





Torque	e technology			12.53	
5000-3 CT	With reversible ratchet	±3%/4%	1–800 Nm	Sea.	308
5000 B-3 CT	Torque wrench for bits	±3%/4%	1–25 Nm	- I - I - I - I - I - I - I - I - I - I	310
5200 CT	With insert square	±3%	2.5–200 Nm	17	310
5000 CLT	With display and reversible ratchet	±4%	20-320 Nm	aint and a	311
5000 KV	With protective insulation, tested to 1000 V	±4%/6%	2 – 120 Nm		283
6000 CT	With reversible ratchet	±2%/4%	1–800 Nm		311
6000 CT	Can be disassembled, with reversible ratchet	±3%/4%	400-2000 Nm		313
6000 CT	US Standard, with reversible ratchet	±3%	5-600 lbf.ft		314
6200 CT	With insert square	±2%/4%	2–500 Nm		315
6000 CT	Torque tool sets			ARRING MUNI	318
7000 sTAC	Electronic, with insert square and reversible ratchet	from ± 1% / ± 1 digit ± 1°	1–1000 Nm	011	327
6000	Torque screwdriver for bits	± 6 % – 15 %	0,4-5,4 Nm	44-14-	322
6000	Torque screwdriver for bits	±5%	0,1–6 Nm		322
6300 CT	With insert square and adjustable fixed value	±2%/6%	1–320 Nm	11	323
	Insert tools		-		325
	Torque testers and accessories				328

2<mark>8</mark>5





## Product overview of HAZET torque wrenches

	H <u>AZET</u> 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 %	125 1/2	10-60 Nm
(6.4).	5111-3 CT	± 3 %	10 3⁄8	20-120 Nm
	5121-3 CT	± 3 %	125 1/2	20-120 Nm
	5122-3 CT	± 3 %	125 1/2	40-200 Nm
	5123-3 CT	± 3 %	125 1/2	60-320 Nm
	5143-3 CT	± 3 %	125 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
en l	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
1	5292-3 CT	± 3 %	14 x 18	40-200 Nm
	5121-2 CLT	±4 %	125 1/2	20-120 Nm
	5122-2 CLT	±4%	125 1/2	40-200 Nm
5. Y.	5123-2 CLT	±4%	125 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%	125 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 <sup>3</sup> /8″	20-120 Nm
¥	6121-1 CT	± 2 %	125 1/2	20-120 Nm
	6122-1 CT	± 2 %	125 1/2	40-200 Nm
	6123-1 CT	±2 %	125 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
Constant of the second se	6145-1 CT	±2 %	20 3⁄4″	300-800 Nm
	6150-1 CT	± 3 %	20 3⁄4″	400-1000 Nm
at a	6160-1 CT	± 3 %	25 1″	600-1600 Nm
92	6170-1 CT	±4 %	25 <b>1</b> ″	800-2000 Nm
	6114-1 CT	± 3 %	10 <sup>3</sup> ⁄8″	5-40 lbf.ft
	6115-1 CT	± 3 %	10 3⁄8″	20-100 lbf.ft
	6127-1 CT	± 3 %	125 1/2"	40-200 lbf.ft
	6128-1 CT	± 3 %	125 1/2"	50-250 lbf.ft
<b>V</b>	6132-1 CT	± 3 %	20 3⁄4″	120-600 lbf.ft





	H <u>AZET</u> No.	Release accuracy		Measuring range
	6280-1 CT	±2%	9 x 12	2-10 Nm
and a start of the	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
112	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
N. N.	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 18 125 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
Canada and C	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
0.2	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 <b>10</b> 3⁄8″	5-60 Nm
	7291-5 sTAC	± 1 % / 1 digit	9 x 12 <b>10</b> 3⁄8″	10-100 Nm
	7292-5 sTAC	± 1 % / 1 digit	14 x 18 125 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
24m- 15m	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
u	6003 CT	± 5 %	6.3 1/4"	100-600 cNm
	6391-10	±6 %	9 x 12	1 – 10 Nm
er	6391-12 (V)	±2 %	9 x 12	2–12 Nm
	6391-25 (V)	± 2 %	9 x 12	2–25 Nm
ST	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

Components and spare parts from page 500 to 509





## Pictogram key

Ь	Width in mm		TRACTION PROFILE 6-point	
а	Height in mm	T	TRACTION PROFILE 12-point	
l	Length in mm	<b>6.3</b> 1⁄4″ <b>6.3</b> 1⁄4″	Nominal size 6.3	
S	Wrench size in mm or inches	10 3/8 10 3/8	Nominal size 10	
بوت mm	TORX <sup>®</sup> Size in mm	125 1/2 125 1/2	Nominal size 12.5	
	Actuating force in kg	20 3⁄4″ 20 3⁄4″	Nominal size 20	
0	For inside hexagon screws	25 <b>1</b> ″ 25 <b>1</b> ″	Nominal size 25	
	For outside hexagon screws		Inside square	
0	For inside <b>TORX</b> ® screws		Outside square	

$\bigcirc$	Inside hexagon
	Outside hexagon
9 x 12	Insert socket 9x12 mm for torque wrenches
14 x 18	Insert socket 14x18 mm for torque wrenches
0	Number of teeth
≮°	Rotation angle
Y	Scale graduation

## The HAZET Service Centre

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

**2** +49(0)2191/792-355 **FAX** +49(0)2191/792-523 e-mail service-center@hazet.de

4. Paket ausre	ichend frankiert an HAZET-WERK • Heinsch	en service-center@nazet	de entresheetsetung bite valständig authälen.	
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1		Narra		1
HAZE	-WERK e-Center	PL2/Orl		-
Gülde	nwerther Bahnhofstraße 25 - 25 r Remscheid	Telefon		1
4263	1.01	Tolofins		-
L			Durch HAZET Service-Cen	ber
- Liefer	schein-Nr.:	20 <b>P</b> 3	auszuhülen Eingangsdatum:	
Defta	m			
Rech	urgsempfänger.			
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-	111-017			
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Au	wahl Artikel-Nr. Serienmummer ")			
1				

- In our specially equipped Service Centre, you can receive the best aftersales service with short response times and the complete HAZET competence.
- In essence, the HAZET Service Centre provides you with the following services:
  - · Repair, adjustment, calibration and certification of HAZET torgue 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





Errors excepted



# 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



DAkkS<sup>1)</sup>

### HAZET DAkkS calibration laboratory

User / Customer (torque wrench)





- <sup>1)</sup> DAkkS: Deutsche Akkreditierungsstelle GmbH (national accreditation body of the Federal Republic of Germany, Berlin)
- <sup>2)</sup> PTB: Physikalisch Technische Bundesanstalt (PTB is the national metrology institute providing scientific and technical services)

Components and spare parts from page 500 to 509





## DAkkS calibration laboratory

### Competence for calibration of torque and rotation angles



- 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	7290-2sTACCAI
5111-3CTCAL	5292-3CTCAL	6111-1CTCAL	6280-1CTCAL	6295-1CTCAL	
5120-3CTCAL		6121-1CTCAL	6282-1CTCAL	7291-1eTACCAL	7291-251AOOAL
5121-3CTCAL	5121-20LICAL	6122-1CTCAL	6281-2CTCAL	7292-1eTACCAL	7292-2STAUGAL
5122-3CTCAL	5122-20LICAL	6123-1CTCAL	6290-1CTCAL	7294-1eTACCAL	7294-2staccal
5123-3CTCAL	5123-2CLICAL	6143-1CTCAL	6291-2CTCAL	7291-2eTACCAL	7295-2sTACCAL
5143-3CTCAL	6106-1CTCAL	6144-1CTCAL	6291-1CTCAL	7292-2eTACCAL	7250-2sTACCAL

· 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.













# **SmarfTAC** 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.



available for:





# 😵 Bluetooth°















## Torque wrenches SYSTEM 6000 CT



Made in Germany

\*) Only models 6121-1 CT (CAL) · 6122-1 CT (CAL) · 6123-1 CT (CAL)



## Quality through and through

## Cutaway view of a HAZET torque wrench 6000 CT

Ratchet wheel* 90 teeth / 4°
Pawl
Sealing ring
Shift lever
Pin No need
Main pipe to turn back!
Ratchet shaft
Turning cube (gives release signal)
Pressure piece
Precision helical compression spring
Scale pipe
Guide balls
Handle with hand guard
Thrust washer
Spindle nut
Threaded spindle
Small adjusting ring
Large adjusting ring
Hexagon nut
Lock spring
Twist lock





## 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
- 15 versions with reversible ratchet: 63 1/4 10 3/6 125 1/2 20 3/4 as well as for screwdriver bits 63/4
- 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
- · HAZET's own Service Centre for best aftersales service







Always the right tool for the right "turn" at the right "moment"!







No need

to turn back!

## 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**

HAZET

- Torque ranges: 2.5-200 Nm
- Accuracy ± 3% of 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 <sup>11</sup>/<sub>1</sub> or <sup>11</sup>/<sub>1</sub> to hold insert tools

### SYSTEM 6200-1 CT

- Torque ranges: 2-500 Nm
- Accuracy ± 2% of 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 <sup>10 x 12</sup> or <sup>11 x 10</sup> to hold insert tools

### **SYSTEM 6300**

- With permanently adjustable value especially suitable for application in industrial series production
- · Without adjustment scale
- Repeat accuracy after 5,000 tightening operations ± 2% (6391-10 ± 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 [1:12] or [1:10] to hold insert tools

## Made in Germany



### Components and spare parts from page 500 to 509

300 Errors excepted

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





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

MDE = Torque to be selected

Insert tools

- MDV = Prescribed torque
- lj = Standard length adjustment with adjusting tool
- $l_1$  = Effective length of torque wrench
- $l_2$  = Gauge dimension of adjusting tool
- $l_{W}$  = Gauge dimension of extended insert tool holder

Formula: Torque correction factor for change in effective length

HAZET torque wrenches are adjusted/calibrated with the  $_{\pi}l_{2}$  insert dimensions". If other insert tools are used, then the formula must be observed.

