

PRESEKAR

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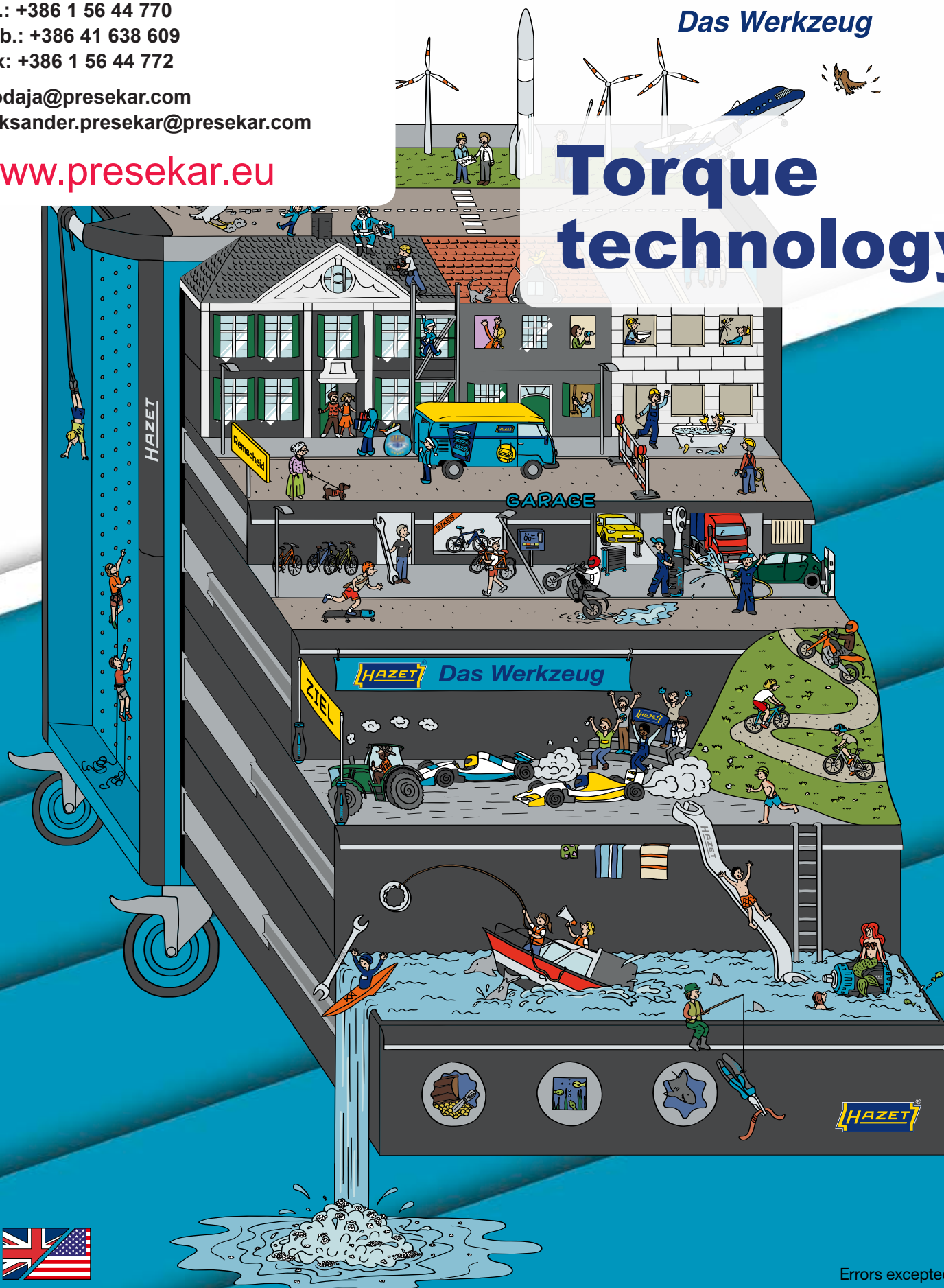
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www.presekar.eu



Das Werkzeug

Torque technology



WHB23/EN/XX/0



Errors excepted





Torque technology



5000-3 CT	With reversible ratchet	$\pm 3\%$ / 4%	1–800 Nm		310
5000 B-3 CT	Torque wrench for bits	$\pm 3\%$ / 4%	1–25 Nm		312
5200 CT	With insert square	$\pm 3\%$	2,5–200 Nm		312
5000 CLT	With display and reversible ratchet	$\pm 4\%$	20–320 Nm		313
5000 KV	With protective insulation, tested to 1000 V	$\pm 4\%$ / 6%	2 – 120 Nm		284
6000 CT	With reversible ratchet	$\pm 2\%$ / 4%	1–800 Nm		313
6000 CT	Can be disassembled, with reversible ratchet	$\pm 3\%$ / 4%	400–2000 Nm		315
6000 CT	US Standard, with reversible ratchet	$\pm 3\%$	5–600 lbf.ft		316
6200 CT	With insert square	$\pm 2\%$ / 4%	2–500 Nm		317
6000 CT	Torque tool sets				320
7000 sTAC	Electronic, with insert square and reversible ratchet	from $\pm 1\%$ / ± 1 digit / $\pm 1^\circ$	1–1000 Nm		322
6000	Torque screwdrivers for bits	$\pm 6\%$ – 15%	0,4–5,4 Nm		324
6000	Torque screwdrivers for bits	$\pm 5\%$	0,1–6 Nm		324
6300 CT	With insert square and adjustable fixed value	$\pm 2\%$ / 6%	1–320 Nm		325
	Insert tools				327
	Torque testers and accessories				330



Product overview of HAZET torque wrenches

	HAZET No.	Release accuracy		Measuring range
	5107-3 CT	± 4 %	6.3 1/4"	1–9 Nm
	5108-3 CT	± 3 %	6.3 1/4"	2.5–25 Nm
	5110-3 CT	± 3 %	10 3/8"	10–60 Nm
	5120-3 CT	± 3 %	12 ⁵ 1/2"	10–60 Nm
	5111-3 CT	± 3 %	10 3/8"	20–120 Nm
	5121-3 CT	± 3 %	12 ⁵ 1/2"	20–120 Nm
	5122-3 CT	± 3 %	12 ⁵ 1/2"	40–200 Nm
	5123-3 CT	± 3 %	12 ⁵ 1/2"	60–320 Nm
	5143-3 CT	± 3 %	12 ⁵ 1/2"	100–400 Nm
	5145-3 CT	± 3 %	20 3/4"	300–800 Nm
	5107 B-3 CT	± 4 %	6.3 1/4"	1–9 Nm
	5108 B-3 CT	± 3 %	6.3 1/4"	2.5–25 Nm
	5280-3 CT	± 3 %	9 x 12	2.5–25 Nm
	5290-3 CT	± 3 %	9 x 12	10–60 Nm
	5292-3 CT	± 3 %	14 x 18	40–200 Nm
	5121-2 CLT	± 4 %	12 ⁵ 1/2"	20–120 Nm
	5122-2 CLT	± 4 %	12 ⁵ 1/2"	40–200 Nm
	5123-2 CLT	± 4 %	12 ⁵ 1/2"	60–320 Nm
	5108 KV	± 6 %	10 3/8"	2–10 Nm
	5109 KV	± 4 %	10 3/8"	5–25 Nm
	5121 KV	± 4 %	12 ⁵ 1/2"	20–120 Nm
	6106-1 CT	± 4 %	6.3 1/4"	1–6 Nm
	6108-1 CT	± 2 %	6.3 1/4"	2–10 Nm
	6109-2 CT	± 2 %	6.3 1/4"	4–40 Nm
	6110-1 CT	± 2 %	10 3/8"	5–60 Nm
	6111-1 CT	± 2 %	10 3/8"	20–120 Nm
	6121-1 CT	± 2 %	12 ⁵ 1/2"	20–120 Nm
	6122-1 CT	± 2 %	12 ⁵ 1/2"	40–200 Nm
	6123-1 CT	± 2 %	12 ⁵ 1/2"	60–320 Nm
	6143-1 CT	± 2 %	20 3/4"	100–400 Nm
	6144-1 CT	± 2 %	20 3/4"	200–500 Nm
	6145-1 CT	± 2 %	20 3/4"	300–800 Nm
	6150-1 CT	± 3 %	20 3/4"	400–1000 Nm
	6160-1 CT	± 3 %	25 1"	600–1600 Nm
	6170-1 CT	± 4 %	25 1"	800–2000 Nm
	6114-1 CT	± 3 %	10 3/8"	5–40 lbf.ft
	6115-1 CT	± 3 %	10 3/8"	20–100 lbf.ft
	6127-1 CT	± 3 %	12 ⁵ 1/2"	40–200 lbf.ft
	6128-1 CT	± 3 %	12 ⁵ 1/2"	50–250 lbf.ft
	6132-1 CT	± 3 %	20 3/4"	120–600 lbf.ft



	HAZET No.	Release accuracy		Measuring range
	6280-1 CT	± 2 %	9 x 12	2–10 Nm
	6282-1 CT	± 2 %	9 x 12	4–40 Nm
	6281-2 CT	± 4 %	9 x 12	5–13 Nm
	6290-1 CT*	± 2 %	9 x 12	5–60 Nm
	6291-2 CT	± 2 %	9 x 12	20–120 Nm
	6291-1 CT	± 2 %	14 x 18	20–120 Nm
	6292-1 CT	± 2 %	14 x 18	40–200 Nm
	6293-1 CT	± 2 %	14 x 18	60–320 Nm
	6294-1 CT	± 2 %	14 x 18	100–400 Nm
	6295-1 CT	± 2 %	14 x 18	200–500 Nm
	7280-2 sTAC	± 2 % / 1 digit	9 x 12 6.3 1/4"	1–10 Nm
	7281-2 sTAC	± 2 % / 1 digit	9 x 12 6.3 1/4"	2.5–25 Nm
	7290-2 sTAC	± 1 % / 1 digit	9 x 12 10 3/8"	5–60 Nm
	7291-2 sTAC	± 1 % / 1 digit	9 x 12 10 3/8"	10–100 Nm
	7292-2 sTAC	± 1 % / 1 digit	14 x 18 12.5 1/2"	20–200 Nm
	7294-2 sTAC	± 1 % / 1 digit	14 x 18 20 3/4"	40–400 Nm
	7295-2 sTAC	± 1 % / 1 digit	14 x 18 20 3/4"	65–650 Nm
	7250-2 sTAC	± 1 % / 1 digit	20 3/4"	200–1000 Nm
	7280-5 sTAC	± 2 % / 1 digit	9 x 12 6.3 1/4"	1–10 Nm
	7281-5 sTAC	± 2 % / 1 digit	9 x 12 6.3 1/4"	2.5–25 Nm
	7290-5 sTAC	± 1 % / 1 digit	9 x 12 10 3/8"	5–60 Nm
	7291-5 sTAC	± 1 % / 1 digit	9 x 12 10 3/8"	10–100 Nm
	7292-5 sTAC	± 1 % / 1 digit	14 x 18 12.5 1/2"	20–200 Nm
	7294-5 sTAC	± 1 % / 1 digit	14 x 18 20 3/4"	40–400 Nm
	7295-5 sTAC	± 1 % / 1 digit	14 x 18 20 3/4"	65–650 Nm
	7250-5 sTAC	± 1 % / 1 digit	20 3/4"	200–1000 Nm
	6001-1.4/3	± 15 %	6.3 1/4"	0.4–1.4 Nm
	6001-1.5/3	± 10 %	6.3 1/4"	0.6–1.5 Nm
	6001-3.0/3	± 6 %	6.3 1/4"	1.5–3 Nm
	6001-5.4/3	± 6 %	6.3 1/4"	3–5.4 Nm
	6002 CT	± 5 %	6.3 1/4"	10–120 cNm
	6003 CT	± 5 %	6.3 1/4"	100–600 cNm
	6391-10	± 6 %	9 x 12	1–10 Nm
	6391-12 (V)	± 2 %	9 x 12	2–12 Nm
	6391-25 (V)	± 2 %	9 x 12	2–25 Nm
	6391-35 (V)	± 2 %	9 x 12	15–35 Nm
	6391-50 (V)	± 2 %	9 x 12	5–50 Nm
	6391-85 (V)	± 2 %	9 x 12	15–85 Nm
	6392-200 (V)	± 2 %	14 x 18	50–200 Nm
	6392-320 (V)	± 2 %	14 x 18	60–320 Nm



Pictogram key

<i>b</i>	Width in mm
<i>a</i>	Height in mm
<i>l</i>	Length in mm
<i>s</i>	Wrench size in mm or inches
	TORX® Size in mm
	Actuating force in kg
	For inside hexagon screws
	For outside hexagon screws
	For inside TORX® screws

	TRACTION PROFILE 6-point
	TRACTION PROFILE 12-point
	Nominal size 6.3
	Nominal size 10
	Nominal size 12.5
	Nominal size 20
	Nominal size 25
	Inside square
	Outside square

	Inside hexagon
	Outside hexagon
	Female connection 9 x 12 mm in torque wrenches
	Female connection 14 x 18 mm in torque wrenches
	Number of teeth
	Rotation angle
	Scale graduation

The HAZET Service Centre



Direct contact and coordination point for services for all of our products

Phone +49(0)2191/792-355
FAX +49(0)2191/792-523
e-mail service-center@hazet.de

- In our specially equipped Service Centre, you can receive the best aftersales service with short response times and the complete HAZET competence.
- Mainly the HAZET Service Centre provides you with the following services:
 - Repair, adjustment, calibration and certification of HAZET torque wrenches
 - All service tasks on HAZET torque wrenches, pneumatic tools, tool trolleys and the rest of the catalogue programme
 - Short response times
 - Contact partner in service matters

HAZET
Geniales Werkzeug

1. PDF-Formular vollständig ausfüllen und geschickt ausdrucken
 2. Ausgefülltes Formular für den Service einreichen
 3. Nach vorangegangener Prüfung, von Transportkosten zu vermeiden
 4. Paket aufrechtstehend transportieren (HAZET-WERK • Remscheid versichern)

Hager: Tel. 02191 792-355 • Fax 02191 792-523 • e-mail service-center@hazet.de

HAZET-WERK
Service-Center
Güldenwerther Bahnhofstraße 25 - 29
42857 Remscheid

Lieferadresse Nr.: _____
 Datum: _____
 Rechnungsempfänger: _____
 Warenbeschreibung an: _____

Sehr geehrte Damen und Herren,
 anbei erhalten Sie folgende Werkzeuge zur Reklamation:
 Anzahl: _____ Artikel-Nr.: _____ Seriennummer(n): _____ Reklamationsgrund: _____

Durch HAZET Service-Center
ausgefülltes
Eingangsstempel:

Werkzeugnummer: _____

4230000000





HAZET – Competence for calibration of torque and rotation angles

Accredited according to DIN EN ISO/IEC 17025 for measured values:

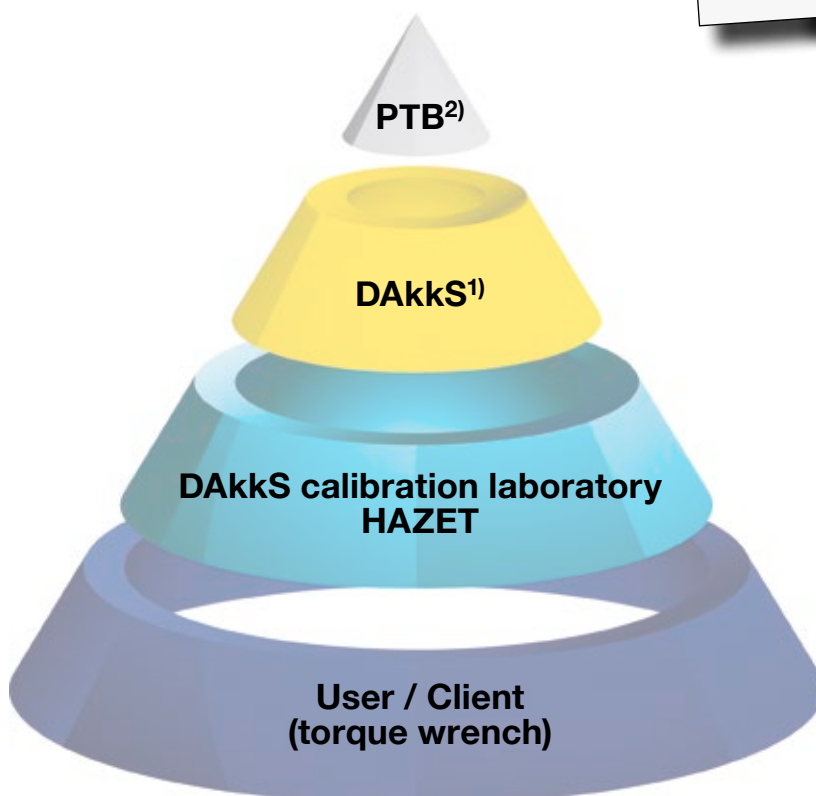
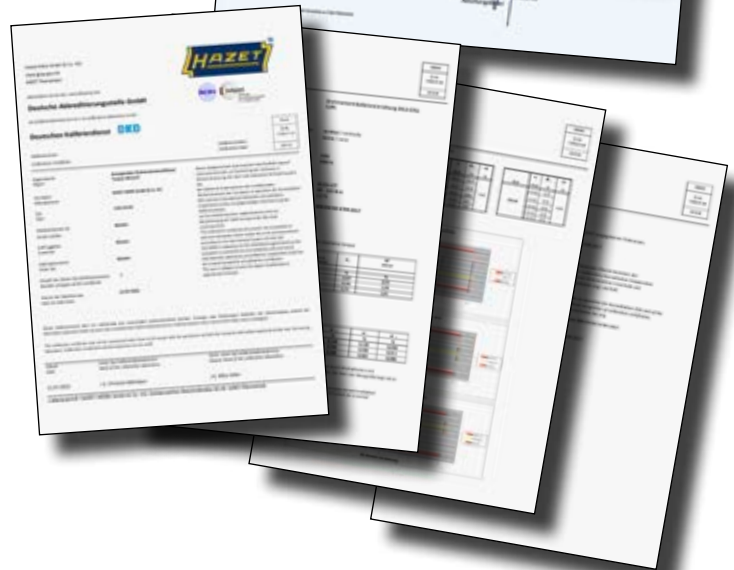
- Torque (DIN EN ISO 6789-2:2017)
- Rotation angle (VDI/VDE 2648 page 2; without item 4.2)

Complies with special demands of ISO/TS 16949 for calibration laboratories

(mandatory requirement for all suppliers of the automotive industry)

HAZET-owned calibration laboratory guarantees optimal technical calibration competence by accreditation

Authorised to issue calibration certificates



Deutsche
Akkreditierungsstelle
D-K-17638-01-00

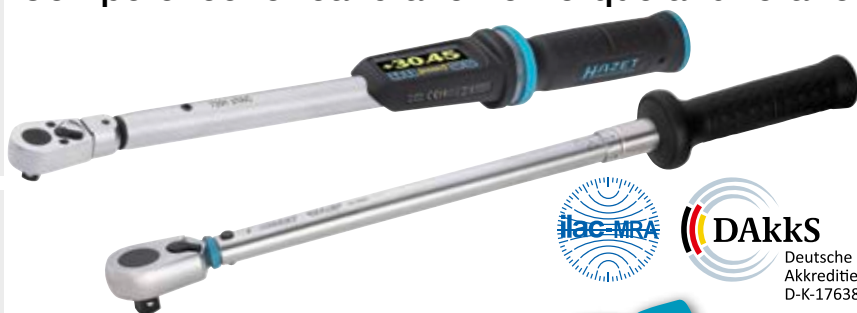
¹⁾ DAkkS: Deutsche Akkreditierungsstelle GmbH (national accreditation body of the Federal Republic of Germany, Berlin)

²⁾ PTB: Physikalisch Technische Bundesanstalt (PTB is the national metrology institute providing scientific and technical services)



DAkkS calibration laboratory

Competence for calibration of torque and rotation angles



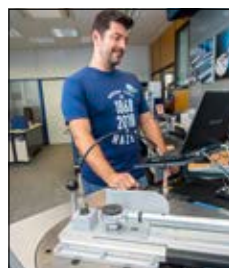
Deutsche
Akkreditierungsstelle
D-K-17638-01-00



Do you know?



