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TORQUE

The importance of torque control



Fastening a threaded fastener in a controlled manner is essential for operational safety and the long service life of screws and bolts. Manual fastening without any torque control is a safety risk. Depending on personal constitution, the screwed fitting can be over-tightened and there is the risk of breakage or the screwed fitting can become loose and open with very low application of force. A torque wrench that has been calibrated regularly

helps to achieve the specified fastening torques or avoids over-tightening.







Confidence is good torque control is better!



Competence and service

Our competence is expressed by the measuring instruments and test equipment used by us, which are monitored continuously and, if required, adjusted, by a laboratory that is accredited by the DKD (German Calibration Service). They are calibrated by comparing them with standard reference units, which are traceable to the national standards. This ensures our competency in the field of controlled fastening of screws and, in the long term, the quality of our torque wrenches and equipment.

Torque wrenches and torque test instruments are measuring tools; just as any other measuring tool, they must also be serviced regularly and calibrated with suitable measuring instruments and, if required, adjusted. The test interval periods depend on the frequency of use.

Our service includes the affordable requirement of both the normal calibration certificate in accordance with DIN EN ISO 6789 and on request, the calibration certificate in accordance with DKD (German Calibration Service) guidelines. We maintain, calibrate and adjust those of our own manufacture within 5 working days after goods are received in accordance with the DIN EN ISO 6789 standards including the factory test certificate and the control sticker.





Torque tools

Indicative torque wrench according to DIN6789 typ I

Torque screwdrivers

- ESD torque screwdriver
- · For controlled display in a clockwise and counter clockwise direction
- · Torque screwdriver with a helical pressure spring
- · Electro static discharge electrostatically protected
- Range 20 500 c•N

Type torque wrench with dial indicator and drag indicator

- · For controlled display in a clockwise and counter clockwise direction
- · Display type torque wrench with dial indicator and drag indicator · Using the torsion bar principle, and in contrast to conventional torque
- wrenches, it is possible to grip the torque wrench in any position
- Bange 0.7 2.800 N•m

Torque wrenches

Triggering torque wrench according to DIN6789 typ II

Torque screwdrivers

ESD torque screwdriver

- · For controlled fastening in clockwise and counter clockwise directions
- · Clearly palpable release signal when the
- desired torque is achieved
- · Electro static discharge electrostatically protected
- Range 1 1.000 c•N

Torque wrenches

- Torque wrench with quick-set feature · With idle condition, resetting to the minimum
- value (0) is not necessary · For controlled fastening in a clockwise direction
- · Can untighten without any torque restraint thanks to the anticlockwise latch
- · Clearly palpable release signal when the
- desired torque is achieved via close gap release Torque setting is simple and quick by
- sliding the scale using the knurled-head screw • Range 10 - 1.000 N•m

KS Ergotorque®precision

- The direction of rotation (clockwise and counter clockwise) can be changed by simply rotating the square drive piece
- Clearly palpable release signal when the
- desired torque is achieved via close gap release • Range 1 - 1.000 N•m

- ALUTORQUE precision torque wrench · Single or double square for controlled fastening
- in clockwise and counter clockwise directions · Clearly palpable release signal when the
- desired torque is achieved via close gap release
- · Light, robust and very workshop-friendly
- Range 6 2.000 N•m

Torque testing

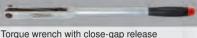
Type torque wrench with dial

indicator and drag indicator

- · For controlled display in a clockwise and counter clockwise direction
- Display type torque wrench with dial indicator and drag indicator
- Tool mounting using a three jaw chuck
- Range 1 c•N 9 N•m

Mini torque wrenches

- · For controlled fastening in a clockwise direction · Can untighten without any torque
- restraint thanks to the anticlockwise latch
- Clearly palpable release signal when the
- desired torque is achieved via close gap release • Range 3 - 15 N•m



- · For controlled fastening in clockwise and counter clockwise directions
- The direction of rotation (clockwise and counter clockwise) can be changed by simply rotating the square drive piece
- · Clearly palpable release signal when the desired torque is achieved via close gap release
- Range 2,5 2.000 N•m

- KS Ultimateprecision
- The direction of rotation (clockwise and counter clockwise) can be changed by simply rotating the square drive piece
- · Clearly palpable release signal when the
- desired torque is achieved via close gap release • Range 1 - 1.000 N•m

- Industrial torque wrench
- · For controlled fastening in clockwise and counter clockwise directions
- Torque setting is easy using the locking knob in the handle end
- · Clearly palpable release signal when the desired torque is achieved via close gap release • Range 1 - 1.500 N•m

Electronic torque wrench workshop

• High accuracy: +1 % tolerance for

· For testing and adjusting torque

and counter clockwise direction

· With autoreset and automatic

wrenches and torque screwdrivers

· For controlled display in a clockwise

values within their range,

tool

switch-off • Range 1 -1.000 N•m

Torque convertor

- Universal torque converter
- For controlled fastening in clockwise and counter clockwise directions
- Device for angle-regulated
- fastening with a torque wrench
- With single-stage precision planetary gear for both directions
- Range up to 2.700 N•m



- · For controlled fastening in clockwise and counter clockwise directions
- · Clearly palpable release signal when the
- desired torque is achieved
- Range 0,1 6,0 N•m



- KS Ergotorque[®]basic
- · For controlled fastening in clockwise and counter clockwise directions
- The direction of rotation (clockwise and counter clockwise) can be changed by simply rotating the square drive piece
- · Clearly palpable release signal when the desired torque is achieved via close dap release
- Range 10 320 N•m
- Preset ratcheting torque wrench
- · For controlled fastening in a clockwise direction
- · Clearly palpable release signal when the
- desired torque is achieved • It is not possible to over tighten the set value
- Range 1 -125 N•m

- Universal torque converter For controlled fastening in
- clockwise and counter clockwise directions
- Device for angle-regulated fastening with a torque wrench
- · With anti-backlash mechanism

Range up to 9.500 N•m

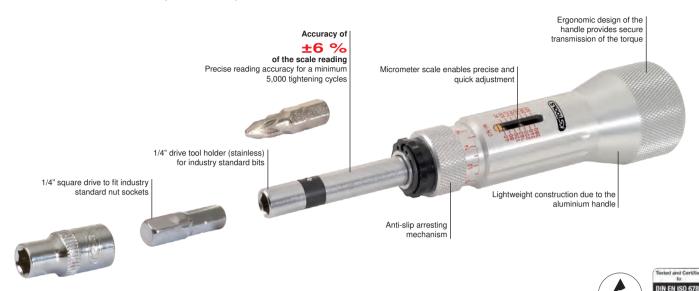
TORQUE SCREWDRIVERS

This torque screwdriver is fitted with a friction clutch.

This enables it to ratchet when the set value is achieved. As a result, it is not possible to over-tighten the screw.

The torque screwdriver has fastening function in clockwise

and counter clockwise directions and is adjusted with the help of a micrometer scale.



ESD Torque screwdriver with micrometer scale

- •Actuation accuracy: ±6 % tolerance of the set scale value · Precise reading accuracy for a minimum 5.000 tightening cycles
- · For controlled fastening in clockwise and counter clockwise directions
- •With precision helical pressure spring
- ·Clearly palpable release signal when the desired torque is
- achieved
- It is not possible to over-tighten the set value
 Micrometer scale in N•m divisions for precise and fine adjust-
- ment · Ergonomic designed handle provides secure transmission of
- the torque
- Tool holder female hexagon 6 point to DIN 3126 E6,3
- · Electro static discharge electrostatically protect
- · Lightweight construction due to the aluminium handle Individually marked with serial number - unique product
- identification Includes test certificate in accordance with DIN EN ISO

6789:2003 national standard

D2

Torque screwdriver with micrometer scale

- Actuation accuracy: ±6 % tolerance from the set scale value and better
- Precise reading accuracy for a minimum 5.000 tightening cycles
- · For controlled fastening in clockwise and counter clockwise directions
- With precision helical pressure spring Clearly noticeable torque release signal through ratchet
- It is not possible to over tighten the set value
 Automatic reset in the initial position
- · Including a micrometre scale in N•m divisions for precise and fine adjustment
- · Ergonomic designed rubber handle provides secure torque transmission
- Hexagon socket holder in accordance with DIN 3126 E6,3
- Individual serial number for clear product identification
 Includes test certificate in accordance with DIN EN ISO

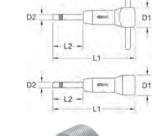
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6789:2003 - traceable to national standards

ESD Fixed adjustable torque screwdriver with colour coding

FSC

- Actuation accuracy: ±6 % tolerance from the set value · Precise reading accuracy for a minimum 5.000 tightening cycles
- · For controlled fastening in clockwise and counter clockwise directions
- · With precision helical pressure spring · Clearly palpable release signal when the desired torque is
- achieved
 - It is not possible to over-tighten the set value
 Without scale With a fixed adjustable value
 - · Ergonomic designed handle provides secure transmission of the torque
- Tool holder female hexagon 6 point to DIN 3126 E6,3
- Electro static discharge electrostatically protect
 Lightweight construction due to the aluminium handle · Individually marked with serial number - unique product
- identification Includes test certificate in accordance with DIN EN ISO 6789
 - national standard





	Measuring range cN•m	L1 mm	L2 mm	D1 mm	D2 mm	Colour code	9	
516.3910	1 - 15	92.0	22.0	16.0	8.0	-	45	
516.3915	5 - 60	102.0	40.0	25.0	10.0	-	94	
516.3920	40 - 200	111.0	49.0	30.0	10.0	green	170	
516.3925	100 - 500	126.0	56.0	35.0	10.0	red	220	



Tom H

+12-

D1

1/4" (63)

	Measuring range cN+m	Division cN•m	Division N•m	L1 mm	L2 mm	D1 mm	D2 mm	9	
516.3210	1-15	0.1		111.0	26.0	16.0	10.0	60	
516.3215	2-30	0.2		111.0	26.0	16.0	10.0	60	
516.3220	5-60	0.5		111.0	26.0	25.0	10.0	99	
516.3225	20-120	1.0		157.0	51.0	30.0	10.0	192	
516.3235	40-300	1.0		157.0	51.0	34.0	10.0	214	
516.3240	100-500	2.5		200.0	63.0	40.0	10.0	436	
516.3245	400-1000		0.05	235.0	100.0	45.0	11.0	762	



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Pre-set torque screwdriver

- Actuation accuracy: ±6 % tolerance from the set scale value and better
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For controlled fastening in clockwise and counter clockwise directions
- •Clearly noticeable torque release signal through ratchet •It is not possible to over tighten the set value
- Automatic reset in the initial position
 Without scale with a fixed adjustable value
- · Ergonomic designed handle provides secure torque transmis-
- sion
- •Hexagon socket holder in accordance with DIN 3126 E6,3 Individual serial number for clear product identification
- Includes test certificate in accordance with DIN EN ISO 6789:2003 - traceable to national standards

- Stubby torque wrench with exact gearing reversible ratchet hea
- Actuation accuracy: ±3 % tolerance of the set scale value • Precise reading accuracy for a minimum 5.000 tightening cvcles
- •For controlled fastening in a clockwise direction •Can untighten without any torque restraint thanks to the
- anticlockwise latch
- ·An audible and palpable signal when the desired torque value is achieved
- •With exact gearing 72 teeth ratchet mechanism •With ejection mechanism on the ratchet head
- · Ergonomic designed handle provides secure transmission of
- the torque
- •Square drive adaptor to DIN 3120 ISO 1174 with ball lock Individually marked with serial number - unique product identification
- Includes test certificate in accordance with DIN EN ISO 6789:2003 national standard
- D2 00 11111 (C)00(5) 11111 D1 L2 1/4" (6,3 mm)

	Measuring range N•m	L mm	L2 mm	D1 mm	D2 mm	9	
516.3930	0,2 - 1,2	132.0	25.0	30.0	11.0	183	
516.3935	1 - 1,8	132.0	25.0	30.0	11.0	183	
516.3940	1 - 6	200.0	25.0	30.0	11.0	445	



ESD Dial indicating torque screwdriver with a drag

•Display accuracy: ±6 % tolerance of the set scale value • Precise reading accuracy for a minimum 5.000 tightening

cycles • For controlled fastening in a clockwise and counter clockwise direction

• Torque screwdriver with a helical pressure spring · Ergonomic designed handle provides secure transmission of

the toraue •Tool holder female hexagon 6 point to DIN 3126 - E6,3

- Electro static discharge electrostatically protect
 Lightweight construction due to the aluminium handle
- · Individually marked with serial number unique product identification
- Includes test certificate in accordance with DIN EN ISO 6789:2003 national standard





1/4" (63) 🏠

	Measuring range cN•m	Division cN•m	L1 mm	L2 mm	D1 mm	D2 mm	9
516.3260	20 - 100	2.0	222.0	130.0	48.0	12.0	290
516.3265	50 - 200	5.0	242.0	130.0	48.0	12.0	320
516.3270	100 - 500	20.0	300.0	188.0	48.0	14.0	420

D
A B
- L -



0.50

18.0 190

ROTARY ANGLE DISCS

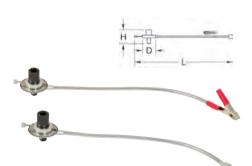
1/4"

3 - 15

Rotary angle disc

516.3280

- ·For fastening screws at an angle · Device for angle regulated fastening with a torque wrench
- Flexible arm
- Range 0° 360°
 Square drive adaptor to DIN 3120 ISO 1174 with ball lock •Optionally with a magnetic arm or claw arm



1/2" 3/4"

			Arm	Pitch	D mm	H mm	L mm	9	
516.1195	1/2"	1/2"	magnet	2°	67.0	63.0	480.0	170	
516.1196	1/2"	1/2"	claw	2°	67.0	63.0	538.0	60	
516.1197	3/4"	3/4"	magnet	2°	87.0	87.0	624.0	170	
516.1198	3/4"	3/4"	claw	2°	87.0	87.0	698.0	60	



