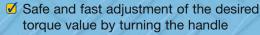
HAZET – Torque Wrenches

Torque Wrenches System 5000 CT

"The classic workshop torque wrench"

- ✓ Robust and well-priced
- Proven a million times
- ✓ Indispensable for the torque controlled screw tightening
- Release accuracy tolerance (in direction of actuation): ± 4% of preset scale value according to DIN EN ISO 6789:2003 (D)
- ✓ With automatic close gap release palpable and audible when torque setting is reached



 DGBM (German Registered Utility Model), EP (European Patent)





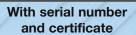




"For higher demands"

- ✓ Click-Lens-Type with value readout in the display security for the user
- ✓ Release accuracy tolerance (in direction of actuation): ± 4% of the preset scale value according to DIN EN ISO 6789
- ✓ Torque release palpable by close gap release audible by click-sound
- DGBM (German Registered Utility Model), EP (European Patent)





due to rotary assembly no risk of injury!





User-friendly

reversible ratchet

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

Tested, with

certificate

Integrated shift lever with freerunning function (1/2" model) reducing the risk of injury and malfunction

MEXIX 9 559-8 6

Safe box included in delivery! -

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 (interchangeable) optimizes the readout



Safe and fast adjustment

by turning the handle

of the desired torque value



HAZET – Torque Wrenches

Torque Wrenches System 6000 CT

"High-precision measuring tools for highest demands"

- ✓ Release accuracy tolerance (in direction) of actuation): ± 2% of the preset scale value according to DIN EN ISO 6789:2003
- Tested, with certificate
- Knob for locking the set value
- Square drive according to DIN 3120 A, ISO 1174-1A
- Individual serial number
- ✓ Reversible ratchets 10 ¾, 125 ½, 20 ¾
- Ergonomically shaped
- ✓ Safe torque release:

User-friendly reversible

Service-friendly (do-it-vourself repair kits for ratchets available)

ratchet

- palpable (close gap release)
- audible ("click" sound)
- optical (signal transmitter, depending on model)

Integrated shift lever with free-running function (125 ½ model) reducing the risk of injury and malfunction





With serial number and certificate

> Hard chrome-plated steel tube - slim, but



Safe and fast adjustment of the desired torque value by turning the handle

Safety lock at the handle



Safe box included in delivery! -

Torque Screwdriver System 6000 CT

- For applications requiring low torque ranges (10-120 cNm and 1-6 Nm)
- ✓ Especially suitable for:
 - Screwed connections in plastic material
 - · Connections in switch cabinets



- For applications requiring low torque ranges
- Especially suitable for:
 - Engines
 - Gearboxes
 - Industry
 - Machine construction
 - Model making



6.3 1/4"

HAZET Torque Tools

Torque Wrench Service

Our Examination and Calibration Service offers:

- Adjustment, calibration and repair of your torque wrenches
- Good preconditions for functional torque wrenches
- Regular working quality, provable in the long term
- ✓ Test sticker
- Examination certificate indicating the test values







Torque Wrench • SYSTEM 5000 CT • Release Accuracy Tolerance ± 4%

- Perfect for working on motorcycles and bicycles
- Release accuracy tolerance (in direction of actuation)
 ± 4% of scale value according to DIN EN ISO 6789:2003 (D)
- With automatic close gap release, palpable and audible when torque setting is reached
- Safe and fast adjustment of the desired torque value by turning the handle
- Safety lock at the handle
- Fine scale graduation
- With serial number and certificate
- With built-in reversible ratchet
- Sturdy and durable scaling resistant to stress such as impacts and shocks due to rough handling in workshops
- DGBM-German registered utility model, EP

HAZET No.	•	Nm	_ mm	Graduation Nm	EAN-No. 4000896+	
5108-2 CT	6,3 = 1/4"	2,5-25	232	0,25	119752	



- Tightening at torque setting is possible both to the right and to the left
- With automatic close-gap release when torque setting is reached
- Safe and fast adjustment of the desired torque value by turning the handle
- · Safe lock at the handle
- Fine scale graduation
- With serial number and certificate
- Ratchet with sliding square tang (according to DIN 3120 A, ISO 1174-1 A) with plastic knob for manual pre-tightening
- Changing the direction of actuation by inversing the ratchet's sliding square tang
- EP, registered design
- · Safe boxes available, to be ordered separately





HAZET No.	•	Nm	_ mm	Graduation Nm	EAN-No. 4000896+		
5110-1 CT	10 = 3/8"	10-60	310	0,5	022397		
5121-1 CT	12,5 = ½"	20-120	392	0,1	022427		
5122-1 CT	12,5 = ½"	40-200	498	0,1	022472		
5123-1 CT	12,5 = ½"	60-320	615	0,2	022588		
Sliding square for 5110-1 CT	tang 10 = %″■						
5110-01					049691		
Sliding square tang 12.5 = ½"■ for 5121-1 CT, 5122-1 CT							
5121-01					022410		







2 5 Nm 40-20

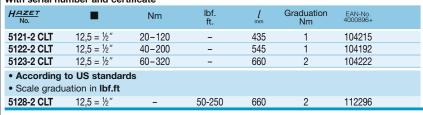
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Torque Wrench • SYSTEM 5000 CLT • Release Accuracy Tolerance ± 4%