- Accredited according to DIN EN ISO/IEC 17025 for measured values:
 - **Torque** (DIN EN ISO 6789-2:2017)
 - **Rotation angle** (VDI/VDE 2648 page 2; without item 4.2)
- Complies with special demands of ISO/TS 16949 for calibration laboratories (mandatory requirement for all suppliers of the automotive industry)
- HAZET-owned calibration laboratory guarantees optimal technical calibration competence by accreditation
- Authorised to issue calibration certificates



Wrenches with DAkkS calibration certificate

5107-3CTCAL	5145-3CTCAL	6108-1CTCAL	6145-1CTCAL	6292-1CTCAL	7294-2eTACCAL
5108-3CTCAL	5280-3CTCAL	6109-2CTCAL	6150-1CTCAL	6293-1CTCAL	7281-2sTACCAL
5110-3CTCAL	5290-3CTCAL	6110-1CTCAL	6160-1CTCAL	6294-1CTCAL	7290-2sTACCAL
5111-3CTCAL	5292-3CTCAL	6111-1CTCAL	6280-1CTCAL	6295-1CTCAL	7291-2sTACCAL
5120-3CTCAL	5121-2CLTCAL	6121-1CTCAL	6282-1CTCAL	7291-1eTACCAL	7292-2sTACCAL
5121-3CTCAL	5122-2CLTCAL	6122-1CTCAL	6281-2CTCAL	7292-1eTACCAL	7294-2sTACCAL
5122-3CTCAL	5123-2CLTCAL	6123-1CTCAL	6290-1CTCAL	7294-1eTACCAL	7295-2sTACCAL
5123-3CTCAL	6106-1CTCAL	6143-1CTCAL	6291-2CTCAL	7291-2eTACCAL	7250-2sTACCAL
5143-3CTCAL	6144-1CTCAL	6291-1CTCAL	7292-2eTACCAL		

- DAkkS calibration for existing wrenches now possible



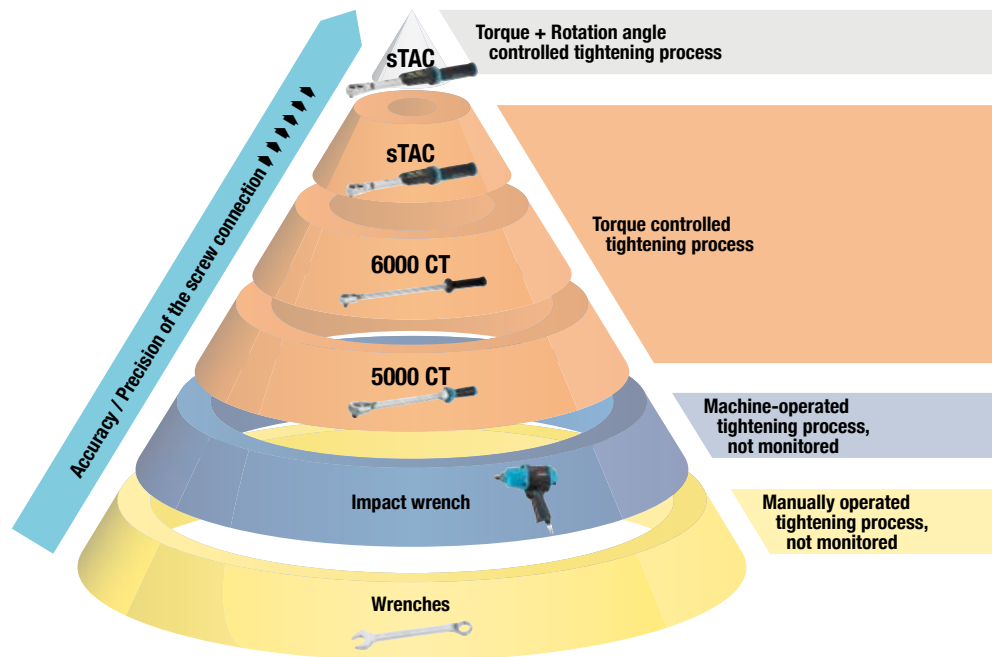
...with the highest safety for the professional user, especially for:

- Aviation industry
- Automobile industry
- New-energy, wind turbines, offshore wind farms
- Petrochemical industry (oil/gas)

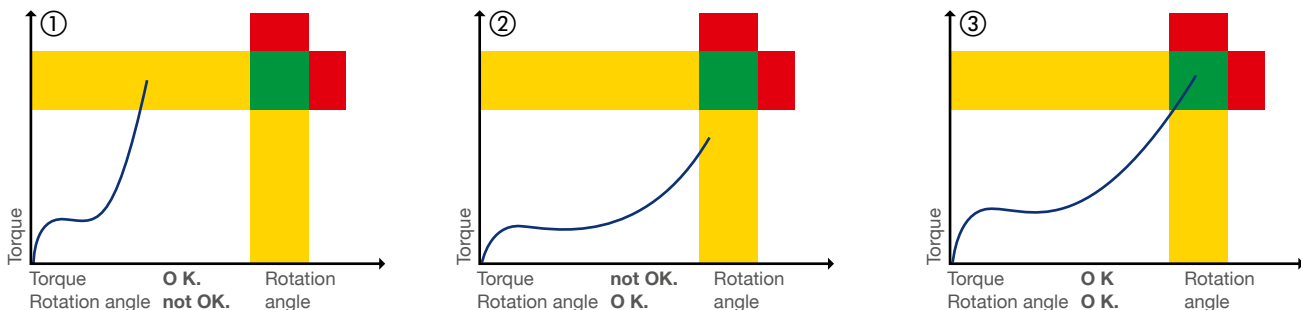
Documented traceability guarantees complete verifiability!



Increased screw connection quality through improvement in the screw tightening



The complete screw connection is only OK (Fig. ③) if the torque and rotation angle are both OK



Important: In particular for the joints using threaded fasteners of the category A (according to VDI guideline 2862), e.g. belt, airbag or rotor blades for wind energy plants!

Figure 1:
The torque is reached, but the rotation angle isn't. – Possible causes:

- Use of an incorrect screw that is too long.
- The component to be screwed is too thin, screw or nut is stuck in the end of the thread.
- The head and / or thread friction are too high because the surfaces are too rough and the screw has possibly „jammed“, for example. The coating of the screw is not correct because a screw with a different coating was used or the coating is incomplete. There is not sufficient lubrication or an incorrect lubricant has been used.
- Screw or thread is damaged.
- Thread is incorrectly cut and not deep enough.
- There are chips from the thread cutting in the blind hole.
- A washer or a seal has been forgotten and the screw is in place.

Figure 2:
The rotation angle is reached, but the torque isn't. – Possible causes:

- Use of an incorrect screw that is too short and the thread has been ripped out.
- Use of an incorrect screw with insufficient strength.
- The head and / or thread friction are too low because the screw coating is incorrect. • Use of an incorrect screw.
- Use of an incorrect lubricant.
- The screw or the thread is damaged or the thread has been ripped out.
- Installation of an incorrect seal that is too soft.



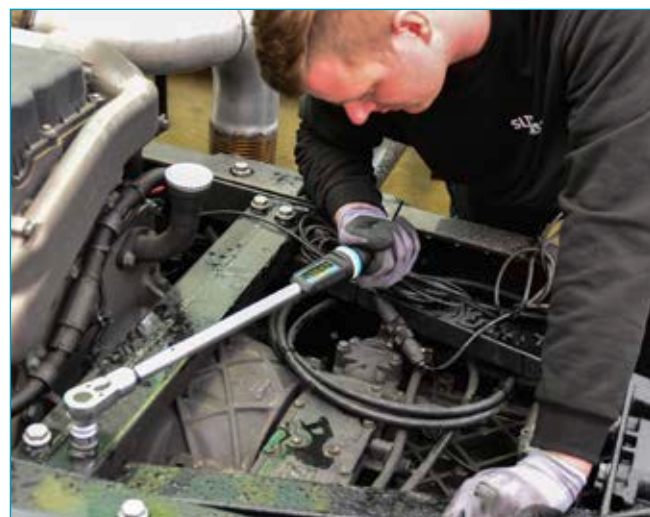
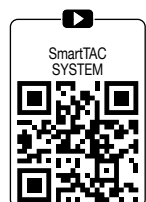
STAC

SYSTEM 7000 sTAC

Electronic torque wrench with built-in angle gauge for highly precise screwing applications with Smart technology – Ready for Industry 4.0



 Made in Germany





Torque

+ Rotation angle

= One work step!



4 times signaling for optimal screwing progress monitoring

Type of signal

2x Visual
synchronous numerical
display
+ 360° LED display



–



✓

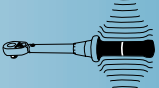
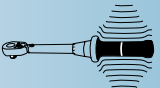
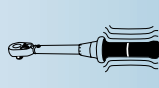


✗

+ Audible



+ Vibration

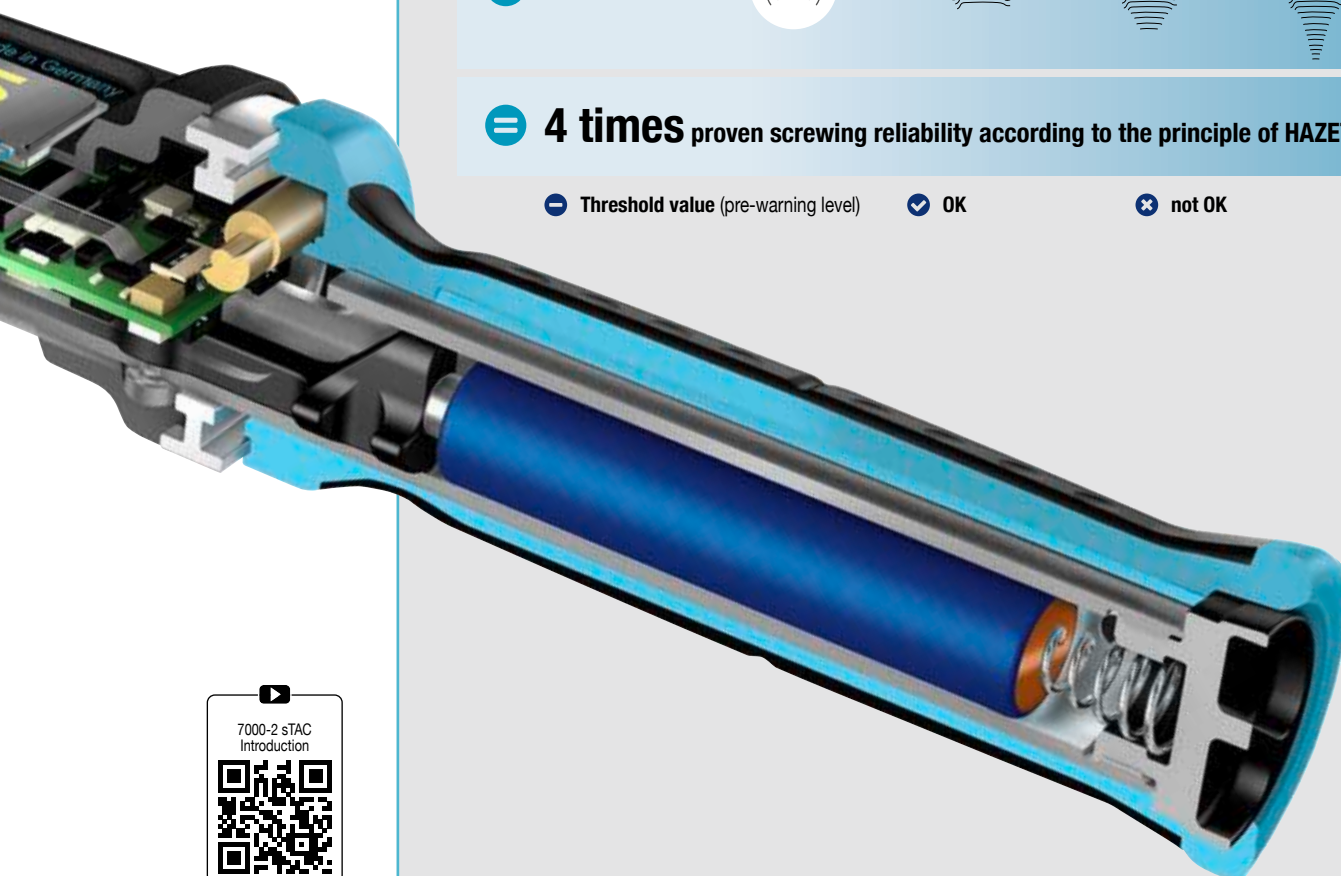


= 4 times proven screwing reliability according to the principle of HAZET!

– Threshold value (pre-warning level)

✓ OK

✗ not OK



7000-2 sTAC
Introduction





SmartTAC SYSTEM 7000 sTAC

Electronic torque wrench with built-in angle gauge for highly precise screwing applications with Smart technology – Ready for Industry 4.0

HAZET Smart Technology consisting of SmartTAC app and Bluetooth 4.1 Low Energy Interface (product group 7000-2 sTAC – may be subject to national admission restrictions). Easy live data exchange for displaying the bolting process on mobile devices, such as smartphones (Smartwatch) and tablet PCs. USB-C interface for programming torque wrenches with built-in angle gauge and documenting the screwing data via laptop and PC with SmartTAC tool 7910-sTAC.

All sTAC torque wrenches with built-in angle gauges can also be used autonomously, without SmartTAC app.

SmartTAC Apps available for:



DESKTOP PC



ANDROID



iOS





Strong features

- For high-precision screw connections with torque/ rotation angle calling for high accuracy or mandatory documentation, e.g. engine components especially cylinder head bolts, machine construction with increased requirements (including robot technology etc.)
- **Unique ergonomic, user-oriented HAZET design of entire tool for professional use**
- **Protection rating IP 40**, Splash-proof display and membrane keyboard
- Tested in accordance with DIN EN ISO 6789-2:2017
- **USB-C interface** for programming torque wrenches with built-in angle gauge and for documenting the screwing data via laptop and PC with SmartTAC tool 7910-sTAC
- Including standard **replaceable Li ion rechargeable battery**, type 14650 / 3.7 Volt, can be charged directly on the tool via USB-C connector
- Including 1 metre USB 3.1 / A-C cable



8 sizes for torque ranges of 1 – 1,000 Nm





Torque wrenches SYSTEM 6000 CT

High-precision premium torque tools – For the highest demands!

- **Torque ranges: 1 – 2000 Nm**
- Accuracy $\pm 2\%$ of the scale value (in direction of actuation) according to DIN EN ISO 6789-2:2017 (3%: 6150-1 CT · 6160-1 CT / 4%: 6106-1 CT · 6170-1 CT)
Accuracy $\pm 3\%$ of the scale value according to US standards: 6114-1 CT up to 6132-1 CT
- Tested, with calibration certificate and serial number
- Knob for additionally locking the set value
- Square according to DIN 3120, ISO 1174-1
- Reversible ratchets 6.3 1/4" 10 3/8" 12 1/2" 25 1"
- Ergonomically shaped
- Safety:
 - Haptic (close-gap release)
 - Audible („click“ sound)



Also available with DAkkS calibration certificate
...with the highest safety for the professional user, especially for:

- Aviation industry
- Automobile industry
- New-energies, wind turbines, offshore wind farms
- Petrochemical industry (oil/gas)

Documented traceability guarantees complete verifiability!



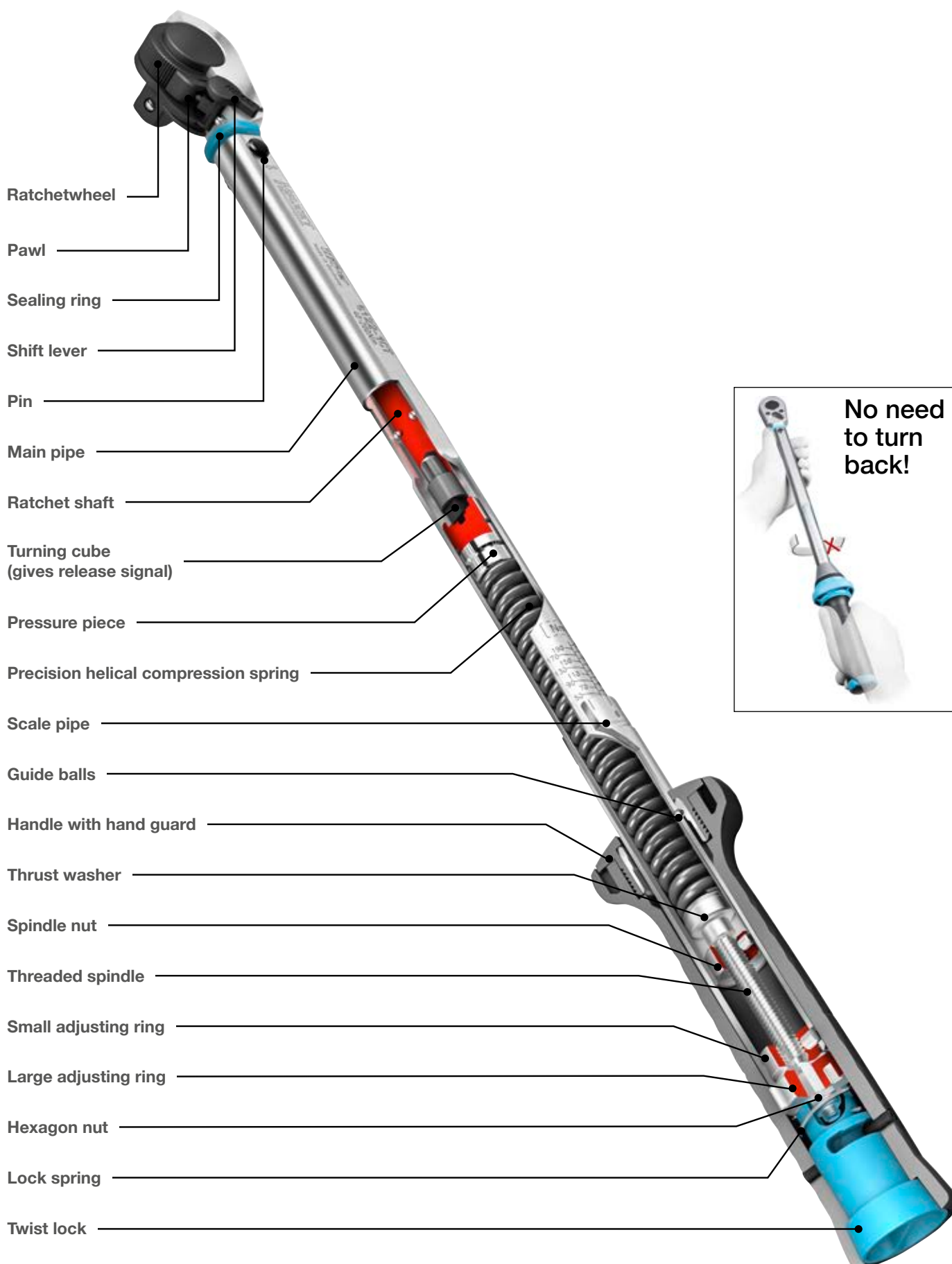
– Safe in safe box with display window! –

Made in Germany



Quality through and through

Cutaway view of a HAZET torque wrench 6000 CT





Torque wrenches SYSTEM 5000-3 CT

Our workshop classics – well equipped for the future.

The third generation 5000-3 CT series

- Expanded measuring range of the series through increased market requirements **1 – 800 Nm**
- Square drive of reversible ratchets: **6.3 1/4" 10 3/8" 12 1/2" 20 3/4"**
- **Accuracy ± 3%** of the scale value (in direction of actuation)
(5107-3 CT ± 4% release accuracy tolerance)
- Designed for rough workshop use
- Wider range of applications for controlled screw tightening in tyre service, bicycle, passenger car and commercial vehicle applications as well as various applications in trade and industry.
- Optimised sealing ring to protect optimally against debris
- Tested in accordance with DIN EN ISO 6789-2:2017
- Ratchet repair set for customer-oriented self-assembly enables decades of use
- Adjustment aid with detent points for optimised operator guidance ensures safe and fast adjustment of the desired torque value by turning the handle
- Can be attached to the cable loop through openings on the locking rotary assembly
- Integrated shift lever
- With calibration certificate and serial number
- Delivery in sturdy Hexa plastic box

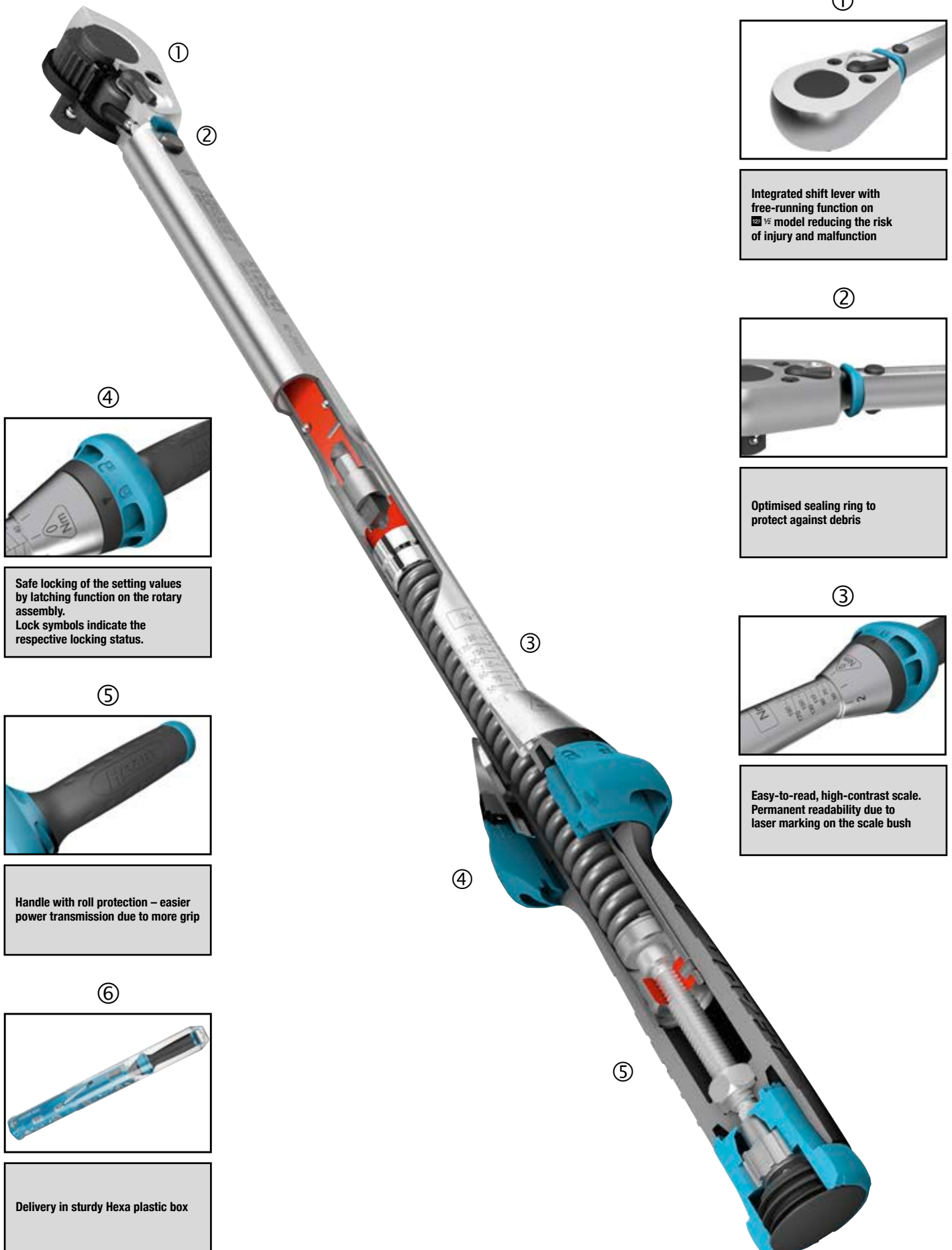




Torque technology



Always the right tool for the right „turn“ at the right „moment“!