Clearly achieve It is not Without Can unit anticloc	trolled faste palpable rel	ease sig over-tig h a fixed but any	gnal w hten th d adjus torque	hen the ne set v stable v restrai	e desir value value int thai	ed to nks to	the ball lock
			N∙m	D mm	L mm	9	
516.1501	3/8"	3/8"	18	28.0	51.5	165	
516.1502	3/8"	3/8"	24	28.0	52.0	166	
Pro-sot :	torque limit	tor with	ball k	ock			
 High ac For con direction Clearly It is not Automa Without Easy to For app 	curacy trolled faste ns noticeable t possible to tic reset in t scale - with operate lication with n socket ho	ning in o orque re over tig he initia a a fixed low tor lder in a	clockw elease hten th l posit adjus que accord	rise an signal ne set v ion table v ance w	throug value alue vith DIN)h rate	chet 6 - E6,3

TORQUE LIMITERS

High accuracy

Torque limiter for spark plugs



3/8 (63)							1		
	0		Measuring range N•m	D1 mm	D2 mm	L mm	g		
516.1503	1/4"	3/8	0,5-5	22.0	11.0	75.0	91		

16.1503 1/4* 3/8 0.5-5 22.0 11.0 75.0 91 16.1504 1/4* 3/8 5-10 22.0 11.0 75.0 91			_	N•m					
16.1504 1/4" 3/8 5-10 22.0 11.0 75.0 91	16.1503	1/4"	3/8	0,5-5	22.0	11.0	75.0	91	
	16.1504	1/4"	3/8	5-10	22.0	11.0	75.0	91	

Pre-set torque limiter with ball lock

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- · High accuracy · For controlled fastening in clockwise and counter clockwise directions
- •Clearly noticeable torque release signal through ratchet •It is not possible to over tighten the set value
- ·Automatic reset in the initial position
- ·Without scale with a fixed adjustable value
- Easy to operate • For application with low torque
- Square drive in accordance with DIN 3120 ISO 1174 with ball lock

516.1508

3/8" 3/8"



10.0 75.0 93

5-10 22.0

TORQUE WRENCH





Accuracy of

±3 %

5,000 tightening cycles

of the scale reading Precise reading accuracy for a minimum

Ratchet head:

A highly robust ratchet mechanism for clockwise and counter-clockwise movement is integrated in the polished ratchet head. The direction of rotation can be changed by simply rotating the square drive. A sliding roller bearing mechanism in the interior of the wrench ensures the highest level of accuracy and long life. An audible and palpable signal indicates automatically that the desired torque value has been achieved.

> Corrosion: The robust steel pipe body is coated with a powder coating protection in order to ensure durable corrosion-proof properties.

KS Ergotorque Basic

- · Push through square (no mushroom heads)
- Large scale (no micro scale)
- Accuracy +/- 3%



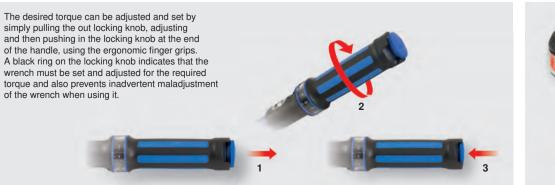


Reversible ratchet head 1/4"

KS Ultimate precision

• as for KS ERGOTORQUE® precision - only with a 2% triggering accuracy

TECHNOLOGY



RATCHET HEADS



1		_	
1		TOOL	C11
		TOOL	51
	-	1000	

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RELEASE

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ERGOTORQUE[®] basic **TORQUE WRENCH**

T-handle box wrench

- · Enables quick pre-fastening of the screw connections
- Especially for using in confined spaces
 Especially suitable for rapid screw tightening with the T-handle . It is simply to be used in place of the standard box wrench
- · Ergonomically shaped T-handle
- Square drive adaptor to DIN 3120 ISO 1174 with ball lock
 - (3)00S STOOLS

1/4" 3/8" 1/2"

			B mm	L mm	9	
516.1404	3/8"	1/4"	83.0	72.0	51	
516.1414	3/8"	3/8"	83.0	72.0	51	
516.1424	1/2"	3/8"	100.0	83.0	97	
516.1444	1/2"	1/2"	100.0	83.0	107	

Rotary square box wrench

- ·Enables quick pre-fastening of the screw connections, especially in constrained spaces
- Simple to be used in place of the standard box wrench Square drive adaptor to DIN 3120 / ISO 1174 with ball lock



1/4" 3/8" 1/2" 3/4" 1"

			D mm	L mm	9	
516.1403	3/8"	1/4"	31.0	33.0	21	
516.1413	3/8"	3/8"	31.0	33.0	21	
516.1423	1/2"	3/8"	39.0	52.0	65	
516.1443	1/2"	1/2"	39.0	52.0	65	
516.1494	3/4"	3/4"	63.0	73.0	180	
516.1491	1"	3/4"	83.0	78.0	380	
516.1496	1"	1"	83.0	78.0	380	

Insert type box wrench

• Square drive adaptor to DIN 3120 - ISO 1174 with ball lock



3/8" 1/2"

			L mm	9	
516.1933	1/2"	1/2"	43.0	49	
516.1943	1/2"	3/8"	43.0	48	

ERGOTORQUE®basic toraue wrench with insert type ratchet head

- Actuation accuracy: ±3 % tolerance from the set scale value • Precise reading accuracy for a minimum 5,000 tightening cvcles
- · For controlled fastening in clockwise and counter clockwise directions
- The direction of rotation (clockwise and counter clockwise) can be changed by simply rotating the square drive piece . • Double scale in N•m and lbf•ft divisions for precise adjustment ·Large vision panel, precise adjustment using a magnifying
- glass An audible and palpable signal when the desired torque value
- is achieved •With exact gearing 72 teeth ratchet mechanism
- Torque setting is quick and easy using the locking knob in the handle end
- Secure locking function within the handle
- Two component handle with a soft zone, is ergonomic in design and comfortable in the hand
- •Square drive adaptor to DIN 3120 / ISO 1174 with ball lock · Individually marked with serial number - unique product identification
- Including test certificate in accordance with DIN EN ISO 6789:2003 national standard

H Hat

N·m Ibf·ft Division L D H
516.1932 1/2" 10-100 8 - 75 5.00 395.0 43.0 27.0 0.9
516.1942 1/2" 20-200 15 - 150 10.00 485.0 43.0 27.0 1.30
516.1972 1/2" 60-320 45 - 236 10.00 585.0 43.0 27.0 1.45

ERGOTORQUE® precision torque wrench with rotary mushroom ratchet head

- Actuation accuracy: ±3 % tolerance of the set scale value Precise reading accuracy for a minimum 5.000 tightening cycles
- · For controlled fastening in clockwise and counter clockwise directions • Torque setting by pulling out and pushing in the slide in knob
- at the end of the handle
- The direction of rotation (clockwise and counter clockwise) can be changed by simply rotating the square drive piece
- · Double scale in N·m and lbf·ft divisions for precise adjustment Includes micrometer scale in N•m divisions for precise and fine adjustment
- Large vision panel, precise adjustment using a magnifying glass
- An audible and palpable signal when the desired torque value is achieved
- Exact gearing 72 teeth ratchet mechanism Torque setting is quick and easy using the locking knob in the handle end
- Secure locking function within the handle
- •Two component handle with a soft zone, is ergonomic in design and comfortable in the hand
- ·Square drive adaptor to DIN 3120 ISO 1174 with ball lock Individually marked with serial number unique product identification
- Includes test certificate in accordance with DIN EN ISO 6789:2003 national standard G 10 0 0





1/4" 3/8" 1/2" 3/4" 1"

		N∙m	Division N•m	lbf•ft	L mm	D mm	H mm	kg	
516.1412	1/4"	1-25	0.10	0,8 - 18	289.0	35.0	18.0	0.46	
516.1422	3/8"	5-50	0.25	4 - 37	350.0	45.0	23.0	0.61	
516.1432	1/2"	10-100	0.50	8 - 75	412.0	45.0	23.0	0.91	
516.1442	1/2"	20-200	1.00	15 - 150	500.0	45.0	23.0	1.30	
516.1472	1/2"	60-320	1.00	45 - 236	585.0	45.0	23.0	1.45	
516.1482	1/2"	80-420	1.00	60 - 310	678.0	45.0	23.0	2.10	
516.1490	3/4"	100-550	1.00	75 - 405	960.0	69.0	33.0	3.80	
516.1493	3/4"	200-750	10.00	150 - 550	1250.0	69.0	33.0	4.80	
516.1495	1"	300-1000	20.00	220 - 730	1500.0	90.0	36.0	5.80	

ERGOTORQUE® precision torque wrench with reversible ratchet head

- Actuation accuracy: ±3 % tolerance of the set scale value • Precise reading accuracy for a minimum 5.000 tightening cvcles
- · For controlled fastening in a clockwise direction
- ·Can untighten without any torque restraint thanks to the anticlockwise latch
- Double scale in N•m and lbf•ft divisions for precise adjustment • Includes micrometer scale in N•m divisions for precise and fine adjustment
- Large vision panel, precise adjustment using a magnifying glass
- •An audible and palpable signal when the desired torque value is achieved
- With exact gearing 36 teeth ratchet mechanism
- •With ejection mechanism on the ratchet head
- · Torque setting is quick and easy using the locking knob in the handle end
- ·Secure locking function within the handle
- Two-component handle with a soft zone, is ergonomic in design and comfortable in the hand • Square drive adaptor to DIN 3120 - ISO 1174 with ball lock
- Individually marked with serial number unique product identification
- Includes test certificate in accordance with DIN EN ISO 6789:2003 national standard





		N•m	I bf•ft	Division N•m		D mm	H mm	kg	
516.1512	1/4"	1-25	0,8 -18	0.10	289.0	35.0	18.0	0.46	
516.1522	3/8"	5-50	4 - 37	0.25	350.0	45.0	23.0	0.61	
516.1532	1/2"	10-100	8 - 75	0.50	412.0	45.0	23.0	0.91	
516.1542	1/2"	20-200	15 - 150	1.00	500.0	45.0	23.0	1.30	
516.1572	1/2"	60-320	45 - 236	1.00	585.0	45.0	23.0	1.45	
516.1582	1/2"	80-420	60 - 310	1.00	678.0	45.0	23.0	2.10	

ERGOTORQUE® precision fine adjustment torque wrench with retangular tool holder

- •Actuation accuracy: ±3 % tolerance of the set scale value • Precise reading accuracy for a minimum 5,000 tightening
- cycles
 •For controlled fastening in clockwise and counter clockwise directions
- · Easy to adjust from clockwise to counter clockwise by turning the torque wrench 180°
- Double scale in N•m and lbf•ft divisions for precise adjustment •With additional micrometer scale in N•m divisions for precise and fine adjustment
- · Large vision panel, precise adjustment using a magnifying glass
- •An audible and palpable signal when the desired torque value is achieved
- · Torque setting is quick and easy using the locking knob in the handle end
- Secure locking function within the handle
- Two-component handle with a soft zone, is ergonomic in design and comfortable in the hand
- •Snap lock tool holder available for replaceable 9x12 or 14x18 end tools
- Individually marked with serial number unique product identification
- Includes test certificate in accordance with DIN EN ISO 6789:2003 national standard



9x12 14x18

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		N∙m	I bf•ft	Division N•m	L mm	L mm	S, mm	kg	
516.1612	9x12	1-25	0,8 - 18	0.10	280.0	245,0	17,5	0.30	
516.1622	9x12	5-50	4 - 37	0.25	335.0	295,0	17,5	0.45	
516.1632	9x12	10-100	8 - 75	0.50	375.0	335,0	17,5	0.60	
516.1633	14x18	10-100	8 - 75	0.50	375.0	335,0	17,5	1.02	
516.1642	9x12	20-200	15 - 150	1.00	465.0	425,0	17,5	0.85	
516.1652	14x18	20-200	15 - 150	1.00	470.0	435,0	25,0	0.90	
516.1672	14x18	60-320	45 - 236	1.00	565.0	530,0	25,0	1.20	
516.1682	14x18	80-420	60 - 310	1.00	650.0	435,0	25,0	1.60	

- 10 D

ERGOTORQUE[®] precision TORQUE WRENCH

TOOLS

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ERGOTORQUE[®]pred sion fine adjustment torque wrench with retangular tool holde

•Actuation accuracy: ±3 % tolerance from the set value • Precise reading accuracy for a minimum 5,000 tightening

- cvcles · For controlled fastening in clockwise and counter clockwise directions
- ·Without scale With a fixed adjustable value

9812 988

516.1820

organised

N∙m bf•ft

L mm ٣

ERGOTORQUE® precision TORQUE WRENCH TOOLKIT

ERGOTORQUE® precision torque wrench toolkit 1 - 25 N-m

 Set contents for universal applications
 Includes torque wrench with rotary mushroom ratchet head · Supplied in a metal carrying case with the tools clearly

516.1810 9x12 1-25 0,8 - 18 190.0 155,0 17,5 230

516.1830 9x12 15-85 12 - 64 330.0 280,0 17,5 370

9x12 5-50 4-37 250.0 210,0

516.1840 14x18 20-200 15 - 150 410.0 370,0 25,0

- ·An audible and palpable signal when the desired torque value is achieved
- · Two-component handle with a soft zone, is ergonomic in design and comfortable in the hand
- Snap lock tool holder available for replaceable 9x12 or 14x18 end tools
- · Individually marked with serial number unique product identification
- Includes test certificate in accordance with DIN EN ISO 6789:2003 national standard
- * * * * * * * * * * * * * * *

ERGOTORQUE® precision torque wrench toolkit 1-25 N·m

·Includes torque wrench with reversible ratchet head

· Supplied in a metal carrying case with the tools clearly

·Set contents for universal applications

organised

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ai,

Sec. 31 -h.