#### Dimensions of the various HAZET torque wrenches:







H <u>AZET</u> No.	l <sub>1</sub> mm	H <u>AZET</u> No.	l <sub>1</sub> mm
6391-10 (V)	102	6391- 50 (V)	201
6391-12 (V)	102	6391- 85 (V)	276
6391-25 (V)	143	6392-200 (V)	359
6391-35 (V)	143	6392-320 (V)	589



## Torque screwdrivers

### Fine feeling – for the smallest of torque values

- Application with standard <sup>(\*)</sup> bits (e.g. HAZET 2204 to 2225) as well as by using the 2304 adapter with <sup>(\*)</sup> <sup>1/4</sup> sockets
- Torque ranges: 0.1-6 Nm
- Accuracy (of scale value)  $\pm$  5% (6002 CT and 6003 CT) or  $\pm6-15\%$  for 6001 series







With serial number and calibration certificate

## 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









## Torque wrenches SYSTEM 5000 KV

### With protective insulation - for safe application up to 1000 volts







## Conversion

### Conversion factors of torque values

#### Conversion formula:

Given unit x factor = Desired unit

Example:

Conversion from: 20 lbf.ft to Nm 20x1.356 = 27.12 Nm

Given	Desired unit							
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 reached the set torque
  - · audibly by clicking,
  - · palpably by automatic close-gap release
- 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 of 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
   = workflow1,
   tools marked with green
   = workflow 2





3 coloured coding rings for personalisation or identifying workflows

Made in Germany





## 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)





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

			- Ta
	P		B
E E		HAZET	•
	<b>4</b>		

#### **Twist lock**

= Ready for work / usable





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

	_					F	Pre-loading	g force (kN	I)			Т	ightening	torque (Nn	n)	
hread size	/rench size		nsert tools				Strengt	h class					Strengt	h class		
F	\$		_		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 22 x 2.50	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 27 x 3.00	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 42 x 4.50	65	-	-	-	197.407	246.758	394.813	526.417	740.275	888.329	1519	1899	3038	4050	5696	6835
M 45 x 4.50	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 60 x 5.50	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 68×6.00	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

7	٩					F	Pre-loading	g force (kN	1)			т	ightening	torque (Nr	n)	
hrea	/renc size		Insert to ols				Strengt	th class					Strengt	h class		
F	5		_		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 22 x 1.50	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 returned to you with a test certificate.



## HAZET SERVICE for torque wrenches and pneumatic tools

All HAZET torque tools and pneumatic 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

#### SYSTEM 5000 CT





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SYSTEM 5000 CT

#### 5000-3 CT

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



HAZE

#### 6.3 1⁄4″ 10 3⁄8″ 125 1⁄2″ 20 3⁄4″ (E)

H <u>AZET</u> No.	Output	l mm	a mm	<b>b</b>	Release accuracy tolerance %	Nm	Mm		EAN-No. 4000896+	
For working on r	notorcycles, bicycles	and tyre pres	ssure contro	l systems						
5107-3 CT	■ 6.3 = <sup>1</sup> ⁄4″	234	10.2	24	4	1–9	0.1	0.6-5.5	218875	
• For working on r	notorcycles and bicy	cles								
5108-3 CT	■ 6.3 = <sup>1</sup> ⁄4″	234	10.2	24	3	2.5-25	0.25	1.4-15.3	218882	
5110-3 CT	■ 10 = ¾″	320	14.5	32	3	10-60	0.5	3.9-25.0	218899	
Extra short designed	gn – compact									
<ul> <li>Specifically also</li> </ul>	for commercial vehic	cles								
5120-3 CT	■ 12.5 = ½″	320	14.5	32	3	10-60	0.5	3.9-25.0	218905	
Slim ratchet hea	d – ideally suited for	use on motor	rcycles							
5111-3 CT	■ 10 = <sup>3</sup> ⁄8″	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 (1/2") 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) of who to m24 (property class 5.0) with restricted access, e.g. for hange of machine sciew 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 = <sup>3</sup> ⁄4″	1271	28.5	64	3	300-800	2.5	26.2-71.0	218929				
Torque wrench wit	th DAkkS calibrat	ion certificat	e										
5107-3 CT CAL	■ 6.3 = <sup>1</sup> ⁄4″	234	10.2	24	4	1–9	0.1	0.6-5.5	243105				
5108-3 CT CAL	■ 6.3 = <sup>1</sup> ⁄4″	234	10.2	24	3	2.5-25	0.25	1.4-15.3	243129				
5110-3 CT CAL	■ 10 = ¾″	320	14.5	32	3	10-60	0.25	3.9-25.0	243136				
5111-3 CT CAL	■ 10 = ¾″	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 = <sup>3</sup> ⁄4″	1271	28.5	64	3	300-800	2.5	26.2-71.0	243204				





SYSTEM 5000 CT



6.3 1/4"

#### Torque wrench · SYSTEM 5000B-3CT (with reversible ratchet for screwdriver bits) · 5000 B-3 CT ±3 / 4% accuracy · 1-25 Nm

🛚 Made in Germany

- · User-friendly reversible ratchet for bits
- Accuracy ± 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  $\cdot$  plastic attached parts fairings of motorcycles  $\cdot$  scooters  $\cdot$  bicycles
- DIN EN ISO 6789-2:2017



H <u>AZET</u> No.	Output	l mm	a	b	Release accuracy tolerance %	Nm	Nm 🖌		EAN-No. 4000896+	
5107 B-3 CT	○ 6.3 = ¼″	234	10.2	24	4	1–9	0.1	0.6-5.5	244584	
5108 B-3 CT	○ 6.3 = ¼″	234	10.2	24	3	2.5-25	0.25	1.4-15.3	244591	

#### 5200-3 CT Torque wrench · SYSTEM 5200-3CT (with insert square) · ±3% accuracy · 10-200 Nm

💳 Made in Germany					9 x 12 14 x 18 (E								
<ul> <li>Accuracy ± 3% of the scale value (in direction of actuation) Can be used for right-hand and left-hand threads by turning the insert tool</li> <li>Safety: <ul> <li>Haptic (close-gap release)</li> <li>Audible (,click" sound)</li> </ul> </li> <li>Designed for rough workshop use</li> <li>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</li> <li>Optimised sealing ring to protect against debris</li> <li>Handle with better grip for easier power transmission</li> <li>Adjustment aid with detent points for optimised operator guidance ensures safe and fast adjustment of the desired torque value by turning the handle</li> <li>Safe locking of the setting values by latching function on the rotary assembly</li> <li>Rotary assembly in triangular form prevents uncontrolled rolling</li> <li>Lock symbols indicate the respective locking status</li> <li>Can be attached to the cable loop through openings on the locking rotary assembly</li> <li>Easy-to-read, high-contrast scale</li> <li>Permanent readability due to laser marking on the scale bush</li> <li>With calibration certificate and serial number</li> </ul>													
<ul> <li>Permanent readability due to laser marking on the s</li> <li>With calibration certificate and serial number</li> <li>Delivery in sturdy Hexa plastic box</li> <li>DIN EN ISO 6789-2:2017</li> </ul>	scale bush												
HAZET Output <i>l l</i>	l₂ a	Ь	Release accuracy	Nm	Nm	kg	EAN-No.						
	10.E 17	mm		0 5 05	0.05	12 14 2	220200						
5200-3 CT D 9X 12 218 1/2	19.5 17	22	<u> </u>	2.0-25	0.20	1.3-14.3	239290						
<b>5290-3 CT</b> 14 y 18 484 422	38.5 22	30	<u></u> న	40-200	1	89_466	220904						
Torque wrench with DAkkS calibration certificat	٥ <u>.</u> ٥ ک	00	0	40-200	1	0.0-+0.0	220011						

□9x12

□9x12

□ 14x18

218

291

484

172

245

422

19.5

38.5

30

17

17

23

22

22 30

3

3

2.5 - 25

10-60

40-200

0.25

0.5

1

5280-3 CT CAL

5290-3 CT CAL

5292-3 CT CAL

1.3–14.3

3.7-23.4

8.9-46.6

243211

243228

243235



SYSTEM 5000 CLT



125 1⁄2 E

#### SYSTEM 5000 CLT

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

- 💳 Made in Germany
- Click-Lens-Type with value readout in the display guarantees security for the user
- 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





H <u>AZET</u> No.	Output	l mm	a mm	b	Release accuracy tolerance %	Nm	∑ Nm	kg □1))▼)	EAN-No. 4000896+		
5121-2 CLT	■ 12.5 = ½″	435	19.6	44	4	20-120	1	5.9-37.0	104215		
5122-2 CLT	■ 12.5 = ½"	545	19.6	44	4	40-200	1	9.0-47.4	104192		
5123-2 CLT	■ 12.5 = ½″	660	19.6	44	4	60-320	2	10.8-59.4	104222		
Torque wrench with DAkkS calibration certificate											
5121-2 CLT CAL	■ 12.5 = ½″	435	19.6	44	4	20-120	1	5.9-37.0	243242		
5122-2 CLT CAL	■ 12.5 = ½"	545	19.6	44	4	40-200	1	9.0-47.4	243259		
5123-2 CLT CAL	■ 12.5 = ½"	660	19.6	44	4	60-320	2	10.8-59.4	243266		