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

- Release accuracy tolerance (in direction of actuation):
- ±4% of scale value according to DIN EN ISO 6789:2003 (D) • Torque release – palpable by close-gap release - audible by click-sound
- DBGM-German registered utility model, EP
- User-friendly reversible ratchet
- Service-friendly (do-it-yourself repair kits for ratchets available)
- Square drive solid to the wrench no risk of loss
- Hard chrome-plated steel tube slim, but very sturdy and wear resistant
- Integrated shift lever with free-running function (122 1/2 model) reducing the risk of injury and malfunction
- Ergonomically shaped handle with collar reducing the risk of slipping-off and injury
- · Safe locking of the handle due to rotating assemblyno risk of injury!
- · Safe and fast adjustment of the desired torque value by turning the handle
- · 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 (exchangeable) optimizes the readout

With serial number and certificate



Torque Screwdriver • SYSTEM 6000 CT • Release Accuracy Tolerance ± 5%

- Release accuracy tolerance (in direction of actuation): ±5% of scale value according to DIN EN ISO 6789:2003 (D)
- For screwdriver bits with 6.3 = 1/4" outside hexagon drive
- Operation of sockets (☐ drive 6.3 = 1/4") in conjunction with Adapter HAZET 2304
- Application, e.g. on screwed connections in plastic materials and connections on switch cabinets and model making

					0		
HAZET No.	•	cNm	Nm	/ mm	Graduation Nm	EAN-No. 4000896+	
6002 CT	6,3 = 1/4"	10-120	-	170	0,01	023004	
6003 CT	6.3 = 1/4"	-	1-6	230	0.1	023011	



• For the connection of sockets with square drive according to DIN 3120 and operating tools with hexagon drive

HAZET No.		•	EAN-No. 4000896+
2304	6,3 = 1/4"	6,3 = ¹ / ₄ "	016020





Torque Screwdriver

For torque values from 0.6 up to 5.4 Nm

- Quick and precise setting of the torque value with a hex head wrench (HAZET 2100-06 supplied in delivery)
- Torque release clearly palpable and audible by ratcheting when torque setting is reached
- Unlimited loosening torque without torque function
- Bit holding adapter with magnet for all current bits with @ drive
- Release accuracy (tolerance) according to DIN ISO 6789
- Application: Disc brakes on bicycles

Torque handle, Bit Holding Adapter 2239-7,

Hex Head Wrench 2100-06

HAZET No.	Nm	Tolerance	EAN-No. 4000896+
6001-1,5/3	0,6-1,5	10 %	141678
6001-3,0/3	1,5-3,0	6 %	141685
6001-5,4/3	3,0-5,4	6 %	141692
, ., .	.,. +,:	. , .	**=

Adapter

For the connection of sockets with square drive according to DIN 3120

HAZET No.	E	•	EAN-No. 4000896+
2304	6,3 = 1/4"	6,3 = 1/4"	016020





Torque Wrench • SYSTEM 6000 CT • Release Accuracy Tolerance ± 2%

- With automatic close-gap release, palpable and audible when torque setting is reached
- Easy and safe adjustment of the desired torque value by turning the handle
- Release accuracy tolerance (in direction of actuation): ± 2% of scale value according to DIN EN ISO 6789:2003 (D)
- Application: engines, gearboxes, machines, industry, model making
- Square drive according to DIN 3120 A, ISO 1174-1 A
- Without signal transmitter

HAZET No.	•	Nm	_ mm	Graduation Nm	EAN-No. 4000896+	
6108-1 CT	6,3 = 1/4"	2-10	198	0,2	062218	
6109-2 CT	6,3 = 1/4"	4-40	256	0,4	080564	

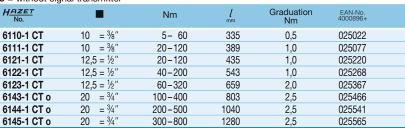


· With reversible ratchet

- 6110-1 CT to 6123-1 CT = DBP German registered patent
- Release accuracy tolerance (in direction of actuation): ± 2 % of scale value according to DIN EN ISO 6789:2003 (D)
- With turning knob for additional locking of the adjusted torque value
- Square drive according to DIN 3120 A, ISO 1174-1 A
- User-friendly reversible ratchet
- Easy to maintain (do-it-youself repair set)
- Square drive solid to the wrench-no risk of loss
- Fine scale graduation
- Ergonomically shaped handle with collar reducing the risk of slipping-off and injury
- Hard chrome-plated steel tube slim, but very sturdy and wear-resistant
- Safety lock at the handle
- Safe and fast adjustment of the desired torque value by turning the handle
- In Safe Box

With serial number and certificate

o = without signal transmitter







1000 Nm Torque Wrench • SYSTEM 6000 CT • Release Accuracy Tolerance ± 3%

Weight only approx. 10 kg - especially suited for industrial climbers

- Application on wind turbines, dockyards, heavy industry, etc.
- 2 parts, to be disassembled (release tools included), in carrier bag with carrying handle and shoulder strap
- Release accuracy tolerance ±3% of the preset scale value (in direction of actuation)
- Release torque 590 N (60 kg) with 1000 Nm
- Without signal transmitter





No.	•	Nm	/ mm	Graduation Nm	EAN-No. 4000896+	
6150-1 CT	20 = 3/4"	400-1000	1788	5	141067	

Torque Wrench • SYSTEM 6000 CT • US-Standard • Release Accuracy Tolerance ± 3%

- According to US standards
- Scale graduation in Ibf.ft
- Release accuracy tolerance (in direction of actuation):
 ±3% of scale value according to DIN EN ISO 6789:2003 (D)
- With reversible ratchet
- With turning knob for additional locking of the adjusted torque value
- Square drive according to DIN 3120 A, ISO 1174-1 A
- In safe box
- o = without signal transmitter

