



*Tools and
more*



TORQUE WRENCHES

K11

TORQUE WRENCHES



*Tools and
more*



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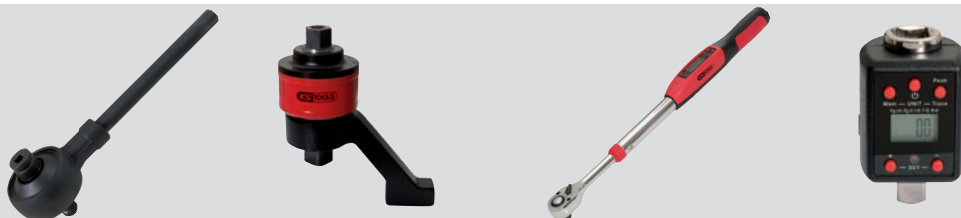
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TORQUE WRENCHES

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.



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.



**Confidence is good -
torque control
is better!**



Torque tools

Indicative torque wrench according to DIN6789 typ I

Torque screwdrivers



- ESD Testing torque screwdriver**
- With drag indicator function
 - Range 20-500 cN

Torque wrenches



- Testing torque wrenches**
- With drag indicator function
 - Torsion rod principle - any power starting point on the wrench
 - Range 0,7-2800 N•m

Electronic torque wrenches



- Electronic torque wrench**
- Acoustic signal in the triggering
 - Measured data storage
 - Display mode track / peak
 - Display is possible in up to 5 different units
 - Accuracy: +/- 1%
 - Range 27-340 N•m



- Electronic torque adaptor**
- Acoustic signal in the triggering
 - Measured data storage
 - Very compact dimensions
 - Display mode track / peak
 - Display is possible in up to 5 different units
 - Accuracy: +/- 1%
 - Range 6-200 N•m

Triggering torque wrench according to DIN6789 typ II

Torque screwdrivers



- ESD Torque screwdriver**
- Triggering is due to the safety clutch, overtightening is not possible
 - Range 1-1000 cN



- Mini torque wrenches**
- Compact dimensions (especially short)
 - Range 3-15 N•m



- Pre-set T handle torque wrench**
- Triggering is due to the safety clutch, overtightening is not possible
 - Range 1-12 N•m

Torque wrench



- Quick adjustment torque wrench**
- Long term repetitive accuracy
 - Resetting to the minimum value is not necessary
 - Quick adjustment due to the shifting of the scale
 - Range 10-1,000 N•m



- Torque wrench with close gap release**
- Compact dimensions (especially short)
 - The chance of over tightening is reduced and, in addition, this mechanism enhances the accuracy
 - Range 2.5-2,000 N•m



- KS Ergotorque® Basic**
- Range 10-320 N•m



- KS Ergotorque® precision**
- Range 1-1,000 N•m



- KS Ultimate precision**
- Range 1-1,000 N•m

Torque testing



- Precision torque testing equipment**
- With drag indicator function
 - Tool reception in a 3 jaw chuck
 - Range 1-9 mN / range 1-150 cN



- Torque testing equipment**
- Tare function (zero point resetting)
 - Display mode first peak
 - Display is possible in up to 5 different units
 - Range 10-1,000 N•m



- Torque testing equipment**
- Display mode first peak
 - Display is possible in up to 5 different units
 - Range 3-800 mN / Range 3-800 cN

Torque convertor



- Universal torque convertor**
- Range up to 2700 N•m



- Universal torque convertor**
- With ratchet function (Non-return device)
 - Range up to 9,700 N•m

TORQUE WRENCHES



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

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 bending 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.

Accuracy of $\pm 2\%$ of the scale reading
Precise reading accuracy for a minimum 10.000 tightening cycles

Corrosion:
The robust steel pipe body is provided with powder coating in order to ensure durable corrosion-proof property.



- KS Ergotorque Basic**
- Push through square (no mushroom heads)
 - Large scale (no micro scale)
 - Accuracy: +/- 3%