①



Integrated shift lever with free-running function on $\frac{1}{2}$ model reducing the risk of injury and malfunction

②



Optimised sealing ring to protect against debris

③



Easy-to-read, high-contrast scale. Permanent readability due to laser marking on the scale bush

④



Safe locking of the setting values by latching function on the rotary assembly. Lock symbols indicate the respective locking status.

⑤



Handle with roll protection – easier power transmission due to more grip

⑥



Delivery in sturdy Hexa plastic box



Insert torque wrenches

Universal in scope – with the best intentions

The use of over 100 insert tools allows any challenge to be mastered!

SYSTEM 5200-3 CT

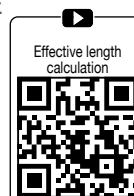
- Torque ranges: 2.5–200 Nm
- **Accuracy $\pm 3\%$ of the scale value**
- Tested in accordance with DIN EN ISO 6789-2:2017
- With calibration certificate and serial number
- Handle of the 5000-3 CT series
 - Detent point for rapid adjustment of the torque value
 - Can be attached to the cable loop
- Insert square 9×12 or 14×18 to hold insert tools

SYSTEM 6200-1 CT

- Torque ranges: 2–500 Nm
- **Accuracy $\pm 2\%$ of the scale value**
- Tested in accordance with DIN EN ISO 6789-2:2017
- With calibration certificate and serial number
- All advantages of the 6000 CT series
- Insert square 9×12 or 14×18 to hold insert tools

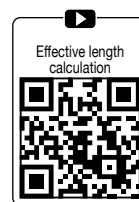
SYSTEM 6300

- With permanently adjustable value – especially suitable for **application in industrial series production**
- Without setting scale and signal transmitter
- **Repeat accuracy after 5,000 tightening operations $\pm 2\%$ (6391-10 $\pm 6\%$)**
- Automatic close-gap release – reaching the set value is signaled palpably and audibly
- Adjusting the desired torque value with adjustment wrench 6399 together with torque tester – e.g. HAZET 7901 E, 7902 E or 7903 E. Unauthorised adjustment is thereby prevented
- Torque ranges: 1–320 Nm
- Tested in accordance with DIN EN ISO 6789-2:2017
- With calibration certificate and serial number
- Insert square 9×12 or 14×18 to hold insert tools





Insert tools



Data for effective length of torque wrenches with (different) insert tools

MDE = Torque to be selected

MDV = Prescribed torque

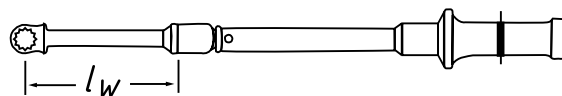
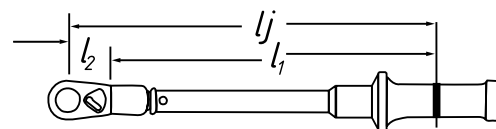
l_j = Standard length adjustment with adjusting tool

l_1 = Effective torque wrench length

l_2 = Gauge dimension of adjusting tool

l_w = Gauge dimension of extended insert tool holder

$$MDE = \frac{(l_1 + l_2) \times MDV}{l_1 + l_w}$$



Formula: Torque correction factor for change in effective length

HAZET torque wrenches are adjusted/calibrated with the „ l_2 insert dimensions“. If other insert tools are used, then the formula must be observed.

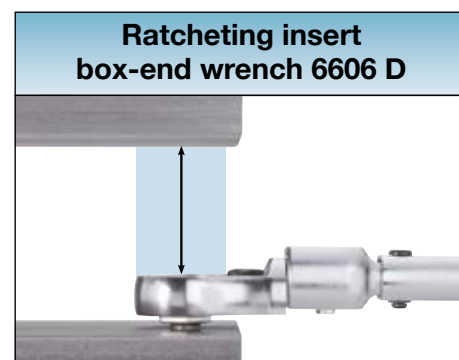
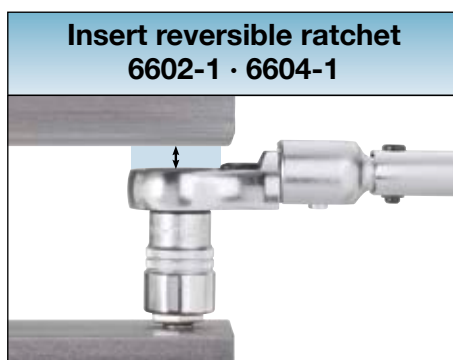
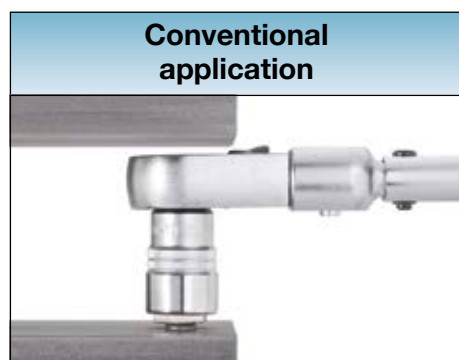
Dimensions of the various HAZET torque wrenches:

HAZET No.	l_1 mm	Adjusted with HAZET No.	l_2 mm
5280-3 CT	172	6401-1(S)	19,5
5290-3 CT	245	6402-1(S)	30
5292-3 CT	422	6404-1(S)	38,5
6280-1 CT	140	6401-1 (S)	19,5
6281-2 CT	99	6401 N	17,5
6282-1 CT	200	6401-1 (S)	19,5

HAZET No.	l_1 mm	Adjusted with HAZET No.	l_2 mm
6290-1 CT	245	6402-1 (S)	30
6291-1 CT	330	6404-1 (S)	38,5
6291-2 CT	312	6402-1 (S)	30
6292-1 CT	432	6404-1 (S)	38,5
6293-1 CT	547	6404-1 (S)	38,5
6294-1 CT	649.2	6406	44
6295-1 CT	893.2	6406	44

HAZET No.	l_1 mm
6391-10 (V)	102
6391-12 (V)	102
6391-25 (V)	143
6391-35 (V)	143

HAZET No.	l_1 mm
6391- 50 (V)	201
6391- 85 (V)	276
6392-200 (V)	359
6392-320 (V)	589



Torque screwdriver

Fine feeling – for the smallest of torque values

- Application with standard $\frac{6.3}{16}$ bits (e.g. HAZET 2204 to 2225) as well as by using the 2304 adapter with $\frac{6.3}{16}$ sockets
- Torque ranges: 0.1 – 6 Nm
- Accuracy (of the scale value) $\pm 5\%$ (6002 CT and 6003 CT) or $\pm 6-15\%$ for 6001 series





Torque wrenches SYSTEM 5000 CLT, Click-Lens-Type

The „Classic Workshop Tool“, easy to read

- **Torque ranges: 20 – 320 Nm**
- Click-Lens-Type (CLT) with value readout in the display guarantees security for the user
- Release accuracy tolerance (in direction of actuation)
± 4% of the scale value according to DIN EN ISO 6789-2:2017
- Torque release
 - palpable – by automatic close-gap release
 - audible – by „click“ sound

With serial number
and calibration certificate



①

User-friendly
reversible ratchet
Service friendly
(do-it-yourself repair sets for
ratchets available)
No risk of losing the square
like there is with the wrench

②

Integrated shift lever with
free-running function on 12 1/2
model reducing the risk of
injury and malfunction

④

Ergonomically shaped handle with
collar reducing the risk of
slipping-off and injury
Safe and fast adjustment of the
desired torque value by turning the
handle

⑤

Safe locking
at the handle



12 1/2

No need
to turn
back!

Hard chrome-plated
steel tube – slim, but very
sturdy and wear-resistant

⑥



Click-Lens-Type (CLT)

- Safe and exact adjustment
of the desired release torque.
Optimal and easy reading
of the torque value
- Three large digits for
an easy-to-read torque setting
- Large convex display (replaceable)
prevents reading errors

Awarded with the



– Safe in safe box with display window! –

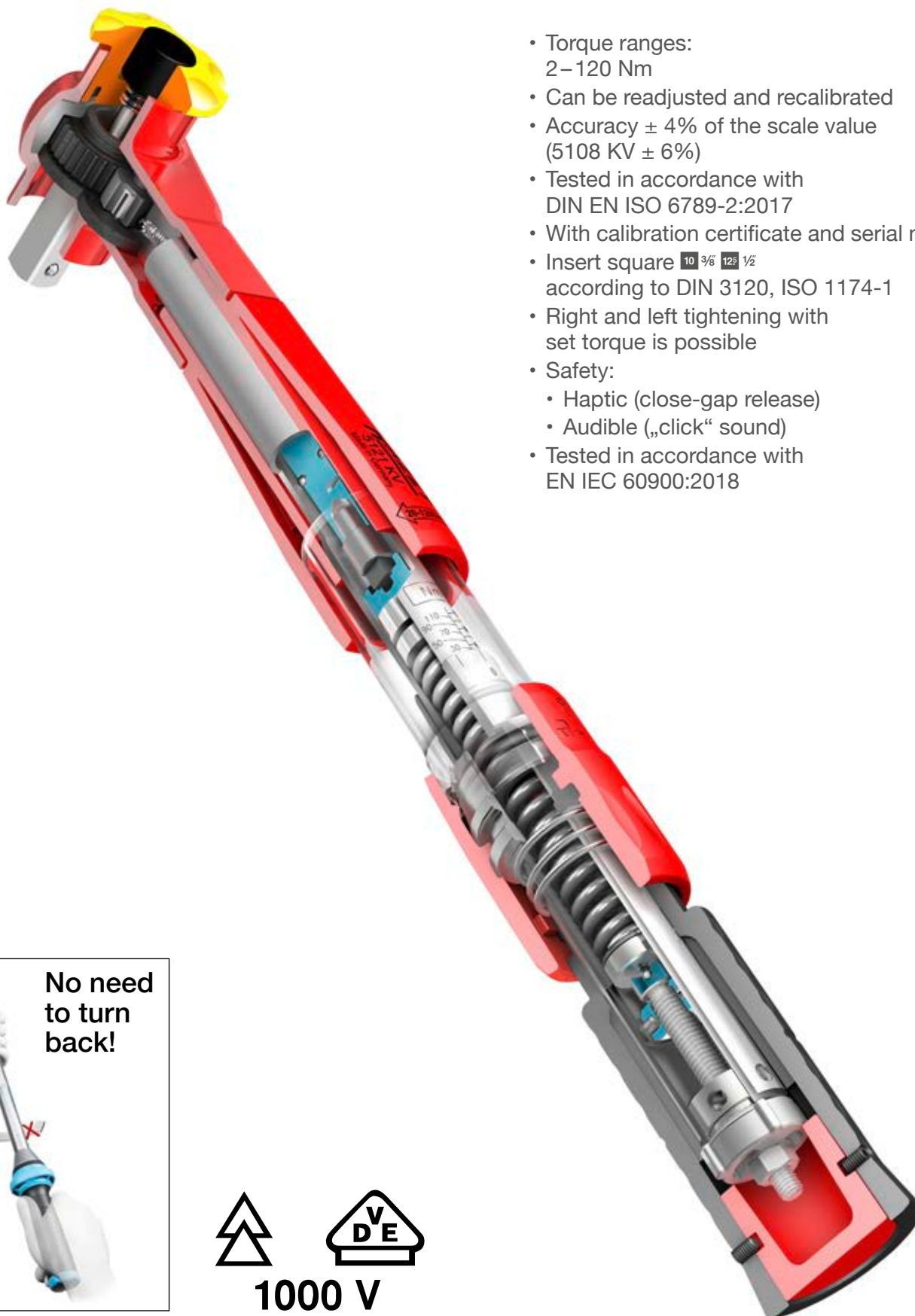


Made in Germany



Torque wrench SYSTEM 5000 KV

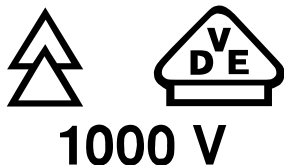
With protective insulation – for safe application up to 1000 volts



- Torque ranges:
2 – 120 Nm
- Can be readjusted and recalibrated
- Accuracy $\pm 4\%$ of the scale value
(5108 KV $\pm 6\%$)
- Tested in accordance with
DIN EN ISO 6789-2:2017
- With calibration certificate and serial number
- Insert square $10 \frac{3}{8}$ $12 \frac{1}{2}$
according to DIN 3120, ISO 1174-1
- Right and left tightening with
set torque is possible
- Safety:
 - Haptic (close-gap release)
 - Audible („click“ sound)
- Tested in accordance with
EN IEC 60900:2018



No need
to turn
back!





Conversion

Conversion factors of torque values

Conversion formula:

Given unit x factor = Desired unit

Example:

Conversion from: 20 lbf.ft to Nm

$20 \times 1.356 = 27.12 \text{ Nm}$

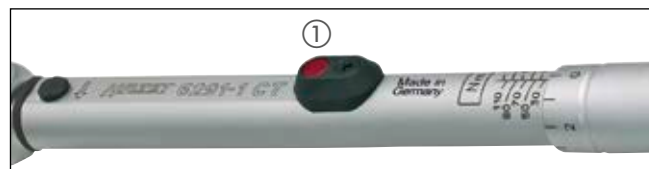
Given unit	Desired unit						
	mNm	cNm	Nm	kpm	ozf.in	lbf.in	lbf.ft
1 mNm	1	0.1	0.001	0.0001	0.142	0.009	0.0007
1 cNm	10	1	0.01	0.001	1.416	0.088	0.007
1 Nm	1000	100	1	0.102	141.6	8.851	0.738
1 kpm	9807	980.7	9.807	1	1389	86.8	7.233
1 ozf.in	7.062	0.706	0.007	0.0007	1	0.0625	0.005
1 lbf.in	113	11.3	0.113	0.0115	16	1	0.083
1 lbf.ft	1356	135.6	1.356	0.138	192	12	1

Design and Function

- In action, a HAZET torque wrench signals when it has attained the set torque
 - audibly by clicking,
 - palpably by automatic close-gap release
 - visibly by the red signal transmitter jutting out ① (depending on model)
- Then the working procedure must be stopped immediately!
- The greater the set torque, the stronger the audible and palpable signals.

Pipes hardened and hard chrome-plated

- Optimised: weight / wall thickness
- Robust and protected surface



Coding rings application example:

(6132-1 CT – 6170-1 CT and 6294-1 CT – 6295-1 CT)

- **Fast detection of individually set Nm ranges**, e.g. green = always 250 Nm
- **Recognition of particular departments, work areas or people** e.g. red = maintenance/repair department
- **Fast identification the various torque wrenches** e.g. Yellow = HAZET 6160-1CT (2 pieces); Red = HAZET 6170-1CT (3 pieces)
- **Clear allocation of defined workflows**, e.g. tools marked with red = workflow 1, tools marked with green = workflow 2



3 coloured coding rings for personalisation or identifying workflows



Torque technology



Functionality of torque wrench handles

(6132-1 CT – 6170-1 CT and 6294-1 CT – 6295-1 CT)

- Unlocking
- Slide the handle forward approximately 8 mm and gently turn it in the desired direction
- After engaging the handle, continue turning it to the desired torque (without pressing)
- Turn the handle back a little bit
- Locking



Twist lock

● = Ready to be set / NOT usable
(Setting not complete)



Twist lock

● = Ready for work / usable

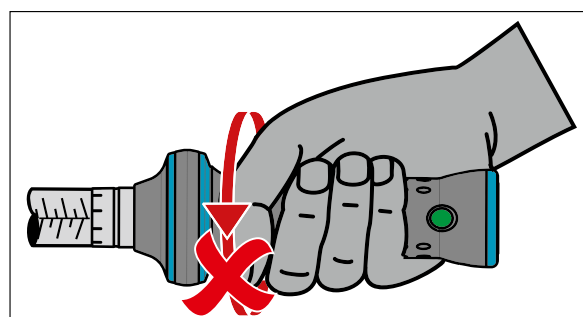


ATTENTION: Twist lock = RED – do not use, unintended torque variation is possible!

Product group	Unlocking	Setting	Locking
5000 VDE	Retracting the locking sleeve	Turn handle until the desired value is reached on the scale	Releasing the locking sleeve
5000-3 CT	Turn rotary assembly to the left	Turn handle until the desired value is reached on the scale	Turn rotary assembly to the right
5000 CLT	Turn lock to the right	Push handle forwards and turn until the desired value is reached in the viewing window	Turn lock to the left
6106-1 CT – 6109-2 CT	Retracting the locking sleeve	Turn handle until the desired value is reached on the scale	Releasing the locking sleeve
6110-1 CT – 6170-1 CT	Turn lock to the right	Push handle forwards and turn until the desired value is reached on the scale	Turn lock to the left
6280-1 CT – 6281-2 CT	Retracting the locking sleeve	Turn handle until the desired value is reached on the scale	Releasing the locking sleeve
6290-1 CT – 6295-1 CT	Turn lock to the right	Push handle forwards and turn until the desired value is reached on the scale	Turn lock to the left

No need to turn back

Continuous long-term tests on the 5000 series and 6000 series of HAZET torque wrenches have demonstrated that turning them back to the smallest scale value is not required





Tightening torque for screws according to strength classes for coarse thread

Thread size	Wrench size	Insert tools				Pre-loading force (kN)						Tightening torque (Nm)					
						Strength class						Strength class					
						4.6	5.6	6.8	8.8	10.9	12.9	4.6	5.6	6.8	8.8	10.9	12.9
M 2x0,40	4	-	-	-	-	0,338	0,422	0,675	0,901	1,267	1,52	0,13	0,163	0,261	0,348	0,489	0,587
M 3x0,50	5,5	-	-	-	-	0,845	1,056	1,689	2,253	3,168	3,801	0,48	0,6	0,961	1,281	1,801	2,161
M 4x0,70	7	9x12	-	-	-	1,463	1,829	2,927	3,902	5,487	6,585	1,115	1,393	2,229	2,972	4,18	5,016
M 5x0,80	8	9x12	-	-	-	2,395	2,994	4,79	6,387	8,982	10,778	2,261	2,827	4,523	6,03	8,48	10,176
M 6x1,00	10	9x12	-	-	-	3,379	4,224	6,758	9,011	12,671	15,205	3,843	4,803	7,685	10,247	14,41	17,292
M 8x1,25	13	9x12	14x18	-	-	6,202	7,753	12,404	16,539	23,258	27,909	9,349	11,686	18,698	24,931	35,059	42,07
M 10x1,50	17	9x12	14x18	-	-	9,876	12,345	19,752	26,336	37,034	44,441	18,54	23,18	37,09	49,45	69,54	83,44
M 12x1,75	19	9x12	14x18	-	-	14,4	18	28,801	38,401	54,001	64,801	32,37	40,46	64,74	86,32	121,38	145,66
M 14x2,00	22	-	14x18	-	-	19,775	24,719	39,551	52,734	74,158	88,989	51,77	64,71	103,54	138,06	194,14	232,97
M 16x2,00	24	-	14x18	-	-	27,221	34,027	54,443	72,591	102,08	122,497	80,62	100,77	161,24	214,98	302,32	362,78
M 18x2,50	27	-	14x18	-	-	33,078	41,347	66,155	88,207	124,041	148,85	111,09	138,86	222,17	296,23	416,58	499,89
M 20x2,50	30	-	14x18	-	-	42,534	53,167	85,067	113,423	159,501	191,401	157,46	196,82	314,91	419,88	590,46	708,55
M 22x2,50	32	-	14x18	21/26	-	53,175	66,469	106,35	141,8	199,406	239,288	215,1	268,9	430,2	573,7	806,7	968
M 24x3,00	36	-	14x18	21/26	-	61,248	76,56	122,497	163,329	229,681	275,617	272,1	340,1	544,2	725,6	1020,3	1224,4
M 27x3,00	41	-	14x18	21/26	-	80,67	100,837	161,339	215,119	302,512	363,014	399,9	499,9	799,9	1066,5	1499,7	1799,7
M 30x3,50	46	-	-	21/26	-	98,027	122,533	196,054	261,405	367,6	441,12	541,7	677,2	1083,4	1444,6	2031,5	2437,7
M 33x3,50	50	-	-	-	-	122,241	152,801	244,482	325,976	458,404	550,084	738,5	923,2	1477,1	1969,4	2769,5	3323,4
M 36x4,00	55	-	-	-	-	143,413	179,266	286,826	382,434	537,798	645,358	948	1185	1896	2528	3555	4265,9
M 39x4,00	60	-	-	-	-	172,42	215,525	344,839	459,786	646,574	775,888	1229	1536	2457	3276	4607	5529
M 42x4,50	65	-	-	-	-	197,407	246,758	394,813	526,417	740,275	888,329	1519	1899	3038	4050	5696	6835
M 45x4,50	70	-	-	-	-	231,206	289,007	462,412	616,549	867,022	1040,426	1898	2373	3796	5062	7118	8541
M 48x5,00	75	-	-	-	-	280,008	325,01	520,015	693,354	975,029	1170,035	2282	2853	4565	6086	8559	10271
M 52x5,00	80	-	-	-	-	312,056	390,07	624,112	832,149	1170,209	1404,251	2954	3692	5907	7876	11076	13292
M 56x5,50	85	-	-	-	-	359,843	449,804	719,689	959,581	1349,411	1619,293	3672	4591	7345	9793	13772	16526
M 60x5,50	90	-	-	-	-	420,651	525,813	841,301	1121,735	1577,44	1892,928	4582	5728	9164	12219	17183	20619
M 64x6,00	95	-	-	-	-	475,86	594,825	951,72	1268,96	1784,476	2141,371	5536	6920	11071	14762	20759	24911
M 68x6,00	100	-	-	-	-	545,427	681,784	1090,855	1454,473	2045,353	2454,423	6720	8400	13440	17919	25199	30239