#### SYSTEM 6000 CT

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

#### 💳 Made in Germany

- 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 (6106-1CT ± 4%) (in direction of actuation for right-hand tightening) For left-hand tightening, use our torque wrenches with insert tool
- Application: engines, gearboxes, machinery, industry, model making
- With calibration certificate and serial number
- DIN EN ISO 6789-2:2017, DIN 3120, ISO 1174-1







6.3 1⁄4″ (E)

12



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

H <u>AZET</u> No.	Output	l mm	a mm	<u></u> mm	Release accuracy tolerance %	Nm	Mm		EAN-No. 4000896+	
6106-1 CT	■ 6.3 = ¼″	197	10.2	24	4	1–6	0.1	0.7-4.4	173167	
6108-1 CT	■ 6.3 = ¼″	198	10.2	24	2	2-10	0.2	1.4-7.3	062218	
6109-2 CT <sup>1)</sup>	■ 6.3 = ¼″	256	10.2	24	2	4-40	0.4	2.0-21.4	080564	
Torque wrench with	DAkkS calibratio	on certificate	l.							
6106-1 CT CAL	■ 6.3 = <sup>1</sup> ⁄4″	197	10.2	24	4	1–6	0.1	0.7-4.4	192892	
6108-1 CT CAL	■ 6.3 = <sup>1</sup> ⁄4″	198	10.2	24	2	2-10	0.2	1.4-7.3	192908	
6109-2 CT CAL <sup>1)</sup>	■ 6.3 = <sup>1</sup> ⁄4"	256	10.2	24	2	4-40	0.4	2.0-21.4	193318	



# Torque technology SYSTEM 6000 CT

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



💻 Made in Germ	any						HD		25 1/2 20 3/4 🚺 E
Accuracy ± 2% of the second seco	of the scale value (i	n direction of	actuation fo	or right-hand	tightening)				
For left-hand tight	ening, use our torqu	e wrenches w	ith insert to	ol					
HiPer fine-tooth	reversible ratchet i	n 6121-1CT ·	6122-1CT ·	6123-1CT (	90 teeth · 4° operat	ing angle)			
<ul> <li>High-precision pre</li> </ul>	emium torque tools -	- for the highe	st demands	5					
• Hard chrome-pla	ited steel tube – slim	i, but very stu	rdy and we	ar-resistant					
Secure storage in	safe box with displa	iy window							
Satety:     Hantic (close-ga	an release)								
<ul> <li>Audible ("click" s</li> </ul>	sound)								
<ul> <li>User-friendly reve</li> </ul>	rsible ratchet								
Service-friendly	(do-it-yourself repair	sets for ratch	ets availabl	le)					
<ul> <li>Integrated shift lev</li> </ul>	ver								
<ul> <li>Easy and safe adj</li> </ul>	justment of the desir	ed torque valu	ue by turnin	g the handle	9				1000
<ul> <li>Knob for additional</li> </ul>	ally locking the set va	alue							CONTRACTOR OF
<ul> <li>Ergonomically sha</li> </ul>	aped handle with col	lar reduces t	he risk of s	lipping-off	and injury			-	
<ul> <li>Accuracy – fine so</li> </ul>	cale graduation								
With calibration ce	ertificate and serial n	lumber						1 mm 1 mm	
Surface: hard chro	ome plated	00 1171 1							
• DIN EN ISO 6789	-2:2017, DIN 3120,	ISO 1174-1					3-1-		
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H <u>AZET</u> No	Output	1	a	Ь	Release accuracy	Nm	Nm Nm	kġ ▼	EAN-No. 4000896+
6440.4 CT	■ 10 - 34″	225	14 5	20		F 60	0.5	10.247	005000
6110-1 CT	■ 10 = %8 ■ 10 = 36″	335	14.5	32	2	5-60	0.5	1.9-24.7	025022
6121 4 CT	■ 10 = %8 ■ 10 5 - 14"	309	14.0	JZ	2	20-120	1	0.1-42.4	025077
6121-1 CT	■ 12.3 = 72 ■ 12.5 = 16"	437 547	10.6	44	2	20-120	1	0.0-37.4	025220
6122-1 CT	■ 12.5 = ½ ■ 12.5 = ½	661	19.0	44	2	60-320	2	10.8-50.6	025200
· 2 component ha			13.0		2	00-320	۷	10.0-33.0	020007
2-component na	andle for improved to								
Simplified locking     Viewing windows	for adjusting the to	rque value							
• A coloured codim	a rings (red vollow	areen blocking	for marking	e in the cost	of nerconalization	or energial world	0.14/5		
	g iiiigə (ieu, yellow, ■ 20 – 3/#	000	nor marking		o personalisation		0.00	14 5 50 0	025466
6143-1 CT	$20 = \frac{3}{4}$	802	28.5	64	2	100-400	2.5	14.5-59.2	025406
6144-1 CT	$20 = \frac{3}{4}$	1040	28.5	64	2	200-500	2.5	21.0-54.0	025565
0140-1 CI		1203	20.0	04	۷	300-000	2.0	20.9-70.2	020000
Iorque wrench w	ALL DAKKS Calibrat	ion certificate	•						1000 ( -
6110-1 CT CAL	■ 10 = ¾″	335	14.5	32	2	5-60	0.5	1.9-24.7	192915
6111-1 CT CAL	■ 10 = %" ■ 10 = 1/"	389	14.5	32	2	20-120	1	6.7-42.4	193011
6121-1 CT CAL	■ 12.5 = ½" ■ 10.5 = 1/#	435	19.0	44	2	20-120	1	0.0-37.4	193028
6122-1 CT CAL	■ 12.5 = ½" ■ 12.5 = 1/#	543	19.6	44	2	40-200	1	9.0-47.5	193233
0123-TOTCAL	12.5 = 1/2	609	19.0	44	2	00-320	2	10.0-09.0	195240
Iorque wrench w	hth DAkkS calibrat	ion certificate	9						
2-component ha	andle for improved f	eel							
Simplified locking	for adjusting the to	rque value							
Viewing window	or visual checking o		for mortile	o in the se	of porcessellesting	or openial work of	011/0		
• 4 coloured coding	g rings (red, yellow,	green, black)	or marking	s in the case	e or personalisation	or special workf	ows	44 5 50 0	400000
6143-1 CT CAL	$= 20 = \frac{3}{4''}$	802	28.5	64	2	100-400	2.5	14.5-59.2	192922
6144-1 CT CAL	$= 20 = \frac{94^{\circ}}{4}$	1040	20.0 29 F	64	2	200-500	2.5	21.0-04.0	193035
0140-1010AL	20 - 74	1200	20.0	04	2	300-000	2.0	20.9-10.2	190042
312 -	aveante -						Componente -	nd onoro norte f	rom page 500 to 500
VIA Errors	excepted						somponents a	nu spare parts f	10111 page 300 to 309



SYSTEM 6000 CT

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



#### Made in Germany 20 ¾ 25 **1**″ 🕑 · For highest torque values • Accuracy ± 3% of the scale value (6170-1CT ± 4%) (in direction of actuation for right-hand tightening) For left-hand tightening, use our torque wrenches with insert tool · For industrial climbers • Application on wind turbines, dockyards, in the aviation industry and heavy industry, on commercial vehicles etc. • To be disassembled in two parts (6170-1CT: 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) · 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 YouTube Clip CE+ 1) Calibration according to company standards Release accuracy H<u>AZET</u> Ь Kg TINT 1 а Nm אל Nm EAN-No. 4000896-Output tolerance % 1000 Nm torque wrench Weight only about 10 kg Actuating force only 590 N (60 kg) at 1000 Nm · Length of ratchet shaft: 885 mm, handle: 969 mm 3 5 6150-1 CT $20 = \frac{3}{4''}$ 1789 36 77 400-1000 24.2-61.0 141067 1600 Nm torque wrench Weight only about 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 3 600-1600 5 26.1-70.1 155316 77 2000 Nm torque wrench Weight only about 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" 36 77 4 800-2000 6 27.9-70.1 177776 3033 Torque wrench with DAkkS calibration certificate 6150-1 CT CAL 1) ■ 20 = <sup>3</sup>⁄<sub>4</sub>" 400-1000 24.2-61.0 193059 1789 36 77 5 6160-1 CT CAL 1) 25 = 1" 2455 36 77 3 600-1600 5 26.1-70.1 193066 313 Components and spare parts from page 500 to 509 Errors excepted



SYSTEM 6000 CT



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

- Made in Germany
- · According to US standards
- Scale graduation in Ibf.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)
- · Easy and safe adjustment of the desired torque value by turning the handle
- HiPer fine-tooth reversible ratchet in 6127-1CT (90 teeth · 4° operating angle)
- Knob for additionally locking the set value
- · 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





H <u>AZET</u> No.	Output	l mm	<b>a</b> mm	Ь	Release accuracy tolerance %	lbf.ft.	Nm	Hbf.ft		EAN-No. 4000896+	
6114-1 CT	■ 10 = ¾″	333	14.5	32	3	5-40	6.8-54.2	0.5	2.6-21.8	078424	
6115-1 CT	■ 10 = ¾″	390	14.5	32	3	20-100	27.1-135.6	0.5	9.1-48.2	025084	
6127-1 CT	■ 12.5 = ½"	545	19.6	44	3	40-200	54.2-271.2	1	12.3-64.6	025381	
6128-1 CT	■ 12.5 = ½"	660	19.6	44	3	50-250	67.8-339	2	12.2-62.6	076116	
• 2-compone	nt handle for imp	roved 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