U - Without Si	gilai transiinti	LCI					
HAZET No.	-	lbf. ft.	Nm	_ mm	Graduation Nm	EAN-No. 4000896+	
6114-1 CT	10 = 3/8"	5- 40	6,8- 54,2	333	0,5	078424	
6115-1 CT	10 = 3/8"	20-100	27,1-135,6	390	0,5	025084	
6127-1 CT	12,5 = ½"	40-200	54,2-271,2	545	1,0	025381	
6128-1 CT	12,5 = ½"	50-250	67,8-339	660	2,0	076116	
6132-1 CT o	$20 = \frac{3}{4}$ "	120-600	162,7-813,5	1280	2,0	078455	



Torque Wrench • SYSTEM 6000 CT • Release Accuracy Tolerance ± 2%

- With plug-and-socket connection to accomodate insert tools
- Release accuracy tolerance (in direction of actuation): ± 2% of scale value according to DIN EN ISO 6789:2003 (D)
- Without signal transmitter



HAZET No.	mm	Nm	_ mm	Graduation Nm	EAN-No. 4000896+	
6280-1 CT	9 x 12	2-10	180	0,2	026005	
6282-1 CT	9 x 12	4-40	240	0,4	080540	

- With plug-and-socket connection to accomodate insert tools
- Release accuracy tolerance (in direction of actuation): ± 2% of scale value according to DIN EN ISO 6789:2003 (D)
- In safe box



- With plug-and-socket connection to accomodate insert tools
- Release accuracy tolerance (in direction of actuation):
 ± 2% of scale value according to DIN EN ISO 6789:2003 (D)
- In safe box



without signal	transmitter					
HAZET No.	mm	Nm	/ mm	Graduation Nm	EAN-No. 4000896+	A SAMOON MANAGEMENT AND ASSESSMENT ASSESSMENT AND ASSESSMENT AS
6294-1 CT	14 x 18	100-400	715	2,5	026197	
6295-1 CT	14 x 18	200-500	955	2,5	026203	+) +) 0 mar sent
6296-1 CT	14 x 18	300-800	1195	2,5	026210	

Data for effective length on Torque Wrenches with (different) Insert Tools

MDE = Torque to be selected

MDV = Prescribed torque

lj = Standard length adjustment with adjusting device

l1 = Effective length of torque wrench

= Gauge dimension of adjusting device b

 l_w = Gauge dimension of extended insert tool

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

Dimensions of various HAZET Torque Wrenches:

Difficilisions of	various i i/ u	LLI TOTQUE VVICTOTI	
HAZET No.	₹ mm	Adjusted with HAZET-No.	<i>l₂</i> mm
6280-1 CT	140	6401-1 (S)	19.5
6282-1 CT	200	6401-1 (S)	19.5
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

HAZET No.	₹ mm	Adjusted with HAZET-No.	<i>l₂</i> mm
6293-1 CT	547	6404-1 (S)	38.5
6294-1 CT	640	6406	44
6295-1 CT	880	6406	44
6296-1 CT	1120	6406	44
6391-12	100		-
6391-25	130		-

HAZET No.	Ĺ₁ mm	<u>l</u> ₂
6391- 35	130	-
6391- 50	190	_
6391- 85	260	_
6392-200	345	_
6392-320	570	-

Repair Set









lease observe the following characteristics:

- 1. Shift lever, burnished (black)
- 2. Replaceable head
- 3. since 1985 ergonomic plastic handle

HAZET No

EAN-No. 4000896+

001972

Repair Set for shift lever,

consisting of: shift lever, screws, ball, compression spring for 1016, 1016/2, 6132-1 CT, 6143 CT, 6143-1 CT, 6143-01, 6144 CT, 6144-1 CT, 6144-01

6145 CT, 6145-1 CT, 6145-01, 6146-1 CT

Repair Set for shift lever consisting of: shift lever, screws, ball, compression spring

for 1116, 6150-1 CT

1116/6 003228

Repair Set for ratchet wheel 20 = ¾" ■ consisting of: ratchet wheel, pawl, shift lever,

screws, ball, compression spring for 1016, 1016/2,

6132-1 CT, 6143 CT, 6143-01, 6143-1 CT, 6144 CT, 6144-01, 6144-1 CT, 6145 CT, 6145-01, 6145-1 CT, 6146-1 CT

001989

Repair Set for ratchet wheel 10 = %" ■

consisting of: ratchet wheel, pawl, shift lever, screws, ball, compression spring For 8816 G, 8816 GK, 8816 P, 8816 ST, 6110 CT, 6110-1 CT, 6111-1 CT, 6114-1 CT, 6115-1 CT, 6402-1

042234

Repair Set for twist lock, consisting of: lock spring, twist lock with 2 headless screws for 6010-1 CT, 6110-1 CT, 6290-1 CT

025053

Repair Set for twist lock, consisting of: lock spring, twist lock with 2 headless screws for 5121-2 CLT, 5122-2 CLT, 5123-2 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

Repair Set for optical signal transmitter, consisting of: red button, compression spring, black housing, pin, screw for 6021-1 CT, 6022-1 CT, 6023-1 CT,

6110 CT, 6110-1 CT, 61111-1 CT, 6110 CT, 6110-1 CT, 61111-1 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, 6291-2 CT, 6290-1 CT, 6291 CT, 6292-1 CT, 6293-1 CT

6122-29

Repair Set for shift lever,

consisting of: shift lever, screws, ball, compression spring,

Consisting of: Snift lever, Screws, ball, compression spring, spring washer, lockring for 5121-2 CLT, 5121-2 CT, 5122-2 CLT, 5122-2 CT, 5122 ST-1 5123-2 CLT, 5123-2 CT, 6121-1 CT, 6121 CT, 6122-1 CT, 6122-1 CT, 6123-1 CT, 6123 CT, 6127-1 CT, 6128-1 CT, 6722 TAC