Bat

S mm 9

17,5 300

780

1/40			
			kg
516.15	i 15 31 pcs	DTORQUE®precision e wrench toolkit 4.99 N•m	
	_		
1 x	\$1 1		1 - 25 N•m
4 x		-	50 - 75 - 100 - 150 mm
13 x	e	٢	4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 12 - 13 - 14 mm
6 x		۲	3 - 4 - 5 - 6 - 7 - 8 mm
7 x		۲	T10 - T15 - T20 - T25 - T27 - T30 T40

ERGOTORQUE® precision torque wrench toolkit 5 - 50 N·m Set contents for universal applications

Includes torque wrench with rotary mushroom ratchet head

 Supplied in a metal carrying case with the tools clearly organised



ERGOTORQUE® precision torque wrench toolkit 5-50 N·m

Includes torque wrench with reversible ratchet head

· Supplied in a metal carrying case with the tools clearly

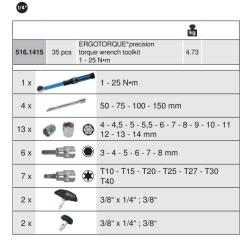
·Set contents for universal applications

organised

10					3/8"
11	6.62	DTORQUE® <i>precision</i> e wrench toolkit J•m		40 pcs	516.1525
12		5 - 50 N•m 75 - 150 - 250 mm	-		1 x 🧈 3 x
13	21 - 22 - 24 mm	6 - 7 - 8 - 9 - 10 - 11 - 1 16 - 17 - 18 - 19 - 20 - 2	٢	•	18 x
14	T27 - T30	3 - 4 - 5 - 6 - 7 - 8 - 10 T10 - T15 - T20 - T25 T40 - T45 - T50 - T55	۲		7 x

 Includes torque wrench with rotary mushroom ratchet head · Supplied in a metal carrying case with the tools clearly organised

....... * * * * * * * ******





3/8"									
P kg									
516.14	25	10.32							
1 x				5 - 50 N•m					
3 x				75 - 150 - 250 mm					
18 x	🌒 酇 🏵			6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 mm					
7 x	-		۲	3 - 4 - 5 - 6 - 7 - 8 - 10 n	nm				
11 x	11 x 🛋 🏵			T10 - T15 - T20 - T25 - T27 - T30 T40 - T45 - T50 - T55 - T60					
2 x	7			3/8" x 1/4" ; 3/8"					
2 x		2		3/8" x 1/4" ; 3/8"					



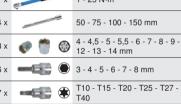
E.	00
ERGOTORQUE* precision	22
516.1435 52 pcs torque wrench toolkit 13.48 10-100 N·m 13.48	00
1 x 10 - 100 N•m	23
3 x 75 - 125 - 250 mm	24
21 x 🕡 🍟 🚳 ${8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18} \\ 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 - 34 - 36 mm$	-
11 x 4 - 5 - 6 - 7 - 8 - 9 - 10 - 12 - 14 - 17 19 mm	25
12 x T10 - T15 - T20 - T25 - T27 - T30 T40 - T45 - T50 - T55 - T60 - T70	•••
2 x 1/2" x 3/8" ; 1/2"	26
2 x 7/2" x 3/8" ; 1/2"	27

ERGOTORQUE[®] precision torque wrench toolkit 10-100 N•m •Set contents for universal applications

17

15

- 18 19
- 20
- 21



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ERGOTORQUE® precision torque wrench toolkit 20-200 N•m

•Set contents for universal applications

Includes torque wrench with rotary mushroom ratchet head
 Supplied in a metal carrying case with the tools clearly organised

ERGOTORQUE® precision torque wrench toolkit 10-100 N•m

Set contents for universal applications

Includes torque wrench with reversible ratchet head
 Supplied in a metal carrying case with the tools clearly organised

ERGOTORQUE[®] precision torque wrench toolkit 60-320 N-m

Set contents for universal applications

Includes torque wrench with reversible ratchet head
 Supplied in a metal carrying case with the tools clearly organised







				kg			
516.1445 52 pcs torque			DTORQUE [®] precision e wrench toolkit 0 N•m	13.90			
1 x			20 - 200 N•m				
3 x	-	-	75 - 125 - 250 mm				
21 x	۳	\bigcirc	8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 - 34 - 36 mm				
11 x	_		4 - 5 - 6 - 7 - 8 - 9 - 10 - 12 - 14 - 17 19 mm				
12 x		۲	T10 - T15 - T20 - T25 - T27 - T30 T40 - T45 - T50 - T55 - T60 - T70				
2 x	7		1/2" x 3/8" ; 1/2"				
2 x	2		1/2" x 3/8" ; 1/2"				

ERGOTORQUE® precision torque wrench toolkit 60-320 N•m

•Set contents for universal applications

Includes torque wrench with rotary mushroom ratchet head
 Supplied in a metal carrying case with the tools clearly organised



kg							
			DTORQUE [®] precision e wrench toolkit 0 N•m	13.61			
1 x 10 - 100 N•m							
3 x		-	75 - 125 - 250 mm				
21 x	Ø	٢	8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 - 34 - 36 m				
11 x 🗕 🗲 🔘			4 - 5 - 6 - 7 - 8 - 9 - 10 - 12 - 14 - 17 19 mm				
12 x		۲	T10 - T15 - T20 - T25 - T27 - T30 T40 - T45 - T50 - T55 - T60 - T70				

ERGOTORQUE® precision torque wrench toolkit 20-200 N·m

• Set contents for universal applications

Includes torque wrench with reversible ratchet head
 Supplied in a metal carrying case with the tools clearly organised

				kg		
516.1575			DTORQUE® <i>precision</i> e wrench toolkit 0 N•m	14.11		
1 x 🤿			60 - 320 Nm			
3 x	_	-	75 - 125 - 250 mm			
21 x	e	٢	8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 - 34 - 36 mm			
11 x		۲	4 - 5 - 6 - 7 - 8 - 9 - 10 19 mm	- 12 -	14 - 17	
12 x		۲	T10 - T15 - T20 - T25 - T40 - T45 - T50 - T55 -			

ERGOTORQUE® precision torque wrench toolkit 80-420 N•m •Set contents for universal applications •Includes torque wrench with reversible ratchet head

Supplied in a metal carrying case with the tools clearly organised







(ı,	2	5

			kg	
.1475 52 pcs torque		wrench toolkit 13.		
		60 - 320 N•m		
		75 - 125 - 250 mm		
P	٢			
	۲	4 - 5 - 6 - 7 - 8 - 9 - 10 - 19 mm	- 12 -	14 - 17
	۲			
7		1/2" x 3/8" ; 1/2"		
2		1/2" x 3/8" ; 1/2"		
	52 pcs	52 pcs torque 60-32	60-320 N·m 60 - 320 N·m 75 - 125 - 250 mm 8 - 9 - 10 - 11 - 12 - 13 - 14 - 19 - 20 - 21 - 22 - 24 - 27 - 31 6 4 - 5 - 6 - 7 - 8 - 9 - 10 - 19 mm 10 - T15 - T20 - T25 - T40 - T45 - T50 - T55 - 1/2" x 3/8" ; 1/2"	52 pcs torque wrench toolkit 13.98 60-320 N+m 60 - 320 N+m 75 - 125 - 250 mm 75 - 125 - 250 mm 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 - 19 mm 9 4 - 5 - 6 - 7 - 8 - 9 - 10 - 12 - 19 mm 10 mm T10 - T15 - T20 - T25 - T27 - T40 - T45 - T55 - T60 - 7 - 12 - 155 - T60 - 7 - 12 - 12 - 12 - 12 - 12 - 12 - 12

1/2"							
					kg		
516.15	45			DTORQUE® <i>precision</i> e wrench toolkit 0 N•m	13.81		
1 x	ş			20 - 200 N•m			
3 x				75 - 125 - 250 mm			
21 x		۳	۲	8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 - 34 - 36 mi			
11 x	-		۲	4 - 5 - 6 - 7 - 8 - 9 - 10 - 19 mm	- 12 -	14 - 17	
12 x			۲	T10 - T15 - T20 - T25 - T40 - T45 - T50 - T55 -			

1/2*						
				kg		
516.1585	48 pcs		DTORQUE® <i>precision</i> e wrench toolkit 0 N•m	14.51		
1 x			80 - 420 N•m			
3 x		-	75 - 125 - 250 mm			
21 x	۳	٢	8 - 9 - 10 - 11 - 12 - 13 - 14 - 19 - 20 - 21 - 22 - 24 - 27 - 30			
11 x			4 - 5 - 6 - 7 - 8 - 9 - 10 - 19 mm	12 -	14 - 17	
12 x		۲	T10 - T15 - T20 - T25 - T40 - T45 - T50 - T55 -			

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ERGOTORQUE® precision torque wrench toolkit 1-25 N·m

·Set contents for universal applications

 Includes torque wrench with retangular tool holder
 Supplied in a metal carrying case with the tools clearly organised

ERGOTORQUE® precision torque wrench toolkit 10-100 N•m

·Set contents for universal applications

 Includes torque wrench with retangular tool holder
 Supplied in a metal carrying case with the tools clearly organised

ERGOTORQUE® precision torque wrench toolkit 60-320 N•m

·Set contents for universal applications Includes torque wrench with retangular tool holder
Supplied in a metal carrying case with the tools clearly organised





0.0	1-25 1	
1 x		1 - 25 N•m
13 x	1 L.	7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 16 - 17 - 18 - 19 mm
14 x	Sec. 1	7 - 8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 - 21 - 22 mm
2 x	-	1/4" - 5/16"
1 x	*	9 x 12
2 x	P	1/4" - 3/8"

ERGOTORQUE® precision torque wrench toolkit 5-50 N·m

•Set contents for universal applications

 Includes torque wrench with retangular tool holder · Supplied in a metal carrying case with the tools clearly organised



9x12 mm

					kg			
516.16	35	33 pcs	torque	DTORQUE® <i>precision</i> e wrench toolkit 0 N•m	8.92			
1 x	-			10 - 100 N•m				
13 x		a Di		7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 16 - 17 - 18 - 19 mm				
14 x	and the			7 - 8 - 10 - 11 - 12 - 13 17 - 18 - 19 - 21 - 22 m	- 8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 7 - 18 - 19 - 21 - 22 mm			
2 x		2		1/4" - 5/16"				
1 x				9 x 12				
2 x		P		1/4" - 3/8"				

- N•m •Set contents for universal applications
- Includes torque wrench with retangular tool holder

· Supplied in a metal carrying case with the tools clearly organised

ERGOTORQUE[®] precision torque wrench toolkit 20-200



516.167	1675 39 pcs torque		DTORQUE [®] precision e wrench toolkit 0 N•m	F 15.25		10
1 x	-		60 - 320 N•m	· · ·		11
19 x	-15		13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 26 - 27 - 29 - 30 - 32 - 34 - 36 - 38 - 41 mm			10
16 x	Sec. 1		13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 24 - 27 - 30 - 32 - 34 - 36 - 41 mm			12
1 x	2		5/16"			13
1 x			14 x 18			
1 x	Ţ	1	1/2"			14

N•m
Set contents for universal applications Includes torque wrench with retangular tool holder Supplied in a metal carrying case with the tools clearly organised

GOTORQUE



9x12

	1						
					kg		
516.1	16.1625 33 pcs tor		torque	ERGOTORQUE [®] precision torque wrench toolkit 5-50 N•m			
1 x	3			5 - 50 N•m			
13 x		- 25		7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 16 - 17 - 18 - 19 mm			
14 x		SER.		7 - 8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 - 21 - 22 mm			
2 x		-		1/4" - 5/16"			
1 x				9 x 12			
2 x				1/4" - 3/8"			



9x12 mm

			kg		
32 pcs	torque	wrench toolkit	9.12		
i i		20 - 200 N•m			
T.		7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm			
MAN		7 - 8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 mm			
-		1/4" - 5/16"			
		9 x 12			
Ţ	1	1/2"			
	32 pcs	32 pcs torque	20-200 N·m 20 - 200 N·m 7 - 8 - 9 - 10 - 11 - 12 - 16 - 17 - 18 - 19 mm 7 - 8 - 10 - 11 - 12 - 13 17 - 18 - 19 - 21 - 22 mm 1/4" - 5/16" 9 x 12	32 pcs torque wrench toolkit 9.12 20-200 N·m 20 - 200 N·m 20 - 200 N·m 7 - 8 - 9 - 10 - 11 - 12 - 13 - 1 16 - 17 - 18 - 19 mm 7 - 8 - 10 - 11 - 12 - 13 - 14 7 - 8 - 10 - 11 - 12 - 13 - 14 - 17 - 18 - 19 - 21 - 22 mm 1/4" - 5/16" 9 x 12 9 x 12	



14x18						22	
516.1685	39 pcs	ERGOTORQUE*precision 39 pcs torque wrench toolkit 15.65 80-420 N+m					
1 x	0		80 - 420 N•m			24	
19 x	The second		13 - 14 - 15 - 16 - 17 - 18 - 26 - 27 - 29 - 30 - 32 - 34 -				
16 x	emi		13 - 14 - 15 - 16 - 17 - 1 24 - 27 - 30 - 32 - 34 - 3			25	
1 x	-		5/16"				
1 x			14 x 18			26	
1 x	Ţ	1	1/2"			27	

15

16

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ULTIMATE precision TORQUE WRENCH

- Accuracy of ±2 % of the scale value
- Precise reading accuracy for a minimum 10.000 tightening cycles
 Tested with certification in accordance to DIN EN 6789
 Depthete actors
- Durable and ergonomic two-component handle
 Secure and clearly visible indentations in the handle
- Easily readable double scale with fine torque adjustment
 individually marked with serial number unique product identification
- Diverse drive options for different types of applications
 Clearly audible and palpable release signal when the desired torque value has been achieved
- · Durable corrosion-proof construction due to the robust and powder-coated steel pipe
- Overload gaurantee of ±125% of the maximum scale or torgue value



KETOOLS

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MUSHROOM HEAD WITH SQUARE

The direction of rotation (clockwise and counter clockwise) can be changed by simply rotating the square drive piece. The torque wrenches can be upgraded to another drive size with the the range of accessories available.