■ 20 = ¾″ 120-600 162.7-813.5 2 14.0-71.6 078455 6132-1 CT 1284 28.5 64 3





SYSTEM 6000 CT



#### 6200-1 CT Torque wrench · SYSTEM 6000CT · ± 2% accuracy · 2-40 Nm

#### **=** Made in Germany

- · Plug 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)
- · 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



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<sup>1)</sup> 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 <sub>1</sub> mm	l <sub>2</sub> mm	<b>a</b> mm	Ь	Release accuracy tolerance %	Nm	∑ Nm		EAN-No. 4000896+	
6280-1 CT	🗆 9 x 12	181	141	19.5	17	22	2	2-10	0.2	1.3-6.6	026005	
6282-1 CT <sup>1)</sup>	🗆 9 x 12	240	200	19.5	17	22	2	4-40	0.4	1.9-19.8	080540	
Torque wrench with DAkkS calibration certificate												
6280-1 CT CAL	🗆 9 x 12	181	141	19.5	17	22	2	2-10	0.2	1.3-6.6	193073	
6282-1 CT CAL <sup>1)</sup>	□ 9x12	240	200	19.5	17	22	2	4-40	0.4	1.9-19.8	193080	

#### 6200-1 CT Torque wrench · SYSTEM 6000CT · ±4% accuracy · 5–13 Nm

#### Made in Germany

#### · Extra short construction for areas with restricted access

- · Plug connection to hold insert tools
- Accuracy ± 4% 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
- · Easy and safe adjustment of the desired torque value by turning the handle · Surface: hard chrome plated
- DIN EN ISO 6789-2:2017



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HAZET No.	Output	1 mm	[1 mm	<i>l</i> 2 mm	a	Ь	Release accuracy tolerance %	Nm	∑ Nm		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 with 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		



9 x 12 E

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SYSTEM 6000 CT



9 x 12 14 x 18 E

#### 6200-1 CT Torque wrench · SYSTEM 6000CT · ± 2% accuracy · 5-320 Nm

#### Made in Germany

- Plug 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)
- · With calibration certificate and serial number
- ${\boldsymbol{\cdot}}$  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
- Vicenti Altrate



H <u>AZET</u> No.	Output	l mm	[1 mm	l <sub>2</sub> mm	<b>a</b> mm	b	Release accuracy tolerance %	Nm	Mm		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	🗀 14 x 18	401	330	38.5	23	30	2	20-120	1	5.5-34.5	026074	
6292-1 CT	🗆 14 x 18	511	440	38.5	23	30	2	40-200	1	8.5-44.8	026135	
6293-1 CT	🗆 14 x 18	625	554	38.5	23	30	2	60-320	2	10.3-56.8	026173	
Torque wrench	vith DAkkS cal	ibration ce	ertificate									
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	🗀 14 x 18	401	330	38.5	23	30	2	20-120	1	5.5-34.5	193264	
6292-1 CT CAL	🗆 14 x 18	511	440	38.5	23	30	2	40-200	1	8.5-44.8	193271	
6293-1 CT CAL	🗆 14 x 18	625	554	38.5	23	30	2	60-320	2	10.3-56.8	193288	





SYSTEM 6000 CT



14 x 18 E

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



- Plug 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)
- · 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





H <u>AZET</u> No.	Output	l mm	[1 mm	<i>1</i> 2 mm	b	Release accuracy tolerance %	Nm	Mm		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 with	th DAkkS calib	oration cert	ificate								
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	





SYSTEM 6000 CT







# Torque technology SYSTEM 6000 CT



6100 Replacement set		6100 Replacement set	
— Made in Germany	© ©		
HAZET No.	EAN-No. 4000896+	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 $\rightarrow$ 6132-1CT 6144-1CT · 6145-1CT · 6150-1CT · 6160-1CT · 6170-1CT 6243-1CT · 6244-1CT · 6245-1CT · 6146-1CT · 6246-1CT 6294-1CT · 6295-1CT · 6296-1CT	· 6143-1CT ·	Replacement set for ratchet wheel 6.3 = ¼" ■ consisting ratchet wheel · pawl · shift lever · screws · ball · compressic For HAZET torque wrench 5107-2CT · 5107-3CT · 5108-2C 6106-1CT · 6108-1CT · 6109-1CT · 6109-2CT · 6401-1 6401/7	of: on spring CT • 5108-3CT 111169
6144-02/3	192557	<ul> <li>Replacement set for ratchet wheel 6.3 = 1/4" Consisting ratchet wheel with safety lock - pawl - shift lever - screws</li> </ul>	i of: • hall • compression
• Replacement set for shift lever consisting of: shift lever · screws · ball · compression spring For HAZET reversible ratchet 1016 · 1016/2 For HAZET torque wrench 5143-3CT · 5145-3CT · 6132-1CT 6143-1CT · 6144CT · 6144-1CT · 6145CT · 6145-1CT · 6146	· 6143CT · -1CT	spring For 6401-1S as well as for <b>retrofitting</b> insert reversible ratchets 5107-2CT · 5107-3CT · 5108-2CT · 5108-3CT 6106-1CT · 6108-1CT · 6109-2CT 6401-1S/7	111152
<ul> <li>1016/6</li> <li>Replacement set for ratchet wheel 20 = 34" ■ consisting of ratchet wheel · pawl · shift lever · screws · ball · compression</li> </ul>	001972 f: spring	Replacement set for shift lever consisting of: shift lever · screws · ball · compression spring · spring wash For HAZET insert reversible ratchet 6403-1 · 6403-1S · 640	her and circlip )4-1 · 6404-1S
For HAZET reversible ratchet 1016 · 1016/2 For HAZET torque wrench 5145-3CT · 6132-1CT · 6143CT · 6143-1CT · 6144CT · 6144-1CT · 6145CT · 6145-1CT · 6146 1016/8N	-1CT 001989	<ul> <li>6403-1/7</li> <li>Replacement set for ratchet wheel 12.5 = 1/2" ■ consistin ratchet wheel · pawl · shift lever · screws · ball · compression washer · circlip</li> </ul>	070756 ig of: on spring · spring
Replacement set for shift lever consisting of: shift lever · screws · ball · compression spring		For 6403-1 · 6404-1 6403-1/9	070749
For HAZET reversible ratchet 1116 For HAZET torque wrench 6150-1CT · 6160-1CT · 6170-1CT · 7250-2 sTAC · 7250-5 sTAC	002229	<ul> <li>Replacement set for ratchet wheel 12.5 = ½" Consisting ratchet wheel with safety lock · pawl · shift lever · screws spring · spring washer · circlip</li> </ul>	g of: • ball · compression
• Replacement set for ratchet wheel 25 = 1" Consisting of:	003226	For 6403-1S · 6404-1S	070817
shift lever · screws · ball · compression spring · pawl · ratchel For HAZET reversible ratchet 1116 For HAZET torque wrench 6160-1CT · 6170-1CT	003235	Replacement set for twist lock consisting of: lock spring · twist lock with 2 headless screws For HAZET torque wrench 6010-1CT · 6110-1CT · 6114-1C	CT · 6290-1CT
Penlacement set for shift lever consisting of:	003235	6110-27	025053
For HAZET reversible ratchet 8816G · 8816GK · 8816P · 881 916K · 2264-1 For HAZET torque wrench 5110-2CT · 5120-2CT · 5110-3CT 5120-3CT 6110CT · 6110-1CT · 6111-1CT 6114-1CT · 6115-1CT 6402-1 · 6402-1S · 6408-1	6S · 8816ST · 5111-3CT ·	Iock spring         twist lock with 2 headless screws           For HAZET torque wrench 5121-2CLT · 5122-2CLT · 5123-           6021-1CT · 6022-1CT · 6023-1CT           6111-1CT · 6115-1CT · 6121-1CT · 6122-1CT · 6123-1CT · 6128-1CT           6128-1CT           6291-1CT · 6292-1CT · 6293-1CT · 6722TAC · 6291-2CT           6129-277	2CLT · 5128-2CLT 6127-1CT · 025299
8816 P/6	144617	Replacement set for visual signal transmitter consisting	of:
• Replacement set for ratchet wheel 10 = 3⁄4" ■ consisting of ratchet wheel · pawl · shift lever · screws · ball · compression For HAZET reversible ratchet 8816G · 8816GK · 8816P · 881 For HAZET torque wrench 5110-2CT · 5110-3CT · 5111-3CT 6110CT · 6110-1CT · 6111-1CT 6114-1CT · 6115-1CT · 6402-1	f: spring I6ST	red button · compression spring · housing · black · pin · scre For HAZET torque wrench 6021-1CT · 6022-1CT · 6023-1C 6110CT · 6110-1CT · 6111-1CT 6114-1CT · 6115-1CT · 6121CT · 6121-1CT · 6122CT · 6122-1CT · 6123CT · 6123-1CT · 6121-1CT · 6122CT · 6128-1CT · 6291-1CT · 6291-2CT · 6290-1CT · 6291-1CT · 6292-1CT · 6293-1CT	∍w ≿T
8816 P/7 N	042234	6122-29	025305
Replacement set for shift lever · complete 12.5 = ½ ■ co ratchet wheel · pawl · shift lever · screws · ball · compression washer · circlip For HAZET torque wrench 5121-2CT · 5122-2CT · 5123-2CT 5121-3CT · 5122-3CT · 5123-3CT 5121-2CLT · 5122-2CLT · 5123-2CLT · 5128-2CLT 5122ST-1 6121CT · 6122CT · 6123CT	spring · spring	Replacement set for shift lever consisting of: shift lever · screws · ball · compression spring · spring wash For HAZET torque wrench 5121-2CLT · 5121-2CT · 5121-3 5122-2CLT · 5122-2CT · 5122-3CT · 51228-7L1 5123-2CLT · 5123-2CT · 5123-3CT · 5128-2CLT 6121-1CT · 61221CT · 6122-1CT · 6122CT · 6123-1CT · 6123CT · 6127-1CT · 6128-1CT · 6722TAC	ıer ∙ circlip CT
6121-1CT · 6122-1CT · 6123-1CT · 6127-1CT · 6128-1CT 6722TAC		6122/7	025329
6122/9 N	025343	replaceable: $\blacksquare 20 = 34^{\circ}$	
• Replacement set for ratchet wheel 12.5 = ½" ■ consisting ratchet wheel · pawl · shift lever · screws · ball · compression For torque wrench HAZET 5120-2CT · 5120-3CT	of: spring	Hildee year → End Z004     For HAZET torque wrench 6132-1CT · 6143CT · 6143-1CT     6144CT · 6144-1CT     6145CT · 6145-1CT · 6145-1CT	
5120/7 • Poplacement set for retable wheel 40 $E = 147$ = constants	235490	6143-01	111190
ratchet wheel · pawl · shift lever · screws · ball · compression For torque wrench HAZET 5143-3CT 5143/8 • Replacement set for ratchet wheel 20 = 3/4"	237142 5.	Replacement set for twist lock consisting of: twist lock · lock spring and cylinder screw For HAZET torque wrench model year → 2013 6132-1CT · 6144-1CT · 6145-1CT · 6150-1CT · 6160-1CT · 6170-1CT 6243-1CT · 6244-1CT · 6245-1CT · 6146-1CT · 6246-1CT, 6295-1CT · 6295-1CT · 6295-1CT	6143-1CT ·
For 6150-1CT · 7250-2 sTAC · 7250-5 sTAC		6144-01/3	025527
6150/8  • Replacement set for shift lever consisting of: shift lever · screws · ball · compression spring For HAZET torque wrench 5107-2CT · 5107-3CT · 5108-2CT 6106-1CT · 6109-1CT · 6109-2CT · 6401-1 · 6401	151431 - · 5108-3CT 1-1S · 6408	Reversible ratchet with screw complete replaceable: ■ 20 = 3/4" model year 2005 → For HAZET torque wrench 5145-3CT 6132-1CT · 6144CT · 6144-1CT	
6401-1/6	146048	6145CT · 6145-1CT · 6146-1CT	111206