025329

Repair Set for ratchet wheel 12.5 = ½" ■

consisting of: ratchet wheel, pawl, shift lever, screws, ball, compression spring, spring washer, lockring for 5121-2 CLT, 5121-2 CT,

5122-2 CLT, 5122-2 CT, 5122 ST-1, 5123-2 CLT, 5123-2 CT

6121 CT, 6121-1 CT, 6122-1 CT, 6122 CT, 6123-1 CT, 6123 CT, 6127-1 CT, 6128-1 CT, 6722 TAC

Reversible ratchet with screw, complete

(exchangeable): 20 = ¾" ■

until end of 2004 for 6132-1 CT, 6143 CT, 6143-1 CT, 6144 CT, 6144-1 CT,

6145 CT, 6145-1 CT, 6146-1 CT 6143-01

111190

025343

Repair Set

HAZET EAN-No. 4000896+

Repair Set for twist lock,

consisting of: twist lock, lock spring and cylinder screw for 6132-1 CT, 6143-1 CT, 6144-1 CT, 6145-1 CT, 6150-1 CT, 6243-1 CT, 6244-1 CT, 6245-1 CT, 6246-1 CT,

6294-1 CT, 6295-1 CT, 6296-1 CT

6144-01/3

Reversible ratchet with pin, complete (exchangeable): 20 = ¾" ■

since the year 2005 for 6132-1 CT, 6144 CT, 6144-1 CT,

6145 CT, 6145-1 CT, 6146-1 CT

111206

025527

Torque insert lock with screw for 6243-1 CT, 6244-1 CT, 6245-1 CT, 6294-1 CT, 6295-1 CT until end of 2004,

6296-1 CT until end of 2004

026180

Torque insert lock with pin since the year 2005 for 6295-1 CT, 6296-1 CT

6296-01 111213

Torque Tool Assortment



29 pieces, in sheet metal box with plastic insert

Contents:

6290-1 CT 6402-1

8 9 10 11 6450 c- 7 - 7 8 9 10 11 12 13 14 15 16 17

6612 c-10 11 12 13 14 17

6630 c- 7 8 10 11 12 13 14 15 16 17

HAZET No

EAN-No. 4000896+ 6290-1 CT/29 026067



20 pieces, in sheet metal box with plastic insert

Contents:

6292-1 CT

6404-1 14 15 6450 d-13 16 17

18 19 21 22 6630 d-13 14 15 16

18 19 21

HAZET EAN-No. 6292-1 CT/20 026159

(E)

Torque Tool Set



28 pieces, in sheet metal box with plastic insert

Contents:

6292-1 CT 6404-1 14 15 16 17 18 22 24 27 30 32 6450 d-13 18 19 6630 d-13 14 15 16 17

HAZET	EAN-No.
No.	4000896+
6292-1 CT/28	026166

Torque Screwdriver



- Especially appropriate for the application in series production
- With inside hexagon drive 6.3 = 1/4" for screwdriver bits
- Release accuracy tolerance (in direction of actuation): ± 5% of scale value according to DIN EN ISO 6789:2003 (D)
- Tightening at torque setting is possible only with screws with right-handed threads
- Without adjustment scale

Adjustment of the desired torque value with enclosed Hex Head Wrench HAZET 2100 A-3/16 in conjunction with torque testing device

HAZET	Nm	_	EAN-No.
No.		mm	4000896+
6303	1-10	160	026678

Adapter



- For the connection of sockets with square drive according to DIN 3120 and operating tools with hexagon drive
- Chrome-Vanadium
- Surface phosphatized

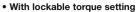
HAZET No.	•	•	EAN-No. 4000896+
2304	6,3 = ¹ / ₄ "	6,3 = 1/4"	016020

Torque Wrench



Torque Wrench

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



- Especially suitable for application in series production
- With plug-and-socket connection to accommodate insert tools
- Release accuracy tolerance in direction of actuation: ± 2% of scale value according to DIN EN ISO 6789:2003 (D)

Adjusting the desired torque value with Adjustment Wrench HAZET 6399 in conjunction with Torque Tester

HAZET	6903	6905	or any	other	suitable	device.

H <u>AZET</u> No.	mm	Nm	/ mm	EAN-No. 4000896+	
6391-12	9 x 12	2-12	125	027026	
6391-25	9 x 12	2-25	180	027040	
6391-35	9 x 12	15-35	180	027057	
With factory-set	With factory-set release torque according to your needs				
6391-12 V •	9 x 12	2-12	125	145850	
6391-25 V •	9 x 12	2-25	180	145867	
6391-35 V •	9 x 12	15-35	180	145874	



• With lockable torque setting

- Especially suitable for application in series production
- With plug-and-socket connection to accommodate insert tools
- Release accuracy tolerance in direction of actuation: ± 2% of scale value according to DIN EN ISO 6789:2003 (D)

Adjusting the desired torque value with Adjustment Wrench HAZET 6399 in conjunction with Torque Tester HAZET 6903, 6905 or any other suitable device.

HAZET No.	mm	Nm	/ mm	EAN-No. 4000896+	
6391-50	9 x 12	5-50	240	027064	
6391-85	9 x 12	15-85	315	027071	
With factory	-set release to	rque according	to your need	s	
6391-50 V •	9 x 12	5-50	240	145881	
6391-85 V •	9 x 12	15-85	315	145898	



- With lockable torque setting
- Especially suitable for application in series production
- With plug-and-socket connection to accommodate insert tools
- Release accuracy tolerance in direction of actuation: ± 2% of scale value according to DIN EN ISO 6789:2003 (D)

Adjusting the desired torque value with Adjustment Wrench HAZET 6399 in conjunction with Torque Tester HAZET 6903, 6905 or any other suitable device.