QUICK CHANGE TOOL SYSTEM

The quick-change tool system has diverse drive options for various applications for clockwise and counter clockwise fastening with a safety connector for standard sizes of 9 x 12 or 14 x 18 mm push-fit tools provides the solution for all areas of industrial manufacturing.



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ULTIMATE precision TORQUE WRENCH

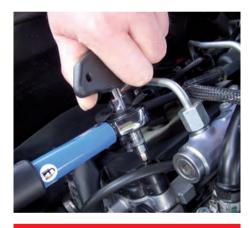
T-handle box wrench

- · Enables quick pre-fastening of the screw connections
- Especially for using in confined spaces
 Especially suitable for rapid screw tightening with the T-handle
- . It is simply to be used in place of the standard box wrench
- · Ergonomically shaped T-handle
- Square drive adaptor to DIN 3120 ISO 1174 with ball lock



1/4" 3/8" 1/2"

			B mm	L mm	9	
516.1404	3/8"	1/4"	83.0	72.0	51	
516.1414	3/8"	3/8"	83.0	72.0	51	
516.1424	1/2"	3/8"	100.0	83.0	97	
516.1444	1/2"	1/2"	100.0	83.0	107	



Rotary square box wrench

- · Enables quick pre-fastening of the screw connections, especially in constrained spaces
- · Simple to be used in place of the standard box wrench Square drive adaptor to DIN 3120 / ISO 1174 with ball lock

ULTIMATE precision torque wrench with rotary mushroom ratchet head

- Actuation accuracy: ±2 % tolerance of the set scale value • Precise reading accuracy for a minimum 10.000 tightening cvcles
- · For controlled fastening in clockwise and counter clockwise directions
- Torque setting by pulling out and pushing in the slide-in knob at the end of the handle
- · For controlled fastening in both directions.
- Double scale in N•m and lbf•ft divisions for precise adjustment. •With additional micrometer scale in N•m divisions for precise and fine adjustment
- Large vision panel, precise adjustment using a magnifying glass
- •An audible and palpable signal when the desired torque value is achieved
- •With exact gearing 72 teeth ratchet mechanism
- •Torque setting is quick and easy using the locking knob in the handle end
- Secure locking function within the handle
- Two-component handle with a soft zone, is ergonomic in design and comfortable in the hand
- •Square drive adaptor to DIN 3120 ISO 1174 with ball lock · Individually marked with serial number - unique product
- identification Includes test certificate in accordance with DIN EN ISO 6789
- national standard



1/4" 3/8" 1/2" 3/4" 1"

		N∙m	Division N+m	I bf•ft	L mm	D mm	H mm	kg	
516.4012	1/4"	1-25	0.10	0,8 - 18	289.0	35.0	18.0	0.46	
516.4022	3/8"	5-50	0.25	4 - 37	350.0	45.0	23.0	0.61	
516.4032	1/2"	10-100	0.50	8 - 75	412.0	45.0	23.0	0.91	
516.4042	1/2"	20-200	1.00	15 - 150	500.0	45.0	23.0	1.30	
516.4072	1/2"	60-320	1.00	45 - 236	585.0	45.0	23.0	1.45	
516.4082	1/2"	80-420	1.00	60 - 310	678.0	45.0	23.0	2.10	
516.4090	3/4"	100-550	1.00	75 - 405	960.0	69.0	33.0	3.80	
516.4093	3/4"	140-750	10.00	150 - 550	1250.0	69.0	33.0	4.80	
516.4095	1"	300-1000	20.00	220 - 730	1500.0	90.0	36.0	5.80	

ULTIMATE precision torque wrench with rotary mushroom atchet head

- •Actuation accuracy: ±2 % tolerance of the set scale value • Precise reading accuracy for a minimum 10.000 tightening
- cycles For controlled fastening in a clockwise direction
- ·Can untighten without any torque restraint thanks to the anticlockwise latch
- Double scale in N•m and lbf•ft divisions for precise adjustment ·With additional micrometer scale in N·m divisions for precise and fine adjustment
- ·Large vision panel, precise adjustment using a magnifying glass
- An audible and palpable signal when the desired torque value is achieved
- •With exact gearing 36 teeth ratchet mechanism ·With ejection mechanism on the ratchet head
- · Torque setting is quick and easy using the locking knob in the
- handle end
- ·Secure locking function within the handle
- Two-component handle with a soft zone, is ergonomic in design and comfortable in the hand • Square drive adaptor to DIN 3120 - ISO 1174 with ball lock
- Individually marked with serial number unique product identification
- national standard



1/4" 3/8" 1/2"

		N∙m	l bf•ft	Division N•m	L mm	D mm	H mm	kg	
516.4912	1/4"	1-25	0,8 -18	0.10	289.0	35.0	18.0	0.46	
516.4922	3/8"	5-50	4 - 37	0.25	350.0	45.0	23.0	0.61	
516.4932	1/2"	10-100	8 - 75	0.50	412.0	45.0	23.0	0.91	
516.4942	1/2"	20-200	15 - 150	1.00	500.0	45.0	23.0	1.30	
516.4972	1/2"	60-320	45 - 236	1.00	585.0	45.0	23.0	1.45	
516.4982	1/2"	80-420	60 - 310	1.00	678.0	45.0	23.0	2.10	

ULTIMATE precision torque wrench with retangular tool holde

•Actuation accuracy: ±2 % tolerance of the set scale value • Precise reading accuracy for a minimum 10.000 tightening cvcles

- · For controlled fastening in a clockwise and counter clockwise
- direction · Easy to adjust from clockwise to counter clockwise by turning
- the torque wrench 180° Double scale in N•m and lbf•ft divisions for precise adjustment ·With additional micrometer scale in N·m divisions for precise
- and fine adjustment ·Large vision panel, precise adjustment using a magnifying glass
- •An audible and palpable signal when the desired torque value is achieved
- Torque setting is quick and easy using the locking knob in the handle end
- Secure locking function within the handle
- •Two-component handle with a soft zone, is ergonomic in design and comfortable in the hand
- •Snap lock tool holder available for replaceable 9x12 or 14x18 end tools
- · Individually marked with serial number unique product
- identification Includes test certificate in accordance with DIN EN ISO 6789

national standard 4 --- si

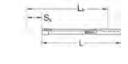


9x12 mm 14x18

		N∙m	Division N•m	l bf•ft	L mm	L mm̃	S, mm	kg	
516.4212	9x12	1-25	0.10	0,8 - 18	280.0	245,0	17,5	0.30	
516.4222	9x12	5-50	0.25	4,0 - 37	335.0	295,0	17,5	0.45	
516.4232	9x12	10-100	0.50	8,0 - 75	375.0	335,0	17,5	0.60	
516.4242	9x12	20-200	1.00	15,0 - 150	465.0	425,0	17,5	0.85	
516.4252	14x18	20-200	1.00	15,0 - 150	470.0	435,0	25,0	0.90	
516.4272	14x18	60-320	1.00	45,0 - 236	565.0	530,0	25,0	1.20	
516.4282	14x18	80-420	1.00	60,0 - 310	650.0	435,0	25,0	1.60	
516.4290	14x18	100-550	1.00	74,0 - 405	920.0	875,0	25,0	3.75	
516.4293	14x18	200-750	1.00	148 - 553	1120.0	1155,0	25,0	5.27	

ULTIMATE precision fine adjustment torque wrench with retangular tool holder

- Actuation accuracy: +2% tolerance from the set value • Precise reading accuracy for a minimum 10.000 tightening
- cycles For controlled fastening in clockwise and counter clockwise directions
- ·Without scale With a fixed adjustable value
- ·An audible and palpable signal when the desired torque value
- is achieved · Two-component handle with a soft zone, is ergonomic in
- design and comfortable in the hand •With snap lock tool holder available for replaceable 9x12 or 14x18 end tools
- Individually marked with serial number unique product identification
- Includes test certificate in accordance with DIN EN ISO 6789 national standard







9x12 14x18

		N·m	I bf•ft	L mm	L mm	S mm	9	
516.4810	9x12	1-25	0,8 - 18	190.0	155,0	17,5	230	
516.4820	9x12	5-50	4 - 37	250.0	210,0	17,5	300	
516.4830	9x12	15-85	12 - 64	330.0	280,0	17,5	370	
516.4840	14x18	20-200	15 - 180	410.0	370,0	25,0	780	



D --

1/4" 3/8" 1/2" 3/4" ["

			D mm	L mm	9	
516.1403	3/8"	1/4"	31.0	33.0	21	
516.1413	3/8"	3/8"	31.0	33.0	21	
516.1423	1/2"	3/8"	39.0	52.0	65	
516.1443	1/2"	1/2"	39.0	52.0	65	
516.1494	3/4"	3/4"	63.0	73.0	180	
516.1491	1"	3/4"	83.0	78.0	380	
516.1496	1"	1"	83.0	78.0	380	





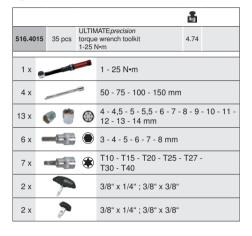
ULTIMATE precision TORQUE WRENCH TOOLKIT

ULTIMATE precision torque wrench toolkit 1-25 N·m

•Set contents for universal applications

 Includes Torque wrench with rotary mushroom ratchet head
 Supplied in a metal carrying case with the tools clearly organised





ULTIMATE precision torque wrench toolkit 1-25 N·m

·Set contents for universal applications

 Includes Torque wrench with reversible ratchet head
 Supplied in a metal carrying case with the tools clearly organised



ULTIMATE precision torque wrench toolkit 5-50 N·m

Includes Torque wrench with rotary mushroom ratchet head
 Supplied in a metal carrying case with the tools clearly

·Set contents for universal applications

organised

3/8" ULTIMATE precision torque wrench toolkit 5-50 N•m 516.4025 42 pcs

1 x	e	5 - 50 N•m
3 x		75 - 150 - 250 mm
18 x	🅐 酇 🐵	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 mm
7 x		3 - 4 - 5 - 6 - 7 - 8 - 10 mm
11 x	-	T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60
1 x	7	3/8" x 1/2"

kg

10.33

ULTIMATE precision torque wrench toolkit 5-50 N·m

·Set contents for universal applications

 Includes Torque wrench with reversible ratchet head · Supplied in a metal carrying case with the tools clearly organised



·Set contents for universal applications Includes torque wrench with rotary mushroom ratchet head
 Supplied in a metal carrying case with the tools clearly organised



1/2"						
					Rg	9
516.40	35	52 pcs	torque	IATE <i>precision</i> e wrench toolkit 0 N•m	13.49	10
1 x	••			1 - 100 N•m		
3 x			9	75 - 125 - 250 mm		11
21 x		P 👕	۲	8 - 9 - 10 - 11 - 12 - 13 - 14 - 19 - 20 - 21 - 22 - 24 - 27 - 30		
11 x	-	1	۲	4 - 5 - 6 - 7 - 8 - 9 - 10 - 17 - 19 mm	- 12 - 14 -	12
12 x			۲	T10 - T15 - T20 - T25 - T40 - T45 - T50 - T55 -		13
2 x		7		1/2" x 3/8" ; 1/2" x 1/2"		
2 x		2		3/8" x 1/4" ; 3/8" x 3/8"		14

ULTIMATE precision torque wrench toolkit 20-200 N·m ·Set contents for universal applications

 Includes Torque wrench with rotary mushroom ratchet head • Supplied in a metal carrying case with the tools clearly organised



1/4"									
					kg				
516.49	15	31 pcs		IATE precision wrench toolkit N•m	4.60				
1 x	Ş			1 - 25 N•m					
4 x		_	-	50 - 75 - 100 - 150 mm					
13 x		P	٢	4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm					
6 x	-	1	۲	3 - 4 - 5 - 6 - 7 - 8 mm					
7 x	•		۲	T10 - T15 - T20 - T25 - T30 - T40	T27 -				



3/8"									
					kg				
516.49	25	40 pcs		MATE <i>precision</i> e wrench toolkit N•m	6.29				
1 x 5 - 50 N•m									
3 x	ų		ė	75 - 150 - 250 mm					
18 x		P	\bigcirc	6 - 7 - 8 - 9 - 10 - 11 - 12 - 15 - 16 - 17 - 18 - 19 - 20					
7 x	-	1	۲	3 - 4 - 5 - 6 - 7 - 8 - 10 mm					
11 x	•		۲	T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60					



22	kg				
_	13.88	ATE <i>precision</i> wrench toolkit 0 N•m		45 52	516.404
23		20 - 200 N•m		_	1 x
24		75 - 125 - 250 mm			3 x
_		8 - 9 - 10 - 11 - 12 - 13 - 19 - 20 - 21 - 22 - 24 - 27	*	•	21 x
25	- 12 - 14 -	4 - 5 - 6 - 7 - 8 - 9 - 17 - 19 mm			11 x
-		T10 - T15 - T20 - T2 T40 - T45 - T50 - T5			12 x
26		1/2" x 3/8" ; 1/2" x 1		4	2 x
27		1/2" x 3/8" ; 1/2" x 1	N	1	2 x
21					

i

8

15

16

17

20

1

1/2

ULTIMATE precision torque wrench toolkit 60-320 N·m

•Set contents for universal applications

Includes Torque wrench with rotary mushroom ratchet head
 Supplied in a metal carrying case with the tools clearly organised

ULTIMATE precision torque wrench toolkit 10-100 N·m

Set contents for universal applications

Includes Torque wrench with reversible ratchet head
 Supplied in a metal carrying case with the tools clearly organised