Tightening torque for screws according to strength classes for fine pitch thread

Thread size	Wrench size	Insert tools				Pre-loading force (kN)						Tightening torque (Nm)					
						Strength class						Strength class					
						4.6	5.6	6.8	8.8	10.9	12.9	4.6	5.6	6.8	8.8	10.9	12.9
M 8x1,00	13	9x12	14x18	-	-	6,805	8,507	13,611	18,148	25,52	30,624	10,08	12,6	20,15	26,87	37,79	45,35
M 10x1,25	17	9x12	14x18	-	-	11,418	14,272	22,835	30,447	42,816	51,379	20,83	26,04	41,66	55,55	78,11	93,73
M 12x1,50	19	9x12	14x18	-	-	15,312	19,14	30,624	40,832	57,42	68,904	34,01	42,51	68,02	90,69	127,54	153,05
M 14x1,50	22	-	14x18	-	-	21,934	27,418	43,868	58,491	82,253	98,703	56,25	70,32	112,51	150,01	210,96	253,15
M 16x1,50	24	-	14x18	-	-	29,741	37,177	59,483	79,31	111,53	133,836	86,5	108,12	172,99	230,66	324,36	389,23
M 18x1,50	27	-	14x18	-	-	38,733	48,417	77,467	103,289	145,25	174,3	125,95	157,44	251,91	335,88	472,33	566,8
M 20x1,50	30	-	14x18	-	-	48,91	61,138	97,82	130,427	183,413	220,096	175,9	219,8	351,7	468,9	659,4	791,3
M 22x1,50	32	-	14x18	21/26	-	60,272	75,34	120,543	160,724	226,019	271,223	237,4	296,8	474,8	633,1	890,3	890,3
M 24x2,00	36	-	14x18	21/26	-	72,818	91,022	145,635	194,18	273,066	327,68	311,8	389,8	623,7	831,6	1169,4	1403,3

The specified tightening torques are guide values
All information subject to change



Adjustment / calibration

- A HAZET torque wrench should be checked and readjusted regularly. This is recommended after approx. 5,000 screw operations (but no later than after twelve months).
- The time gap between test dates is dependent on the frequency of use. A HAZET torque tester is suitable for this.
- If a suitable torque tester with click point detection is not available, we will accept the HAZET torque wrench via your HAZET specialist dealer for inspection and adjustment at the facility.
- After testing and possible adjustment, the torque wrenches and torque testers sent to HAZET are given back to you with a test certificate.



HAZET SERVICE for torque wrenches

All HAZET torque tools are serviceable! Along with repairs, we offer factory tests through to calibration in our own DAkkS calibration laboratory for torque wrenches in the HAZET Service Center. Your local HAZET partner will be happy to advise you on all the services provided by the HAZET Service Center as well as local on-site services.



SYSTEM 5000 CT

Torque wrench, with protective insulation

See chapter Tools with protective insulation / Tools for electricians page 284



5000-3 CT Torque wrench SYSTEM 5000-3 CT (with reversible ratchet) · ±3% accuracy · 5107-3 CT 4% · 1–800 Nm

Made in Germany

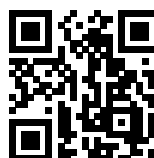
• User-friendly reversible ratchet

- **Accuracy ± 3% of the scale value** (in direction of actuation for right-hand tightening) (5107-3 CT ± 4% accuracy of scale value)
- For left-hand tightening, use our torque wrenches with insert tool
- Safety:
 - Haptic (close-gap release)
 - Audible ("click" sound)
- Designed for rough workshop use
- Wide range of applications for controlled screw tightening in tyre service, bicycle, passenger car and commercial vehicle applications as well as various applications in trade and industry
- Optimised sealing ring to protect against debris
- Ratchet repair set for customer-oriented self-assembly enables decades of use
- Handle with better grip for easier power transmission
- Adjustment aid with detent points for optimised operator guidance ensures safe and fast adjustment of the desired torque value by turning the handle
- Safe locking of the setting values by latching function on the rotary assembly
- Rotary assembly in triangular form prevents uncontrolled rolling
- Lock symbols indicate the respective locking status
- Can be attached to the cable loop through openings on the locking rotary assembly
- Easy-to-read, high-contrast scale
- Permanent readability due to laser marking on the scale bush
- Integrated shift lever
5121-3 CT – 5123-3 CT: shift level with idle function – reduces risk of injury and malfunction
- With calibration certificate and serial number
- Delivery in sturdy Hexa plastic box
- DIN EN ISO 6789-2:2017, DIN 3120, ISO 1174-1

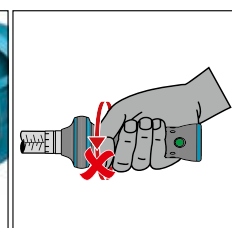
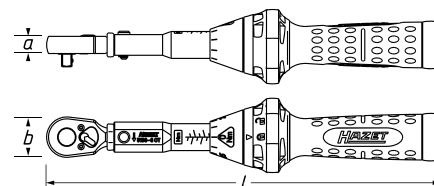
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YouTube clip
Long version



YouTube clip
Short version





Torque technology

SYSTEM 5000 CT



5000-3 CT Torque wrench SYSTEM 5000-3 CT (with reversible ratchet) ·
±3% accuracy · 5107-3 CT 4% · 1–800 Nm

Ⓔ

HAZET No.	Output	l mm	a mm	b mm	Release accuracy tolerance %	Nm	 Nm		EAN-No. 4000896+
• Perfect for working on motorcycles, bicycles and tyre pressure control systems									
5107-3 CT	■ 6.3 = ¼"	234	10.2	24	4	1–9	0.1	0.6–5.5	218875
• Perfect for working on motorcycles and bicycles									
5108-3 CT	■ 6.3 = ¼"	234	10.2	24	3	2.5–25	0.25	1.4–15.3	218882
5110-3 CT	■ 10 = ⅜"	320	14.5	32	3	10–60	0.5	3.9–25.0	218899
• Extra short design – particularly compact									
• Specifically also for commercial vehicles									
5120-3 CT	■ 12.5 = ½"	320	14.5	32	3	10–60	0.5	3.9–25.0	218905
• Slim ratchet head – ideally suited to use on motorcycles									
5111-3 CT	■ 10 = ⅜"	375	14.5	32	3	20–120	1	6.9–43.5	235384
5121-3 CT	■ 12.5 = ½"	421	19.6	44	3	20–120	1	6.1–38.0	218912
5122-3 CT	■ 12.5 = ½"	519	19.6	44	3	40–200	1	9.4–49.5	219001
5123-3 CT	■ 12.5 = ½"	628	19.6	44	3	60–320	2	11.3–62.2	218998
• For applications with high torques									
– Axle central screws in FIAT Ducato · MERCEDES-BENZ Sprinter									
– Wheel bearings in e.g. OPEL/VAUXHALL Movano · PEUGEOT Boxer									
– Bearing blocks in agricultural machinery and gearbox mounts in commercial vehicles									
• Thanks to the possibility of using 12.5 mm (½") sockets/extensions, torque-controlled screw connections of 100 to 400 Nm can now also be operated in all manual and industrial production areas, e.g. with threads of M12 to M16 (property class 12.9) or M16 to M24 (property class 5.6) with restricted access, e.g. for flange or machine screw connections									
5143-3 CT	■ 12.5 = ½"	790	28.5	64	3	100–400	2.5	14.8–60.3	235407
5145-3 CT	■ 20 = ¾"	1271	28.5	64	3	300–800	2.5	26.2–71.0	218929
• Torque wrench including DAKkS calibration certificate									
5107-3 CT CAL	■ 6.3 = ¼"	234	10.2	24	4	1–9	0.1	0.6–5.5	243105
5108-3 CT CAL	■ 6.3 = ¼"	234	10.2	24	3	2.5–25	0.25	1.4–15.3	243129
5110-3 CT CAL	■ 10 = ⅜"	320	14.5	32	3	10–60	0.25	3.9–25.0	243136
5111-3 CT CAL	■ 10 = ⅜"	375	14.5	32	3	20–120	1	6.9–43.5	243143
5120-3 CT CAL	■ 12.5 = ½"	320	14.5	32	3	10–60	0.5	3.9–25.0	243150
5121-3 CT CAL	■ 12.5 = ½"	421	19.6	44	3	20–120	1	6.1–38.0	243167
5122-3 CT CAL	■ 12.5 = ½"	519	19.6	44	3	40–200	1	9.4–49.5	243174
5123-3 CT CAL	■ 12.5 = ½"	628	19.6	44	3	60–320	2	11.3–62.2	243181
5143-3 CT CAL	■ 12.5 = ½"	790	28.5	64	3	100–400	2.5	14.8–60.3	243198
5145-3 CT CAL	■ 20 = ¾"	1271	28.5	64	3	300–800	2.5	26.2–71.0	243204



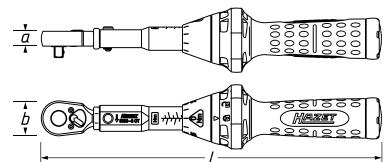
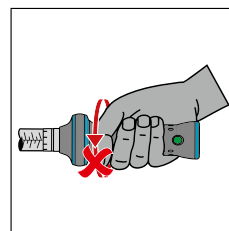


5000 B-3 CT Torque wrench · SYSTEM 5000 B-3 CT (with reversible ratchet for bits) · $\pm 3 / 4\%$ accuracy · 1–25 Nm

Made in Germany

• User-friendly reversible ratchet for bits

- Accuracy $\pm 3\%$ (5108B-3CT) or 4% (5107B-3CT) of the scale value (in direction of actuation for right-hand tightening)
- Safety:
 - Haptic (close-gap release)
 - Audible ("click" sound)
- Designed for rough workshop use
- Wide range of applications for controlled screw tightening for bicycle, passenger car and commercial vehicle applications as well as various applications in trade and industry
- Optimised sealing ring to protect against debris
- Handle with better grip for easier power transmission
- Adjustment aid with detent points for optimised operator guidance ensures safe and fast adjustment of the desired torque value by turning the handle
- Safe locking of the setting values by latching function on the rotary assembly
- Rotary assembly in triangular form prevents uncontrolled rolling
- Lock symbols indicate the respective locking status
- Can be attached to the cable loop through openings on the locking rotary assembly
- Easy-to-read, high-contrast scale
- Permanent readability due to laser marking on the scale bush
- Integrated shift lever
- With calibration certificate and serial number
- Delivery in sturdy Hexa plastic box
- For e.g. maintenance and service work on the burner flange or the electrodes on compact modules for condensing and combi gas boilers
- For aluminium and carbon parts · plastic attached parts · motorcycle fairing · scooters · bicycles
- DIN EN ISO 6789-2:2017



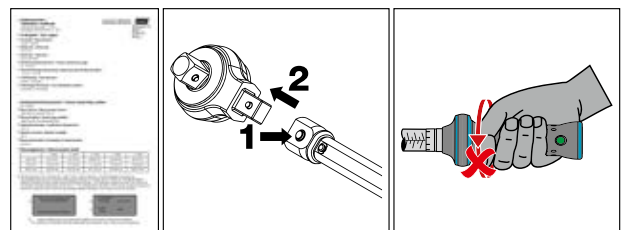
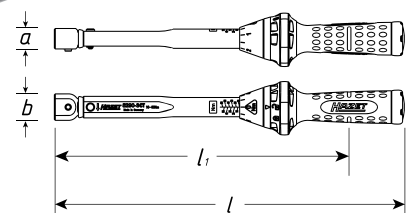
HAZET No.	Output	l mm	a mm	b mm	Release accuracy tolerance %	Nm	$\frac{1}{2}$ Nm		EAN-No. 4000896+
5107 B-3 CT	$\bigcirc 6.3 = \frac{1}{4}"$	234	10.2	24	4	1–9	0.1	0.6–5.5	244584
5108 B-3 CT	$\bigcirc 6.3 = \frac{1}{4}"$	234	10.2	24	3	2.5–25	0.25	1.4–15.3	244591

5200-3 CT Torque wrench · SYSTEM 5200-3 CT (with insert square) · $\pm 3\%$ accuracy · 10–200 Nm

Made in Germany

• Plug-and-socket connection to hold insert tools

- Accuracy $\pm 3\%$ of the scale value (in direction of actuation)
- Can be used for right-hand and left-hand threads by turning the insert tool
- Safety:
 - Haptic (close-gap release)
 - Audible ("click" sound)
- Designed for rough workshop use
- Wide range of applications for controlled screw tightening in tyre service, bicycle, passenger car and commercial vehicle applications as well as various applications in trade and industry
- Optimised sealing ring to protect against debris
- Handle with better grip for easier power transmission
- Adjustment aid with detent points for optimised operator guidance ensures safe and fast adjustment of the desired torque value by turning the handle
- Safe locking of the setting values by latching function on the rotary assembly
- Rotary assembly in triangular form prevents uncontrolled rolling
- Lock symbols indicate the respective locking status
- Can be attached to the cable loop through openings on the locking rotary assembly
- Easy-to-read, high-contrast scale
- Permanent readability due to laser marking on the scale bush
- With calibration certificate and serial number
- Delivery in sturdy Hexa plastic box
- DIN EN ISO 6789-2:2017



HAZET No.	Output	l mm	l_1 mm	l_2 mm	a mm	b mm	Release accuracy tolerance %	Nm	$\frac{1}{2}$ Nm		EAN-No. 4000896+
5280-3 CT	$\square 9 \times 12$	218	172	19.5	17	22	3	2.5–25	0.25	1.3–14.3	239290
5290-3 CT	$\square 9 \times 12$	291	245	30	17	22	3	10–60	0.5	3.7–23.4	228904
5292-3 CT	$\square 14 \times 18$	484	422	38.5	23	30	3	40–200	1	8.9–46.6	228911
• Torque wrench including DAKKS calibration certificate											
5280-3 CT CAL	$\square 9 \times 12$	218	172	19.5	17	22	3	2.5–25	0.25	1.3–14.3	243211
5290-3 CT CAL	$\square 9 \times 12$	291	245	30	17	22	3	10–60	0.5	3.7–23.4	243228
5292-3 CT CAL	$\square 14 \times 18$	484	422	38.5	23	30	3	40–200	1	8.9–46.6	243235



Torque technology

SYSTEM 5000 CLT



SYSTEM 5000 CLT

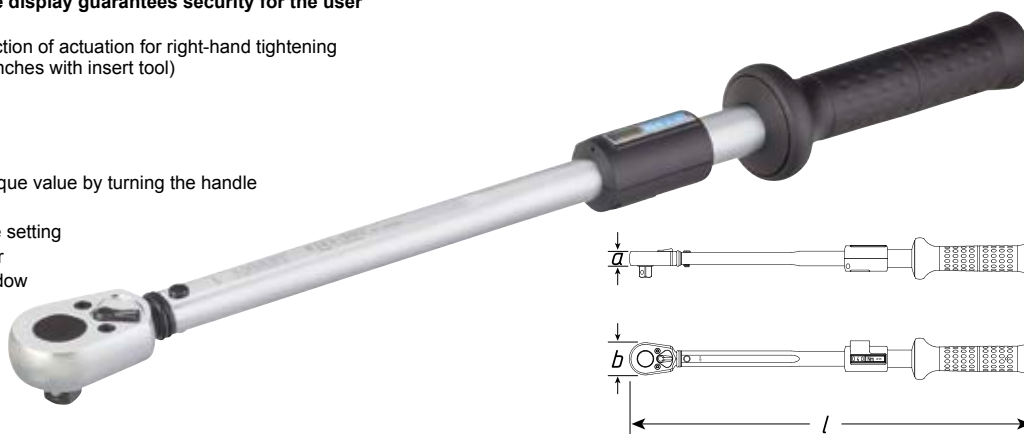
5000 CLT Torque wrench · SYSTEM 5000 CLT · ± 4% accuracy · 20–320 Nm

🇩🇪 **Made in Germany**

• Click-Lens-Type with value readout in the display guarantees security for the user

Ⓔ 12⁵ 1/2"

- **Accuracy ± 4% of the scale value** (in direction of actuation for right-hand tightening
For left-hand tightening, use our torque wrenches with insert tool)
- Safety:
 - Haptic (close-gap release)
 - Audible ("click" sound)
- Reversible ratchet
- Easy and safe adjustment of the desired torque value by turning the handle
- Knob for additionally locking the set value
- Three large digits for an easy-to-read torque setting
- With calibration certificate and serial number
- Secure storage in safe box with display window
- Surface: hard chrome plated
- DIN EN ISO 6789-2:2017, DIN 3120, ISO 1174-1



HAZET No.	Output	l mm	a mm	b mm	Release accuracy tolerance %	Nm	Nm	Nm	EAN-No. 4000896+
5121-2 CLT	■ 12.5 = 1/2"	435	19.6	44	4	20–120	1	5.9–37.0	104215
5122-2 CLT	■ 12.5 = 1/2"	545	19.6	44	4	40–200	1	9.0–47.4	104192
5123-2 CLT	■ 12.5 = 1/2"	660	19.6	44	4	60–320	2	10.8–59.4	104222
• Torque wrench including DAkkS calibration certificate									
5121-2 CLT CAL	■ 12.5 = 1/2"	435	19.6	44	4	20–120	1	5.9–37.0	243242
5122-2 CLT CAL	■ 12.5 = 1/2"	545	19.6	44	4	40–200	1	9.0–47.4	243259
5123-2 CLT CAL	■ 12.5 = 1/2"	660	19.6	44	4	60–320	2	10.8–59.4	243266

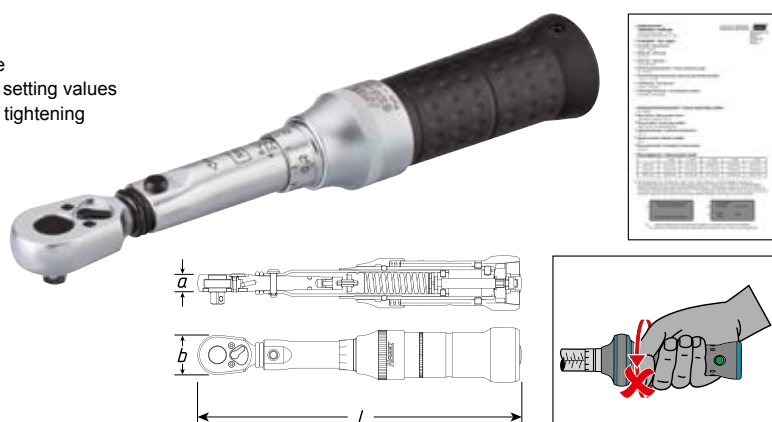
SYSTEM 6000 CT

6000-1 CT Torque wrench · SYSTEM 6000 CT · ± 2% accuracy · 6106-1 CT 4% · 1–40 Nm

🇩🇪 **Made in Germany**

Ⓔ 6.3 1/4"

- Safety:
 - Haptic (close-gap release)
 - Audible ("click" sound)
- Easy and safe adjustment of the desired torque value by turning the handle
- Especially slim design thanks to spring-loaded puller sleeve for locking the setting values
- **Accuracy ± 2% of the scale value** (in direction of actuation for right-hand tightening
For left-hand tightening, use our torque wrenches with insert tool)
6106-1 CT: ± 4% accuracy of the scale value
- Application: engines, gearboxes, machinery, industry, model making
- With calibration certificate and serial number
- DIN EN ISO 6789-2:2017, DIN 3120, ISO 1174-1