11/1221 0000, 0	The Let 6000, 6000 of any other cultable device.				
HAZET No.	mm	Nm	/ mm	EAN-No. 4000896+	
6392-200	14 x 18	50 - 200	400	027118	
6392-320	14 x 18	60 - 320	630	027125	
With factory-s	et release to	rque according	to your need	ds	
6392-200 V •	14 x 18	50 - 200	400	145904	
6392-320 V •	14 x 18	60 - 320	630	145911	

027149



Special Lever



Forged from solid steel

6397

- With plug-and-socket-connection to accommodate insert tools
- For loosening tight screwed connections
- · Without any torque function

,			
HAZET No.	mm	/ mm	EAN-No. 4000896+
6396	9 x 12	405	027132

Adjustment Wrench



14 x 18

For Torque Wrenches HAZET 6391-6392, to adjust and to lock the torque value

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

Insert Reversible Ratchet





• 6401-1 20 teeth - max. 40 Nm 6403-1 32 teeth - max. 120 Nm

6402-1 30 teeth - max. 120 Nm 6404-1 32 teeth - max. 300 Nm

- Chrome-Vanadium
- Drop forged
- Surface chrome-plated

caraco cinomo piatoa						
HAZET No.	•	mm	/* mm	_ mm	EAN-No. 4000896+	
6401-1	6,3 = 1/4"	9 x 12	19,5	46,5	027439	
6402-1	10 = 3/8"	9 x 12	30	61	027460	
6403-1	12,5 = ½"	9 x 12	38,5	74,5	027521	
6404-1	12,5 = ½"	14 x 18	38,5	83,5	027552	



- Fine tooth, **72 teeth,** rotation angle 5°
- Square drive according to DIN 3120 A, ISO 1174-1 A
- Chrome-Vanadium
- Drop forged
- Surface chrome-plated
- 6401 N max. 40 Nm 6404 max. 300 Nm 6402 and 6403 max. 120 Nm 6406 max. 800Nm

HAZET No.	•	mm	[* mm	_ mm	EAN-No. 4000896+	
6401 N	6,3 = 1/4"	9 x 12	17,5	46	115204	
6402	10 = 3/8"	9 x 12	26	58,5	027453	
6403	12,5 = ½"	9 x 12	26	58,5	027514	
6404	12,5 = ½"	14 x 18	27	70,5	027545	
6406	20 = 3/4"	14 x 18	44	101	027576	

Insert Reversible Ratchet





- With locking device and quick release press button
- Square drive according to DIN 3120 A, ISO 1174-1 A
- 6401-1 S 20 teeth max. 40 Nm 6403-1 S 32 teeth max. 120 Nm 6402-1 S 30 teeth - max. 120 Nm 6404-1 S 32 teeth - max. 300 Nm
- Chrome-Vanadium
- Drop forged
- Surface chrome-plated

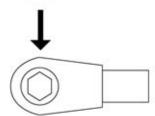
HAZET No.	•	mm	/ ₩ mm	/ mm	EAN-No. 4000896+	
6401-1 S	6,3 = 1/4"	9 x 12	19,5	46,5	027446	
6402-1 S	10 = 3/8"	9 x 12	30	61	027477	
6403-1 S	12,5 = ½"	9 x 12	38,5	74,5	027538	
6404-1 S	12,5 = ½"	14 x 18	38,5	83,5	027569	

Reversible Ratchet for Bits









- For Screwdriver Bits
- · Chrome-Vanadium
- Drop-forged
- Surface chrome-plated

HAZET No.	0	mm	ľ* mm	/ mm	EAN-No. 4000896+		
○ drive 6.3 = ¼" 20 teeth							
6408	6,3 = 1/4"	9 x 12	19,5	46,5	027583		
○ drive 8 = 5/16" 30 teeth							
6408-1	8 = 5/16"	9 x 12	30	61	027590		

Repair Set



HAZET



Please observe the following characteristics:

- Shift lever, burnished (black)
 Replaceable head
- 3. since 1985 ergonomic plastic handle

Repair Set for ratchet wheel 10 = %" ■ consisting of: ratchet wheel, pawl, shift lever, screws, ball, compression spring
for 8816 G, 8816 GK, 8816 P, 8816 ST, 6110 CT, 6110-1 CT, 6111-1 CT,
6114-1 CT, 6115-1 CT, 6402-1
8816 P/7 N 042234

EAN-No.

111169

Repair Set

HAZET EAN-No.

Repair Set for ratchet wheel 6.3 = 1/4" ■

consisting of:

ratchet wheel, pawl, shift lever, screws,

ball, compression spring for 5108-2 CT, 6108-1 CT, 6109-1 CT, 6109-2 CT, 6401-1

Repair Set for ratchet wheel 6.3 = 1/4" ■

consisting of:

ratchet wheel, pawl, shift lever,

screws, ball, compression spring

for 6401-1 S

6401-1 S/7 111152

Repair Set for shift lever, consisting of: shift lever, screws, ball, compression spring and pawl

for 6403-1, 6403-1 S, 6404-1, 6404-1 S

070756

Repair Set for ratchet wheel 12.5 = ½" ■

consisting of:

ratchet wheel, pawl, shift lever, screws,

ball, compression spring, spring washer, lockring for 6403-1, 6404-1

6403-1/9 070749

Repair Set for ratchet wheel 12.5 = ½" ■

consisting of:

ratchet wheel, pawl, shift lever,

screws, ball, compression spring,

spring washer, lockring

for 6403-1 S, 6404-1 S

6403-1 S/9 070817

Repair Set for ratchet wheel $6.3 = \frac{1}{4}$ " \bigcirc

consisting of:

ratchet wheel, pawl, shift lever,

screws, ball, compression spring

for 6408

6408/7 111145

Repair Set for ratchet wheel 10 = 3/8" ■

consisting of:

ratchet wheel, pawl, shift lever, screws,

ball, compression spring for 8816 S, 6402-1 S

8816 S/7 048465

Insert Holder with Square Drives



10 3/8

6.3 1/4

10 3/8

Set, 4 pieces Contents:

6413-1 2 3 4

HAZET	EAN-No.
No.	4000896+
6413/4	027651

Spare	Parts					
HAZET No.	•	mm	, * mm	_ mm	EAN-No. 4000896+	
Holder square ins ☐ drive 10	ert 9 x 12 = 3%"					
6413-1	-	9 x 12	17,5	43,5	027644	
Sliding square tangs ■ 10 = %"						
6413-2	6,3 = 1/4"	-	-	22	048908	
6413-3	10 = 3/8"	_	-	26	048892	
6413-4	$12.5 = \frac{1}{2}$ "	_	_	30,4	048885	

Insert Square Drive



- Square drive, DIN 3120 A, ISO 1174-1
- Chrome-Vanadium
- Surface chrome-plated

HAZET No.	•	mm	/.* mm	_ mm	EAN-No. 4000896+	
6414	$12,5 = \frac{1}{2}$ "	14 x 18	25	63,5	027668	
6416	$20 = \frac{3}{4}$ "	14 x 18	25	70	027682	

Bit Holder



DIN 3126, chrome-plated

HAZET No.	0	mm	/ * mm	/ mm	EAN-No. 4000896+	
6420 b	$6,3 = \frac{1}{4}$ "	9 x 12	17,5	40,5	027903	
6420 c	8 = ⁵ / ₁₆ "	9 x 12	17,5	41,5	027910	
6420 d	8 = ⁵ /16"	14 x 18	25	58	027927	

Insert Adapter



HAZET EAN-No. 4000896+ mm Square insert 14 x 18 to 9 x 12 6423 c 14 x 18 9 x 12 34 50 027934 Square insert 9 x 12 to 14 x 18 057559 6423 d 9 x 12 20 14 x 18

Insert Adapter with Hinge Joint



- For the operation of screwed connections in areas with restricted access or behind obstacles, e.g. with torque wrench or reversible ratchet
- May be used as extension and adapter 14 x 18 to 9 x 12
- Alternatively to be operated with □ 10 = %"
- Flat style
- Chrome-Vanadium
- Surface chrome-plated
- DBGM German registered utility model

Note: Tightening with precise torque values is possible only in straight, in-line position

HAZET No.	mm	mm	[₩ mm	/ mm	EAN-No. 4000896+	
6423 g	9 x 12	14 x 18	46	68	096053	



Insert Adapter





- With plug-and-socket-connection to accommodate insert tools
- ☐ drive 10 = 3/8"
- For the operation of screwed connections in areas with restricted access (engine compartment)
- Chrome-Vanadium
- Surface chrome-plated

HAZET No.	mm		/ mm	EAN-No. 4000896+	
6424 c	9 x 12	26,5	33,5	053759	

Blank-End Insert



HAZET No.	mm	/ * mm	/ mm	EAN-No. 4000896+
6430 c	9 x 12	**	25	027958
6430 d	14 x 18	**	38	027965

 $^{^{\}star\star}\!=\!$ Caution: when welding-on tools, the release torque values may change, pay attention to effective lengths (see page 223)

Open End Insert Tool



Chrome-plated

HAZET No.	mm	/ * mm	/ mm	EAN-No. 4000896+	
6450 c- 7	9 x 12	17,5	36,5	028429	
6450 c- 8	9 x 12	17,5	37	028436	
6450 c- 9	9 x 12	17,5	37,5	028443	
6450 c-10	9 x 12	17,5	38	028320	
6450 c-11	9 x 12	17,5	38,5	028337	
6450 c-12	9 x 12	17,5	38,5	028344	
6450 c-13	9 x 12	17,5	39	028351	
6450 c-14	9 x 12	20	42	028368	
6450 c-15	9 x 12	20	42,5	028375	
6450 c-16	9 x 12	20	43	028382	
6450 c-17	9 x 12	20	43,5	028399	
6450 c-18	9 x 12	20	44	028405	
6450 c-19	9 x 12	20	45	028412	
6450 d-13	14 x 18	25	56,5	028450	
6450 d-14	14 x 18	25	57	028467	
6450 d-15	14 x 18	25	57,5	028474	
6450 d-16	14 x 18	25	58	028481	
6450 d-17	14 x 18	25	58,5	028498	
6450 d-18	14 x 18	25	59	028504	
6450 d-15 6450 d-16 6450 d-17	14 x 18 14 x 18 14 x 18 14 x 18	25 25 25 25 25	57 57,5 58 58,5	028467 028474 028481 028498	

Open End Insert Tool

◀

HAZET No.	mm	<i>\(\frac{*}{\w} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\</i>	/ mm	EAN-No. 4000896+	
6450 d-19	14 x 18	25	59,5	028511	
6450 d-21	14 x 18	25	60,5	028528	
6450 d-22	14 x 18	25	61	028535	
6450 d-24	14 x 18	25	62	028542	
6450 d-27	14 x 18	32,5	68,5	028559	
6450 d-30	14 x 18	32,5	70	028566	
6450 d-32	14 x 18	32,5	71,5	028573	
6450 d-34	14 x 18	32,5	73,2	050178	
6450 d-36	14 x 18	32,5	73,3	072507	
6450 d-38	14 x 18	32,5	72,7	072514	
6450 d-41	14 x 18	40	79	028580	