SYSTEM 7000 sTAC



#### SYSTEM 7000 sTAC

#### Torque wrench with built-in angle gauge · electronic · 7000 STAC 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). Smooth live data exchange for displaying the screwing progress on mobile end devices, such as smartphones (smart watches) 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
- Splash-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 ±1% / ±1 digit
- Display deviation in right and left rotation angle: ±1% / ±1°
- 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)

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- · 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 minutes
- · 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 approval in all EU countries as well as in Switzerland, Norway, China, India, South Korea, Mexico and Turkey and may be sold there. 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



HAZET



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SYSTEM 7000 sTAC



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

H <u>AZET</u> No.	Output	l mm	<i>l</i> <sub>2</sub>	Release accuracy tolerance %	lbf.ft.	Nm	kg □1))▼))	Bluetooth interface	EAN-No. 4000896+
Includes insert reve	ersible ratchet 6401-1 🔳 6.	3 = ¼″							
Length with/without	t insert tool: 290.5 mm / 26	260 mm	17 5	2	0 75_7 5	1_10	05-46	~	223183
7281-5 STAC	$\Box 9 \times 12, \blacksquare 0.3 = 1/4$ $\Box 9 \times 12, \blacksquare 6.3 = 1/4''$	260	19.5	2	1.85-18.5	2.5-25	1.1-11.4	×	223176
Includes insert reve	ersible ratchet 6402-1	) = ¾"							
<ul> <li>Length with/without</li> <li>7290-5 STAC</li> </ul>	t insert tool: $347 \text{ mm} / 302$ $\Box 9x12 \blacksquare 10 = 3\%''$	mm 302	30	1	35-44	5-60	18-222	×	223169
Includes insert reve	ersible ratchet 6402-1	) = <sup>3</sup> /8"		•	0.0 11	0 00	1.0 11.1		220100
Length with/without	t insert tool: 428 mm / 383	mm	00	4	75 75	40, 400	0 0 00 7	44	000450
1291-5 STAC	$\square$ 9x12, $\blacksquare$ 10 = %"	383	30	1	1.5-15	10-100	2.9-28.7	×	223152
Length with/without	t insert tool: 578.5 mm / 52	2.0 = 72 20 mm							
7292-5 STAC	□ 14x18, ■ 12.5 = ½"	520	38.5	1	15-150	20-200	4.1-40.7	×	223145
<ul> <li>Includes insert reve</li> <li>Length with/without</li> </ul>	ersible ratchet 6406 <b>2</b> 0 = t insert tool: 1021 mm / 94	= ¾″ 5 mm							
7294-5 STAC	□ 14x18, <b>■</b> 20 = <sup>3</sup> ⁄ <sub>4</sub> "	945	44	1	30-300	40-400	4.4-43.8	×	223138
Includes insert reve	ersible ratchet 6406  20 =	= 3⁄4″							
• Length with/without	t insert tool: 1217 mm / 114 $\Box$ 14x18 $\blacksquare$ 20 = $\frac{3}{4}$ "	41 mm 1141	44	1	48-480	65-650	5 9-58 7	×	222926
Integrated reversib	le ratchet $\blacksquare 20 = \frac{3}{4}"$			•	10 100	00 000	0.0 00.1	•	
7250-5 STAC	■ 20 = <sup>3</sup> ⁄4"	1772	-	1	150-750	200-1000	12.2-60.8	×	222919
<ul> <li>Includes insert reve</li> <li>Length with / without</li> </ul>	ersible ratchet 6401-1  6.	$3 = \frac{1}{4''}$							
7280-2 STAC	□ 9x12, ■ 6.3 = ¼″	260	17.5	2	0.75-7.5	1-10	0.5-4.6	$\checkmark$	215294
7281-2 STAC	□ 9x12, ■ 6.3 = ¼″	260	19.5	2	1.85–18.5	2.5-25	1.1–11.4	$\checkmark$	215317
<ul> <li>Includes insert reve</li> <li>Length with / without</li> </ul>	ersible ratchet 6402-1  10 10 11 10 10 10 10 10 10 10 10 10 10	) = ¾" 2 mm							
7290-2 STAC	□ 9x12, ■ 10 = ¾″	302	30	1	3.5-44	5-60	1.8-22.2	$\checkmark$	215324
Includes insert reve	ersible ratchet 6402-1 🔳 10	) = ¾"							
Length with / without	ut insert tool: 428 mm / 383	3 mm	30	1	7575	10 100	20.287		215420
Includes insert reve	ersible ratchet 6404-1	$2.5 = \frac{1}{2}$ "	50	I	1.5-15	10-100	2.9-20.7	<b>v</b>	215450
Length with / without	ut insert tool: 578.5 mm / 5	20 mm						_	
7292-2 STAC	□ 14x18, ■ 12.5 = ½"	520 - 34″	38.5	1	15–150	20-200	4.1-40.7	✓	215447
Length with / without a set of the set	ut insert tool: 1021 mm / 94	- 74 45 mm							
7294-2 STAC	□ 14x18, <b>■</b> 20 = ¾"	945	44	1	30-300	40-400	4.4-43.8	$\checkmark$	215454
<ul> <li>Includes insert reve</li> <li>Length with / without</li> </ul>	ersible ratchet 6406 <b>2</b> 0 =	= ¾″ 141 mm							
7295-2 STAC	□ 14x18, <b>■</b> 20 = <sup>3</sup> ⁄ <sub>4</sub> "	1141	44	1	48-480	65-650	5.9-58.7	$\checkmark$	215461
Integrated reversib	le ratchet ■ 20 = ¾"								
7250-2 STAC	■ 20 = ¾"	1772	-	1	150-750	200-1000	12.2-60.8	✓	215478
<ul> <li>Includes insert reve</li> </ul>	ersible ratchet 6401-1	$3 = \frac{1}{4}''$							
Length with/without	t insert tool: 290.5 mm / 26	60 mm	40.5	0	4 05 40 5	0.5.05			000000
1281-2 STAC CAL	□ 9x12, ■ 6.3 = ¼" h DAkkS calibration certi	260 ficate	19.5	2	1.85-18.5	2.5-25	1.1-11.4	✓	220366
<ul> <li>Includes insert reve</li> </ul>	ersible ratchet 6402-1	) = 3/8"							
Length with/without	t insert tool: 347 mm / 302	202	30	1	35 44	5 60	1 9 22 2	/	220272
Torque wrench with	h DAkkS calibration certi	ficate	50		5.5-44	5-00	1.0-22.2	v	220013
Includes insert reve	ersible ratchet 6402-1	) = <sup>3</sup> / <sub>8</sub> "							
Length with/without     7291-2 STAC CAL	t insert tool: 428 mm / 383 $\Box 9x12 \equiv 10 = 3\%''$	mm 383	30	1	7 5-75	10-100	2 9-28 7		220380
Torque wrench with	h DAkkS calibration certi	ficate	00	•	1.0 10	10 100	2.0 20.1	•	220000
Includes insert reve	ersible ratchet 6404-1	$2.5 = \frac{1}{2}$							
7292-2 STAC CAL	□ 14x18, ■ 12.5 = ½"	520	38.5	1	15-150	20-200	4.1-40.7	$\checkmark$	220397
Torque wrench with	h DAkkS calibration certi	ficate							
<ul> <li>Includes insert reve</li> <li>Length with/without</li> </ul>	ersible ratchet 6406 <b>2</b> 0 = t insert tool: 1021 mm / 94	= ¾" 5 mm							
7294-2 STAC CAL	□ 14x18, ■ 20 = <sup>3</sup> / <sub>4</sub> "	945	44	1	30-300	40-400	4.4-43.8	$\checkmark$	220403
• Torque wrench with	h DAkkS calibration certi	ficate							
<ul> <li>Includes insert reve</li> <li>Length with/without</li> </ul>	t insert tool: 1217 mm / 114	= ¾″ 41 mm							
7295-2 STAC CAL	□ 14x18, ■ 20 = ¾″	1141	44	1	48-480	65-650	5.9-58.7	$\checkmark$	220410
Torque wrench with     Integrated reversib	h DAkkS calibration certi	ficate							
7250-2 STAC CAL	■ 20 = <sup>3</sup> / <sub>4</sub> "	1772	_	1	150-750	200-1000	12.2-60.8	$\checkmark$	220342
• SmartTAC Tool · S	SmartTAC programming an	d evaluat	tion softw	vare					
7910-STAC	wrench with built-in angle g	auge of t	ne 7000 -	sTAC series	_	_	_	_	221875