ULTIMATE precision torque wrench toolkit 60-320 N·m

Set contents for universal applications
 Includes Torque wrench with reversible ratchet head
 Supplied in a metal carrying case with the tools clearly
 organised







				kg				
516.4075	52 pcs	torque	MATE <i>precision</i> 9 wrench toolkit 0 N•m	14.03				
1 x 💽			60 - 320 N•m					
3 x	_	2	75 - 125 - 250 mm					
21 x	ø	\bigcirc	8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 - 34 - 36 mm					
11 x 🖷		۲	4 - 5 - 6 - 7 - 8 - 9 - 10 - 12 - 14 - 17 - 19 mm					
12 x		۲	T10 - T15 - T20 - T25 - T40 - T45 - T50 - T55 -					
2 x	7	•	1/2" x 3/8" ; 1/2"					
2 x	2		1/2" x 3/8" ; 1/2"					

ULTIMATE precision torque wrench toolkit 80-420 N·m

Set contents for universal applications

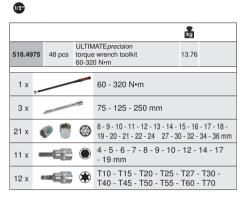
Supplied to an event of the set of the set

1/2"					
				kg	
516.4935	48 pcs	torque	JLTIMATE <i>precision</i> orque wrench toolkit 13.22 0-100 N•m		
1 x 🍨	10 - 100 N•m				
3 x	-	975 - 125 - 250 mm			
21 x	P	\bigcirc	8 - 9 - 10 - 11 - 12 - 13 - 14 - 19 - 20 - 21 - 22 - 24 27 - 3		
11 x • 12 - 14 - 17 - 19 mm			- 12 - 14 -		
12 x		۲	T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60 - T70		

ULTIMATE precision torque wrench toolkit 20-200 N-m

Set contents for universal applications

Includes torque wrench with reversible ratchet head
 Supplied in a metal carrying case with the tools clearly organised



ULTIMATE precision torque wrench toolkit 80-420 N·m

Set contents for universal applications
Includes Torque wrench with reversible ratchet head
Supplied in a metal carrying case with the tools clearly organised



				kg		
516.4085	52 pcs	torque	MATEprecision e wrench toolkit 14.68 0 N•m			
1 x			80 - 420 N•m			
3 x			75 - 125 - 250 mm			
21 x	e	\bigcirc	8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 - 34 - 36 mm			
11 x		۲	4 - 5 - 6 - 7 - 8 - 9 - 10 - 12 - 14 - 17 - 19 mm			
12 x		۲	T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60 - T70			
2 x	7		1/2" x 3/8" ; 1/2"			
2 x	2		1/2" x 3/8" ; 1/2"			





1/2"								
				e kg				
516.49	45	48 pcs		ATE precision torque wrench 20-200 N•m 13.61				
1 x	ş			60 - 320 N•m				
3 x				75 - 125 - 250 mm				
21 x	💎 酇 🐵			8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 - 34 - 36 mm				
11 x	11 x 4 - 5 - 6 - 7 - 8 - 9 - 10 - 12 - 14 - 12 - 19 mm			4 - 5 - 6 - 7 - 8 - 9 - 10 - 12 - 14 - 17 - 19 mm				
12 x	đ	E:	۲	T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60 - T70				

-							
					kg		
516.4985 48 pcs torque				IATE <i>precision</i> wrench toolkit 14.41 0 N•m			
1 x	1 x			80 - 420 N•m			
3 x			-	75 - 125 - 250 mm			
21 x		P 👕	\bigcirc	8 - 9 - 10 - 11 - 12 - 13 - 14 - 19 - 20 - 21 - 22 - 24 27 - 3			
11 x	-		• • • • • • • • • • • • • • • • • • •			14 -	
12 x			۲	T10 - T15 - T20 - T25 - T27 - T30 T40 - T45 - T50 - T55 - T60 - T70			

1/2"

ULTIMATEprecision torque wrench toolkit 1-25 N·m

·Set contents for universal applications

 Includes torque wrench with retangular tool holder
 Supplied in a metal carrying case with the tools clearly organised

ULTIMATE precision torque wrench toolkit 10-100 N·m

·Set contents for universal applications

· Includes torque wrench with retangular tool holder • Supplied in a metal carrying case with the tools clearly organised

ULTIMATE precision torque wrench toolkit 60-320 N·m

·Set contents for universal applications Includes torque wrench with retangular tool holder
Supplied in a metal carrying case with the tools clearly organised



ULTIMATEprecision torque wrench toolkit 1-25 N•m

1 - 25 N•m

1/4" - 5/16"

9 x 12 mm

1/4" - 3/8"

ULTIMATE precision torque wrench toolkit 5-50 N·m

Includes Torque wrench with retangular tool holder

Supplied in a metal carrying case with the tools clearly

Set contents for universal applications



9x12 mm

kg

7.92

7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 -16 - 17 - 18 - 19 mm

7 - 8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 -

17 - 18 - 19 - 21 - 22 mm

	kg							
516.42	35	33 pcs	torque	MATE precision wrench toolkit 0 N•m	8.22			
1 x				10 - 100 N•m				
13 x	1 L.			7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm				
14 x	*EDI-		1	7 - 8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 mm				
2 x	-			1/4" - 5/16"				
1 x	1			9 x 12 mm				
2 x	e e			1/4" - 3/8"				

ULTIMATE precision torque wrench toolkit 20-200 N·m

•Set contents for universal applications

 Includes torque wrench with retangular tool holder Supplied in a metal carrying case with the tools clearly organised



14x18						9
516.4275	39 pcs		IATE precision wrench toolkit	kg 14.65		10
1 x		60-32	60 - 320 N•m			11
19 x	2	5	13 - 14 - 15 - 16 - 17 - 18 26 - 27 - 29 - 30 - 32 - 34 13 - 14 - 15 - 16 - 17 - 1		12	
16 x 1 x	-	1	22 - 24 - 27 - 30 - 32 - 34 - 36 - 41 mm 5/16"			10
1 x			14 x 18 mm			13
1 x			1/2"			14

ULTIMATE precision torque wrench toolkit 80-420 N·m

·Set contents for universal applications •Includes torque wrench with retangular tool holder •Supplied in a metal carrying case with the tools clearly organised







14x18 mm

9x12 mm

9x12 mm

516.4215

1 x

13 x

14 x

2 x

1 x

2 x

organised

33 pcs

10

emi

					kg			
			torque	IATE <i>precision</i> e wrench toolkit N•m	8.07			
1 x				5 - 50 N•m				
13 x		- 10;		7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm				
14 x		em:		7 - 8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 mm				
2 x		-		1/4" - 5/16"				
1 x		-		9 x 12 mm				
2 x		P		1/4" - 3/8"				

9x12 mm

					kg			
516.42	245	33 pcs		MATE <i>precision</i> e wrench toolkit 0 N•m	8.47			
1 x				20 - 200 N•m				
13 x		- 10;	0	7 - 8 - 9 - 10 - 11 - 12 - 16 - 17 - 18 - 19 mm	- 9 - 10 - 11 - 12 - 13 - 14 - 15 - 17 - 18 - 19 mm			
14 x		emi	0	7 - 8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 mm				
2 x		-		1/4" - 5/16"				
1 x		-		9 x 12 mm				
2 x		er.		1/4" - 3/8"				

22					14x18 mm
23	05			39 pcs	516.4285
24		80 - 420 N•m		-	1 x
		13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 26 - 27 - 29 - 30 - 32 - 34 - 36 - 38 - 41 mm			19 x
25	-	13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 24 - 27 - 30 - 32 - 34 - 36 - 41 mm			16 x
-		5/16"			1 x
26		14 x 18 mm			1 x
27	1/2"				1 x
21					

6 7

1

2

3

4

5

8

15

16

17

18

19

20

21

ALUTORQUE precision (5 TOOLS) ALUTORQUE

Torque wrench made from high-strength aluminium alloy



Ratchet head: A robust mechanism, optionally with a square drive for controlled fastening or with a double square for controlled clockwise and counter clockwise fastening is integrated into the head. The ALUTORQUE precision torque wrench is also available with a rectangular reception and guarantees flexible working through this. The square drives can be expanded with pin ratchets so that the user can decide himself whether he wants to work with or without the ratcheting function. An audible and palpable signal indicates automatically that the desired torque value has been achieved.



Accuracy of **±3** % of the scale reading Precise reading accuracy for a minimum 5,000 tightening cycles The robust and durable body is ideal for use in harsh environments in industry.

Serial number: A permanent and unique serial number is applied on all torque wrenches, which provides unique product identification.



TECHNOLOGY

The desired torque can be adjusted and set using the folding mechanism by simply pulling out and pushing in the captive hexagon key wrench in connection with the locking knob at the end of the handle.









Aluminium handle:

The desired torque can be adjusted and set using the folding mechanism by simply pulling out and pushing in the captive hexagon key wrench in connection with

the locking knob at the end of the

handle.

14 x 18 mm

9 x 12 mm

The new light, durable and ergonomic aluminium handle ensures simple and secure operation.



1

9

10

11 12

13

14

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18

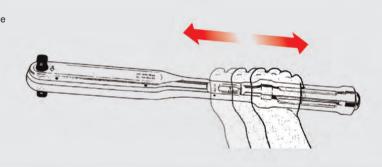
19

20

Error-free operation:

+/-3%

The pivot of the drive lever and the drive square lie on one axis, meaning that in contrast to conventional torque wrenches, it is possible to grip the torque wrench in any position, either using both hands or with an extension bar. Thanks to the lever chain a shift in the value is ruled out. The absolute accuracy always remains preserved.





Scale:

torque value.

A double scale having N.m and lbf.in/lbf.ft divisions that can

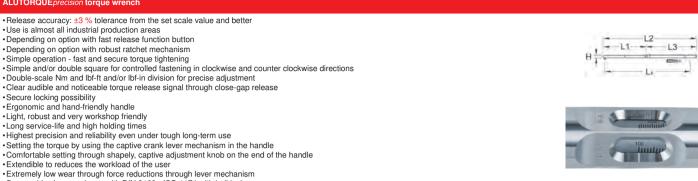
be read easily, is concealed under a large sized vision panel,

which enables particularly accurate adjustment of the desired

(STOOLS)

ALUTORQUE precision TORQUE WRENCH

ALUTORQUE precision torque wrench



- Square drive in accordance with DIN 3120 ISO 1174 with ball lock
 Individual serial number for clear product identification
- Includes test certificate in accordance with DIN EN ISO 6789:2003 traceable to national standards

CETTOOLS) ALLIVER

CETOOLS) ALLITE











1/4" 3/8" 1/2" 3/4" 1" 197

		ALLE I	ġ.		N∙m	Division N•m	lof-in	lbf•ft	Division Ibf•in	Division Ibl•ft	L mm	H mm	L1 mm	L2 mm	L3 mm	0	kg	
516.5030	F			1/4"	6-30	1.00	50-270		10.0		207	30.0	268.0				0.58	
516.5031	÷			1/4"	6-30	1.00	50-270		10.0		207	30.0	268.0				0.58	
516.5032	F			3/8"	8-40	5.00	70-350		50.0		263	30.0	338.0				1.00	
516.5033	¢			3/8"	8-40	5.00	70-350		50.0		263	30.0	338.0				1.00	
516.5034	F	Х		1/2"	20-120	5.00		15-90		5.0	374	30.0	462.0				1.50	
516.5035	¢			1/2"	20-120	5.00		15-90		5.0	374	30.0	462.0				1.50	
516.5036	F	Х		1/2"	40-200	5.00		30-150		5.0	463	30.0	551.0				1.40	
516.5037	¢			1/2"	40-200	5.00		30-150		5.0	463	30.0	551.0				1.30	
516.5038	F		Х	1/2"	40-200	5.00		30-150		5.0	463	35.0	554.0				1.40	
516.5039	F	Х		1/2"	50-300	5.00		35-220		5.0	529	30.0	617.0				2.00	
516.5040	¢			1/2"	50-300	5.00		35-220		5.0	529	30.0	671.0				2.00	
516.5041	F			3/4"	80-360	5.00		60-260		5.0	624	30.0	717.0				2.40	
516.5042	¢			3/4"	80-360	5.00		60-260		5.0	624	30.0	717.0				2.40	
516.5043	F			3/4"	110-550	10.00		80-400		10.0	719	35.0	812.0				2.90	
516.5044	¢			3/4"	110-550	10.00		80-400		10.0	719	35.0	812.0				2.90	
516.5045	F			3/4"	140-760	10.00		100-560		10.0	719	35.0	812.0				3.20	
516.5046	¢			3/4"	140-760	10.00		100-560		10.0	719	35.0	812.0				3.20	
516.5047	F			3/4"	140-760	10.00		100-560		10.0	1297	35.0	812.0	1413.0	762.0	516.5059	5.00	
516.5048	¢			3/4"	140-760	10.00		100-560		10.0	1297	35.0	812.0	1413.0	762.0	516.5059	5.00	
516.5049	F			3/4"	520-1000	10.00		380-730		10.0	1297	35.0	812.0	1413.0	762.0	516.5059	5.60	
516.5050	÷			3/4"	520-1000	10.00		380-730		10.0	1297	35.0	812.0	1413.0	762.0	516.5059	5.60	
516.5051	F			1"	600-1500	25.00					1473	40.0	932.0	1608.0	925.0	516.5058	10.80	
516.5052	¢			1"	600-1500	25.00					1473	40.0	932.0	1608.0	925.0	516.5058	10.80	
516.5053	F			1"	750-2000	50.00					2218	40.0	932.0	2353.0	925.0	516.5057+58	11.60	
516.5054	¢			1"	750-2000	50.00					2218	40.0	932.0	2353.0	925.0	516.5057+58	11.60	
516.5055	F			1.1/2"	1500-3000	50.00					2313	40.0	1025.0	2463.0	925.0	516.5057+58	13.20	

1



Made of aluminium

·Made of zinc coated steel

())

