	20	30	240

* **Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

732a/40



Ring insert tools

- bi-hex with AS-Drive profile
- for torque wrenches with interchangeable insert system
- special chromium over nickel plating, durable and chip-proof finish
- drop-forged, hardened, and cooled in an oil bath
- extremely strong, exceptionally durable



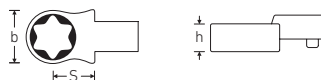
Product no.	Ø mm	mm	b mm	h mm	S mm	±g
58624032	1/2	14 x 18	22.5	11	25	122
58624034	7/16	14 x 18	23	11	25	122
58624036	5/8	14 x 18	25.5	12	25	134
58624038	11/16	14 x 18	29	13	25	132
58624040	3/4	14 x 18	30.5	13	25	138
58624042	13/16	14 x 18	33	15	25	142
58624044	7/8	14 x 18	34.5	15	25	147
58624046	15/16	14 x 18	37.5	15	25	151
58624048	1	14 x 18	41	17	25	160

732TX/40



TORX® insert tools

- for torque wrenches with interchangeable insert system
- special chromium over nickel plating, durable and chip-proof finish
- drop-forged, hardened, and cooled in an oil bath
- extremely strong, exceptionally durable



Product no.	Size	mm	b mm	h mm	S mm	±g
58294014	E14	14 x 18	22.5	11	25	130
58294018	E18	14 x 18	24	11	25	135
58294020	E20	14 x 18	29	13	25	150
58294024	E24	14 x 18	30.5	13	25	150

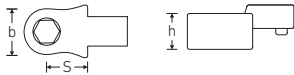


736/40



Bit holder insert tool

- for torque wrenches with interchangeable insert system
- hex with collar-thrust spring
- bits are easy to insert, lock securely into place, and can be easily pulled out again



Product no.	Ø mm	mm	b mm	h mm	S mm	Δg
58261040	5/16	14 x 18	16	12.5	25	114

737/40



Blank end insert tool

- for welding on custom-made tools
- for torque wrenches with interchangeable insert system
- gunmetal finish
- to avoid damage due to high temperatures, the pin and spring must not be fitted before the tool has been welded
- instructions are provided
- material: 1.2208 - 31CRV3



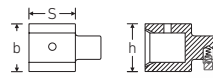
Product no.	Welding dimensions h ₂ x b in mm	mm	L mm	h ₁ mm	Δg
58270040	11 x 25	14 x 18	12	21.5	98

7370/40



Insert tool adaptor

- for use with insert tools with an external size of 9 x 12 mm in torque wrenches with an internal insert system of 14 x 18 mm



Product no.	Ø mm	mm	L mm	b mm	h mm	S mm	Δg
58290040	9 x 12	14 x 18	60	28	21	21.5	117

* **Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

7370/40-1



Insert tool adaptor

- for use with 24.5 x 28 mm shell tools with torque wrenches with an internal insert system of 14 x 18 mm

Product no.	mm	mm	L mm	b mm	h mm	S mm	Δg
58290041	24.5 x 28	14 x 18	66	75	20	95.9	251

* **Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

7370/40-2



Insert tool adaptor

- for use with insert tools with lateral dovetail profile in torque wrenches with an internal insert system of 14 x 18 mm



Product no.	mm	mm	L mm	b mm	h mm	S mm	Δg
58290042	9.5 x 31.5	14 x 18	50	31.5	9.5	34.6	138

* **Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

1821



Tool holder/disassembly tool

- tool holder without torque function, with tool carrier for insert tools

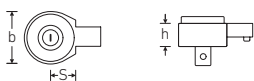
Product no.	mm	L mm	g
18210001	14 x 18	575	720

735/65



Fine-tooth ratchet insert tool

- for torque wrenches with square drive
- reversible
- 60 teeth



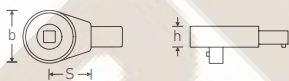
Product no.	"	mm	b mm	h mm	S mm	°	max. N·m	g
58251065	3/4	22 x 28	61	35	55	6	650	1115