**Torque screwdrivers** 

#### **Torque screwdrivers**

#### 6001 Torque screwdriver · 6001 · 0.4-5.4 Nm

Made in Germany E

- 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)
- Accuracy (tolerance) according to EN ISO 6789
- Contents:
- Torque handle with insert tool holder for bits 2239-7, offset screwdriver 2100-06
- Plastic handle





H <u>AZET</u> No.	Output	l mm	Release accuracy tolerance %	Nm	۰	EAN-No. 4000896+
<ul> <li>For all screw conner</li> </ul>	ctions with low torque e.	g. valve cores on tyre	e pressure control systems			
<ul> <li>For tightening torqu</li> </ul>	es from 0.4 to 1.4 Nm					
6001-1.4/3	○ 6.3 = ¼″	-	15	0.4-1.4	3	190980
<ul> <li>For tightening torqu</li> </ul>	e values from 0.6 up to 7	I.5 Nm				
6001-1.5/3	○ 6.3 = ¼″	-	10	0.6-1.5	3	141678
According to VW S     e.g. for the fastenin	Service Information g screws at the air-filter I	nousing on 1.4 I engir	ne with turbocharger on <b>VW</b> I	Eos, Golf, Golf Plus and F	Passat	
6001-3.0/3	○ 6.3 = ¼″	-	6	1.5–3	3	141685
6001-5.4/3	○ 6.3 = ¼″	-	6	3-5.4	3	141692
• Adapter • 6.3 = 1⁄4"	→ <b>■</b> 6.3 = ¼″					
2304 N	-	25	-	-	-	238071

#### 6000 CT Torque screwdriver · SYSTEM 6000CT · ± 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



6.3 1/4 E

H <u>AZET</u> No.	Output	l mm	Release accuracy tolerance %	Nm	cNm	∑ <b>∕</b> №m	EAN-No. 4000896+
6002 CT	○ 6.3 = ¼″	170	5	0.1-1.2	10-120	0.01	023004
6003 CT	○ 6.3 = ¼″	230	5	1-6	100-600	0.1	023011
• Adapter	3 = ¼″ → ■ 6.3 = ¼″						
2304 N	-	25	-	-	-	-	238071



6.3 1/4



SYSTEM 6300 CT



9 x 12 E

#### **SYSTEM 6300 CT**

#### · With lockable torque setting

· 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 to 6392) are without a scale

#### 6300 Torque wrench · ±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 ± 2% (6391-10: 6%) of the 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
- Adjustment of the desired torque value with adjustment wrench 6399 together with HAZET torque tester 7901E · 7902E · 7903E or any other suitable device. All wrenches of this series (HAZET 6391-6392) are without a scale
- · With calibration certificate and serial number







								-		1	-
						_					
HAZET No.	Output	/ mm	l <sub>1</sub> mm	<i>l</i> <sub>2</sub> mm	a mm	b	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 pre	set triggering va	lue as reque	ested								
6391-12 V	□ 9x12	124	102	-	17	22	2	2-12	1.7-10.1	145850	

#### 6300 Torque wrench · ±2% accuracy · 2–35 Nm

#### Made in Germany

- Accuracy ± 2% (6391-10: 6%) of the 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
- Adjustment of the desired torque value with adjustment wrench 6399 together with HAZET torque tester 7901E · 7902E · 7903E or any other suitable device All wrenches of this series (HAZET 6391-6392) are without a scale
- · With calibration certificate and serial number
- DIN EN ISO 6789-2:2017





HAZET No.	Output	l mm	[1 mm	l2 mm	a mm	<b>b</b>	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											
6391-25 V	□ 9x12	183	143	-	17	22	2	2-25	1.2-14.7	145867	
6391-35 V	□9x12	183	143	-	17	22	2	15-35	8.8-20.6	145874	

9 x 12 E



SYSTEM 6300 CT



14 x 18 E

#### 6300 Torque wrench · ±2% accuracy · 5-85 Nm

#### 📕 Made in Germany

- Accuracy ± 2% (6391-10: 6%) of the 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
- · Adjustment of the desired torque value with adjustment wrench 6399 together
- with HAZET torque tester 7901E · 7902E · 7903E or any other suitable device • All wrenches of this series (HAZET 6391-6392) are without a scale
- · With calibration certificate and serial number
- DIN EN ISO 6789-2:2017



H <u>AZET</u> No.	Output	[ mm	l <sub>1</sub>	l <sub>2</sub> mm	a mm	b	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 pres	set triggering va	lue as reque	ested								
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 · ±2% accuracy · 50-320 Nm

#### 📕 Made in Germany

- Accuracy ± 2% (6391-10: 6%) of the 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
- Adjustment of the desired torque value with adjustment wrench 6399 together with HAZET torque tester 7901E · 7902E · 7903E or any other suitable device 
   All wrenches of this series (HAZET 6391-6392) are without a scale
- · With calibration certificate and serial number
- DIN EN ISO 6789-2:2017



H <u>AZET</u> No.	Output	l mm	l <sub>1</sub>	l <sub>2</sub> mm	a	b	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 prese	t triggering val	ue as reques	sted								
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	

12 20

#### 6399 Adjustment wrenches

#### Made in Germany

• For torque wrenches HAZET 6391 to 6392 (V)