	L mm	Suitable for	kg
516.5056	400.0	516.5053	2.30
516.5057	745.0	516.5053, 516.5055	3.60
516.5058	925.0	516.5047, 516.5049	3.40



167

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Ratchet adapter for aluminium torque wrench

Robust ratchet adapter

To be used in combination with aluminium torque wrench
 For controlled fastening in clockwise and counter clockwise directions

Internal square in accordance with DIN 3120 / ISO 1174
 Square drive in accordance with DIN 3120 - ISO 1174 with ball lock

For manual operation

Matt finish

Chrome vanadium





1/4" 3/8" 1/2" 3/4" 1"

			H mm	D mm	Format	Suitable for	e kg	
516.5020	1/4"	1/4"	21.0	24.0	Right-handed rotation	516.5030	0.05	
516.5021	3/8"	3/8"	28.0	35.0	Right-handed rotation	516.5032	0.15	
516.5022	1/2"	1/2"	35.0	46.0	Right-handed rotation	516.5034, 516.5036, 516.5039	0.35	
516.5023	3/4"	3/4"	53.0	65.0	Right-handed rotation	516.5041, 516.4043, 516.5045, 516.5047, 516.5049	1.00	
516.5024	1"	1"	63.0	73.0	Right-handed rotation	516.5051, 516.5053	1.80	
516.5025	3/8"	3/8"	28.0	35.0	Left-handed rotation	516.5033	0.15	
516.5026	1/2"	1/2"	35.0	46.0	Left-handed rotation	516.5035, 516.5037, 516.5040	0.35	
516.5027	3/4"	3/4"	53.0	65.0	Left-handed rotation	516.5042, 516.5044, 516.5046, 516.5048, 516.5050	1.00	
516.5028	1"	1"	63.0	73.0	Left-handed rotation	516.5052, 516.5054	1.80	

ALUTORQUEprecision Fixed pre-set torque wrench with plug-in tool holder

•Release accuracy: ±3 % tolerance from the set value

- · Depending on tool use it is possible to work to the front (e.g. open-end wrench) or to the side (e.g. changeover ratchet and socket wrench set)
- · Simple operation fast and secure torque tightening
- · Changing the operating direction takes place by turning the torque wrench
- •Double-scale Nm and lbf-ft and/or lbf-in division for precise adjustment
- •Clear audible and noticeable torque release signal through close-gap release •With a fixed adjustable value
- Secure locking possibility
- •Ergonomic and hand-friendly handle
- ·Light, robust and very workshop friendly
- -Long service-life and high holding times
 -Highest precision and reliability even under tough long-term use
- With lock connector
- •Setting the torque by using the captive crank lever mechanism in the handle
- Extremely low wear through force reductions through lever mechanism Individual serial number for clear product identification
- Includes test certificate in accordance with DIN EN ISO 6789:2003 traceable to national standards

ALUTORQUE precision Fixed pre-set torque wrench with plug-in tool holder

•Release accuracy: ±3 % tolerance from the set value

- · Depending on tool use it is possible to work to the front (e.g. open-end wrench) or to the side (e.g. changeover ratchet and socket wrench set)
- · Simple operation fast and secure torque tightening
- Changing the operating direction takes place by turning the torque wrench
 Double-scale Nm and Ibf-ft and/or Ibf-in division for precise adjustment
- Clear audible and noticeable torque release signal through close-gap release Secure locking possibility
- · Ergonomic and hand-friendly handle ·Light, robust and very workshop friendly
- ·Long service-life and high holding times
- ·Highest precision and reliability even under tough long-term use
- •With lock connector

9x12 mm 14x18

- •Setting the torque by using the captive crank lever mechanism in the handle •Extremely low wear through force reductions through lever mechanism
- Individual serial number for clear product identification
 Includes test certificate in accordance with DIN EN ISO 6789:2003 traceable to national standards



9x12	18						(>			DIN E	I and Certified To N ISO 6789 tificate vecition */*7%
		N∙m	Division N•m	lbf•in	bf•ft	Division Ibf•in	Division Iof•ft	L mm	L mm	S mm	H mm	kg	
516.5080	9x12	8-40	5.00	70-350		5.0		350.0	303	17,5	35.0	0.95	
516.5081	9x12	20-120	5.00		15-90		5.0	474.0	414	17,5	35.0	1.25	
516.5082	14x18	50-400	5.00		35-300		5.0	641.0	532	25,0	35.0	1.70	

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· CEROUS ALLINEN	



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		N∙m	Division N•m	Ibf+in	bf-ft	Division Ibf•in	Division Iof-ft	L mm	L mm	S mm	H mm	kg	
516.5085	9x12	8-40	5.00	70-350		50.0		361.0	303	17,5	35.0	0.95	
516.5086	9x12	20-120	5.00		15-90		5.0	485.0	414	17,5	35.0	1.25	
516.5087	14x18	50-400	5.00		35-300		5.0	653.0	582	25,0	35.0	1.70	

KETOOLS

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SLIPPER TORQUE WRENCH

516.5001

516.5002

516.5003

516.5004

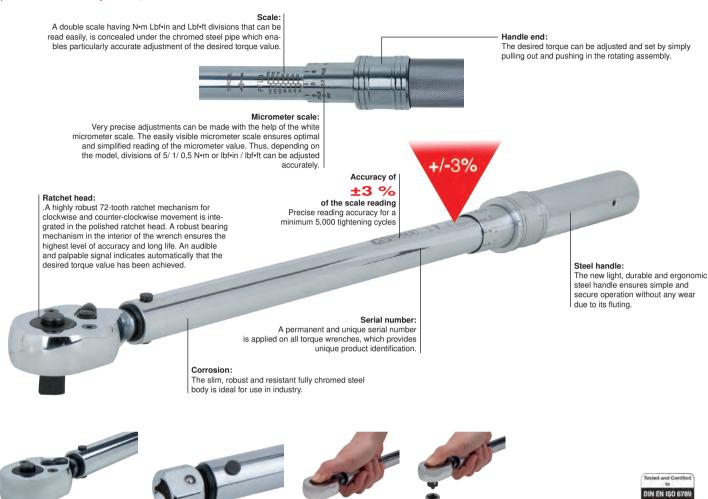
		Measuring range N•m	l bf•ft	L		 D	H	kg		25
·4" 3/8" 1/2"										05
					332					24
										23
		e with DIN / ISO 6789:20	003 - traceable to nati	ional standards						22
Ergonomic and Square drive in	hand-friendly rubber l	3120 - ISO 1174 with b								21
Automatic rese Without scale Long service-li	et in the initial position - with a fixed adjustable fe and high holding tim	e value les								
For serial and/ For controlled Clearly noticea	or conveyor assembly fastening in a clockwis ble torque release sigr le to over tighten the se	lines e direction nal through ratchet						HOL	L -	20
Release accur		m the set scale value ar um 5.000 tightening cyc								19
										18
					V			L		17
	A							5		16
ratcheting to	rque wrench can then	be used immediately ag	ain.							15
en a preset v sibility of ove	rtightening).	echanism slips over the			ECHNO	LOGY				14
									DIN EN ISO 6789 Certificate Precision #76%	13
					guarantees lasting c	orrosion protection.			Tested and Certified	12
		number is applied provides	on all torque wrenche s unique product iden	tification.	Corrosion: The robust and resis					11
			A permanent and uniq			whereby the softe		vents the hand		10
		1-5				The new light, dura	able and ergonom	onent handle: nic two-compo- ortless working.		9
					~	JE				
				KSII		R	0 9	127		8
						For	200	00		7
	automatic indicati	sion and very long lifetin ion that the desired torq ed via ratcheting and res	ue value							6
	fastening is integr	6-teeth ratchet mechanis rated in the powder coat all end mechanism guar	sm for ted ratchet	±4 % the scale reading				for com	foratble use	5
								Ergonomic hand		4
				Accuracy	of				Handle:	

26 3-8 182.5 15.5 34.3 0.23 1/4" 4-10 3/8" 5-20 4-19 214.0 35.0 49.5 0.48 3/8" 1/2" 15-55 1.00 11-40 323.0 39.0 58.5 27 25-125 19-93 464.0 40.0 67.3 1.85



INDUSTRIAL TORQUE WRENCH

Torque wrench made from fully chromed, slim steel construction for clockwise and counter clockwise movement



Insulated torque wrench with reversible ratchet head

- Actuation accuracy: ±3 % tolerance from the set scale value and better
 Precise reading accuracy for a minimum 5.000 tightening cycles
- ·Use is almost all industrial production areas
- •For controlled fastening in clockwise and counter clockwise directions
- Double-scale Nm and lbf-ft and/or lbf-in division
- Including a micrometre scale in Nm divisions and lbf-ft and/or lbf-in for precise and fine adjust-
- ment •Clearly audible and noticeable torque release signal •Setting the torque securely by turning the handle
- •Secure locking function within the handle •Long service-life and high holding times

- Highest precision and reliability even under tough long-term use
 Square drive adaptor in accordance with DIN 3120 ISO 1174 with ball lock
- Individual serial number for clear product identification
- Includes test certificate in accordance with DIN EN ISO 6789:2003 traceable to national standards



1/4" 3/8" 1/2" 3/4" ["

		Measuring range N•m	Tooth	Division N•m	lof•in	l bf•ft	Division Ibf•in	Division Ibf+ft	D mm	L mm	e kg
516.5150	1/4"	1-6	72	0.50	11.1-50.9		0.5		26.0	210.0	0.29
516.5151	1/4"	3-15	72	0.12	31-128		1.0		26.0	210.0	0.29
516.5152	1/4"	5-25	72	0.12	53-212		1.0		26.0	248.0	0.33
516.5153	3/8"	10-60	36	0.70		9.2-42.4		0.5	36.5	433.0	1.02
516.5154	3/8"	20-100	36	1.40		16.6-71.9		1.0	36.5	433.0	1.02
516.5155	1/2"	40-200	36	1.40		33-144		1.0	43.5	530.0	1.64
516.5156	1/2"	60-340	36	1.40		52-243		1.0	43.5	610.0	1.80
516.5157	3/4"	100-600	24	3.40		92-424		5.0	63.5	1050.0	4.98
516.5158	3/4"	150-800	24	6.80		129-572		5.0	63.5	1240.0	6.05
516.5159	3/4"	200-1000	24	6.80		166-719		5.0	63.5	1240.0	6.05
516.5160	1"	300-1500	24	6.80		258-1070		5.0	70.0	1850.0	10.51

Industrial torque wrench with plug-in tool holde

- •Actuation accuracy: ±3 % tolerance from the set scale value and better •Precise reading accuracy for a minimum 5.000 tightening cycles
- Use is almost all industrial production areas
 For controlled fastening in clockwise and counter clockwise directions
- Double-scale Nm and lbf-ft and/or lbf-in division •including a micrometre scale in Nm divisions and lbf-ft and/or lbf-in for precise and fine adjust-
- ment ·Clearly audible and noticeable torque release sign
- •Setting the torque securely by turning the handle
- Secure locking function within the handle
 Long service-life and high holding times
- Highest precision and reliability even under tough long-term use
 With lock connector for 9x12 and/or 14x18 plug-in tools
- Individual serial number for clear product identification
- Includes test certificate in accordance with DIN EN ISO 6789:2003 traceable to national standards





S

9x12 mm 14x18

		Measuring range N•m	Division N•m	Ibf•in	bf ft	Division Ibf•in	Division Ibf+ft	L mm	L mm	S mm	kg	
516.5061	9x12	3-15	0.50	31-128		0.5		197.0	183	17,5	0.26	
516.5062	9x12	5-25	0.12	53-212		1.0		227.0	213	17,5	0.30	
516.5063	9x12	1-6	0.12	11.1-50.9		1.0		197.0	183	17,5	0.26	
516.5064	9x12	10-60	0.70		9.2-42.4		0.5	403.0	373	17,5	1.29	
516.5065	9x12	20-100	1.40		16.6-71.9		1.0	403.0	373	17,5	1.29	
516.5066	14x18	10-60	0.70		9.2-42.4		0.5	425.0	402,5	25,0	1.29	
516.5067	14x18	20-100	1.40		16.6-71.9		1.0	425.0	402,5	25,0	1.29	
516.5068	14x18	40-200	1.40		33-144		1.0	503.0	474	25,0	1.46	
516.5069	14x18	60-340	1.40		52-243		1.0	583.0	554	25,0	1.60	

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516.4590

516.4595

3/4"

3/4"

160-800

200-1000

120 - 590

150 - 750

1140.0

1340.0

70.0

70.0

37.0

37.0

6.70

7.40

516.4642

516.4672

14x18

14x18

40-200

60-350

30 - 150

45 - 260

450.0

580.0

425.0

560,0

25.0

25,0

1.10

1.40



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TORQUE WRENCH WITH CLOSE-GAP RELEASE

As a result of the close-gap release, the chance of over-tightening is reduced and, in addition, this mechanism enhances the accuracy when fastening the screw.

A palpable and acoustic snap indicates that the desired torque value has been achieved in addition the mechanism resets automatically to the initial position.