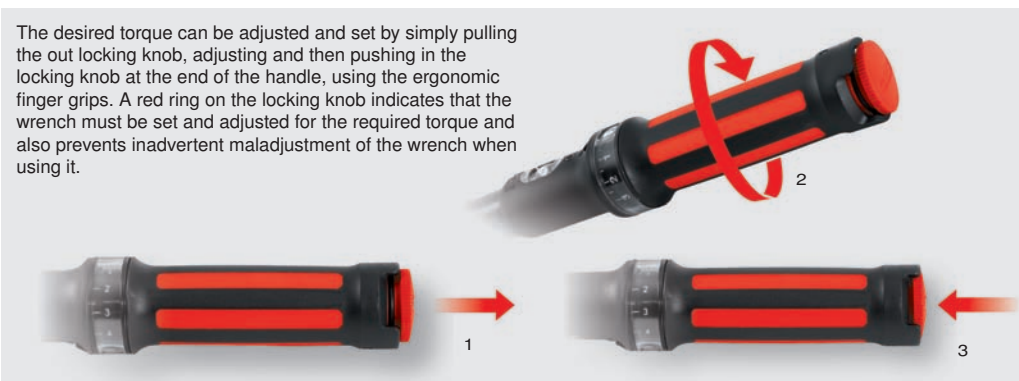
- KS Ergotorque precision**
- As KS Ultimate precision - with only a 3% triggering accuracy



Reversible ratchet head $\frac{1}{4}$ " - 1"

TECHNOLOGY

The desired torque can be adjusted and set by simply pulling the out locking knob, adjusting and then pushing in the locking knob at the end of the handle, using the ergonomic finger grips. A red ring on the locking knob indicates that the wrench must be set and adjusted for the required torque and also prevents inadvertent maladjustment of the wrench when using it.



RATCHET HEADS



Scale with magnifying glass

A double scale having N·m and Lbf·ft divisions that can be read easily, is concealed under a large sized vision panel, which enables particularly accurate adjustment of the desired torque value. In order to be able to read off the scale in an optimal and simple manner, a strong magnifying glass is integrated in the vision panel.



Dual component handle

The durable and ergonomic two-component handle ensures safe and effortless working, whereby the softer component prevents the hand from slipping and provides maximum safety.

Handle end locking:

The desired torque can be adjusted and set by simply pulling the out locking knob, adjusting and then pushing in the locking knob at the end of the handle, using the ergonomic finger grips. A black ring on the locking knob indicates that the wrench must be set and adjusted for the required torque and also prevents inadvertent maladjustment of the wrench when using it.

Micrometer scale:

Even fine adjustments can be made with the help of the white micrometer scale. The vision panel has been sized liberally and ensures that the micrometer value can be read off the scale in an optimal and simple manner using the magnifying glass. Thus, depending on the model, divisions of 1/0,5/0,1 or 0,025 N·m can be adjusted accurately.



Reversible ratchet head **1/4" - 1/2"**



Tool quick change system **9x12 mm**



Tool quick change system **14x18 mm**

EJECTION MECHANISM ROTARY SQUARE BOX WRENCH TOOL QUICK CHANGE SYSTEM



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



CLOCK-WISE **ANTI-CLOCK-**

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.



9x12 mm
14x18 mm

TORQUE SCREWDRIVERS

ESD Torque screwdriver with micrometer scale

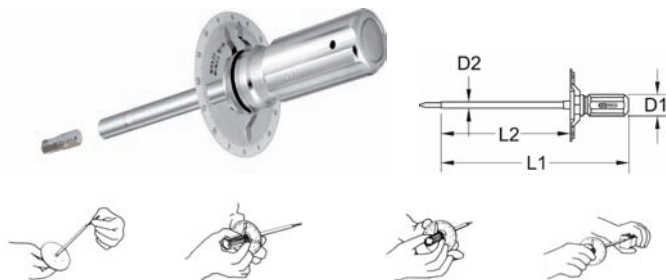
- Actuation accuracy: $\pm 6\%$ tolerance of the set scale value
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For controlled fastening in clockwise and counter clockwise directions
- With precision helical pressure spring
- Clearly palpable release signal when the desired torque is achieved
- It is not possible to over-tighten the set value
- Micrometer scale in N·m divisions for precise and fine adjustment
- Ergonomic designed handle provides secure transmission of the torque
- Tool holder female hexagon 6 point to DIN 3126 - E6,3
- Square drive adaptor to DIN 3120 - ISO 1174 with ball lock
- 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



Item	Measuring range cN·m	Division cN·m	Division N·m	L1 mm	L2 mm	D1 mm	D2 mm	Icon
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