¹⁾ Not according to DIN, as the maximum torque value of the square specified in the standard 6789-1:2017 is exceeded

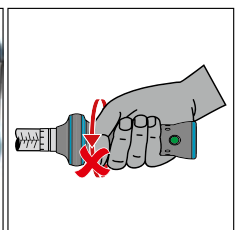
HAZET No.	Output	l mm	a mm	b mm	Release accuracy tolerance %	Nm	Nm	Signal transmitter	EAN-No. 4000896+
6106-1 CT	■ 6.3 = 1/4"	197	10.2	24	4	1–6	0.1	✗ 0.7–4.4	173167
6108-1 CT	■ 6.3 = 1/4"	198	10.2	24	2	2–10	0.2	✗ 1.4–7.3	062218
6109-2 CT ¹⁾	■ 6.3 = 1/4"	256	10.2	24	2	4–40	0.4	✗ 2.0–21.4	080564
• Torque wrench including DAkkS calibration certificate									
6106-1 CT CAL	■ 6.3 = 1/4"	197	10.2	24	4	1–6	0.1	✗ 0.7–4.4	192892
6108-1 CT CAL	■ 6.3 = 1/4"	198	10.2	24	2	2–10	0.2	✗ 1.4–7.3	192908
6109-2 CT CAL ¹⁾	■ 6.3 = 1/4"	256	10.2	24	2	4–40	0.4	✗ 2.0–21.4	193318



6000-1 CT Torque wrench · SYSTEM 6000 CT · ± 2% accuracy · 5–800 Nm

Made in Germany

- **Accuracy ± 2% of the scale value** (in direction of actuation for right-hand tightening
For left-hand tightening, use our torque wrenches with insert tool)
- High-precision premium torque tools – for the highest demands
- **Hard chrome-plated** steel tube – slim, but very sturdy and wear-resistant
- Secure storage in safe box with display window
- Safety:
 - Haptic (close-gap release)
 - Audible ("click" sound)
 - Visual (models with signal transmitter)
- User-friendly reversible ratchet
- **Service-friendly** (do-it-yourself repair sets for ratchets available)
- Integrated shift lever
- Easy and safe adjustment of the desired torque value by turning the handle
- Knob for additionally locking the set value
- Ergonomically shaped handle with collar **reduces the risk of slipping-off and injury**
- Accuracy – fine scale graduation
- 6121-1 CT – 6123-1 CT: shift lever with idle function – reduces risk of injury and malfunction
- With calibration certificate and serial number
- Surface: hard chrome plated
- DIN EN ISO 6789-2:2017, DIN 3120, ISO 1174-1



HAZET No.	Output	l mm	a mm	b mm	Release accuracy tolerance %	Nm	Nm	Signal transmitter	kg	EAN-No. 4000896+
6110-1 CT	■ 10 = 3/8"	335	14.5	32	2	5–60	0.5	✗	1.9–24.7	025022
6111-1 CT	■ 10 = 3/8"	389	14.5	32	2	20–120	1	✓	6.7–42.4	025077
6121-1 CT	■ 12.5 = 1/2"	437	19.6	44	2	20–120	1	✗	6.0–37.4	025220
6122-1 CT	■ 12.5 = 1/2"	547	19.6	44	2	40–200	1	✗	9.0–47.5	025268
6123-1 CT	■ 12.5 = 1/2"	661	19.6	44	2	60–320	2	✗	10.8–59.6	025367
• 2-component handle for improved feel • Simplified locking for adjusting the torque value • Viewing window for visual checking of the locking • 4 coloured coding rings (red, yellow, green, black) for markings in the case of personalisation or special workflows • Without signal transmitter										
6143-1 CT	■ 20 = 3/4"	802	28.5	64	2	100–400	2.5	✗	14.5–59.2	025466
6144-1 CT	■ 20 = 3/4"	1046	28.5	64	2	200–500	2.5	✗	21.6–54.6	025541
6145-1 CT	■ 20 = 3/4"	1283	28.5	64	2	300–800	2.5	✗	25.9–70.2	025565
• Torque wrench including DAKS calibration certificate										
6110-1 CT CAL	■ 10 = 3/8"	335	14.5	32	2	5–60	0.5	✗	1.9–24.7	192915
6111-1 CT CAL	■ 10 = 3/8"	389	14.5	32	2	20–120	1	✓	6.7–42.4	193011
6121-1 CT CAL	■ 12.5 = 1/2"	437	19.6	44	2	20–120	1	✗	6.0–37.4	193028
6122-1 CT CAL	■ 12.5 = 1/2"	547	19.6	44	2	40–200	1	✗	9.0–47.5	193233
6123-1 CT CAL	■ 12.5 = 1/2"	661	19.6	44	2	60–320	2	✗	10.8–59.6	193240
• Torque wrench including DAKS calibration certificate • 2-component handle for improved feel • Simplified locking for adjusting the torque value • Viewing window for visual checking of the locking • 4 coloured coding rings (red, yellow, green, black) for markings in the case of personalisation or special workflows										
6143-1 CT CAL	■ 20 = 3/4"	802	28.5	64	2	100–400	2.5	✗	14.5–59.2	192922
6144-1 CT CAL	■ 20 = 3/4"	1046	28.5	64	2	200–500	2.5	✗	21.6–54.6	193035
6145-1 CT CAL	■ 20 = 3/4"	1283	28.5	64	2	300–800	2.5	✗	25.9–70.2	193042



Torque technology

SYSTEM 6000 CT

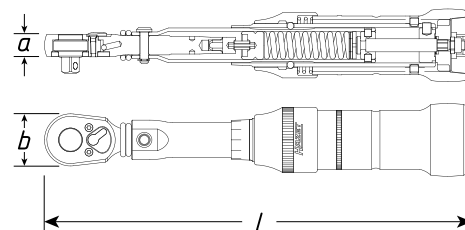


6000-1 CT Torque wrench · SYSTEM 6000 CT · ± 3% accuracy (6170-1 CT 4%) · 400–2000 Nm

Made in Germany

• For highest torque values

- **Accuracy ± 3% of the scale value** (6170-1 CT ± 4%) (in direction of actuation for right-hand tightening
For left-hand tightening, use our torque wrenches with insert tool)
- Ideal for industrial climbers
- Application on wind turbines, dockyards, in the aviation and heavy industries, on commercial vehicles etc.
- To be disassembled in two parts (6170-1 CT: three parts) with release tool
- Bag included for safe storage and for carrying or wearing on your back
- Fast screw tightening also possible with ratchet shaft. For torque tightening always use the complete wrench
- Safety:
 - Haptic (close-gap release)
 - Audible ("click" sound)
 - Visual (models with signal transmitter)
- **2-component handle** for improved feel
- Simplified locking for adjusting the torque value
- Viewing window for visual checking of the locking
- 4 coloured coding rings (red, yellow, green, black) for markings in the case of personalisation or special workflows
- With calibration certificate and serial number
- DIN EN ISO 6789-2:2017, DIN 3120, ISO 1174-1



¹⁾ Calibration according to company standards

HAZET No.	Output	l mm	a mm	b mm	Release accuracy tolerance %	Nm	Nm	Signal transmitter	EAN-No. 4000896+
1000 Nm torque wrench Weight only approx. 10 kg • Actuating force only 590 N (60 kg) at 1000 Nm • Length of ratchet shaft: 885 mm, handle: 969 mm									
6150-1 CT	■ 20 = ¾"	1789	36	77	3	400–1000	5	✗	24.2–61.0 141067
1600 Nm torque wrench Weight only approx. 14 kg • Actuating force only 685 N (70 kg) at 1600 Nm • Length of ratchet shaft 1316.5 mm, handle 1203 mm									
6160-1 CT	■ 25 = 1"	2455	36	77	3	600–1600	5	✗	26.1–70.1 155316
2000 Nm torque wrench Weight only approx. 18 kg • Actuating force only 685 N (70 kg) at 2000 Nm • Length of ratchet shaft: 1316.5 mm, middle piece: 644 mm, handle: 1203 mm • Calibration according to company standards									
6170-1 CT	■ 25 = 1"	3033	36	77	4	800–2000	6	✗	27.9–70.1 177776
• Torque wrench including DAkkS calibration certificate									
6150-1 CT CAL¹⁾	■ 20 = ¾"	1789	36	77	3	400–1000	5	✗	24.2–61.0 193059
6160-1 CT CAL¹⁾	■ 25 = 1"	2455	36	77	3	600–1600	5	✗	26.1–70.1 193066



6000-1 CT-US Torque wrench · SYSTEM 6000 CT · US STANDARD · ± 3% accuracy · 5–600 lbf.ft

Made in Germany

- According to US standards
- Scale graduation in lbf.ft
- **Accuracy ± 3% of the scale value** (in direction of actuation for right-hand tightening
For left-hand tightening, use our torque wrenches with insert tool)
- Safety:
 - Haptic (close-gap release)
 - Audible ("click" sound)
 - Visual (models with signal transmitter)
- Easy and safe adjustment of the desired torque value by turning the handle
- **Reversible ratchet**
- Knob for additionally locking the set value
- 6127-1 CT – 6128-1 CT: shift lever with idle function – reduces risk of injury and malfunction
- Secure storage in safe box with display window
- With calibration certificate and serial number
- DIN EN ISO 6789-2:2017, DIN 3120, ISO 1174-1

Ⓔ



HAZET No.	Output	l mm	a mm	b mm	Release accuracy tolerance %	lbf.ft.	Nm	lbf.ft.	Signal transmitter	Signal transmitter	EAN-No. 4000896+
6114-1CT	10 = 3/8"	333	14.5	32	3	5–40	6.8–54.2	0.5	✗	2.6–21.8	078424
6115-1CT	10 = 3/8"	390	14.5	32	3	20–100	27.1–135.6	0.5	✓	9.1–48.2	025084
6127-1CT	12.5 = 1/2"	545	19.6	44	3	40–200	54.2–271.2	1	✓	12.3–64.6	025381
6128-1CT	12.5 = 1/2"	660	19.6	44	3	50–250	67.8–339	2	✓	12.2–62.6	076116
• 2-component handle for improved feel • Simplified locking for adjusting the torque value • Viewing window for visual checking of the locking • 4 coloured coding rings (red, yellow, green, black) for markings in the case of personalisation or special workflows • Without signal transmitter											
6132-1CT	20 = 3/4"	1284	28.5	64	3	120–600	162.7–813.5	2	✗	14.0–71.6	078455





Torque technology

SYSTEM 6000 CT

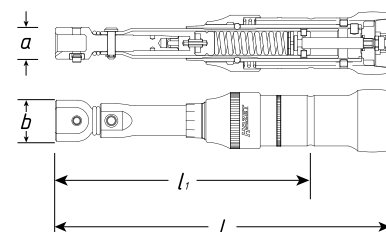
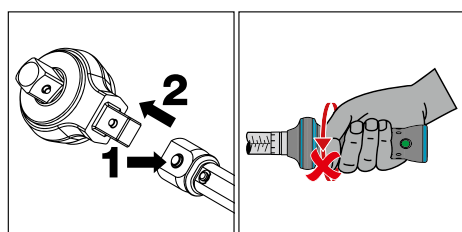


6200-1 CT Torque wrench · SYSTEM 6000 CT · $\pm 2\%$ accuracy · 2–40 Nm

Made in Germany

- Plug-and-socket connection to hold insert tools
- **Accuracy $\pm 2\%$ of the scale value** (in direction of actuation)
Can be used for right-hand and left-hand threads by turning the insert tool
- Safety:
 - Haptic (close-gap release)
 - Audible ("click" sound)
- With calibration certificate and serial number
- Especially slim design thanks to spring-loaded puller sleeve for locking the setting values
- Easy and safe adjustment of the desired torque value by turning the handle
- DIN EN ISO 6789-2:2017

(E) 9 x 12



¹⁾ Not according to DIN, as the maximum torque value of the square specified in the standard 6789-1:2017 is exceeded

HAZET No.	Output	l mm	l_1 mm	l_2 mm	a mm	b mm	Release accuracy tolerance %	Nm	Nm	Signal transmitter		EAN-No. 4000896+
6280-1 CT	☐ 9x12	181	141	19.5	17	22	2	2–10	0.2	✗	1.3–6.6	026005
6282-1 CT ¹⁾	☐ 9x12	240	200	19.5	17	22	2	4–40	0.4	✗	1.9–19.8	080540
• Torque wrench including DAkkS calibration certificate												
6280-1 CT CAL	☐ 9x12	181	141	19.5	17	22	2	2–10	0.2	✗	1.3–6.6	193073
6282-1 CT CAL ¹⁾	☐ 9x12	240	200	19.5	17	22	2	4–40	0.4	✗	1.9–19.8	193080

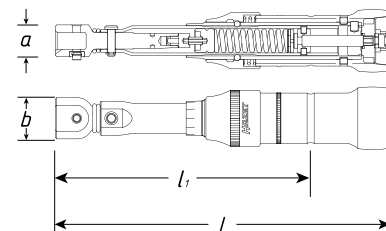
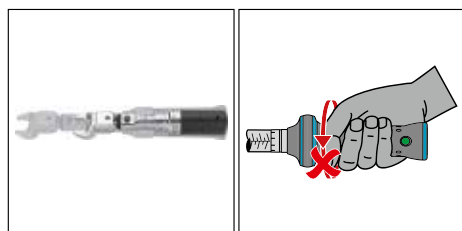
6200-1 CT Torque wrench · SYSTEM 6000 CT · $\pm 4\%$ accuracy · 5–13 Nm

Made in Germany

• Extra short construction for areas with restricted access

(E) 9 x 12

- Plug-and-socket connection to hold insert tools
- **Accuracy $\pm 4\%$ of scale value** (in direction of actuation)
Can be used for right-hand and left-hand threads by turning the insert tool
- Safety:
 - Haptic (close-gap release)
 - Audible ("click" sound)
- With calibration certificate and serial number
- Easy and safe adjustment of the desired torque value by turning the handle
- Surface: hard chrome plated
- DIN EN ISO 6789-2:2017



HAZET No.	Output	l mm	l_1 mm	l_2 mm	a mm	b mm	Release accuracy tolerance %	Nm	Nm	Signal transmitter		EAN-No. 4000896+
6281-2 CT	☐ 9x12	125.4	99	17.5	17	22	4	5–13	0.2	✗	4.4–11.8	183326
• Torque wrench including DAkkS calibration certificate												
6281-2 CT CAL	☐ 9x12	125.4	99	17.5	17	22	4	5–13	0.2	✗	4.4–11.8	193295

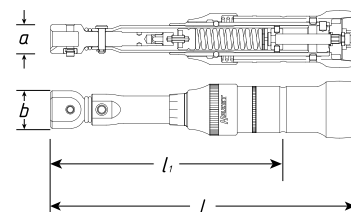
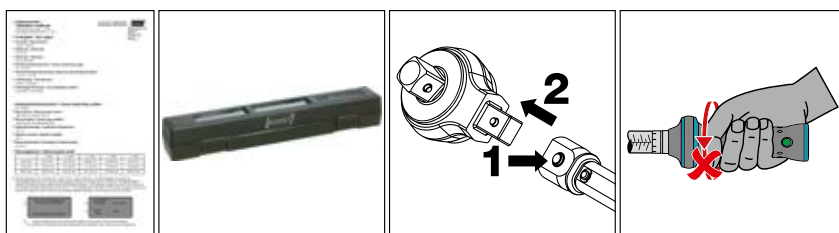


6200-1 CT Torque wrench · SYSTEM 6000 CT · $\pm 2\%$ accuracy · 5–320 Nm

Made in Germany

- Plug-and-socket connection to hold insert tools
- **Accuracy $\pm 2\%$ of the scale value** (in direction of actuation)
Can be used for right-hand and left-hand threads by turning the insert tool
- Safety:
 - Haptic (close-gap release)
 - Audible ("click" sound)
 - Visual (models with signal transmitter)
- With calibration certificate and serial number
- Easy and safe adjustment of the desired torque value by turning the handle
- Secure storage in safe box with display window
- DIN EN ISO 6789-2:2017

Ⓔ



HAZET No.	Output	l mm	l_1 mm	l_2 mm	a mm	b mm	Release accuracy tolerance %	Nm	Nm	Signal transmitter		EAN-No. 4000896+
6290-1 CT	☐ 9x12	306	252	30	17	22	2	5–60	0.5	✗	1.8–23.1	026043
6291-2 CT	☐ 9x12	389	318	30	18	23	2	20–120	1	✓	5.9–36.6	026104
6291-1 CT	☐ 14x18	401	330	38.5	23	30	2	20–120	1	✓	5.5–34.5	026074
6292-1 CT	☐ 14x18	511	440	38.5	23	30	2	40–200	1	✓	8.5–44.8	026135
6293-1 CT	☐ 14x18	625	554	38.5	23	30	2	60–320	2	✓	10.3–56.8	026173
• Torque wrench including DAKS calibration certificate												
6290-1 CT CAL	☐ 9x12	306	252	30	17	22	2	5–60	0.5	✗	1.8–23.1	193097
6291-2 CT CAL	☐ 9x12	389	318	30	18	23	2	20–120	1	✓	5.9–36.6	193257
6291-1 CT CAL	☐ 14x18	401	330	38.5	23	30	2	20–120	1	✓	5.5–34.5	193264
6292-1 CT CAL	☐ 14x18	511	440	38.5	23	30	2	40–200	1	✓	8.5–44.8	193271
6293-1 CT CAL	☐ 14x18	625	554	38.5	23	30	2	60–320	2	✓	10.3–56.8	193288





Torque technology

SYSTEM 6000 CT

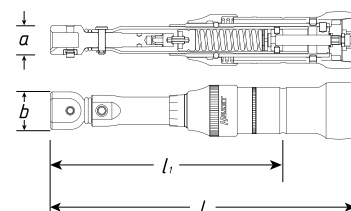


6200-1 CT Torque wrench · SYSTEM 6000 CT · ± 2% accuracy · 100–500 Nm

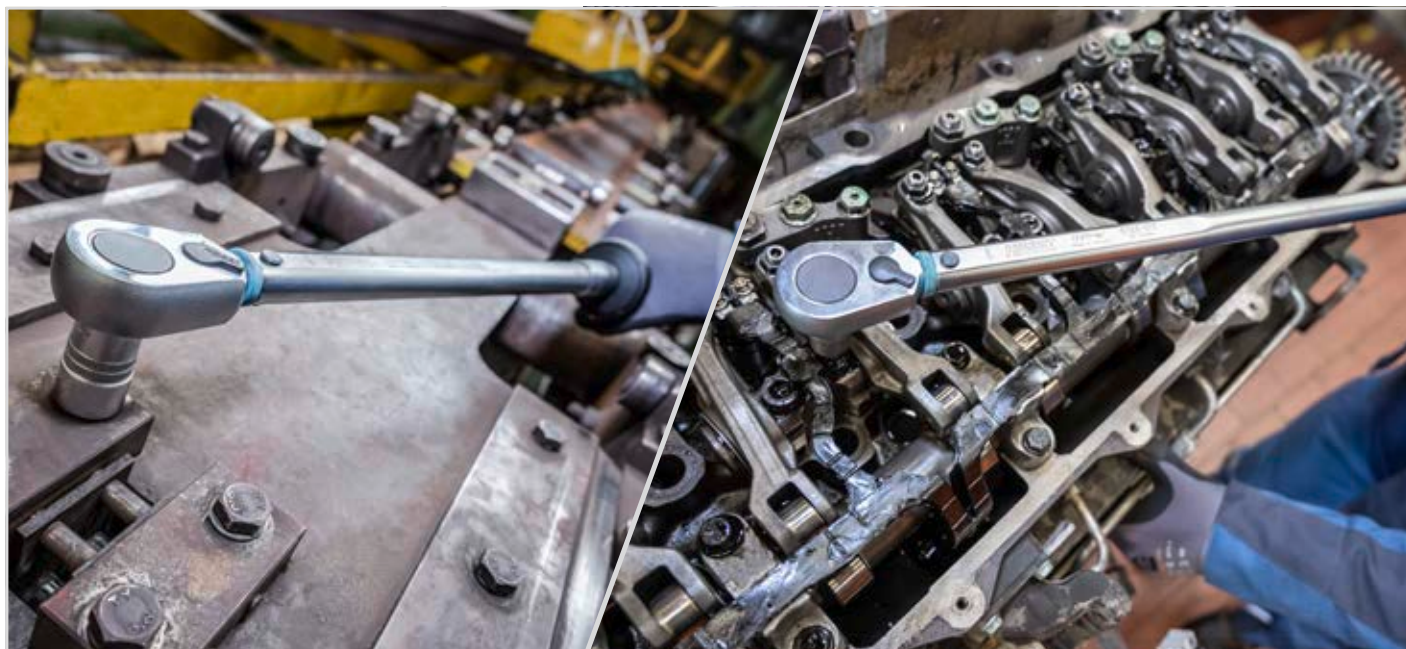
Made in Germany

- Plug-and-socket connection to hold insert tools
- **Accuracy ± 2% of the scale value** (in direction of actuation)
Can be used for right-hand and left-hand threads by turning the insert tool
- Safety:
 - Haptic (close-gap release)
 - Audible ("click" sound)
 - Visual (models with signal transmitter)
- With calibration certificate and serial number
- Easy and safe adjustment of the desired torque value by turning the handle
- Secure storage in safe box with display window
- **2-component handle** for improved feel
- Simplified locking for adjusting the torque value
- Viewing window for visual checking of the locking
- Knob for additionally locking the set value
- 4 coloured coding rings (red, yellow, green, black) for markings in the case of personalisation or special workflows
- DIN EN ISO 6789-2:2017

Ⓔ



HAZET No.	Output	l mm	l_1 mm	l_2 mm	b mm	Release accuracy tolerance %	Nm	 Nm	Signal transmitter		EAN-No. 4000896+
6294-1 CT	☐ 14 x 18	718	649	44	35.5	2	100–400	2.5	✗	14.7–59.9	026197
6295-1 CT	☐ 14 x 18	962	893	44	35.5	2	200–500	2.5	✗	21.8–55.1	026203
• Torque wrench including DAkkS calibration certificate											
6294-1 CT CAL	☐ 14 x 18	718	649	44	35.5	2	100–400	2.5	✗	14.7–59.9	193103
6295-1 CT CAL	☐ 14 x 18	962	893	44	35.5	2	200–500	2.5	✗	21.8–55.1	193110





6290 Torque tool set

Made in Germany

- Sheet metal box (HAZET blue)
- 2-component soft foam insert



6200-1 CT •
6290-1 CT



6450 C •
7 • 8 • 9 • 10 • 11 • 12
13 • 14 • 15 • 16 • 17



6630 C •
7 • 8 • 10 • 11 • 12
13 • 14 • 15 • 16 • 17



6402-1 •



6612 C •
10 • 11 • 12 • 13 • 14 • 17

HAZET No.	L x W x H mm		EAN-No. 4000896+
6290-1 CT/29	435x215x62	29	026067

6292 Torque tool set

Made in Germany

- Sheet metal box (HAZET blue)
- 2-component soft foam insert



6200-1 CT •
6292-1 CT



6404-1 •



6450 D •
13 • 14 • 15 • 16
17 • 18 • 19 • 21
22 • 24 • 27 • 30
32

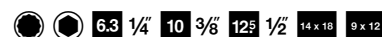


6630 D •
13 • 14 • 15 • 16
17 • 18 • 19 • 21
22 • 24 • 27 • 30
32

HAZET No.	L x W x H mm		EAN-No. 4000896+
6292-1 CT/28	578x235x88	28	026166

6400 Insert tool set

Made in Germany



6401-1 •



6413-4 •



6612 C •
10 • 14 • 19 • 22



6402-1 •



6414 •



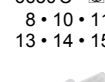
6630 C •
8 • 10 • 11 • 12
13 • 14 • 15 • 16



6404-1 •



6423 C •



6630 D •
13 • 16 • 17 • 18 • 19
21 • 22 • 24 • 27



6408 •

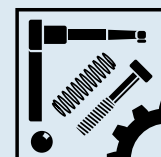


6450 D •

HAZET No.		EAN-No. 4000896+
6400 CD/29	29	233458

Wear? – No problem!