735/100



Ratchet insert tool

- for torque wrenches with interchangeable insert system
- with push-through square drive
- 30 teeth



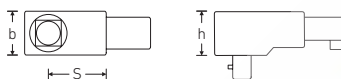
Product no.	"	mm	b mm	h mm	S mm	°	max. N·m	g
58250100	3/4	22 x 28	76	42	55	12	1000	1893

734/100



Square drive insert tool

- for torque wrenches with interchangeable insert system
- with push-through square drive



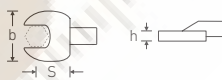
Product no.	"	mm	b mm	h mm	S mm	g
58240100	3/4	22 x 28	43	42	55	1175

731/100



Open-ended insert tools

- for torque wrenches with interchangeable insert system
- special chromium over nickel plating, durable and chip-proof finish
- drop-forged, hardened, and cooled in an oil bath
- extremely strong, exceptionally durable



Product no.	mm	mm	b mm	h mm	S mm	g
58211024	24	22 x 28	50	13	55	618
58211027	27	22 x 28	56	14	55	640
58211030	30	22 x 28	63	15	55	690
58211032	32	22 x 28	67	15	55	705
58211034	34	22 x 28	72	15	55	731
58211036	36	22 x 28	74	15	55	713
58211041	41	22 x 28	84	16	55	894
58211046	46	22 x 28	94	17	55	934
58211050	50	22 x 28	104	18	55	1073
58211055	55	22 x 28	114	19	55	1172
58211060	60	22 x 28	124	20	55	1241

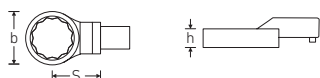
TOOLS THAT
... inspire

732/100



Ring insert tools

- bi-hex with AS-Drive profile
- for torque wrenches with interchangeable insert system
- special chromium over nickel plating, durable and chip-proof finish
- drop-forged, hardened, and cooled in an oil bath
- extremely strong, exceptionally durable



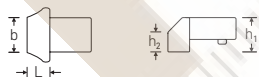
Product no.	mm	mm	b mm	h mm	S mm	g
58221024	24	22 x 28	43	15	55	616
58221027	27	22 x 28	43	15	55	609
58221030	30	22 x 28	46	16	55	617
58221032	32	22 x 28	49	16	55	611
58221034	34	22 x 28	52	17	55	627
58221036	36	22 x 28	54	17	55	620
58221041	41	22 x 28	61	18	55	630
58221046	46	22 x 28	66	19	55	628
58221050	50	22 x 28	75	20	55	701
58221055	55	22 x 28	84	21	55	776
58221060	60	22 x 28	93	22	55	867

737/100



Blank end insert tool

- for welding on custom-made tools
- for torque wrenches with interchangeable insert system
- gunmetal finish
- to avoid damage due to high temperatures, the pin and spring must not be fitted before the tool has been welded
- instructions are provided
- material: 1.2208 - 31CRV3



Product no.	Welding dimensions h ₂ x b in mm	mm	L mm	h ₁ mm	g
58270100	15 x 50	22 x 28	24	32	483

7370/100



Insert tool adaptor

- for use with 24.5 x 28 mm shell tools with torque wrenches with an internal insert system of 22 x 28 mm

Product no.	mm	mm	L mm	b mm	h mm	S mm	g
58291100	24.5 x 28	22 x 28	85	33	30	100	421

* **Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

735/80



Ratchet shell tool

- for torque wrenches with a carrier for shell tools
- with push-through square drive
- 30 teeth



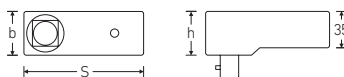
Product no.	"	mm	b mm	h mm	S mm	°	g
58250080	3/4	24.5 x 28	76	43	95	12	1930