TORX® Box-End Insert Tool





- For outside TORX® screws
- Chrome-plated

 Chrome-plate 	d					
HAZET No.	mm	€ mm	[* mm	/ mm	EAN-No. 4000896+	
6609 c-E 8	9 x 12	7,52	17,5	39	074716	
6609 c-E 10	9 x 12	9,42	17,5	40,0	049738	
6609 c-E 11	9 x 12	10,08	17,5	40,6	049745	
6609 c-E 12	9 x 12	11,17	17,5	42,1	049752	
6609 c-E 14	9 x 12	12,90	17,5	42,8	049769	
6609 c-E 16	9 x 12	14,76	17,5	44,3	049776	
6609 c-E 18	9 x 12	16,70	17,5	45	049783	
6609 c-E 20	9 x 12	18,49	17,5	46,5	049790	
6609 c-E 22	9 x 12	20,32	17,5	47	049806	
6609 c-E 24	9 x 12	22,16	17,5	48,8	049813	
6609 d-E 10	14 x 18	9,42	25	58	054794	
6609 d-E 11	14 x 18	10,08	25	58,5	054800	
6609 d-E 12	14 x 18	11,17	25	59	054817	
6609 d-E 14	14 x 18	12,90	25	60	054824	
6609 d-E 16	14 x 18	14,76	25	61	054831	
6609 d-E 18	14 x 18	16,70	25	62	054848	
6609 d-E 20	14 x 18	18,49	25	63,5	054855	
6609 d-E 22	14 x 18	20,32	25	64,3	054862	
6609 d-E 24	14 x 18	22,16	25	65,3	054879	

Flare Nut Insert Tool



Chrome-plated

HAZET No.	mm	[* mm	_ mm	EAN-No. 4000896+	
6612 c-10	9 x 12	17,5	42,3	028726	
6612 c-11	9 x 12	17,5	42,8	028733	
6612 c-12	9 x 12	17,5	43,4	028740	
6612 c-13	9 x 12	17,5	43,7	028757	
6612 c-14	9 x 12	17,5	44,4	028764	
6612 c-16	9 x 12	17,5	45,4	028771	
6612 c-17	9 x 12	17,5	45,9	028788	
6612 c-18	9 x 12	17,5	46,1	028795	
6612 c-19	9 x 12	17,5	46,8	028801	
6612 c-21	9 x 12	17,5	48	028818	
6612 c-22	9 x 12	17,5	48,8	028825	

Box-End Insert Tool



- With Traction profile

 Chrome-plate 	ed				
HAZET No.	mm	/* mm		EAN-No. 4000896+	
6630 c- 7	9 x 12	17,5	40	028955	
6630 c- 8	9 x 12	17,5	40,6	028962	
6630 c-10	9 x 12	17,5	42,1	028832	
6630 c-11	9 x 12	17,5	42,8	028849	
6630 c-12	9 x 12	17,5	43,5	028856	
6630 c-13	9 x 12	17,5	43,8	028863	
6630 c-14	9 x 12	17,5	45	028870	
6630 c-15	9 x 12	17,5	45,5	028887	
6630 c-16	9 x 12	17,5	46,5	028894	
6630 c-17	9 x 12	17,5	47	028900	
6630 c-18	9 x 12	17,5	47,8	028917	
6630 c-19	9 x 12	17,5	48,8	028924	
6630 c-21	9 x 12	17,5	50	028931	
6630 c-22	9 x 12	17,5	50,8	028948	
6630 d-13	14 x 18	25	60,8	028979	
6630 d-14	14 x 18	25	61,5	028986	
6630 d-15	14 x 18	25	62	028993	
6630 d-16	14 x 18	25	62,9	029006	
6630 d-17	14 x 18	25	63,6	029013	
6630 d-18	14 x 18	25	64,3	029020	
6630 d-19	14 x 18	25	65,3	029037	
6630 d-21	14 x 18	25	66,5	029044	
6630 d-22	14 x 18	25	67,3	029051	
6630 d-24	14 x 18	25	68,8	029068	
6630 d-27	14 x 18	31	76,8	029075	
6630 d-30	14 x 18	31	78,5	029082	
6630 d-32	14 x 18	31	79,8	029099	
6630 d-34	14 x 18	31	81,3	029105	
6630 d-36	14 x 18	31	82,5	029112	
6630 d-41	14 x 18	31	85,5	029129	

Safe Box



- For safe storage of torque wrenches
- Up to size BX 8 with display window
- Plastic, black

Flastic, Diack			
HAZET No.	_ mm		EAN-No. 4000896+
For HAZET 6110-1 CT	6114-1 CT 6290)-1 CT	
6060 BX-2	420		024629
For HAZET 5121-2 CLT 6291-2 CT	6111-1 CT 611	5-1 CT 6121-1 C	CT 6291-1 CT
6060 BX-4	530		024636
For HAZET 5122-2 CLT	6122-1 CT 612	27-1 CT 6292-1 C	T
6060 BX-6	635		024643
For HAZET 5123-2 CLT 6123-1 CT 6128-1 CT			
6060 BX-8	775		102907

Safe Box

H <u>AZET</u> No.	, mm		EAN-No. 4000896+	
Without display for 6143-1 CT				
6060 BX-10	830		116515	
Without display for 6132-1 CT	6145-1 CT	6295-1 CT	6296-1 CT	
6060 BX-12	1310		116522	

Mechanical Angle Dial



- For tightening screws as a function of the torsion angle
- To be used between all torque wrenches with ■ drive 12.5 = $\frac{1}{2}$ " (resp. 20 = $\frac{3}{4}$ ") and tools with □ drive 12.5 = $\frac{1}{2}$ " (resp. 20 = $\frac{3}{4}$ ")
- With flexible magnetic holder for the fixing point
- Range 0 360°, graduation 1°, 95 mm Ø

HAZET No.	□■	EAN-No. 4000896+
6690	12,5 = ½"	029266
6690-1	20 = 3/4"	029273

Torque Multiplier



Improved, light style made of aluminium. Up to a 30% less weight than comparable steel version!