- HAZET tools are manufactured to the **highest quality**. During long intensive loading there is a certain level of wear even for high-quality tools.
- For this reason, there are spare parts and replacement sets available for many of our tools.



Please also see our spare parts shop
www.hazet.de/ersatzteil-shop

Cost-saving – Sustainable – Resource-saving!
For long-term pleasure with your HAZET tools



Torque technology

SYSTEM 6000 CT



6100 Replacement set

Made in Germany



HAZET No.	EAN-No. 4000896+
Replacement set for twist lock consisting of: twist lock · lock spring and threaded pin For HAZET torque wrenches model year 2014 → 6132-1 CT · 6143-1 CT · 6144-1 CT · 6145-1 CT · 6150-1 CT · 6160-1 CT · 6170-1 CT · 6243-1 CT · 6244-1 CT · 6245-1 CT · 6146-1 CT · 6246-1 CT · 6294-1 CT · 6295-1 CT · 6296-1 CT	192557
Replacement set for shift lever consisting of: shift lever · screws · ball · compression spring For HAZET reversible ratchet 1016 · 1016/2 For HAZET torque wrench 5143-3 CT · 5145-3 CT · 6132-1 CT · 6143 CT · 6143-1 CT · 6144 CT · 6144-1 CT · 6145 CT · 6145-1 CT · 6146-1 CT	001972
Replacement set for ratchet wheel 20 = ¾" consisting of: ratchet wheel · pawl · shift lever · screws · ball · compression spring For HAZET reversible ratchet 1016 · 1016/2 For HAZET torque wrench 5145-3 CT · 6132-1 CT · 6143 CT · 6143-1 CT · 6144 CT · 6144-1 CT · 6145 CT · 6145-1 CT · 6146-1 CT	001989
Replacement set for shift lever consisting of: shift lever · screws · ball · compression spring For HAZET reversible ratchet 1116 For HAZET torque wrench 6150-1 CT · 6160-1 CT · 6170-1 CT · 7250-2 sTAC · 7250-5 sTAC	003228
Replacement set for ratchet wheel 25 = 1" consisting of: shift lever · screws · ball · compression spring · pawl · ratchet wheel For HAZET reversible ratchet 1116 For HAZET torque wrench 6160-1 CT · 6170-1 CT	003235
Replacement set for shift lever consisting of: shift lever · screws · ball · compression spring · pawl For HAZET reversible ratchet 8816 G · 8816 GK · 8816 P · 8816 S · 8816 ST · 916 K · 2264-1 For HAZET torque wrench 5110-2 CT · 5120-2 CT · 5110-3 CT · 5111-3 CT · 5120-3 CT · 6110 CT · 6110-1 CT · 6111-1 CT · 6114-1 CT · 6115-1 CT · 6402-1 · 6402-1 S · 6408-1	144617
Replacement set for ratchet wheel 10 = ¾" consisting of: ratchet wheel · pawl · shift lever · screws · ball · compression spring For HAZET reversible ratchet 8816 G · 8816 GK · 8816 P · 8816 ST For HAZET torque wrench 5110-2 CT · 5110-3 CT · 5111-3 CT · 6110 CT · 6110-1 CT · 6111-1 CT · 6114-1 CT · 6115-1 CT · 6402-1	042234
Replacement set for shift lever · complete 12.5 = ½" consisting of: ratchet wheel · pawl · shift lever · screws · ball · compression spring · spring washer · circlip For HAZET torque wrench 5121-2 CT · 5122-2 CT · 5123-2 CT · 5121-3 CT · 5122-3 CT · 5123-3 CT · 5121-2 CLT · 5122-2 CLT · 5123-2 CLT · 5128-2 CLT · 5122 ST-1 · 6121 CT · 6122 CT · 6123 CT · 6121-1 CT · 6122-1 CT · 6123-1 CT · 6127-1 CT · 6128-1 CT · 6122 TAC	025343
Replacement set for ratchet wheel 12.5 = ½" consisting of: ratchet wheel · pawl · shift lever · screws · ball · compression spring For torque wrench HAZET 5120-2 CT · 5120-3 CT	235490
Replacement set for ratchet wheel 12.5 = ½" consisting of: ratchet wheel · pawl · shift lever · screws · ball · compression spring For torque wrench HAZET 5143-3 CT	237142
Replacement set for ratchet wheel 20 = ¾" consisting of: ratchet wheel · pawl · shift lever · screws · ball · compression spring For 6150-1 CT · 7250-2 sTAC · 7250-5 sTAC	151431
Replacement set for shift lever consisting of: shift lever · screws · ball · compression spring For HAZET torque wrench 5107-2 CT · 5107-3 CT · 5108-2 CT · 5108-3 CT · 6106-1 CT · 6108-1 CT · 6109-1 CT · 6109-2 CT · 6401-1 · 6401-1 S · 6408	146048

6100 Replacement set

HAZET No.	EAN-No. 4000896+
Replacement set for ratchet wheel 6.3 = ¼" consisting of: ratchet wheel · pawl · shift lever · screws · ball · compression spring For HAZET torque wrench 5107-2 CT · 5107-3 CT · 5108-2 CT · 5108-3 CT · 6106-1 CT · 6108-1 CT · 6109-1 CT · 6109-2 CT · 6401-1	111169
Replacement set for ratchet wheel 6.3 = ¼" consisting of: ratchet wheel with safety lock · pawl · shift lever · screws · ball · compression spring For 6401-1 S as well as for retrofitting insert reversible ratchets 5107-2 CT · 5107-3 CT · 5108-2 CT · 5108-3 CT · 6106-1 CT · 6108-1 CT · 6109-2 CT	111152
Replacement set for shift lever consisting of: shift lever · screws · ball · compression spring · spring washer and circlip For HAZET insert reversible ratchet 6403-1 · 6403-1 S · 6404-1 · 6404-1 S	070756
Replacement set for ratchet wheel 12.5 = ½" consisting of: ratchet wheel · pawl · shift lever · screws · ball · compression spring · spring washer · circlip For 6403-1 · 6404-1	070749
Replacement set for ratchet wheel 12.5 = ½" consisting of: ratchet wheel with safety lock · pawl · shift lever · screws · ball · compression spring · spring washer · circlip For 6403-1 S · 6404-1 S	070817
Replacement set for twist lock consisting of: lock spring · twist lock with 2 headless screws For HAZET torque wrench 6010-1 CT · 6110-1 CT · 6114-1 CT · 6290-1 CT	025053
Replacement set for twist lock consisting of: lock spring · twist lock with 2 headless screws For HAZET torque wrench 5121-2 CLT · 5122-2 CLT · 5123-2 CLT · 5128-2 CLT · 6021-1 CT · 6022-1 CT · 6023-1 CT · 6111-1 CT · 6115-1 CT · 6121-1 CT · 6122-1 CT · 6123-1 CT · 6127-1 CT · 6128-1 CT · 6291-1 CT · 6292-1 CT · 6293-1 CT · 6722 TAC · 6291-2 CT	025299
Replacement set for visual signal transmitter consisting of: red button · compression spring · housing · black · pin · screw For HAZET torque wrench 6021-1 CT · 6022-1 CT · 6023-1 CT · 6110 CT · 6110-1 CT · 6111-1 CT · 6114-1 CT · 6115-1 CT · 6121 CT · 6121-1 CT · 6122 CT · 6122-1 CT · 6123 CT · 6123-1 CT · 6127-1 CT · 6128-1 CT · 6291-1 CT · 6291-2 CT · 6290-1 CT · 6291 CT · 6292-1 CT · 6293-1 CT	025305
Replacement set for shift lever consisting of: shift lever · screws · ball · compression spring · spring washer · circlip For HAZET torque wrench 5121-2 CLT · 5121-2 CT · 5121-3 CT · 5122-2 CLT · 5122-2 CT · 5122-3 CT · 5122 ST-1 · 5123-2 CLT · 5123-2 CT · 5123-3 CT · 5128-2 CLT · 6121-1 CT · 6121 CT · 6122-1 CT · 6122 CT · 6123-1 CT · 6123 CT · 6127-1 CT · 6128-1 CT · 6722 TAC	025329
Reversible ratchet with screw complete replaceable: ■ 20 = ¾" model year → End 2004 For HAZET torque wrench 6132-1 CT · 6143 CT · 6143-1 CT · 6144 CT · 6144-1 CT · 6145 CT · 6145-1 CT · 6146-1 CT	111190
Replacement set for twist lock consisting of: twist lock · lock spring and cylinder screw For HAZET torque wrench model year → 2013 6132-1 CT · 6143-1 CT · 6144-1 CT · 6145-1 CT · 6150-1 CT · 6160-1 CT · 6170-1 CT · 6243-1 CT · 6244-1 CT · 6245-1 CT · 6146-1 CT · 6246-1 CT · 6294-1 CT · 6295-1 CT · 6296-1 CT	025527
Reversible ratchet with screw complete replaceable: ■ 20 = ¾" model year 2005 → For HAZET torque wrench 5145-3 CT · 6132-1 CT · 6144 CT · 6144-1 CT · 6145 CT · 6145-1 CT · 6146-1 CT	111206



SYSTEM 7000 sTAC

7000 sTAC Torque wrench with built-in angle gauge · electronic · SmartTAC SYSTEM 7000 sTAC · 1–1000 Nm

 **Made in Germany**

• **Smart technology – Ready for Industry 4.0**

• HAZET Smart technology consisting of the SmartTAC app and Bluetooth 4.1 Low Energy interface (product group 7000-2sTAC may be subject to national approval restrictions). Trouble-free live data exchange for displaying the screwing progress on mobile end devices, such as smartphones (smartwatches) and tablet PCs. USB-C interface for programming torque wrenches with built-in angle gauge and documenting the screwing data via laptop and PC with the software SmartTAC tool 7910-sTAC.

All sTAC torque wrenches with built-in angle gauges can also be used autonomously, without SmartTAC app

• Unique ergonomic, user-oriented HAZET design of entire tool for professional use

• The reduction in size and integration of the PCB into the main pipe results in dimensions that allow for the small torque wrench with built-in angle gauge from 1 Nm

• Protection rating IP 40

Spray-water-proof display and membrane keyboard

• USB-C port to directly charge battery when still in tool

• Including standard replaceable Li ion rechargeable battery, type 14650 / 3.7 Volt, can be charged directly on the tool via USB-C connector

• Including 1 metre USB 3.1 / A-C cable

Functions: 7000 sTAC

• Large, high-contrast illuminated, easily readable OLED display, dimmable and 180° rotatable

• Indication of the measuring values in 13 mm font size, including a rating of the screw-joint (OK / not OK)

• Display deviation in right and left torque: from $\pm 1\%$ / ± 1 digit

• Display deviation in right and left rotation angle: $\pm 1\%$ / $\pm 1^\circ$

• Rotation angle range adding: 0 to 999°

• Torque tolerance for OK display (green): adjustable ± 1 to 10%

• Rotation angle tolerance for OK display (green): adjustable 1 to 90°

• Choice of torque measuring units: Nm, lbf ft, lbf in or kgf m

• Lets you select or program the effective length for other insert tools from 0 to 250 m

(requirement for correct torque / rotation angle measurements)

- Four signals alert the user during screwing process: audible signal (buzzer), vibration signal, synchronous numerical display, and a 360° LED display with "traffic light function" that is visible from all around
- Threshold value, pre-warning level: adjustable 50 to 99%
- Adjustable signaling, On/Off audible signal (buzzer) and vibration
- Reset function, restore to factory setting
- Stand-by time: adjustable 1 to 10 min.
- Indication of battery condition and memory
- Memory capacity, including date and time: up to 3000 measurements
- Offers possibility to program flow charts and sets of parameters: 25 and 25
- 2 control functions: programmable torque control for angle tightening and angle control for torque tightening
- Menu locking against unintentional change, four-digit code is personally selected
- Display of the software version with serial numbers, calibration date and service display / usage counter
- Menu languages: German, English, French, Italian, Chinese
- Programming and evaluation software for laptop and PC 7910-sTAC (at additional cost)
- SmartTAC app for Android and Apple iOS end devices for series 7000-2 sTAC (free download)
- The SmartTAC torque wrenches with built-in angle gauge of the **7000-2 sTAC series with Bluetooth interface** have valid radio licences in all EU countries as well as in Switzerland, Norway, China, India, South Korea, Mexico and Turkey and may be sold there. Radio licences for South Africa, USA and Canada are currently in preparation. Other countries on request
- For all other countries without radio licences, we offer the SmartTAC torque wrench with built-in angle gauge of the **7000-5 sTAC series without a Bluetooth interface**. These can be connected to a laptop and PC via a USB port and to the optional programming and evaluation software. It is not possible to use the SmartTAC app for mobile devices due to the lack of a Bluetooth interface
- **With Bluetooth function**
- Tested in accordance with DIN EN ISO 6789-2:2017, VDI / VDE 2648, Sheet 2



SYSTEM 7000 sTAC



YouTube Clip





Torque technology

SYSTEM 7000 sTAC



7000 STAC Torque wrench with built-in angle gauge · electronic · SmartTAC SYSTEM 7000 sTAC · 1–1000 Nm

HAZET No.	Output	l mm	l_2 mm	Release accuracy tolerance %	lbf.ft.	Nm		Bluetooth interface	EAN-No. 4000896+
- Includes insert reversible ratchet 6401-1 ■ 6.3 = 1/4" - Length with/without insert tool: 290.5 mm / 260 mm									
7280-5 STAC	□ 9x12, ■ 6.3 = 1/4"	260	17.5	2	0.75–7.5	1–10	0.5–4.6	✗	223183
7281-5 STAC	□ 9x12, ■ 6.3 = 1/4"	260	19.5	2	1.85–18.5	2.5–25	1.1–11.4	✗	223176
- Includes insert reversible ratchet 6402-1 ■ 10 = 3/8" - Length with/without insert tool: 347 mm / 302 mm									
7290-5 STAC	□ 9x12, ■ 10 = 3/8"	302	30	1	3.5–44	5–60	1.8–22.2	✗	223169
- Includes insert reversible ratchet 6402-1 ■ 10 = 3/8" - Length with/without insert tool: 428 mm / 383 mm									
7291-5 STAC	□ 9x12, ■ 10 = 3/8"	383	30	1	7.5–75	10–100	2.9–28.7	✗	223152
- Includes insert reversible ratchet 6404-1 ■ 12.5 = 1/2" - Length with/without insert tool: 578.5 mm / 520 mm									
7292-5 STAC	□ 14x18, ■ 12.5 = 1/2"	520	38.5	1	15–150	20–200	4.1–40.7	✗	223145
- Includes insert reversible ratchet 6406 ■ 20 = 3/4" - Length with/without insert tool: 1021 mm / 945 mm									
7294-5 STAC	□ 14x18, ■ 20 = 3/4"	945	44	1	30–300	40–400	4.4–43.8	✗	223138
- Includes insert reversible ratchet 6406 ■ 20 = 3/4" - Length with/without insert tool: 1217 mm / 1141 mm									
7295-5 STAC	□ 14x18, ■ 20 = 3/4"	1141	44	1	48–480	65–650	5.9–58.7	✗	222926
Integrated reversible ratchet ■ 20 = 3/4"									
7250-5 STAC	■ 20 = 3/4"	1772	–	1	150–750	200–1000	12.2–60.8	✗	222919
- Includes insert reversible ratchet 6401-1 ■ 6.3 = 1/4" - Length with / without insert tool: 290.5 mm / 260 mm									
7280-2 STAC	□ 9x12, ■ 6.3 = 1/4"	260	17.5	2	0.75–7.5	1–10	0.5–4.6	✓	215294
7281-2 STAC	□ 9x12, ■ 6.3 = 1/4"	260	19.5	2	1.85–18.5	2.5–25	1.1–11.4	✓	215317
- Includes insert reversible ratchet 6402-1 ■ 10 = 3/8" - Length with / without insert tool: 347 mm / 302 mm									
7290-2 STAC	□ 9x12, ■ 10 = 3/8"	302	30	1	3.5–44	5–60	1.8–22.2	✓	215324
- Includes insert reversible ratchet 6402-1 ■ 10 = 3/8" - Length with / without insert tool: 428 mm / 383 mm									
7291-2 STAC	□ 9x12, ■ 10 = 3/8"	383	30	1	7.5–75	10–100	2.9–28.7	✓	215430
- Includes insert reversible ratchet 6404-1 ■ 12.5 = 1/2" - Length with / without insert tool: 578.5 mm / 520 mm									
7292-2 STAC	□ 14x18, ■ 12.5 = 1/2"	520	38.5	1	15–150	20–200	4.1–40.7	✓	215447
- Includes insert reversible ratchet 6406 ■ 20 = 3/4" - Length with / without insert tool: 1021 mm / 945 mm									
7294-2 STAC	□ 14x18, ■ 20 = 3/4"	945	44	1	30–300	40–400	4.4–43.8	✓	215454
- Includes insert reversible ratchet 6406 ■ 20 = 3/4" - Length with / without insert tool: 1217 mm / 1141 mm									
7295-2 STAC	□ 14x18, ■ 20 = 3/4"	1141	44	1	48–480	65–650	5.9–58.7	✓	215461
Integrated reversible ratchet ■ 20 = 3/4"									
7250-2 STAC	■ 20 = 3/4"	1772	–	1	150–750	200–1000	12.2–60.8	✓	215478
- Torque wrench including DAkkS calibration certificate - Includes insert reversible ratchet 6401-1 ■ 6.3 = 1/4" - Length with / without insert tool: 290.5 mm / 260 mm									
7281-2 STAC CAL	□ 9x12, ■ 6.3 = 1/4"	260	19.5	2	1.85–18.5	2.5–25	1.1–11.4	✓	220366
- Torque wrench including DAkkS calibration certificate - Includes insert reversible ratchet 6402-1 ■ 10 = 3/8" - Length with / without insert tool: 347 mm / 302 mm									
7290-2 STAC CAL	□ 9x12, ■ 10 = 3/8"	302	30	1	3.5–44	5–60	1.8–22.2	✓	220373
- Torque wrench including DAkkS calibration certificate - Includes insert reversible ratchet 6402-1 ■ 10 = 3/8" - Length with / without insert tool: 428 mm / 383 mm									
7291-2 STAC CAL	□ 9x12, ■ 10 = 3/8"	383	30	1	7.5–75	10–100	2.9–28.7	✓	220380
- Torque wrench including DAkkS calibration certificate - Includes insert reversible ratchet 6404-1 ■ 12.5 = 1/2" - Length with / without insert tool: 578.5 mm / 520 mm									
7292-2 STAC CAL	□ 14x18, ■ 12.5 = 1/2"	520	38.5	1	15–150	20–200	4.1–40.7	✓	220397
- Torque wrench including DAkkS calibration certificate - Includes insert reversible ratchet 6406 ■ 20 = 3/4" - Length with / without insert tool: 1021 mm / 945 mm									
7294-2 STAC CAL	□ 14x18, ■ 20 = 3/4"	945	44	1	30–300	40–400	4.4–43.8	✓	220403
- Torque wrench including DAkkS calibration certificate - Includes insert reversible ratchet 6406 ■ 20 = 3/4" - Length with / without insert tool: 1217 mm / 1141 mm									
7295-2 STAC CAL	□ 14x18, ■ 20 = 3/4"	1141	44	1	48–480	65–650	5.9–58.7	✓	220410
- Torque wrench including DAkkS calibration certificate - Integrated reversible ratchet ■ 20 = 3/4"									
7250-2 STAC CAL	■ 20 = 3/4"	1772	–	1	150–750	200–1000	12.2–60.8	✓	220342
SmartTAC-Tool · SmartTAC programming and evaluation software for HAZET torque wrench with built-in angle gauge of the 7000 sTAC series, also as download at "www.hazet.de".									
7910-STAC	–	–	–	–	–	–	–	–	221875