734/80



Square drive shell tool

- for torque wrenches with a carrier for shell tools
- with push-through square drive



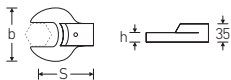
Product no.	"	mm	b mm	h mm	S mm	g
58240080	3/4	24.5 x 28	49	42	95	1200

731/80



Open-ended shell tools

- for torque wrenches with a carrier for shell tools
- special chromium over nickel plating, durable and chip-proof finish
- drop-forged, hardened, and cooled in an oil bath
- extremely strong, exceptionally durable



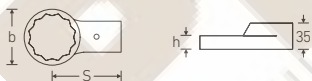
Product no.	Ø mm	mm	b mm	h mm	S mm	± g
58218024	24	24.5 x 28	50	13	95	601
58218027	27	24.5 x 28	56	14	95	620
58218030	30	24.5 x 28	63	15	95	655
58218032	32	24.5 x 28	67	15	95	670
58218034	34	24.5 x 28	72	15	95	699
58218036	36	24.5 x 28	74	15	95	620
58218041	41	24.5 x 28	84	16	95	810
58218046	46	24.5 x 28	94	17	95	867
58218050	50	24.5 x 28	104	18	95	1010
58218055	55	24.5 x 28	114	19	95	1150
58218060	60	24.5 x 28	124	20	95	1325

732/80



Ring shell tools

- bi-hex with AS-Drive profile
- for torque wrenches with a carrier for shell tools
- special chromium over nickel plating, durable and chip-proof finish
- drop-forged, hardened, and cooled in an oil bath
- extremely strong, exceptionally durable



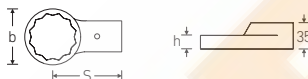
Product no.	Ø mm	mm	b mm	h mm	S mm	± g
58228024	24	24.5 x 28	36	15	95	605
58228027	27	24.5 x 28	40.5	15	95	610
58228030	30	24.5 x 28	46	16	95	630
58228032	32	24.5 x 28	49	16	95	635
58228034	34	24.5 x 28	52	17	95	650
58228036	36	24.5 x 28	54	17	95	650
58228041	41	24.5 x 28	61	18	95	675
58228046	46	24.5 x 28	66	19	95	700
58228050	50	24.5 x 28	75	20	95	750
58228055	55	24.5 x 28	84	21	95	800
58228060	60	24.5 x 28	93	22	95	850

732a/80



Ring shell tools

- bi-hex with AS-Drive profile
- for torque wrenches with a carrier for shell tools
- special chromium over nickel plating, durable and chip-proof finish
- drop-forged, hardened, and cooled in an oil bath
- extremely strong, exceptionally durable
- for power pack bolts (Airbus A320/A321)



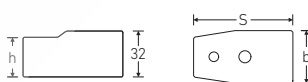
Product no.	Ø mm	mm	b mm	h mm	S mm	± g
58628046	15/16	24.5 x 28	36	14	95	604
58628050	1 1/16	24.5 x 28	40.5	14	95	608

7370/80



Shell adaptor

- for torque wrenches with an attachment for insert tools
- for use with 14 x 18 mm insert tools with torque wrenches with an internal insert system of 24.5 x 28 mm