- Actuation accuracy: ±4 % tolerance of the set scale value
 Precise reading accuracy for a minimum 5.000 tightening cycles
- · For controlled fastening in clockwise and counter clockwise directions
- The direction of rotation (clockwise and counter clockwise) can be changed by simply rotating the square drive piece
- Four fold scale in N•m, Kg•fm, Ibf•in und Ibf•ft divisions for precise adjustment
- An audible and palpable signal when the desired torque value is achieved
 Torque setting is easy by pulling out, adjusting and pushing in the winder in the handle

- Automatic reset in the initial position
 Ergonomic handle designed for comfortable use
- Square drive adaptor to DIN 3120 ISO 1174 with ball lock
 Individually marked with serial number unique product identification
- · Includes test certificate in accordance with DIN EN ISO 6789:2003 national standard



1/4" 3/8" 1/2" 3/4" ["

		N∙m	lbf•ft	Division N•m	Division Ibl•ft	L mm	kg	
516.3510	3/8"	2.5-11	2 - 8	0.50	0.5	300.0	0.56	
516.3515	3/8"	5-33	4 - 24	1.00	1.0	405.0	0.69	
516.3520	3/8"	12-68	10 - 50	2.00	2.0	480.0	1.00	
516.3525	1/2"	12-68	10 - 50	2.00	2.0	480.0	1.00	
516.3530	1/2"	25-150	20 - 110	5.00	2.0	575.0	1.70	
516.3535	1/2"	50-250	40 - 180	10.00	5.0	605.0	2.30	
516.3540	1/2"	70-350	50 - 260	10.00	10.0	815.0	3.00	
516.3545	3/4"	140-800	120 - 580	20.00	20.0	935.0	6.50	
516.3550	1"	200-1000	150 - 750	25.00	25.0	1030.0	9.70	
516.3555	1"	500-2000	350 - 1500	50.00	50.0	1400.0	18.00	

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ACCESSORIES - PLUG-IN TOOLS

We have a diverse range of plug-in tools within our range:

- Open
- Ring
 Ratchet
- Torx[®] Push-fit square mount
- Bit holder

In case our range does not have what you need, we would be pleased to manufacture push-fit tools based on your specifications.











CAUTION: The maximum torque loads of the push-fit tools are in line with DIN 899 and can be less than the maximum torque of the tool used.

CALCULATION OF CORRECTED DISPLAY AND SET VALUES

-			- (*		-			
9x12 mm 14x18								
Code		N∙m	I bf•ft	Division N•m	L	L mm̃	S, mm	9
516.1612	9 x 12	1 - 25	0,8 - 18	0.1	280.0	245,0	17,5	300
516.1622	9 x 12	5 - 50	4 - 37	0.3	335.0	295,0	17,5	450
516.1632	9 x 12	10 - 100	8 - 75	0.5	375.0	335,0	17,5	600
516.1633	14 x 18	10 - 100	8 - 75	0.5	375.0	335,0	17,5	600
516.1642	9 x 12	20 - 200	15 - 150	1.0	465.0	425,0	17,5	850
516.1652	14 x 18	20 - 200	15 - 150	1.0	470.0	435,0	25,0	900
516.1672	14 x 18	60 - 320	45 - 236	1.0	565.0	530,0	25,0	1200
516.1682	14 x 18	80 - 420	60 - 310	1.0	650.0	435,0	25,0	1600
xample: 516 esired torque $w = \frac{P_d \cdot L}{L_k - S_k}$	e = 230 N * S ⁼ 5	1•m 230 N 30 mm •	rin - 530 25 mm	+ 32,5 m		<u>121900</u> 537,5	= _226,8	8 N•m

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PUSH FIT TOOLS

CAUTION:

The maximum torque loads of the push-fit tools are in line with DIN 899 and can be less than the maximum torque of the tool used.

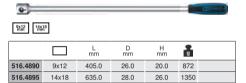
ERGOTORQUE[®] plus universal wrench without torque function - with retangular tool holder

Ideal for loosening jammed screw connections
Can untighten without any torque restraint

- Made of solid material
- •Two-component handle with a soft zone, is ergonomic in
- design and comfortable in the hand Snap lock tool holder available for replaceable 9x12 or 14x18

end tools





Push fit flared wrench

•With a locking pin

·Chrome plated



9x12 mm

		i	S mm	B mm	H mm	9	
516.2107	9x12	7	17,5	22.0	5.0	35	
516.2108	9x12	8	17,5	22.0	5.0	35	
516.2109	9x12	9	17,5	26.0	5.5	35	
516.2110	9x12	10	17,5	26.0	5.5	35	
516.2111	9x12	11	17,5	26.0	5.5	35	
516.2112	9x12	12	17,5	30.0	7.0	35	
516.2113	9x12	13	17,5	30.0	7.0	35	
516.2114	9x12	14	17,5	35.0	8.0	40	
516.2115	9x12	15	17,5	35.0	8.0	40	
516.2116	9x12	16	20,0*	38.0	8.5	45	
516.2117	9x12	17	20,0*	38.0	8.5	50	
516.2118	9x12	18	20,0*	42.0	9.0	60	
516.2119	9x12	19	20,0*	42.0	9.0	60	

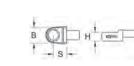


Push fit ring spanner (box wrench)

•With a locking pin

·Chrome plated

9x12





9x12 mm							
		M	S mm	B mm	H mm	g	
516.2307	9x12	7	17,5	13.0	8.0	30	
516.2308	9x12	8	17,5	14.2	8.0	30	
516.2310	9x12	10	17,5	17.2	9.0	30	
516.2311	9x12	11	17,5	18.5	9.0	30	
516.2312	9x12	12	17,5	20.0	12.0	35	
516.2313	9x12	13	17,5	21.5	12.0	35	
516.2314	9x12	14	17,5	23.0	12.0	40	
516.2315	9x12	15	17,5	24.2	12.0	40	
516.2316	9x12	16	17,5	25.7	13.0	40	
516.2317	9x12	17	17,5	27.2	13.0	40	
516.2318	9x12	18	17,5	28.5	13.0	40	
516.2319	9x12	19	17,5	30.3	13.0	40	
516.2321	9x12	21	17,5	33.0	15.0	50	
516.2322	9x12	22	17,5	34.5	15.0	50	



9x12 mm							
		Ĩ	S mm	B mm	H mm	9	
516.3006	9x12	E 6	17,5	13.0	8.0	40	
516.3008	9x12	E 8	17.5	14.2	8.0	45	

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TX-E push fit ring spanner (box wrench)

•With a locking pin

·Chrome plated

		-	mm	mm	mm	9	
16.3006	9x12	E 6	17,5	13.0	8.0	40	
16.3008	9x12	E 8	17,5	14.2	8.0	45	
16.3010	9x12	E 10	17,5	17.2	9.0	50	
16.3012	9x12	E 12	17,5	18.5	9.0	50	
16.3014	9x12	E 14	17,5	21.5	10.0	60	

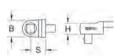
Push fit fine toothed reversible ratchet head

•With a locking pin Fine toothed •With release feature Chrome plated



S mm B mm H mm 9 1/4" 17,5 27.0 25.0 75 516.2614 9x12 516.2638 9x12 17,5 35.0 35.0 152 3/8" 516.2612 1/2" 17,5 43.0 40.0 228 9x12

Push fit square mount •With a locking pin ·Chrome plated





			S mm	B mm	H mm	G		25
516.2814	9x12	1/4"	17,5	20.0	14.0	70		
516.2838	9x12	3/8"	17,5	20.0	14.0	76		
516.2812	9x12	1/2"	17,5	20.0	14.0	80		26
								20

* Please note the changed values on the torque wrench!

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Open push fit ring spanner (box wrench)

With a locking pin
 Chrome plated





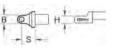
9x12 mm

		m	S mm	B mm	9	
516.2510	9x12	10	17,5	21.0	40	
516.2511	9x12	11	17,5	22.5	40	
516.2512	9x12	12	17,5	23.7	40	
516.2513	9x12	13	17,5	25.2	40	
516.2514	9x12	14	17,5	27.0	50	
516.2517	9x12	17	17,5	31.5	65	
516.2518	9x12	18	17,5	33.0	65	
516.2519	9x12	19	17,5	34.5	65	
516.2522	9x12	22	20,0*	39.0	65	

KETOOLS

Push fit bit holder

•With a locking pin ·Chrome plated





9x12 mm							
5/16" 1/4"							
		0	S mm	B mm	H mm	9	
516.2005	9x12	1/4"	17,5	14.0	10.0	47	
516.2010	9x12	5/16"	17,5	16.0	12.5	47	

Push fit jaw wrench

•Snap lock tool holder available for replaceable 9x12 or 14x18 end tools

•With a locking pin ·Chrome plated



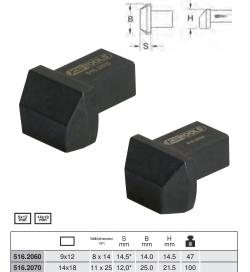


9x12 mm 14x18

			S mm	B mm	H mm	9	
516.2040	9x12	14 x 18	30,5*	31.0	26.0	120	
516.2050	14x18	9 x 12	27,0*	28.0	21.0	120	

Push fit weld on head

•With a locking pin •Burnished



Push fit flared wrench

•With a locking pin



14x18 mm

		i	S mm	B mm	H mm	9	
516.2213	14x18	13	25,0	30.0	7.0	120	
516.2214	14x18	14	25,0	35.0	8.0	120	
516.2215	14x18	15	25,0	35.0	8.0	120	
516.2216	14x18	16	25,0	38.0	9.0	125	
516.2217	14x18	17	25,0	38.0	9.0	130	
516.2218	14x18	18	25,0	42.0	10.0	130	
516.2219	14x18	19	25,0	42.0	10.0	130	
516.2221	14x18	21	25,0	50.0	11.0	155	
516.2222	14x18	22	25,0	50.0	11.0	160	
516.2224	14x18	24	27,5*	53.0	12.0	170	
516.2226	14x18	26	30,0*	60.0	13.0	180	
516.2227	14x18	27	30,0*	60.0	13.0	185	
516.2229	14x18	29	30,0*	66.0	14.0	210	
516.2230	14x18	30	30,0*	66.0	14.0	220	
516.2232	14x18	32	32,5*	66.0	14.0	239	
516.2234	14x18	34	32,5*	66.0	14.0	246	
516.2236	14x18	36	32,5*	74.0	15.0	265	
516.2238	14x18	38	32,5*	74.0	15.0	275	
516.2241	14x18	41	32,5*	82.0	15.0	307	



Push fit ring spanner (box wrench)

•With a locking pin •Chrome plated

14x18 mm



		i	S mm	B mm	H mm	9	
516.2413	14x18	13	25,0	21.5	11.0	120	
516.2414	14x18	14	25,0	23.0	11.0	120	
516.2415	14x18	15	25,0	24.2	11.0	115	
516.2416	14x18	16	25,0	25.7	12.0	125	
516.2417	14x18	17	25,0	27.2	12.0	125	
516.2418	14x18	18	25,0	28.5	12.0	125	
516.2419	14x18	19	25,0	30.5	12.0	125	
516.2421	14x18	21	25,0	33.0	15.0	140	
516.2422	14x18	22	25,0	34.5	15.0	140	
516.2424	14x18	24	25,0	37.5	15.0	140	
516.2427	14x18	27	25,0	41.5	17.0	150	
516.2430	14x18	30	25,0	45.0	19.0	160	
516.2432	14x18	32	25,0	47.5	19.0	165	
516.2434	14x18	34	28,0*	50.5	19.0	195	
516.2436	14x18	36	28,0*	53.0	19.0	195	
516.2441	14x18	41	30,0*	59.0	20.0	225	

TX-E Push fit ring spanner (box wrench)

•With a locking pin ·Chrome plated

14x18 mm



			S mm	B mm	H mm	9	
516.3114	14x18	E 14	25,0	22.5	11.0	130	
516.3118	14x18	E 18	25,0	24.0	11.0	135	
516.3120	14x18	E 20	25,0	29.0	13.0	150	
516.3124	14x18	E 24	25,0	30.5	13.0	150	

Push fit fine toothed reversible ratchet head •With a locking pin •Fine toothed





			S mm	B mm	H mm	9	
516.2712	14x18	1/2"	25,0	43.0	43.0	260	
516.2734	14x18	3/4"	25,0	70.0	60.0	795	

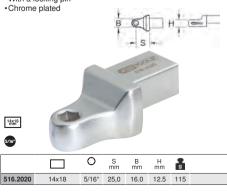
Push fit square mount

•With a locking pin •Chrome plated



Push fit bit holder

•With a locking pin



* Please note the changed values on the torque wrench!