H <u>AZET</u>	/	EAN-No.
No.	mm	4000896+
6399	167	027170



Insert tools



Insert tools

#### 6396 Tool holder



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





**Insert tools** 





042234

►

#### 8816 Replacement set

No.							
• Replacement set for shift lever consisting of: shift lever · screws · ball · compression spring For HAZET torque wrench 5107-2CT · 5107-3CT · 5108-2CT · 5108-3CT 6106-1CT · 6108-1CT · 6109-1CT · 6109-2CT · 6401-1 · 6401-1S · 6408 6401-1/6 146048							
Replacement set for ratchet wheel · pawl For HAZET torque w 6106-1CT · 6108-10	or ratchet wh · shift lever · · vrench 5107-2 CT · 6109-1CT	eel 6.3 screws 2CT · 51 · 6109-	= ¼″ ■ · ball · c 07-3CT ·2CT · 6	cons ompr • 51( 401-	sting essio )8-2C I	of: n spring T · 5108-3CT	
6401/7						111169	
Replacement set for ratchet wheel with spring For 6401-1S as well 5107-3CT · 5108-20	as for retrofi	eel 6.3 pawl · s	= ¼" ■ hift leve	consi er · sc ersibl	sting rews e ratc	of: · ball · compression hets 5107-2CT ·	
6106-1CT · 6108-10	CI · 6109-2C1					444450	
• Replacement set for shift lever • screws • For HAZET insert re 6403-1/7	or shift lever ball · compre eversible ratch	consisti ssion sp let 6403	ng of: pring · s -1 · 640	pring 3-1S	wash · 6404	er and circlip 4-1 · 6404-1S 070756	
• Replacement set for ratchet wheel • pawl washer • circlip For 6403-1 • 6404-1 6403-1/9	or ratchet wh shift lever	eel 12.5 screws	5 = <sup>1</sup> /2″∎ · ball · c	I con ompr	sisting essio	g of: n spring · spring 070749	
Replacement set for ratchet wheel with spring · spring wash For 6403-1S · 6404-	or ratchet wh safety lock · er · circlip ·1S	<b>eel</b> 12.5 pawl · s	5 = ½″ ∎ shift leve	∎con er · sc	sisting rews	g of: · ball · compression	
6403-1 S/9						070817	
Ratchet wheel with	satety lock ·	pawi · s	hift leve	er · sc	rews	•	
Ratchet wheel with ball · compression s For HAZET reversib as well as for retrofii 8816P · 8816G · 88 6111-1CT · 6114-1C 8816 S/7	pring le ratchets 88 tting HAZET ro 16GK · 8816S T · 6115-1CT	pawi · s 616S · 64 eversible 6T · 6110 · 6402-	hift leve 402-1S e ratche )CT · 61 1	er · sc ets 10-10	rews CT ·	048465	
Ratchet wheel with ball · compression s For HAZET reversib as well as for retrofi 8816P · 8816G · 88 6111-1CT · 6114-1C 8816 \$/7	pring le ratchets 88 tting HAZET ro 16GK · 8816S T · 6115-1CT	pawi - s 16S - 64 eversible T - 6110 - 6402-7	hift leve 402-1S e ratche 0CT · 61 1	er · sc ets 10-10	rews	048465	
Ratchet wheel with ball · compression s For HAZET reversib as well as for retrofii 8816P · 8816G · 88 6111-1CT · 6114-1C 8816S/7 6413 Insert to	pring le ratchets 88 tting HAZET r 16GK · 8816S T · 6115-1CT	pawi - s 16S - 64 eversible ST - 6110 - 6402-1	hift leve 402-1S e ratche DCT · 61 1	er · sc ets 10-10	rews CT · <b>driv</b>	048465	
Ratchet wheel with ball · compression s For HAZET reversib as well as for retroffi 8816P · 8816G · 88 6111-1CT · 6114-1C 8816 S/7 6413 Insert to Made in Germany	pring le ratchets 88 tting HAZET ro 16GK · 8816S T · 6115-1CT	pawi - s 116S - 64 eversible T - 6110 - 6402-*	hift leve 402-1S e ratche DCT · 61 1 <b>Squa</b>	er · sc ets 10-10 <b>are</b> /8 6.4	rews CT · driv	048465 es 10 3/8 125 1/2 9×12	
Ratchet wheel with ball · compression s For HAZET reversib as well as for retrofii 8816P · 8816G · 88 6111-1CT · 6114-1C 8816 S/7 6413 Insert to Made in Germany	ol holder	pawi - s a16S - 64 eversible ST - 6110 - 6402-*	hift leve 402-1S e ratche DCT · 61 1 squa 10 3	er - sc ets 10-10 <b>are</b> (% 6.	crews CT · driv	048465 es 10 3/3 125 1/2 9×12	
Ratchet wheel with ball · compression s For HAZET reversib as well as for retroffi 8816P · 8816G · 88 6111-1CT · 6114-1C 8816 S/7 6413 Insert to Made in Germany 6413-1	sarety lock - pring le ratchets 88 tting HAZET n 16GK - 8816S T - 6115-1CT	pawi - s a16S - 64 eversible ST - 6110 - 6402 r with	hift leve 402-1S e ratche DCT · 61 1 squa 10 3 413-3	er - sc ets 10-10 <b>are</b> (% 6.3	rews CT · driv 1/4 6	048465 es 10 3/6 125 1/2 •×12	
Ratchet wheel with ball · compression s For HAZET reversib as well as for retroffi 8816P · 8816G · 88 6111-1CT · 6114-1C 8816 S/7 6413 Insert to Made in Germany 6413-1	sarety lock - pring le ratchets 88 tting HAZET n 16GK - 8816S T - 6115-1CT ool holden 6413-2	pawi - s a16S - 64 eversible ST - 6110 - 6402 r with	hift leve 402-1S e ratche DCT · 61 <b>squa</b> 10 3 413-3	er - sc ets 10-10 are	ct · driv	048465 es 10 $3/6$ $125$ $1/2$ $9 \times 12$ 113-4 $\frac{1}{2}$ b b b b b b b b b b	
Ratchet wheel with ball compressions s For HAZET reversib as well as for retroffi 8816P · 8816G · 88 6111-1CT · 6114-1C 8816 S/7 6413 Insert to Made in Germany 6413-1	Safety lock - pring le ratchets 88 tting HAZET n 16GK - 8816S T - 6115-1CT ool holden 6413-2 Output	216S - 64 eversible CT - 6110 - 6402 r with	hift leve 402-1S e ratche DCT · 61 <b>Squa</b> 10 3 4113-3 <i>L</i> 2 mm	are (% 6.1	rews CT · driv driv driv driv 64	048465 es 10 3/6 125 1/2 9×12 113-4 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ 2 ↓ ↓ 2 ↓ ↓ 4 ↓	
Ratchet wheel with ball compression s For HAZET reversib as well as for retroffi $8816P \cdot 8816G \cdot 88$ 6111-1CT · 6114-1C 8816 S/7 6413 Insert to Made in Germany 6413-1 6413-1 I = 22 6413-1 I = 22 6413-1 I = 22 I = -22 I = -22	output	22 5	hift leve 402-1S e ratche DCT · 61 1 squa 10 3 413-3 <i>l</i> <sub>2</sub> <i>m</i>	are (% 6.3	rews CT · driv 3 1/4 6 6	048465 es 10 3/6 125 1/2 9×12 113-4 4 4 b b c c c c c c c c c c c c c c c	
Ratchet wheel with ball $\cdot$ compression s For HAZET reversib as well as for retroffi 8816P $\cdot$ 8816G $\cdot$ 88 6111-1CT $\cdot$ 6114-1C 8816 S/7 6413 Insert to Made in Germany 6413-1 6413-1 $\cdot$ Drive 6413-1 $\cdot$ Drive $\cdot$ Tool holder insert square 9 x 12 $\cdot$ Drive 10 = $\frac{3}{6}$ " 6413-1 $\cdot$ 9x12 $\cdot$ Sliding square	Safety lock - pring le ratchets 88 tting HAZET m 16GK - 8816S T - 6115-1CT Ool holden 6413-2 6413-2	243.5	hift leve 402-1S e ratche DCT · 61 <b>Squa</b> 10 3 413-3 <i>L</i> <sup>2</sup> mm 17.5	are (% 6.3	ct · ct · driv driv 6 c	048465 es 10 3/6 125 1/2 9×12 113-4 4 b b c c c c c c c c c c c c c c c c	
Ratchet wheel with ball $\cdot$ compression s For HAZET reversib as well as for retroffi 8816P $\cdot$ 8816G $\cdot$ 88 6111-1CT $\cdot$ 6114-1C 8816 S/7 6413 Insert to Made in Germany 6413-1 6413-1 $\bullet$ Drive $\bullet$ Tool holder insert square 9x12 $\cdot$ Drive 10 = $\frac{3}{4}$ " 6413-1 9x12 $\cdot$ Sliding square 6413-2 10 = $\frac{3}{4}$ "	Sarety lock - pring le ratchets 88 tting HAZET n 16GK - 8816S T - 6115-1CT 001 holder 6413-2 6413-2 0utput □ 10 = ¾"	pawi-s at6S - 64 eversible ST - 6110 - 6402 r with 6 6	hift leve 402-1S e ratche DCT · 61 <b>squa</b> 10 3 413-3 <i>l</i> 2 <i>l</i> 2 <i>m</i>	are (% 6.3 (% 6.3 (% 6.3) (% 6.3)	rews CT · 1/4 6 bm 22 -	048465 es 10 3/6 125 1/2 0×12 113-4 4 b b c c c c c c c c c c c c c c c c	
Ratchet wheel with ball compression s For HAZET reversib as well as for retroffi 8816P · 8816G · 88 6111-1CT · 6114-1C         6413 Insert to Made in Germany         Made in Germany         6413-1         Ø@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@	Safety lock - pring le ratchets 88 tting HAZET n 16GK - 8816S T - 6115-1CT ool holden 6413-2 6413-2 0utput □ 10 = %" ■ 6.3 = 1/4" ■ 10 = %"	222 25	hift leve 402-1S e ratche DCT · 61 <b>Squa</b> <b>10</b> 3 413-3 <i>L</i> <sub>2</sub> mm 17.5 –	are (% 6.2 (% 6.2)) (% 6.2 (% 6.2)) (% 6.2) (% 6.2	rews CT · · driv 1/4 64 64 64 64 64 64 64 64 64 64 64 64 64	048465 es 10 3/5 125 1/2 9×12 113-4 4 4 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	

8816 P/7 N

Components and spare parts from page 500 to 509



Insert tools





Components and spare parts from page 500 to 509



**Torque testers and accessories** 

HAZET No

6612 C-14

6612 C-18

6612 C-19

6612 C-13 13

6612 C-16 16

6612 C-17 17

6612 C-21 21

S

14

18

19

6612 C-22 22 ■ 9x12

Made in Germanv

· Surface: chrome-plated

Drive

**9**x12

9x12

9x12

9x12

9x12

9x12

9x12

6630 D Insert box-end wrench

14 x 18

6612 C Insert box-end wrench · open

Output

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1

44.4 17.5 13 14.5 27

45.4

45.9

46.1 17.5 15 15 33

48

48.8

 $l_2 a a_1 b_{mm}$ 

17.5

17.5 15 15

12 14.5

13 14.5

17.5 13 14.5 31.5

15 15

17.5 15 15

25

30

34.5

37.5

39

43.7 17.5

46.8 17.5



9 x 12

(R) 14 x 18

EAN-No. 4000896+

028757

028764

028771

028788

028795

028801

028818

028825

#### 6606 D Ratcheting insert box-end wrench

#### 💳 Made in Germany

- Switching function
- 40 teeth  $\cdot$  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







H <u>AZET</u> No.	S	Drive	Output	[ 	<i>1</i> 2 mm	<b>a</b> mm	<b>a</b> 1 mm	<b>b</b>	EAN-No. 4000896+
6606 D-16	16	14 x 18	۲	81	36	14.3	20.5	40	179923
6606 D-17	17	14x18	۲	81	36	14.3	20.5	40	179886
6606 D-18	18	14x18	۲	81	36	14.3	20.5	40	179893
6606 D-19	19	14x18	۲	81	36	14.3	20.5	40	179909
6606 D-21	21	🗖 14 x 18	۲	81	36	14.3	20.5	40	179916