Product no.	Ø mm	mm	b mm	h mm	S mm	± g
58290080	24.5 x 28	14 x 18	36	26	70	300

* **Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

1822



Tool holder/disassembly tool

tool holder without torque function, with carrier for shell tools

Product no.	mm	L mm	± g
18220003	24.5 x 28	1000	2057

440



Crowing spanners

- bi-hex with AS-Drive profile
- Chrome Alloy Steel, chrome-plated



Product no.	mm	"	L mm	b mm	a mm	W	S mm	g
01190008	8	1/4	23.8	12.7	8	6.3	12.3	11
01190009	9	1/4	28.5	18.2	13.5	6.7	14	21
01190010	10	1/4	28.4	18.2	13.5	7.1	14	16
01190011	11	1/4	28	18.2	13.5	8.6	14	17
01190012	12	1/4	30.8	20.6	14	9	15.7	20
01190013	13	1/4	32	22.2	14	10	16.4	30
01190014	14	1/4	31.7	22.2	14	11.1	16.4	20
02190015	15	3/8	36.5	24.6	17.5	11.9	19.1	34
02190016	16	3/8	36.1	24.6	17.5	13	19.1	27
02190017	17	3/8	39.2	27.3	17.5	14	20.5	40
02190018	18	3/8	40.8	29	18.5	14.8	21.3	45
02190019	19	3/8	40.5	29	18.5	15.8	21.3	40
02190020	20	3/8	42.9	31.3	18.5	15.8	22.5	54
02190021	21	3/8	42.8	31.3	18.5	16.2	22.5	45
02190022	22	3/8	45.3	33.5	19	17	23.6	57
02190023	23	3/8	47.5	35.7	19.5	17.5	24.6	71
02190024	24	3/8	47.3	35.7	19.5	18	24.6	57
02190025	25	3/8	49.3	37.7	20	19	25.7	80
02190026	26	3/8	49.3	37.7	20	19	25.7	63
02190027	27	3/8	52.8	40	21.4	20	28.2	100
03190028	28	1/2	56.8	42.1	22.5	21	29.3	120
03190030	30	1/2	63	48	22.5	22	32.5	155
03190032	32	1/2	62.5	48	22.5	24	32.5	145
03190034	34	1/2	64.2	50	24	27	33.5	146
03190036	36	1/2	66.5	51.9	24	27	34.6	150
03190038	38	1/2	68.1	53.9	24	28.6	35.6	147
03190040	40	1/2	71.8	57.9	24.5	31	37.7	160
03190041	41	1/2	71.8	57.9	24.5	31	37.7	169
03190042	42	1/2	71	57.9	24.5	33.2	37.7	189
03190046	46	1/2	77.7	64.2	26	34.1	40.9	215
03190050	50	1/2	83.2	70.5	27.5	39.7	44.1	295

* **Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

440a



Crowing spanners

- bi-hex with AS-Drive profile
- Chrome Alloy Steel, chrome-plated
- 3/8" for Volvo aircraft engine, type 'JAS'



Product no.	mm	"	L mm	b mm	a mm	W	S mm	g
01490024	3/8	1/4	28.4	18.2	13.5	7.1	14	16
01490028	7/16	1/4	28	18.2	13.5	8.6	14	14
01490032	1/2	1/4	30.5	20.6	14	10	15.7	19
01490034	9/16	1/4	31.7	22.2	14	11.1	16.4	23
02490036	5/8	3/8	36.5	24.6	17.5	11.9	19.1	33
02490038	11/16	3/8	39.2	27.3	17.5	14	20.5	36
02490040	3/4	3/8	40.9	29	18.5	14.2	21.3	44
02490042	13/16	3/8	42.9	31.3	18.5	15.8	22.5	51
02490044	7/8	3/8	45.2	33.5	19	17.5	23.6	62
02490046	15/16	3/8	47.2	35.7	19.5	18.3	24.6	63
02490048	1	3/8	49.3	37.7	20	19	25.7	71
02490050	1 1/16	3/8	52.8	40	21.4	20	28.2	84
03490052	1 1/8	1/2	56.8	42.1	22.5	21	29.3	110
03490056	1 1/4	1/2	62.5	48	22.5	23.8	32.5	137
03490058	1 5/16	1/2	62.3	48	22.5	24.6	32.5	130
03490060	1 3/8	1/2	64.2	50	24	27	33.5	138
03490062	1 7/16	1/2	66.5	51.9	24	27	34.6	143
03490064	1 1/2	1/2	68.1	53.9	24	28.6	35.6	152
03490065	1 9/16	1/2	70.1	55.9	24	29.4	36.7	172
03490066	1 5/8	1/2	71.8	57.9	24.5	31	37.7	169
03490068	1 3/4	1/2	75.6	62	25.5	33.2	39.8	199
03490069	1 13/16	1/2	77.7	64.2	26	34.1	40.9	229
03490072	2	1/2	83.2	70.5	27.5	39.7	44.1	277
03490076	2 1/4	1/2	91.2	78.7	29.5	42.8	48.2	337
03490077	2 5/16	1/2	93.3	80.9	30	43.6	49.2	309
03490078	2 3/8	1/2	95.2	83	30.5	46	50.2	385