Torque screwdrivers

6001 Torque screwdriver · 6001 · 0.4–5.4 Nm

Made in Germany

• For all fittings with low torque e.g. disc brakes on bicycles



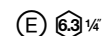
- Torque release clearly palpable and audible when torque setting is reached by ratcheting
- Loosening without torque function possible
- Fast and precise setting of torque values with hex-head wrench (HAZET 2100-06, included in delivery)
- Insert tool holder for bits with magnet for all bits with drive or HAZET Adapter 2304 for connecting to HAZET 850 sockets
- Accuracy (tolerance) according to EN ISO 6789
- Contents:
Torque handle with insert tool holder for bits 2239-7, offset screwdriver 2100-06
- Plastic handle



HAZET No.	Output	l mm	Release accuracy tolerance %	Nm		EAN-No. 4000896+
• For all screw connections with low torque e.g. valve cores on tyre pressure control systems						
• For tightening torques from 0.4 to 1.4 Nm						
6001-1.4/3	○ 6.3 = 1/4"	–	15	0.4–1.4	3	190980
• For tightening torque values from 0.6 up to 1.5 Nm						
6001-1.5/3	○ 6.3 = 1/4"	–	10	0.6–1.5	3	141678
• According to VW Service Information e.g. for the fastening screws at the air-filter housing on 1.4 l engine with turbocharger on VW Eos, Golf, Golf Plus and Passat						
6001-3.0/3	○ 6.3 = 1/4"	–	6	1.5–3	3	141685
6001-5.4/3	○ 6.3 = 1/4"	–	6	3–5.4	3	141692
• Adapter 6.3 = 1/4" → 6.3 = 1/4"						
2304 N	–	25	–	–	–	238071

6000 CT Torque screwdriver · SYSTEM 6000 CT · ± 5% accuracy · 0.1–6 Nm

- Accuracy ± 5% of the scale value (in direction of actuation)
- For bits with 6.3 = 1/4" outside hexagon drive
- Operation of sockets (drive 6.3 = 1/4") with HAZET 2304 adapter
- Plastic handle
- DIN EN ISO 6789



<i>HAZET</i> No.	Output	<i>l</i> mm	Release accuracy tolerance %	Nm	cNm	 Nm	EAN-No. 4000896+
6002 CT	⊙ 6.3 = 1/4"	170	5	0.1–1.2	10–120	0.01	023004
6003 CT	⊙ 6.3 = 1/4"	230	5	1–6	100–600	0.1	023011
• Adapter  6.3 = 1/4" →  6.3 = 1/4"							
2304 N	—	25	—	—	—	—	238071



SYSTEM 6300 CT

- **With lockable torque setting**

- Especially suitable for application in industrial series production

Adjusting the desired torque value with adjustment wrench 6399 in conjunction with HAZET torque tester 7901 E, 7902 E, 7903 E or any other suitable device.

All torque wrenches of this line (HAZET 6391-6392) are without scale and without signal transmitter

6300 Torque wrench · $\pm 2\%$ accuracy · 6391-10 6% · 1–12 Nm

Made in Germany

- Particularly easy to use thanks to short design

- Universal application thanks to connection for insert tools

- **Accuracy $\pm 2\%$ (6391-10: 6%) of scale value** (in direction of actuation)

Can be used for right-hand and left-hand threads by turning the insert tool

- Plug-and-socket connection to hold insert tools

- **Permanently adjustable value**

- Especially suitable for application in industrial series production

Setting the desired torque value with adjustment wrench 6399 together with HAZET torque tester 7901 E, 7902 E, 7903 E or any other suitable device.

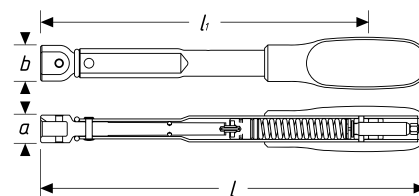
All wrenches of this series (HAZET 6391-6392) are without a scale and a signal transmitter

- With calibration certificate and serial number

- DIN EN ISO 6789-2:2017



(E) 9 x 12



HAZET No.	Output	l mm	l_1 mm	l_2 mm	a mm	b mm	Release accuracy tolerance %	Nm		EAN-No. 4000896+
6391-10	☐ 9x12	124	102	19.5	17	22	6	1–10	0.8–8.4	208951
6391-12	☐ 9x12	124	102	19.5	17	22	2	2–12	1.7–10.1	027026
• Factory preset triggering value as requested										
6391-12V	☐ 9x12	124	102	–	17	22	2	2–12	1.7–10.1	145850

6300 Torque wrench · $\pm 2\%$ accuracy · 2–35 Nm

Made in Germany

- **Accuracy $\pm 2\%$ (6391-10: 6%) of scale value** (in direction of actuation)

Can be used for right-hand and left-hand threads by turning the insert tool

- Plug-and-socket connection to hold insert tools

- **Permanently adjustable value**

- Especially suitable for application in industrial series production

Setting the desired torque value with adjustment wrench 6399 together with HAZET torque tester 7901 E, 7902 E, 7903 E or any other suitable device

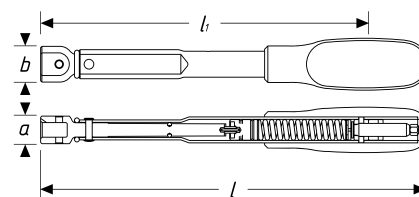
All wrenches of this series (HAZET 6391-6392) are without a scale and a signal transmitter

- With calibration certificate and serial number

- DIN EN ISO 6789-2:2017



(E) 9 x 12



HAZET No.	Output	l mm	l_1 mm	l_2 mm	a mm	b mm	Release accuracy tolerance %	Nm		EAN-No. 4000896+
6391-25	☐ 9x12	183	143	30	17	22	2	2–25	1.2–14.7	027040
6391-35	☐ 9x12	183	143	30	17	22	2	15–35	8.8–20.6	027057
• Factory preset triggering value as requested										
6391-25V	☐ 9x12	183	143	–	17	22	2	2–25	1.2–14.7	145867
6391-35V	☐ 9x12	183	143	–	17	22	2	15–35	8.8–20.6	145874

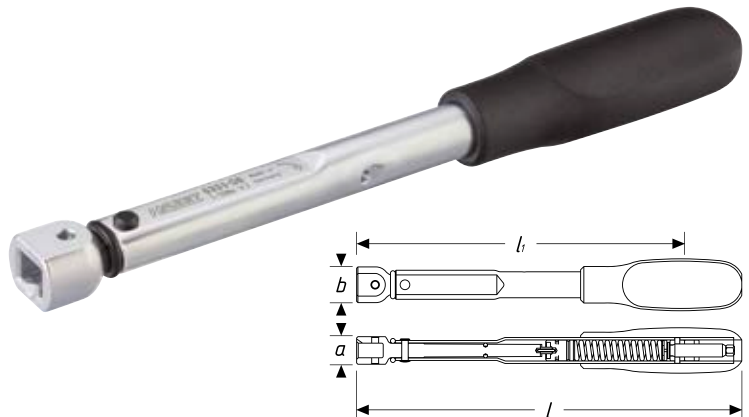


6300 Torque wrench · $\pm 2\%$ accuracy · 5–85 Nm

Made in Germany

- **Accuracy $\pm 2\%$ (6391-10: 6%) of scale value** (in direction of actuation)
Can be used for right-hand and left-hand threads by turning the insert tool
- Plug-and-socket connection to hold insert tools
- **Permanently adjustable value**
- Especially suitable for application in industrial series production
- Setting the desired torque value with adjustment wrench 6399 together with HAZET torque tester 7901 E, 7902 E, 7903 E or any other suitable device
- **All wrenches of this series (HAZET 6391-6392) are without a scale and a signal transmitter**
- With calibration certificate and serial number
- DIN EN ISO 6789-2:2017

(E) 9 x 12



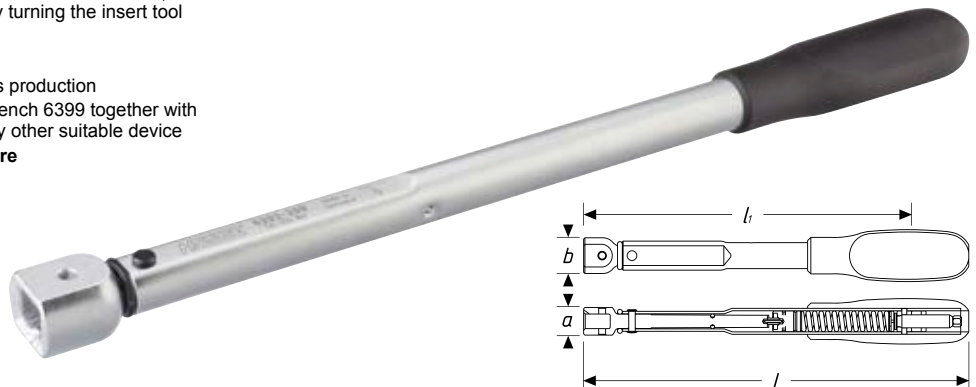
HAZET No.	Output	l mm	l_1 mm	l_2 mm	a mm	b mm	Release accuracy tolerance %	Nm		EAN-No. 4000896+
6391-50	☐ 9x12	241	201	30	17	22	2	5–50	2.2–22.1	027064
6391-85	☐ 9x12	316	276	30	17	22	2	15–85	5.0–28.3	027071
• Factory preset triggering value as requested										
6391-50 V	☐ 9x12	241	201	–	17	22	2	5–50	2.2–22.1	145881
6391-85 V	☐ 9x12	316	276	–	17	22	2	15–85	5.0–28.3	145898

6300 Torque wrench · $\pm 2\%$ accuracy · 50–320 Nm

Made in Germany

- **Accuracy $\pm 2\%$ (6391-10: 6%) of scale value** (in direction of actuation)
Can be used for right-hand and left-hand threads by turning the insert tool
- Plug-and-socket connection to hold insert tools
- **Permanently adjustable value**
- Especially suitable for application in industrial series production
- Setting the desired torque value with adjustment wrench 6399 together with HAZET torque tester 7901 E, 7902 E, 7903 E or any other suitable device
- **All wrenches of this series (HAZET 6391-6392) are without a scale and a signal transmitter**
- With calibration certificate and serial number
- DIN EN ISO 6789-2:2017

(E) 14 x 18



HAZET No.	Output	l mm	l_1 mm	l_2 mm	a mm	b mm	Release accuracy tolerance %	Nm		EAN-No. 4000896+
6392-200	☐ 14x18	401	359	38.5	23	30	2	50–200	12.8–51.4	027118
6392-320	☐ 14x18	631	589	38.5	23	30	2	60–320	9.8–52.0	027125
• Factory preset triggering value as requested										
6392-200 V	☐ 14x18	401	359	–	23	30	2	50–200	12.8–51.4	145904
6392-320 V	☐ 14x18	631	589	–	23	30	2	60–320	9.8–52.0	145911

6399 Adjustment wrench

Made in Germany

- For HAZET torque wrenches 6391 to 6392 (V)



HAZET No.	l mm	EAN-No. 4000896+
6399	167	027170



Insert tools

6396 Tool holder

Made in Germany

• Forged from solid steel

- Plug-and-socket connection to accommodate insert tools
- Without any torque function

9 x 12 14 x 18

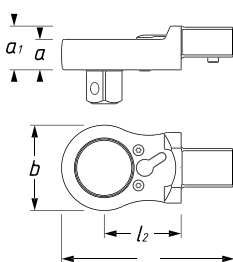


HAZET No.	Output	l mm	EAN-No. 4000896+
6396	□ 9x12	405	027132
6397	□ 14x18	635	027149

6602 Insert reversible ratchet

Made in Germany

- 40 teeth · Operating angle 9°
- Maximum 200 Nm (6602-1) maximum 320 Nm (6604-1)
- Surface: chrome-plated
- DIN 3120, ISO 1174-1



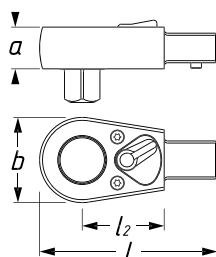
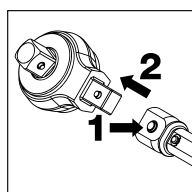
HAZET No.	Drive	Output	l mm	l ₂ mm	a mm	a ₁ mm	b mm	EAN-No. 4000896+
6602-1	■ 14x18	■ 10 = 3/8"	81	36	14.3	20.5	40	179695
6604-1	■ 14x18	■ 12.5 = 1/2"	81	36	14.3	20.5	40	179701

6401-1 Insert reversible ratchet

Made in Germany

- 6401-1 20 teeth · Operating angle 18° – maximum 40 Nm
- 6402-1 30 teeth · Operating angle 12° – maximum 120 Nm
- 6403-1 32 teeth · Operating angle 11.25° – maximum 120 Nm
- 6404-1 32 teeth · Operating angle 11.25° – maximum 300 Nm
- Drop forged
- Surface: chrome-plated
- DIN 3120, ISO 1174-1

(E)

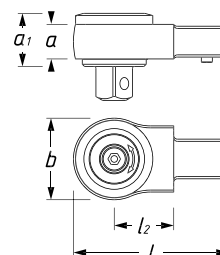
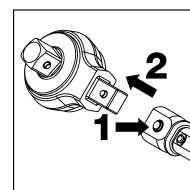


HAZET No.	Drive	Output	l mm	l ₂ mm	a mm	b mm	EAN-No. 4000896+
6401-1	■ 9x12	■ 6.3 = 1/4"	46.5	19.5	9.9	21.8	027439
6402-1	■ 9x12	■ 10 = 3/8"	61	30	15	30	027460
6403-1	■ 9x12	■ 12.5 = 1/2"	74.5	38.5	19.6	40	027521
6404-1	■ 14x18	■ 12.5 = 1/2"	83.5	38.5	19.6	40	027552

6401 Insert reversible ratchet

Made in Germany

- Fine tooth, 72 teeth · Operating angle 5°
- Drop forged
- Surface: chrome-plated
- DIN 3120, ISO 1174-1



HAZET No.	Drive	Output	l mm	l ₂ mm	a mm	a ₁ mm	b mm	EAN-No. 4000896+
6401 N	■ 9x12	■ 6.3 = 1/4"	46	17.5	11	16.5	25	115204
6402	■ 9x12	■ 10 = 3/8"	58.5	26	14.5	22.7	34.5	027453
6403	■ 9x12	■ 12.5 = 1/2"	58.5	26	14.5	22.5	34.5	027514
6404	■ 14x18	■ 12.5 = 1/2"	70.5	27	15.7	24.1	37	027545
6406	■ 14x18	■ 20 = 3/4"	101	44	24	35.6	64	027576

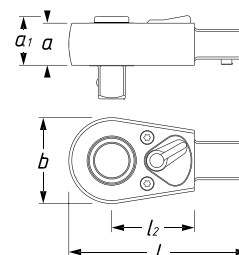
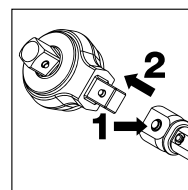
6401 S Insert reversible ratchet

Made in Germany

• Quick-release safety lock

- 6401-1 S 20 teeth · Operating angle 20°
- 6402-1 S 30 teeth · Operating angle 12°
- 6403-1 S 32 teeth · Operating angle 11.25°
- 6404-1 S 32 teeth · Operating angle 11.25°
- Drop forged
- Surface: chrome-plated
- DIN 3120, ISO 1174-1

(E)

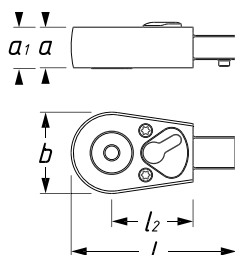
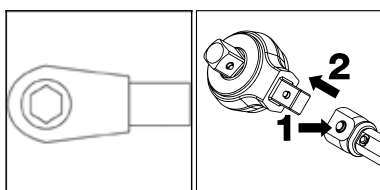


HAZET No.	Drive	Output	l mm	l ₂ mm	a mm	a ₁ mm	b mm	EAN-No. 4000896+
6401-1 S	■ 9x12	■ 6.3 = 1/4"	46.5	19.5	9.9	12.2	21.8	027446
6402-1 S	■ 9x12	■ 10 = 3/8"	61	30	15	17.2	30	027477
6403-1 S	■ 9x12	■ 12.5 = 1/2"	74.5	38.5	19.6	22.7	40	027538
6404-1 S	■ 14x18	■ 12.5 = 1/2"	83.5	38.5	19.6	22.7	40	027569



6408 Insert reversible ratchet for bits

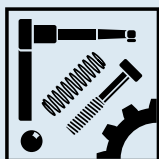
- Made in Germany**
- Screwdriver bit socket
- Drop forged
- Surface: chrome-plated



HAZET No.	Drive	Output	l mm	l_2 mm	a mm	a_1 mm	b mm	EAN-No. 4000896+
6408	9x12	6.3 = 1/4"	46.5	19.5	9.9	11.7	21.8	027583
6408-1	9x12	8 = 5/16"	61	30	15	15.3	30	027590

Wear? – No problem!

- HAZET tools are manufactured to the highest quality. During long intensive loading there is a certain level of wear even for high-quality tools.
- For this reason, there are spare parts and replacement sets available for many of our tools.

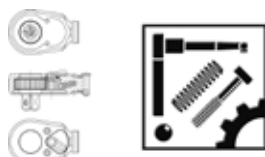


Please also see our spare parts shop
www.hazet.de/ersatzteil-shop

Cost-saving – Sustainable – Resource-saving!
For long-term pleasure with your HAZET tools

8816 Replacement set

Made in Germany



HAZET No.	Drive	Output	l mm	l_2 mm	a mm	b mm	EAN-No. 4000896+
8816 P/6	9x12	6.3 = 1/4"	46.5	19.5	9.9	11.7	027583
8816 P/7 N	9x12	8 = 5/16"	61	30	15	15.3	027590

8816 Replacement set

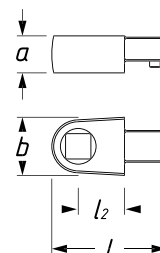
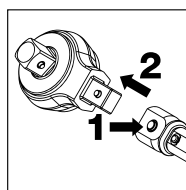
HAZET No.