ESD Dial indicating torque screwdriver with a drag indicator

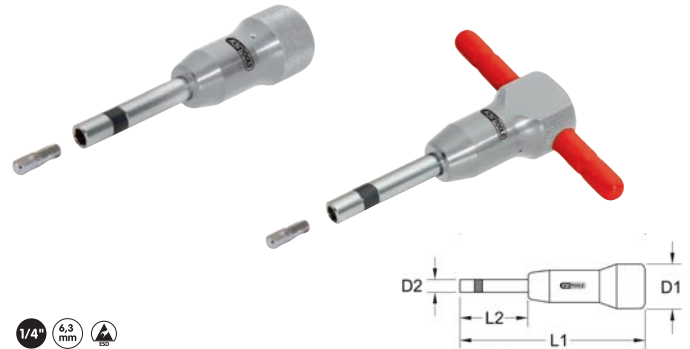
- Display accuracy: $\pm 6\%$ tolerance of the set scale value
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For controlled fastening in a clockwise and counter clockwise direction
- Torque screwdriver with a helical pressure spring
- Ergonomic designed handle provides secure transmission of the torque
- Tool holder female hexagon 6 point to DIN 3126 - E6,3
- Square drive adaptor to DIN 3120 - ISO 1174 with ball lock
- 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



Item	Measuring range cN·m	Division cN·m	L1 mm	L2 mm	D1 mm	D2 mm	Icon
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

ESD Fixed adjustable torque screwdriver with colour coding

- Actuation accuracy: $\pm 6\%$ 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
- Square drive adaptor to DIN 3120 - ISO 1174 with ball lock
- 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



Item	Measuring range cN·m	L1 mm	L2 mm	D1 mm	D2 mm	Farbcode	Icon
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

Stubby torque wrench with exact gearing reversible ratchet head

- Actuation accuracy: $\pm 3\%$ tolerance of the set scale 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
- 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 national standard



Item	Icon	Measuring range N·m	Division N·m	D mm	Icon
516.3280	1/4"	3 - 15	0.50	18.0	190

TORQUE LIMITERS

Torque limiter for spark plugs

- High accuracy
- 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
- Without scale - With a fixed adjustable value
- Can untighten without any torque restraint thanks to the anticlockwise latch
- Square drive adaptor to DIN 3120 - ISO 1174 with ball lock



Item	Icon	Icon	N·m	D mm	L mm	Icon
516.1501	3/8"	3/8"	18	28.0	51.5	165
516.1502	3/8"	3/8"	24	28.0	52.0	166

Pre set torque screwdriver with a T-handle

- Actuation accuracy: $\pm 6\%$ 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
- Ergonomic designed T-handle provides secure transmission of the torque
- Tool holder female hexagon 6 point to DIN 3126 - E6,3
- 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" 6,3 mm

Item	Measuring range N·m	Measuring range kg·cm	Measuring range lbf·in	Tolerance \pm	L1 mm	L2 mm	D1 mm	D2 mm	kg
516.3810	1	10,0	8,9	6%	77.5	33.0	10.0	52.0	52
516.3815	2	20,0	17,7	6%	77.5	33.0	10.0	52.0	52
516.3820	3	31,0	26,6	6%	77.5	33.0	10.0	52.0	52
516.3825	4	41,0	35,4	6%	77.5	33.0	10.0	52.0	52
516.3830	5	51,0	44,3	6%	77.5	33.0	10.0	52.0	52
516.3835	6	61,0	53,0	6%	64.5	33.0	10.0	81.0	68
516.3840	7	71,4	62,0	6%	64.5	33.0	10.0	81.0	68
516.3845	8	81,6	70,8	6%	64.5	33.0	10.0	81.0	68
516.3855	10	102,0	88,5	6%	64.5	33.0	10.0	81.0	68
516.3865	12	122,4	106,2	6%	64.5	33.0	10.0	81.0	68

ULTIMATEprecision TORQUE WRENCH

ULTIMATEprecision torque wrench with rotary mushroom ratchet head

- Actuation accuracy: $\pm 2\%$ tolerance of the set scale value
- Precise reading accuracy for a minimum 10.000 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
- 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 30-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



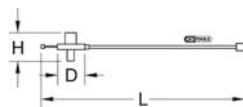
1/4" 3/8" 1/2" 3/4" 1"

Item	□	N·m	Division N·m	lbf·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

ROTARY ANGLE DISCS

Rotary angle disc

- 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"

Item	□	■	Arm	Pitch	D mm	H mm	L mm	kg
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

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

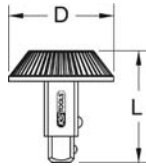


1/4" 3/8" 1/2"

Item	□	■	D mm	L mm	kg
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

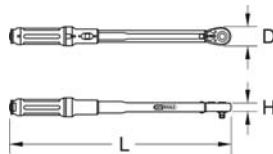


1/4" 3/8" 1/2" 3/4" 1"