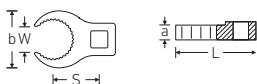
* **Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

440S MJ



Crowring spanners

- for pipe fittings, with straight cylindrical involute toothing
- EN 4108
- HPQ® high performance steel, chrome-plated



Product no.	Nut thread	mm	"	L mm	b mm	a mm	W	S mm	ΔΔ g
01211010	MJ10	DN04	1/4	31.9	22	8	6.5	17	54
01211014	MJ14	DN06	1/4	36.5	27	8	8.5	19.5	29
02211016	MJ16	DN08	3/8	43.8	31	8	10.5	24	46
02211018	MJ18	DN10	3/8	45.2	33	8	13	25	47
02211020	MJ20	DN12	3/8	46.2	35	8	15	26	49
02211022	MJ22	DN14	3/8	48.4	37	9	17.5	27	54
02211024	MJ24	DN16	3/8	49.5	39	9	19.7	28	56
02211027	MJ27	DN18	3/8	54.4	44	10	21.5	31	70
02211030	MJ30	DN20	3/8	60.8	50	10	23.7	36	93

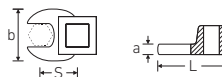
* **Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

540



Crowfoot spanners

- Chrome Alloy Steel, chrome-plated



Product no.	mm	"	L mm	b mm	a mm	S mm	ΔΔ g
01200008	8	1/4	25.5	19.8	6.3	14.6	19
01200009	9	1/4	25.5	19.8	6.3	14.6	21
01200010	10	1/4	25.5	19.8	6.3	14.6	20
02200011	11	3/8	32	22.2	6.3	17.4	36
02200012	12	3/8	34.3	25.4	6.3	18.2	37
02200013	13	3/8	34.3	25.4	6.3	17.8	36
02200014	14	3/8	37.7	30	6.3	20.8	46
02200015	15	3/8	37.7	30	6.3	20.4	45
02200016	16	3/8	37.7	30	6.3	19.9	45
02200017	17	3/8	42.5	38	6.3	23.8	62
02200018	18	3/8	42.5	38	6.3	22.9	61
02200019	19	3/8	42.5	38	6.3	22.4	64
02200020	20	3/8	42.4	38	6.3	25	55
02200021	21	3/8	44.5	41	6.3	23.6	59
02200022	22	3/8	44.5	41	6.3	24.2	64
02200023	23	3/8	44.5	41	6.3	25.8	64
02200024	24	3/8	44.4	41	6.3	26.3	60
02200025	25	3/8	47	45	8	26.4	75
02200026	26	3/8	47	45	8	27.6	80
02200027	27	3/8	47	45	8	27.6	76
02200028	28	3/8	50	50	8	29.2	78
02200030	30	3/8	50	50	8	29.3	84
02200032	32	3/8	53	57	8	30.5	95
02200034	34	3/8	54.5	60	8	31.6	107
02200036	36	3/8	56.5	62	8	32.8	100
02200040	40	3/8	63	70	8	37.6	130
02200041	41	3/8	63	70	8	37.2	130
02200042	42	3/8	63	70	8	37.7	125
02200046	46	3/8	72	82	8	43.1	191
02200050	50	3/8	75	88	8	45.4	217

* **Caution!** Adjust the setting on the torque wrench (see note on page 58 and 59)

TOOLS THAT
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