EAN-No.
4000896+

- Replacement set for shift lever** consisting of:
shift lever · screws · ball · compression spring
For HAZET torque wrench 5107-2 CT · 5107-3 CT · 5108-2 CT · 5108-3 CT
6106-1 CT · 6108-1 CT · 6109-1 CT · 6109-2 CT · 6401-1 S · 6408
146048
- Replacement set for ratchet wheel 6.3 = 1/4"** consisting of:
ratchet wheel · pawl · shift lever · screws · ball · compression spring
For HAZET torque wrench 5107-2 CT · 5107-3 CT · 5108-2 CT · 5108-3 CT
6106-1 CT · 6108-1 CT · 6109-1 CT · 6109-2 CT · 6401-1
111169
- Replacement set for ratchet wheel 6.3 = 1/4"** consisting of:
ratchet wheel with safety lock · pawl · shift lever · screws · ball · compression spring
For 6401-1 S as well as for retrofitting insert reversible ratchets 5107-2 CT · 5107-3 CT · 5108-2 CT · 5108-3 CT
6106-1 CT · 6108-1 CT · 6109-2 CT
111152
- Replacement set for shift lever** consisting of:
shift lever · screws · ball · compression spring · spring washer and circlip
For HAZET insert reversible ratchet 6403-1 · 6403-1 S · 6404-1 · 6404-1 S
070756
- Replacement set for ratchet wheel 12.5 = 1/2"** consisting of:
ratchet wheel · pawl · shift lever · screws · ball · compression spring · spring washer · circlip
For 6403-1 · 6404-1
070749
- Replacement set for ratchet wheel 12.5 = 1/2"** consisting of:
ratchet wheel with safety lock · pawl · shift lever · screws · ball · compression spring · spring washer · circlip
For 6403-1 S · 6404-1 S
070817
- Replacement set for ratchet wheel with safety lock 10 = 3/8"** consisting of:
Ratchet wheel with safety lock · pawl · shift lever · screws · ball · compression spring
For HAZET reversible ratchets 8816 S · 6402-1 S as well as for retrofitting HAZET reversible ratchets 8816 P · 8816 G · 8816 GK · 8816 ST · 6110 CT · 6110-1 CT · 6111-1 CT · 6114-1 CT · 6115-1 CT · 6402-1
048465

6413 Insert tool holder with square drives

Made in Germany



HAZET No.	Drive	Output	l mm	l_2 mm	a mm	b mm	EAN-No. 4000896+
6413-1	9x12	10 = 3/8"	43.5	17.5	14	22	027644
6413-2	10 = 3/8"	6.3 = 1/4"	22	–	–	–	048908
6413-3	10 = 3/8"	10 = 3/8"	25	–	–	–	048892
6413-4	10 = 3/8"	12.5 = 1/2"	30.2	–	–	–	048885



Torque technology

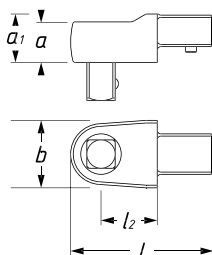
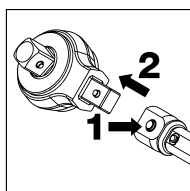
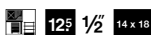
Insert tools



6414 Insert square drives

Made in Germany

- Surface: chrome-plated
- DIN 3120, ISO 1174-1

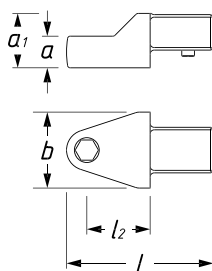
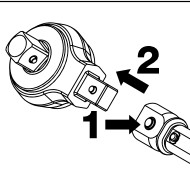


HAZET No.	Drive	Output	l mm	l ₂ mm	a mm	a ₁ mm	b mm	EAN-No. 4000896+
6414	14x18	12.5 = 1/2"	63.5	25	18	21.5	30	027668

6420 Insert tool holder for bits

Made in Germany

- Surface: chrome-plated
- ISO 1173

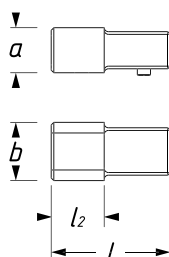
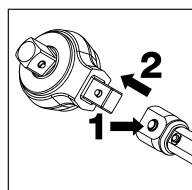


HAZET No.	Drive	Output	l mm	l ₂ mm	a mm	a ₁ mm	b mm	EAN-No. 4000896+
6420 B	9x12	6.3 = 1/4"	40.5	17.5	10	14.5	20	027903
6420 C	9x12	8 = 5/16"	41.5	17.5	12.5	14.5	20	027910
6420 D	14x18	8 = 5/16"	58	25	12.5	21.5	30	027927

6423 Insert adapter

Made in Germany

- Surface: chrome-plated



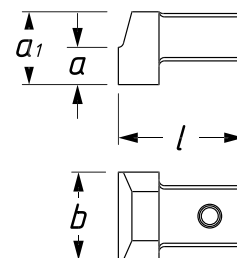
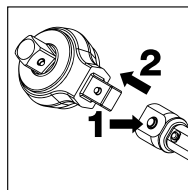
HAZET No.	Drive	Output	l mm	l ₂ mm	a mm	b mm	EAN-No. 4000896+
• Amplifier for square insert 9x12 → 14x18							
6423 C	9x12	14x18	50	34	22.9	30	027934
• Reducer for square insert 14x18 → 9x12							
6423 D	14x18	9x12	45	20	17	22	057559

6430 Blank-end insert

Made in Germany

- Spring, bolt and cover included in delivery

Caution: when welding-on tools, the release torque values may change. Observe effective lengths (see conversion table on page 303)

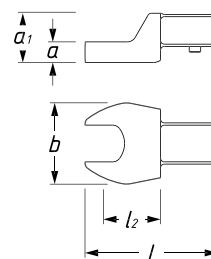
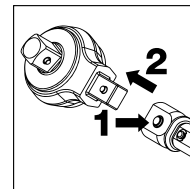


HAZET No.	Drive	l mm	a mm	a ₁ mm	b mm	EAN-No. 4000896+
6430 C	9x12	25	10	14.5	19	027958
6430 D	14x18	38	11	21.5	26	027965

6450 C Insert open-end wrench

Made in Germany

- Surface: chrome-plated



HAZET No.	S mm	Drive	Output	l mm	l ₂ mm	a mm	a ₁ mm	b mm	EAN-No. 4000896+
6450 C- 7	7	9x12	●	36.5	17.5	5.5	14.5	20	028429
6450 C- 8	8	9x12	●	37	17.5	5.5	14.5	21.5	028436
6450 C- 9	9	9x12	●	37.5	17.5	5.5	14.5	23	028443
6450 C-10	10	9x12	●	38	17.5	5.5	14.5	24.5	028320
6450 C-11	11	9x12	●	38.5	17.5	5.5	14.5	26	028337
6450 C-12	12	9x12	●	38.5	17.5	5.5	14.5	27.5	028344
6450 C-13	13	9x12	●	39	17.5	5.5	14.5	29	028351
6450 C-14	14	9x12	●	42	20	7.5	14.5	31	028368
6450 C-15	15	9x12	●	42.5	20	7.5	14.5	33	028375
6450 C-16	16	9x12	●	43	20	7.5	14.5	35	028382
6450 C-17	17	9x12	●	43.5	20	7.5	14.5	37	028399
6450 C-18	18	9x12	●	44	20	7.5	14.5	39	028405
6450 C-19	19	9x12	●	45	20	7.5	14.5	41	028412
6450 D-13	13	14x18	●	56.5	25	7	21.5	30	028450
6450 D-14	14	14x18	●	57	25	7	21.5	32	028467
6450 D-15	15	14x18	●	57.5	25	7	21.5	34	028474
6450 D-16	16	14x18	●	58	25	9	21.5	35.5	028481
6450 D-17	17	14x18	●	58.5	25	9	21.5	37	028498
6450 D-18	18	14x18	●	59	25	9	21.5	39	028504
6450 D-19	19	14x18	●	59.5	25	9	21.5	41	028511
6450 D-21	21	14x18	●	60.5	25	11	21.5	45	028528
6450 D-22	22	14x18	●	61	25	11	21.5	47	028535
6450 D-24	24	14x18	●	62	25	11	21.5	51	028542
6450 D-27	27	14x18	●	68.5	32.5	13	22.5	58.5	028559
6450 D-30	30	14x18	●	70	32.5	13	22.2	63	028566
6450 D-32	32	14x18	●	71.5	32.5	13	22.2	65	028573
6450 D-34	34	14x18	●	73.2	32.5	13	22.2	68.5	050178
6450 D-36	36	14x18	●	70	32.5	13	22.2	67	072507
6450 D-38	38	14x18	●	70	32.5	13	22.2	67	072514
6450 D-41	41	14x18	●	79	40	12.4	22.5	82	028580



6606 D Ratcheting insert box-end wrench

Made in Germany

• Switching function

- 40 teeth · Operating angle 9°
- Max.: 320 Nm
- Drop forged
- Deep-set reversing switch prevents unintentional change-over
- Especially for HAZET torque wrenches 6291-1CT – 6293-1CT
- Extra flat design with deep offset allows application in areas with restricted access
- Surface: chrome-plated

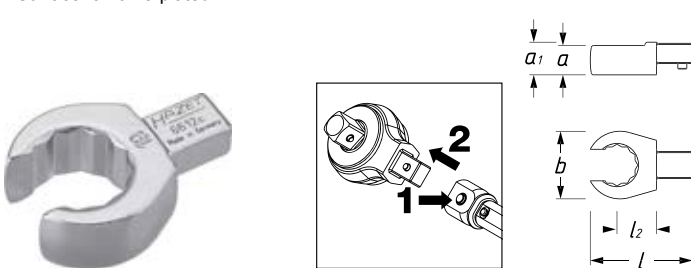


HAZET No.	S mm	Drive	Output	l mm	l ₂ mm	a mm	a ₁ mm	b mm	EAN-No. 4000896+
6606 D-16	16	■ 14x18	●	81	36	14.3	20.5	40	179923
6606 D-17	17	■ 14x18	●	81	36	14.3	20.5	40	179886
6606 D-18	18	■ 14x18	●	81	36	14.3	20.5	40	179893
6606 D-19	19	■ 14x18	●	81	36	14.3	20.5	40	179909
6606 D-21	21	■ 14x18	●	81	36	14.3	20.5	40	179916

6612 C Insert box-end wrench · open

Made in Germany

• Surface: chrome-plated



HAZET No.	S mm	Drive	Output	l mm	l ₂ mm	a mm	a ₁ mm	b mm	EAN-No. 4000896+
6612 C-10	10	■ 9x12	●	42.3	17.5	12	14.5	22	028726
6612 C-11	11	■ 9x12	●	42.8	17.5	12	14.5	22.5	028733
6612 C-12	12	■ 9x12	●	43.4	17.5	12	14.5	24	028740

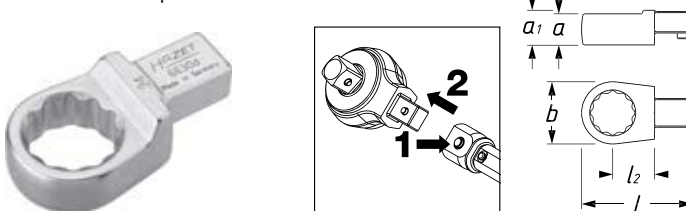
6612 C Insert box-end wrench · open

HAZET No.	S mm	Drive	Output	l mm	l ₂ mm	a mm	a ₁ mm	b mm	EAN-No. 4000896+
6612 C-13	13	■ 9x12	●	43.7	17.5	12	14.5	25	028757
6612 C-14	14	■ 9x12	●	44.4	17.5	13	14.5	27	028764
6612 C-16	16	■ 9x12	●	45.4	17.5	13	14.5	30	028771
6612 C-17	17	■ 9x12	●	45.9	17.5	13	14.5	31.5	028788
6612 C-18	18	■ 9x12	●	46.1	17.5	15	15	33	028795
6612 C-19	19	■ 9x12	●	46.8	17.5	15	15	34.5	028801
6612 C-21	21	■ 9x12	●	48	17.5	15	15	37.5	028818
6612 C-22	22	■ 9x12	●	48.8	17.5	15	15	39	028825

6630 C Insert box-end wrench

Made in Germany

• Surface: chrome-plated



HAZET No.	S mm	Drive	Output	l mm	l ₂ mm	a mm	a ₁ mm	b mm	EAN-No. 4000896+
6630 C- 7	7	■ 9x12	●	40	17.5	8	14.5	20	028955
6630 C- 8	8	■ 9x12	●	40.6	17.5	8	14.5	20	028962
6630 C-10	10	■ 9x12	●	42.1	17.5	8	14.5	20	028832
6630 C-11	11	■ 9x12	●	42.8	17.5	8	14.5	20	028849
6630 C-12	12	■ 9x12	●	43.5	17.5	12	14.5	22	028856
6630 C-13	13	■ 9x12	●	44.3	17.5	12	14.5	22	028863
6630 C-14	14	■ 9x12	●	45	17.5	12	14.5	23	028870
6630 C-15	15	■ 9x12	●	45.5	17.5	12	14.5	24	028887
6630 C-16	16	■ 9x12	●	46.5	17.5	13	14.5	26	028894
6630 C-17	17	■ 9x12	●	47	17.5	13	14.5	27	028900
6630 C-18	18	■ 9x12	●	47.8	17.5	13	14.5	28.5	028917
6630 C-19	19	■ 9x12	●	48.8	17.5	13	14.5	30.5	028924
6630 C-21	21	■ 9x12	●	50	17.5	15	15	33	028931
6630 C-22	22	■ 9x12	●	50.8	17.5	15	15	34.5	028948
6630 D-13	13	■ 14x18	●	60.8	25	12	21.5	30	028979
6630 D-14	14	■ 14x18	●	61.5	25	12	21.5	30	028986
6630 D-15	15	■ 14x18	●	62	25	12	21.5	30	028993
6630 D-16	16	■ 14x18	●	62.9	25	12	21.5	30	029006
6630 D-17	17	■ 14x18	●	63.6	25	12	21.5	30	029013
6630 D-18	18	■ 14x18	●	64.3	25	12	21.5	30	029020
6630 D-19	19	■ 14x18	●	65.3	25	12	21.5	30.5	029037
6630 D-21	21	■ 14x18	●	66.5	25	15	21.5	33	029044
6630 D-22	22	■ 14x18	●	67.3	25	15	21.5	34.5	029051
6630 D-24	24	■ 14x18	●	68.8	25	15	21.5	37.5	029068
6630 D-27	27	■ 14x18	●	76.8	31	17.5	21.5	41.5	029075
6630 D-30	30	■ 14x18	●	78.5	31	17.5	21.5	45	029082
6630 D-32	32	■ 14x18	●	79.8	31	17.5	21.5	47.5	029099
6630 D-34	34	■ 14x18	●	81.3	31	19	21.5	50.5	029105
6630 D-36	36	■ 14x18	●	82.5	31	19	21.5	53	029112
6630 D-41	41	■ 14x18	●	85.5	31	19	21.5	59	029129

Torque testers and accessories

6690 Mechanical angle dial

Made in Germany

• Flexible, magnetic holder for the fixed point

- To be used with operating tools with ■ drive 12.5 = 1/2" (or 20 = 3/4") and tools with □ drive 12.5 = 1/2" (or 20 = 3/4")
- Range 0–360°, graduation 1°, 95 mm ∅



HAZET No.	Drive	Output	EAN-No. 4000896+
6690	□ 12.5 = 1/2"	■ 12.5 = 1/2"	029266
6690-1	□ 20 = 3/4"	■ 20 = 3/4"	029273



Torque technology

Torque testers and accessories



7900 E Torque tester · electronic · 1–25 Nm

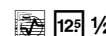
- Measuring range 1–25 Nm (maximum torque)
- Fixed hexagon socket, ● ISO 1173 C-6.3 = 1/4" adapters included and
- Accuracy ± 1 %
- 3 operation modes:
 - Tracking mode (track)
 - Click point detection (first peak)
 - DIAL mode for peak value indication (final peak)
- Delivery includes mains adapter and RS-232C connection cable to computer and/or printer
- Compatible with HAZET testing software 7901 E-D
- Big and easy to read **LED status display** with 3 LED
- Quick wall or table fixation with 4 screws
- Simple handling
- Calibration in Nm, torque units lbf.ft and lbf.in may also be selected
- Possibility to enter target torque setting and percentage tolerance setting
- Including test certificate
- Weight device: 3.28 kg
Weight including case and mains adapter: 4.66 kg
- H 97.5xØ 160 mm



HAZET No.	Drive	Nm	EAN-No. 4000896+
7903 E	● 6.3 = 1/4"	1–25	167425

7900 E Torque tester · electronic · 10–350 Nm

- Measuring range 10–350 Nm (maximum torque)
- Fixed square socket, 12.5 = 1/2"
- Accuracy ± 1 %
- 3 operation modes:
 - Tracking mode (track)
 - Click point detection (first peak)
 - DIAL mode for peak value indication (final peak)
- Delivery includes mains adapter and RS-232C connection cable to computer and/or printer
- Compatible with HAZET testing software 7901 E-D
- Big and easy to read **LED status display** with 3 LED
- Quick wall or table fixation with 4 screws
- Simple handling
- Calibration in Nm, torque units lbf.ft and lbf.in may also be selected
- Possibility to enter target torque setting and percentage tolerance setting
- Including test certificate
- Weight device: 3.28 kg
Weight including case and mains adapter: 4.66 kg
- H 97.5xØ 160 mm



HAZET No.	Drive	Nm	EAN-No. 4000896+
7901 E	□ 12.5 = 1/2"	10–350	140671

7900 E Torque tester · electronic · 100–1000 Nm

- Measuring range 100–1000 Nm (maximum torque)
- Fixed hexagon socket, s 27 mm
- Accuracy ± 1 %
- 3 operation modes:
 - Tracking mode (track)
 - Click point detection (first peak)
 - DIAL mode for peak value indication (final peak)
- Delivery includes mains adapter and RS-232C connection cable to computer and/or printer
- Compatible with HAZET testing software 7901 E-D
- Big and easy to read **LED status display** with 3 LED
- Quick wall or table fixation with 4 screws
- Simple handling
- Calibration in Nm, torque units lbf.ft and lbf.in may also be selected
- Possibility to enter target torque setting and percentage tolerance setting
- Including test certificate
- Weight device: 3.28 kg
Weight including case and mains adapter: 4.66 kg
- H 97.5xØ 160 mm (182 mm including testing hexagon)



HAZET No.	Drive	Nm	EAN-No. 4000896+
7902 E	● 27 mm	100–1000	150229



7900 E Torque testing software

Made in Germany

• For the electronic torque testers 7901 E, 7902 E and 7903 E

- Database (updates will be available) of all current HAZET torque wrenches (whose test values are in the range of 1–1000 Nm) and insert tools included
- Optional expansion of the database to include data of other manufacturers, further release torque wrenches (click-type), insert tool holders, measuring ranges, test values, units, tolerances and standards
- Software for creating user-own certificate layouts and optional integration of company logos
- Language tool included. German and English is already available. By means of the language tool, the user creates the operating surface, tables and designation of boxes in any required language
- Internet update function
- Detailed documentation included

System prerequisite

Operating system: Windows 7® / Windows 8® / Windows 10® (64 Bit)

Memory requirement: minimum 50 MB free hard disk memory

Working memory: min. 256 MB

Ports: 1. USB port for software

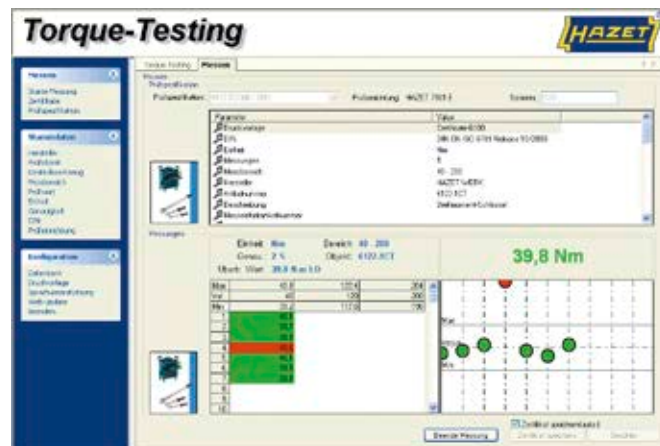
2. ports for test devices

COM port (connecting cable included in delivery of the electronic torque test device)

Graphics resolution: minimum 1024x768

Important:

If the hardware does not have a COM port, the test device can also be connected with an adapter USB to the COM port (RS 232) (not included in delivery)



HAZET
No.

7901 E-D

EAN-No.
4000896+

148202

7920 E Torque calibration unit

Made in Germany

• Modular system with high-quality, replaceable torque sensors

- Application: Calibration of indicating and releasing torque wrenches according to DIN EN ISO 6789-1:2017 and -2:2017

Motor-operated torque calibration unit controlled by integrated PC.

High-quality torque sensors:

- Replaceable torque sensors in 2 accuracy classes determine the torque range:
 - 0.25% – for indicating and setting torque wrenches with an accuracy of $\pm 1\%$ (e.g. for product group 7000 sTAC · 7000 eTAC)
 - 0.50% – for indicating and setting torque wrenches with an accuracy of $\pm 2\%$ (e.g. for product group 6000 CT)

• Quick-change system for nominal size sockets **6.3 1/4 10 3/8 12 1/2 20 3/4 25 1"**

• Automatic sensor recognition

• Extendable arm up to approx. 1.20 m, including height adjustment

• Directions of actuation right/left can be calibrated

• Integrated PC (Windows 10 operating system)

• Connection options for monitor, keyboard and mouse (not included in scope of delivery) as well as remote access via remote desktop

• Software included

– Test stand control

– Measurement data logging

– Calibration certificate, declaration of conformity or combination

– Parts management – HAZET data pool including all

parameters for consideration of uncertainty of measurement

– Tool management

– Online update and remote maintenance service

• Dimensions Length: approx. 1140 mm (1680 mm extended) WidthxHeight: approx. 570x600 mm

• Power supply: 200–250 V / PE-N / 50–60 Hz

• 3 height-adjustable feet for horizontal alignment

• Price on request, delivery time to be coordinated



7920 E-200-1 · -2
7920 E-800-1 · -2



7920 E Torque calibration unit

6.3 1/4" 10 3/8" 12.5 1/2" 20 3/4" 25 1"

HAZET No.	EAN-No. 4000896+
• Torque calibration unit without sensors 7920 E	223756
• Torque sensor for calibration unit 7920 E • 1–200 Nm · accuracy class 0.25 % 7920 E-200-1	219230
• Torque sensor for calibration unit 7920 E • 1–200 Nm · accuracy class 0.50 % 7920 E-200-2	219247
• Torque sensor for calibration unit 7920 E • 60–800 Nm · accuracy class 0.25 % 7920 E-800-1	219254
• Torque sensor for calibration unit 7920 E • 60–800 Nm · accuracy class 0.50 % 7920 E-800-2	219223

SP-10 – 30 HAZET SERVICE for torque wrenches

Made in Germany



All HAZET torque tools are serviceable! Along with repairs, we offer factory tests through to calibration in our own DAkkS calibration laboratory for torque wrenches in the HAZET Service Center. Your local HAZET partner will be happy to advise you on all the services provided by the HAZET Service Center as well as local on-site services.