Item			D mm	L mm	
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

ULTIMATEprecision torque wrench with rotary mushroom ratchet head

- Actuation accuracy: $\pm 2\%$ 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 30-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 national standard

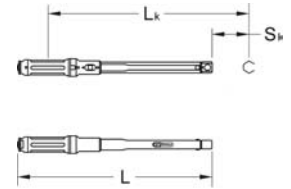


1/4" 3/8" 1/2"

Item		N·m	lbf·ft	Division N·m	L mm	D mm	H mm	
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

ULTIMATEprecision torque wrench with rectangular tool holder

- Actuation accuracy: $\pm 2\%$ tolerance of the set scale value
- Precise reading accuracy for a minimum 10.000 tightening cycles
- 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



9x12 mm 14x18 mm

Item		N·m	Division N·m	lbf·ft	L mm	L mm	S mm	
516.4212	9 x 12	1 - 25	0.10	0,8 - 18	280,0	245,0	17,5	0.30
516.4222	9 x 12	5 - 50	0.25	4,0 - 37	335,0	295,0	17,5	0.45
516.4232	9 x 12	10 - 100	0.50	8,0 - 75	375,0	335,0	17,5	0.60
516.4242	9 x 12	20 - 200	1.00	15,0 - 150	465,0	425,0	17,5	0.85
516.4252	14 x 18	20 - 200	1.00	15,0 - 150	470,0	435,0	25,0	0.90
516.4272	14 x 18	60 - 320	1.00	45,0 - 236	565,0	530,0	25,0	1.20
516.4282	14 x 18	80 - 420	1.00	60,0 - 310	650,0	435,0	25,0	1.60
516.4290	14 x 18	100 - 550	1.00	74,0 - 405	920,0	875,0	25,0	3.75
516.4293	14 x 18	200 - 750	1.00	148 - 553	1120,0	1155,0	25,0	5.27

ULTIMATEprecision fine adjustment torque wrench with rectangular tool holder

- Actuation accuracy: $\pm 2\%$ 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

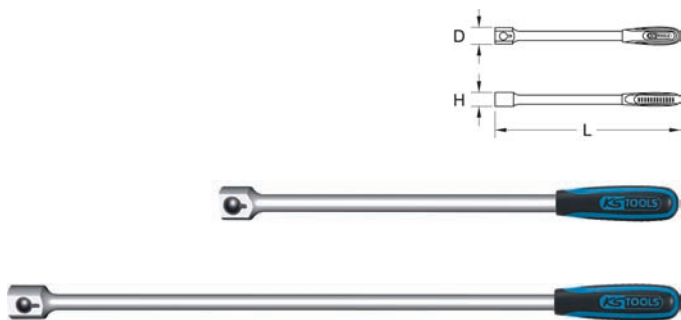


9x12 mm 14x18 mm

Item		N·m	lbf·ft	L mm	L mm	S mm	
516.4810	9 x 12	1 - 25	0,8 - 18	190,0	155,0	17,5	230
516.4820	9 x 12	5 - 50	4 - 37	250,0	210,0	17,5	300
516.4830	9 x 12	15 - 85	12 - 64	330,0	280,0	17,5	370
516.4840	14 x 18	20 - 200	15 - 180	410,0	370,0	25,0	780

ERGOTORQUE^{plus} universal wrench without torque function - with rectangular 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



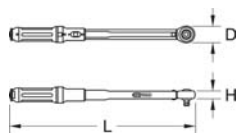
9x12 mm 14x18 mm

Item		L mm	D mm	H mm	
516.4890	9 x 12	405.0	26.0	20.0	700
516.4895	14 x 18	635.0	28.0	26.0	1350

ERGOTORQUE^{plus} TORQUE WRENCH

ERGOTORQUE^{BASIC} torque wrench with insert type ratchet head

- Actuation accuracy: $\pm 3\%$ 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
- 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 30-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



1/2"

Item		N•m	lbf•ft	Division N•m	L mm	D mm	H mm	
516.1932	1/2"	10 - 100	8 - 75	5.00	395.0	43.0	27.0	0.91
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^{plus} TORQUE WRENCH

ERGOTORQUE^{precision} torque wrench with rotary mushroom ratchet head

- Actuation accuracy: $\pm 3\%$ 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
- With exact gearing 30-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"

Item		N•m	Division N•m	lbf•ft	L mm	D mm	H mm	
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"	140 - 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

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"