- For tight screwed connections
- Avoids the application of lever arms, impact tools, etc., prevents screwed connections from damage
- External energy supply is not necessary
- Low maintenance
- High accuracy ± 5%
- For building and agricultural machines, commercial vehicles, plant and engine construction and ship building
- Transmission ratio:

6800 ALU-700 approx. 1:3.5 6800 ALU-1400 approx. 1:3.5 6800 ALU Lg-1400 approx. 1:3.5 6800 ALU-2800 approx. 1:12 approx. 1:12

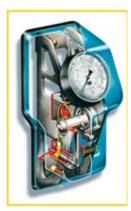
	HAZET No.	Nm		•	EAN-No. 4000896+	
ı	6800 ALU- 700	700	12,5 = ½"	$20 = \frac{3}{4}$ "	143467	
ı	6800 ALU-1400	1400	20 = 3/4"	25 = 1"	143481	
ı	6800 ALU-2800	2800	20 = 3/4"	25 = 1"	143603	
ı	Extra long pattern	1				
ı	e.g. for deeply loca	ated wheel b	olts/nuts on cor	mmercial vehic	eles	
ı	6800 ALU-La 1400	1400	20 = 3/4"	25 = 1"	143580	

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Hydraulic Torque Tester





- For torque wrench testing and adjustment
- Tolerance ± 1% of scale value
- Low mass acceleration
- Reduced friction
- · Ball-bearing primary shaft
- Motion of pointer damped, pointer does not swivel or move upon release of the Torque Wrench
- Inside 8-point drive 12.5 = $\frac{1}{2}$ " additional adapter 10 = $\frac{3}{2}$ " and 20 = $\frac{3}{4}$ " (included)
- Space-saving wall fixation with two heavy-duty dowels (included)

HAZET No.	Nm	EAN-No. 4000896+
6903	10-200	029310
6905	20-400	029327

Torque wrenches and torque testers are high precision measuring tools. They have to be checked with an appropriate tester after a certain period of time and adjusted when required. The checking frequency depends on the using frequency.

HAZET disposes of the corresponding torque testers. After testing and adjustment, the torque wrenches and torque testers sent to HAZET are supplied with a test certificate.

Electronic Torque Tester



Compact and easy-to-handle testing device

- Accuracy tolerance ± 1%
- Measuring range 10-350 Nm (max. torque)
- Big and easy to read LED status display with 3 LED
- · Quick wall or table fixation with 4 screws
- Fix square socket, 12.5 = ½"
- Simple handling reducing user errors to a minimum
- 3 operation modes: tracking mode Click mode for click point indication (1st peak) DIAL mode vor peak value indication (final peak)
- · Calibration in Nm, torque units lbf.ft and lbf.in may also be selected
- Possibility to enter target torque setting and percentage tolerance setting
- RS-232 cable (included in delivery) for connection to computer, printer as well as mains receiver

Weight: 2.5 kg
 H 145.5 x W 150 x D 85 mm

HAZET No.	Nm	EAN-No. 4000896+
7901 E	10-350	140671

The HAZET torque testing devices are constantly supervised and calibrated by the German Calibration Service (DKD). This guarantees the existing essential competence in the field of controlled screw tightening as well as the high qualitity of the HAZET torque wrenches and torque testing devices.

Conversion Chart · Torque Values

SYSTEM 5000 CT/CLT/6000 CT

lbf.ft	Nm	lbf.ft	Nm
1	1.4	35	47.5
2	2.7	40	54.2
3	4.1	45	61.0
4	5.4	50	67.8
5	6.8	60	81.3
6	8.1	70	94.9
7	9.5	80	108.5
8	10.8	90	122.0
9	12.2	100	135.6
10	13.6	120	162.7
15	20.3	140	189.8
20	27.1	160	216.9
25	33.9	180	244.0
30	40.7	200	271.2

Nm	lbf.ft	Nm	lbf.ft
1	0.7	40	29.5
2	1.5	45	33.2
3	2.2	50	36.9
4	3.0	55	40.6
5	3.7	60	44.3
6	4.4	70	51.6
7	5.2	80	59.0
8	5.9	90	66.4
9	6.6	100	73.8
10	7.4	110	81.1
15	11.1	120	88.5
20	14.8	130	95.9
25	18.4	140	103.3
30	22.1	150	110.6
35	25.8	200	147.5

	1 Nm	1 lbf.ft ≙ 12 lbf.in	1 Nm ≙ 0.1020 kpm
П	1 lbf.ft ≙ 1.3558 Nm	1 lbf.in ≙ 0.0833 lbf.ft	1 kpm ≙ 9.807 Nm

During continuous operation with Reversible Ratchets and square drive Insert Tools (HAZET 6401-1 - 6416) the max. torque values are limited as follows: 6401-1 = 40 Nm, 6402, 6402-1 = 120 Nm, 6403, 6403-1 = 120 Nm, 6404, 6404-1 = 300 Nm, 6406 = 800 Nm

The max. torque values of Open End-, Flare Nut- and Box Wrenches (HAZET 6450 - 6630) depend on the respective wrench size (DIN 899) and can be smaller than the max. torque value of the tool in operation. The audible and palpable "click"-signal abates when torque value is lower.

The release accuracy corresponds to a room temperature of 20 °C.

Torque Wrench to be reset to smallest value after operation!