#### 6612C Insert box-end wrench · open

Made in Germany
 Surface: chrome-plated



	C						1.	-2		
l	HAZET No.	S mm	Drive	Output	[ 	<i>l</i> 2 mm	<b>a</b> mm	<b>a</b> 1 mm	Ь	EAN-No. 4000896+
L	6630 C-7	7	9x12	0	40	17.5	8	14.5	20	028955
L	6630 C- 8	8	9x12	٩	40.6	17.5	8	14.5	20	028962
L	6630 C-10	10	<b>9</b> x12	٩	42.1	17.5	8	14.5	20	028832
L	6630 C-11	11	<b>9</b> x12	0	42.8	17.5	8	14.5	20	028849
L	6630 C-12	12	9x12	٩	43.5	17.5	12	14.5	22	028856
L	6630 C-13	13	9x12	0	44.3	17.5	12	14.5	22	028863
L	6630 C-14	14	9x12	0	45	17.5	12	14.5	23	028870
L	6630 C-15	15	<b>9</b> x12	0	45.5	17.5	12	14.5	24	028887
L	6630 C-16	16	<b>9</b> x12	0	46.5	17.5	13	14.5	26	028894
L	6630 C-17	17	<b>9</b> x12	0	47	17.5	13	14.5	27	028900
L	6630 C-18	18	<b>9</b> x12	0	47.8	17.5	13	14.5	28.5	028917
L	6630 C-19	19	<b>9</b> x12	0	48.8	17.5	13	14.5	30.5	028924
L	6630 C-21	21	🗖 9x12	0	50	17.5	15	15	33	028931
L	6630 C-22	22	🗖 9x12	0	50.8	17.5	15	15	34.5	028948
L	6630 D-13	13	🗖 14 x 18	0	60.8	25	12	21.5	30	028979
L	6630 D-14	14	🗖 14 x 18	0	61.5	25	12	21.5	30	028986
L	6630 D-15	15	🗖 14 x 18	0	62	25	12	21.5	30	028993
1	6630 D-16	16	🗖 14 x 18	0	62.9	25	12	21.5	30	029006
L	6630 D-17	17	14x18	0	63.6	25	12	21.5	30	029013

#### Torque testers and accessories

►

6630 D-18

6630 D-27 27

6630 D-34 34

18 🔳 14x18

14x18

🗖 14 x 18

6630 D-19 19 14x18

6630 D-21 21 14x18

6630 D-22 22 ■ 14x18

6630 D-24 24 🔳 14 x 18

6630 D-30 30 14x18

6630 D-32 32 14x18

6630 D-36 36 🔳 14 x 18

6630 D-41 41 🔳 14 x 18

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64.3 25

65.3 25

66.5 25

67.3 25

68.8 25

76.8 31

79.8 31

82.5 31

85.5 31

78 5 31

81.3 31 19

12

12

15

15

15

175

19

19

21.5 30

21.5 34.5

17.5 21.5 41.5

215

17.5 21.5 47.5

21.5 50.5

21.5 53

21.5 59

21.5 30.5

21.5 37.5

45

21.5 33

029020

029037

029044

029051

029068

029075

029082

029099

029105

029112

029129

6690 Mechanical	angle dial		
<ul> <li>Made in Germany</li> <li>Flexible, magnetic holder</li> </ul>	r for the fixed point		125 1⁄2 125 1⁄2 🎼
<ul> <li>To be used with operating with ■ drive 12.5 = 1/2" (or with □ drive 12.5 = 1/2" (or</li> <li>Range 0–360°, graduation</li> </ul>	tools 20 = <sup>3</sup> /4″) and tools 20 = <sup>3</sup> /4″) 1°, 95 mm Ø	H	
H <u>AZET</u> No.	Drive	Output	EAN-No. 4000896+
6690	□ 12.5 = ½″	■ 12.5 = ½″	029266



Torque testers and accessories



#### 7900 E Torque tester · electronic · 1.5–30 Nm

#### Simple, intuitive operation

- · Giant display with 17 mm large digits
- Traffic light function for evaluation of the measured value PLUS audible signal
- Easy entry of up to 15 different target values and the respective permissible tolerance in the range of ± 1 % to ± 15%
- Precision ± 1% (maximum display deviation)
- · Digital readouts · 3 measurement procedures
- Automatic click point detection (first peak · click)
   Peak value measurement (final peak · dial)
- Tracking measurement / display value (track)
- Triple signalling of the measurement result:
- Digit display in 17 mm font size
- Traffic light function for assessing the torque value (yellow = too low  $\cdot$  green = OK  $\cdot$  red = too high) – Audible signal
- Robust aluminium housing for workshop
- use, surface powder-coated Large, high-contrast, luminous easy-to-read LCD display with backlighting
- Self-sufficient operation possible via power bank (5 V · 1 A)
- Maximum power consumption: 0.5 Wh · energy efficiency level 6
- · Rapid test function with auto reset, without target value and tolerance specification, without evaluation
- Compatible with HAZET test software torque testing 7901E-D, micro USB socket for power supply and data transmission
- Protection rating IP 40, splash-proof
- display and membrane keyboard
- 10 adjustable menu languages: German · English · French · Spanish · Italian · Danish · Finnish · Swedish · Norwegian · Portuguese
- Included in delivery:
   USB power supply 90-264 volts AC at 47–63 HzOutput USB power supply 90-204 VOIS AC at 47–05 R2Out voltage: 5 V · 1000 mA · USB 2.0 A socketIncludes mains plug adapters for EU · UK · USA · AUS
   Cable (2 m) USB 2.0 A plug – USB 2.0 micro B plug
   Calibration certificate and quick reference guide
- (detailed operating instructions online for download)

Stable mounting on workbench







H <u>AZET</u> No.	Drive	l mm	Nm	EAN-No. 4000896+						
Calibrated measuring range in the clockwise direction of rotation										
(measurements from 1 N	(measurements from 1 Nm are possible with a display deviation of approx. ± 2%)									
Fixed external nexagon s	ocket $\cdot$ size 10 mm including adapter $\Psi^* \rightarrow \square$									
Switchable torque display	IN NM · dNM · CNM · Kgtm · Kgtcm · gtm · lb									
Configurable selection of	desired units	100 1700 MC 0.0								
Fixing material (not include Ore as unsight in shuding and	led in the scope of delivery): nexagon socker	1  screws ISO  4762 - 106 - 8.8								
• Gross weight including pl	astic case and accessories approx. 2.9 kg	475	15.00	407405						
7903 E	$\bullet$ 10 = % <sup>*</sup> , $\Box$ 6.3 = ¼ <sup>*</sup> , $\Box$ 10 = % <sup>*</sup>	1/5	1.5-30	167425						
<ul> <li>Calibrated measuring ran</li> </ul>	ge in the clockwise direction of rotation									
<ul> <li>Fixed internal square soc</li> </ul>	ket · 12.5 = ½″									
<ul> <li>Switchable torque display</li> </ul>	′ in Nm · dNm · kgfm · kgfcm · lbf.ft · lbf.in · ft	.lb · in.lb								
Configurable selection of	desired units									
Fixing material (not include)	led in the scope of delivery): hexagon socke	t screws ISO 4762 – M10 – 12.9								
Gross weight including pl	astic case and accessories approx. 3.9 kg									
7901 E	□ 12.5 = ½"	138	10-350	140671						
Calibrated measuring ran	ge in the clockwise direction of rotation									
• Fixed external hexagon socket · size 27 mm										
• Switchable torgue display in Nm · kgfm · kgfcm · lbf.ft · lbf.in · ft.lb · in.lb										
Configurable selection of desired units										
• Fixing material (not included in the scope of delivery): hexagon socket screws ISO 4762 – M10 – 12.9										
Gross weight including plastic case and accessories approx. 5.0 kg										
7902 E	● 27 mm	160	50-1100	150229						





**Torque testers and accessories** 



#### 7900 E Torque testing software

#### Made in Germanv

- For the electronic torque testers 7901E · 7902E · 7903E
- Including database (update-friendly) of all current HAZET torque wrenches (whose test values range from 1 1000 Nm) and insert tools
- · 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<sup>®</sup> / Windows 8<sup>®</sup> / Windows 10<sup>®</sup> (64 Bit)

Memory requirement: minimum 50 MB free hard disk memory Main storage: 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

#### Attention:

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)



6.3 1/4 10 3/8 125 1/2 20 3/4 25 **1**"

1920 E

H <u>AZET</u> No.	EAN-No. 4000896+
7901 E-D	148202

#### 7920 E Torque calibration unit

#### 📕 Made in Germany

- · Modular system thanks to 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 releasing torque wrenches with an accuracy of ± 1% (e.g. for product group 7000 sTAC · 7000 eTAC) 0.50% - for indicating and releasing torque wrenches with an
- accuracy of ± 2 % (e.g. for product group 6000CT)
- Quick-change system for nominal size sockets 
   <sup>63</sup>
   <sup>14</sup>
   <sup>10</sup>
   <sup>16</sup>
   <sup>12</sup>
   <sup>17</sup>
   <sup>20</sup>
   <sup>14</sup>
   <sup>20</sup>
   <sup>14</sup>
   <sup>10</sup>
- 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
- of the two (like HAZET) also with customised company data
- 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) width x height: approx. 570 x 600 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

HARES 7920 E-200-1 · -2 7920 E-800-1 · -2





#### Torque testers and accessories

#### 7920 E Torque calibration unit

### 6.3 1/4" 10 3/8" 125 1/2" 20 3/4" 25 **1**"

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

#### SP-10 – 30 HAZET SERVICE for torque wrenches and pneumatic tools

📕 Made in Germany



All HAZET torque tools and pneumatic 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.