TOOLS

Insulated mini torque wrench with reversible ratchet head

•For working environment of voltages AC 1000 V and DC 1500

Actuation accuracy: ±3 % tolerance of the set scale value

Insulated handle to IEC 60900

v

1

2

3

PUSH FIT TOOLKIT

Air conditioning toolkit 10-100 N·m

•Set contents ideal for air conditioning and refrigeration

- engineers •With snap lock retangular tool holder for 14x18 range of end tools
- ·Supplied in a metal carrying case with the tools clearly organised



14x18

					e kg
516.12	25	8 pcs		nditioning toolkit 0 N•m	3.40
			-		
1 x	-			10 - 100 N•m	
6 x		· Di		17 - 22 - 24 - 26 - 27 - 2	29 mm
1 x		Card a		1/2"	

Torque tool set with plug in tools

- Set contents for universal applications
 With snap lock retangular tool holder for 9x12 range of end tool
- Supplied in a metal carrying case with the tools clearly organised



	-								
					kg				
516.17	20	29 pcs	Torqu	e tool set with plug in tools	2.20				
1 x	5	i i		5 - 50 N•m					
11 x		TP.	1	7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 16 - 17 mm					
10 x		emi		7 - 8 - 10 - 11 - 12 - 13 - 14 - 15 16 - 17 mm					
6 x		TUN		10 - 11 - 12 - 13 - 14 - 17 mm					
1 x		P		3/8"					

Torque tool set with plug in tools

·Set contents for universal applications •With snap lock retangular tool holder for 14x18 range of end

tools · Supplied in a metal carrying case with the tools clearly organised



14x18 1/2*

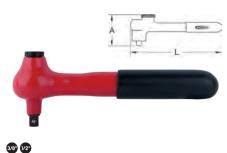
				kg				
516	.1730	31 pcs	e tool set with n tools	5.80				
1	x		20 - 200 N•m					
13	x	- 10;	13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 22 - 24 - 27 - 30 - 32 mm					
16	x	sen:	13 - 14 - 15 - 16 - 17 - 1 22 - 24 - 27 - 30 - 32 - 3					
1	x	P	1/2"					



VDE TORQUE WRENCH

Insulated pre set torque wrench

- •Actuation accuracy: ±3 % tolerance from the set value •Precise reading accuracy for a minimum 5.000 tightening cycles
- •For controlled fastening in a clockwise direction •Can untighten without any torque restraint thanks to the
- anticlockwise latch •An audible and palpable signal when the desired torque value
- is achieved •Without scale With a fixed adjustable value
- Tool holder female hexagon 6 point to DIN 3126 E6,3
 Individually marked with serial number unique product identification
- Includes test certificate in accordance with DIN EN ISO 6789 national standard



N•m A mm 4 9 mm 117.3922 5-35 78.0 210.0 3/8" <u>A</u> 420 117.1001 78.0 250.0 1/2" 5-35 æ 420

 Actuation and better 		acy:	±3 % t	olerar	ice of th	ne set	scale value		
		accu	uracy f	or a m	iinimum	1 5.00	0 tightening		4
 For contr 							on nks to the		7
anticlock	wise la	tch					red torque v	alue	5
is achiev •With exa	ed								5
	ic desi						ransmissio	n of	6
							with ball loo le product	k	0
identifica • Includes		rtifica	ate in a	accord	ance w	rith DI	N EN ISO		7
6789:200	03 natio	onal s	standa	rd					7
									8
					DO	1	(Class)	\geq	0
					1	-			0
					រិប	1		~	9
									10
									10
					and a second	=n.	unun i		
					200	a set and	Sector Sector		11
1									4.0
1/4" 3/8" 1/2									12
		N·m	D	н	L mm	4	9		
117.1400	1/4"	2-12	mm 40.0	mm 41.0	mm 200.0	1000V	9 400	_	13
117.1402 117.1184		5-25 5-25	40.0 40.0	41.0 42.0	200.0 200.0	A 1000V A 1000V	420 440		
117.1185		5-25	40.0	42.0	200.0	1000V	440		14
					versib	le rate	chet head		15
 Insulated For work V 					es AC	1000 '	V and DC 1	500	
		acy:	±3 % t	olerar	ice of th	ne set	scale value	•	16
		accu	iracy f	or a m	iinimum	n 5.00	0 tightening		
 For contr 							on nks to the		17
anticlock • Scale in	wise la	ıtch							
 Large vis 	sion pa	nel fo	r prec	ise ad	justmer	nt	red torque v	alue	18
is achiev •With exa		ing 3	0 teeth	n ratch	et mec	hanisi	n		
							with ball loo e product	k	19
identifica • Includes	test ce				ance w	rith DI	N EN ISO		
6789:200	03 natio	onal s	standa	rd					20
				ŧ.	6	-			21
					-	_	L	-	
									22
				-					
		ì							23
- F									24
3/8" 1/2"									
			N·m	H mm	L mm	4	e kg		25
117.3805	3/8"		2-27	mm 51.0	280.0	4 1000V	0.92		25
117.3805 117.3810 117.1301 117.1300	3/8" 3/8" 1/2"			mm		4 1000v 2000v 2000v			25 26

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27

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- •La • A
- is •W
- •So

117.1300

117.1302

117.1303

1/2

1/2"

1/2"

5-50 61.0 370.0

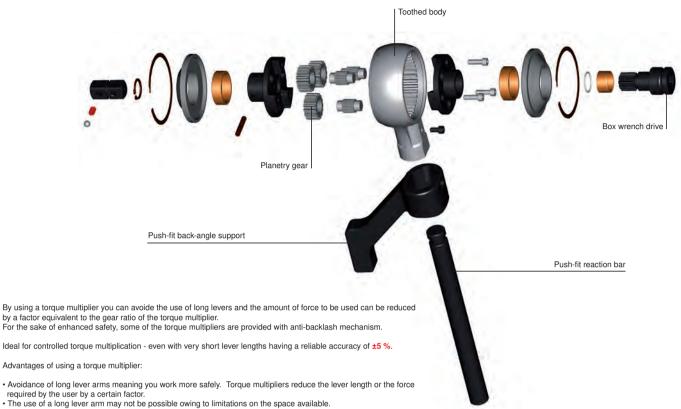
20-100 61.0 460.0 A

40-220 61.0 530.0 A 1.30

1.10



TORQUE CONVERTOR



• The torque multiplier means the torque is applied more accurately as it is applied continuously and slowly and therefore more accuratly.

Torque multiplier set

- Robust tightening and loosening
- •Designed for use with the crank handle supplied
- •With integrated, adjustable support device •Square drive adaptor to DIN 3120 / ISO 1174
- 1:64 Torque ratio 3.800 N•m maximum output torque
- Includes sockets and extension
- · Indispensable as essential equipment on service vehicles
- •Not suited for use in industry
- •Not suited for use with impact wrenches
- In durable plastic storage case

Torque multiplier set

- •Robust tightening and loosening
- Designed for use with the crank handle supplied
- With intergrated support device
 Square drive adaptor to DIN 3120 / ISO 1174
- •1:64 Torque ratio •4,000 N•m maximum output torque
- · Including crank handle and one extension
- · Indispensable as essential equipment on service vehicles · Ideal for trucks, construction machines and agricultural machines
- •Not suited for use with impact wrenches · In durable plastic storage case



T				
			kg	
516.1180	7 pcs	Torque multiplier set	8.00	

consists of:

		kg	
516.1181 T	oque multiplier, 1:64	5.98	
516.1182 1	" socket, hexagonal, SW27	0.55	
516.1184 1	" socket, hexagonal, SW30	0.59	
516.1185 1	" socket, hexagonal, SW32	0.65	
516.1186 1	" socket, hexagonal, SW33	0.65	
516.1187 E	xtensions	0.30	
516.1188 A	dapter nut	0.35	



T			
			kg
516.1151	3 pcs	Torque multiplier set	8.54
consists o	of:		

516.1152 Crank handle for Impact torque converter 0.50 516.1153 Extension for Impact torque converter, 210 mm 0.30



Accuracy: ±5 % Tolerance

- •For controlled fastening in clockwise and counter clockwise directions
- Device for angle regulated fastening with a torque wrench Single stage precision planetary gear for both directions
 Two support devices
- Square drive adaptor to DIN 3120 ISO 1174 with ball lock
- ·Not suited for use with impact wrenches · Supplied in a metal storage case



		0		<u>→</u> Nm	, Nm	D mm	L mm	H mm	kg
516.3700	1/2"	5:1	3/4"	260	1300	110.0	395.0	127.0	4.20
516.3705	3/4"	5:1	1"	540	2700	110.0	395.0	127.0	4.40



TOOLS

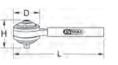
Torque convertor, 1680 N·m

• High accuracy: ±5 % Tolerance

· For controlled fastening in clockwise and counter clockwise directions

Device for angle-regulated fastening with a torque wrench
 With anti-backlash mechanism

- ·Encapsulated precision planetary gearing
- With straight strut
 Housing with angle scale ring
- •Square drive adaptor to DIN 3120 / ISO 1174 with ball lock •Not suited for use with impact wrenches
- · In durable plastic case incl. spare anti/backlash mechanism
- Torque convertor, 3500 N·m
- •High accuracy: ±5 % Tolerance · For controlled fastening in clockwise and counter clockwise
- directions
- Device for angle-regulated fastening with a torque wrench
 With anti-backlash mechanism
- Horizon and backdash mechanism Encapsulated precision planetary gearing Moving strut with 1" socket mounting Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- •Not suited for use with impact wrenches •In durable plastic case incl. spare anti/backlash mechanism







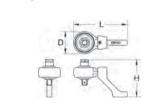
		0		Nm	, Nm	D mm	L mm	H mm	kg	
516.3740	1/2"	6:1	3/4"	280	1680	100.0	128.0	106.0	4.90	

accessories:								
		kg						
516.3742	Spare square for 516.3740	0.10						
516.3743	Straight strut for 516.3740	1.00						
516.3744	Extension for straight strut for 516.3740	1.17						

Torque convertor, 2700 N·m

- High accuracy: ±5 % Tolerance
- •For controlled fastening in clockwise and counter clockwise directions
- Device for angle-regulated fastening with a torque wrench With anti-backlash mechanism
 Encapsulated precision planetary gearing

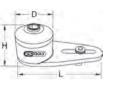
- With adjustable angular strut Square drive adaptor to DIN 3120 / ISO 1174 with ball lock Not suited for use with impact wrenches In durable plastic case incl. spare anti/backlash mechanism





		0		 Nm	, Nm	D mm	L mm	H mm	kg	
516.3745	3/4"	5,4:1	1"	500	2700	115.0	201.0	126.0	6.34	

accessories:						
		kg				
516.3747	Spare square for 516.3745	0.24				
516.3748	Angular strut for 516.3745	1.42				



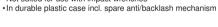


🔲 🔿 📕 就 tim D L H 🖓 **516.3750** 3/4" 4,5:1 1" 770 3500 108.0 264.0 130.0 7.30

accessories:						
		9				
516.3752	Spare square for 516.3750	280				

Torque convertor, 4500 N•m

- High accuracy: ±5 % Tolerance • For controlled fastening in clockwise and counter clockwise
- directions • Device for angle-regulated fastening with a torque wrench
- With anti-backlash mechanism
 Encapsulated precision planetary gearing
- •With straight strut
- With straight struct Square drive adaptor to DIN 3120 / ISO 1174 with ball lock Not suited for use with impact wrenches



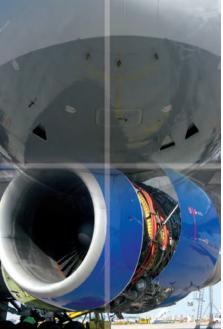


1/2" 1.92"										
		0		Nm	, Nm	D mm	L mm	H mm	kg	
516.3755	1/2"	20:1	1.1/2"	225	4500	120.0	312.0	204.8	8.30	



Confidence is good torque control is better! TOOLS





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Torque convertor, 6000 N·m

• High accuracy: ±5 % Tolerance · For controlled fastening in clockwise and counter clockwise

directions · Device for angle-regulated fastening with a torque wrench •With anti-backlash mechanism

· Encapsulated precision planetary gearing with backstop ·With adjustable strut

- •Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- •Not suited for use with impact wrenches •In durable plastic case incl. spare anti/backlash mechanism



1/2" 11/2"

]	0		Nm	, Nm	D mm	L mm	H mm	kg
516.376) 1/2		26:1	1.1/2"	230	6000	130.0	328.0	216.3	15.70

accessories:	

		kg
516.3762	Replacement shear pin for 516.3760	0.01

Torque convertor, 9500 N·m

• High accuracy: ±5 % Tolerance

• For controlled fastening in clockwise and counter clockwise directions

• Device for angle-regulated fastening with a torque wrench

 With anti-backlash mechanism
 Encapsulated precision planetary gearing with backstop •With adjustable strut

• With adjustable strut • Square drive adaptor to DIN 3120 / ISO 1174 with ball lock • Not suited for use with impact wrenches

- In durable plastic case incl. spare anti/backlash mechanism

 $\begin{tabular}{|c|c|c|c|c|} \hline \Box & \Box & \Box & \Box & D & L & H & B & B & M & $m$$ **516.3765** 1/2" 26:1 1.1/2" 365 9500 184.0 505.0 214.9 30.30

516.3767 Replacement shear pin for 516.3765

kg

0.01

- D -



TEST EQUIPMENT

Precision torque testing instrument with dial indicator and drag indicator

• Display accuracy: ±6 % tolerance of the set scale value • Precise reading accuracy for a minimum 5.000 tightening cvcles

· For controlled fastening in a clockwise and counter clockwise direction

 For testing, measuring, checking and making adjustments Display torque testing instrument with drag indicator
 Large vision panel for precise adjustment

- Tool mounting using a three jaw chuck
 Individually marked with serial number unique product
- identification Includes test certificate in accordance with DIN EN ISO
- 6789:2003 national standard



- High display accuracy: +1 % tolerance of the scale values, +/- 1 digit • For checking or adjusting torque wrenches and torque
- screwdrivers
- For controlled display in a clockwise and counter clockwise direction
- Simple electronic tester with integrated torsion transducer
 Digital scale in N·m divisions for precise adjustment
- Display mode: First Peak (detection of first peak) Large LCD display for clear reading of the values
- •With automatic reset and automatic shutdown •Simple and comfortable operating
- Square drive by means of square adaptor
- · Individually marked with serial number unique product identification
- Including test certificate in accordance with DIN EN ISO
 6789:2003 national standard
 - •No main power required includes 4 x AA 1.5 V LR46 batteries
- Includes reinforcement screw
- · In durable plastic storage case





		Measuring range N•m	L mm	B mm	H mm	kg	
516.0100	1/4" + 3/8" + 1/2" + 3/4"	5 - 500	180,0	130.0	147.0	4.82	
516.0200	1/4" + 3/8" + 1/2" + 3/4"	500-1000	180,0	130.0	147.0	5.40	



accessories:

1/2" LVT



	Measuring range mN•m	Measuring range cN•m	Division mN•m	Division cN•m	Tightening chuck Ø mm	L mm	9	
516.3310	1-9		0,2		1-6,5	83.0	290	
516.3315	2-15		0,2		1-6,5	83.0	290	
516.3320	4-30		0,5		1-6,5	83.0	290	
516.3325	5-60		1		1-6,5	83.0	290	
516.3330	10-120		2		1-6,5	83.0	290	
516.3335	20-240		5		1-6,5	83.0	290	
516.3410		1-15		0.2	1-8,5	102.0	600	
516.3415		2-24		0.2	1-8,5	102.0	600	
516.3420		4-36		0.5	1-8,5	102.0	600	
516.3425		5-60		1.0	1-8,5	102.0	600	
516.3430		10-90		2.0	1-8,5	102.0	600	
516.3435		10-150		2.0	1-8,5	102.0	600	







Innovation is our mission!

TORQUE TOOLS



