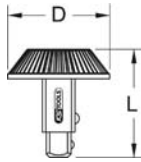
Item			D mm	L mm	
516.1404	3/8"	1/4"	83.0	72.0	51
516.1414	3/8"	3/8"	83.0	72.0	51
516.1424	1/2"	3/8"	100.0	83.0	97
516.1444	1/2"	1/2"	100.0	83.0	107

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"



Item			D mm	L mm	
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



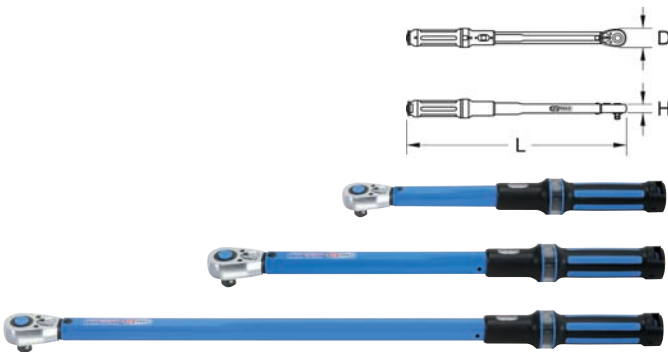
3/8" 1/2"



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

ERGOTORQUE® precision torque wrench with reversible ratchet head

- Actuation accuracy: $\pm 3\%$ tolerance of the set scale 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
- 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 30-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 national standard

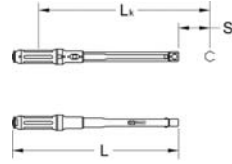


1/4" 3/8" 1/2"

Item		N·m	lbf·ft	Division N·m	L mm	D mm	H mm	
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 torque wrench with rectangular tool holder

- Actuation accuracy: $\pm 3\%$ 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 national standard

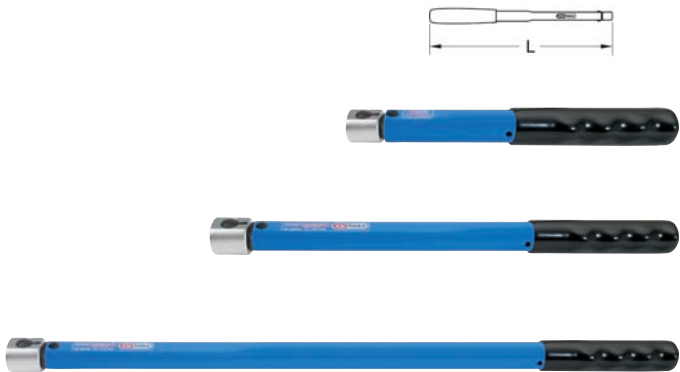
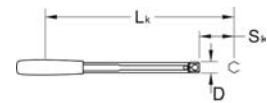


9x12 14x18

Item		N·m	lbf·ft	Division N·m	L mm	L mm	S mm	
516.1612	9 x 12	1 - 25	0,8 - 18	0.10	280.0	245.0	17,5	0.30
516.1622	9 x 12	5 - 50	4 - 37	0.25	335.0	295.0	17,5	0.45
516.1632	9 x 12	10 - 100	8 - 75	0.50	375.0	335.0	17,5	0.60
516.1633	14 x 18	10 - 100	8 - 75	0.50	375.0	335.0	17,5	1.02
516.1642	9 x 12	20 - 200	15 - 150	1.00	465.0	425.0	17,5	0.85
516.1652	14 x 18	20 - 200	15 - 150	1.00	470.0	435.0	25,0	0.90
516.1672	14 x 18	60 - 320	45 - 236	1.00	565.0	530.0	25,0	1.20
516.1682	14 x 18	80 - 420	60 - 310	1.00	650.0	435.0	25,0	1.60

ERGOTORQUE® precision fine adjustment torque wrench with rectangular tool holder

- Actuation accuracy: $\pm 3\%$ tolerance from the set value
- Precise reading accuracy for a minimum 5,000 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
- 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

Item		N·m	lbf·ft	L mm	D mm	L mm	S mm	
516.1810	9 x 12	1 - 25	0,8 - 18	190.0	26.0	155.0	17,5	230
516.1820	9 x 12	5 - 50	4 - 37	250.0	26.0	210.0	17,5	300
516.1830	9 x 12	15 - 85	12 - 64	330.0	26.0	280.0	17,5	370
516.1840	14 x 18	20 - 200	15 - 150	410.0	28.0	370.0	25,0	780

ERGOTORQUE^{plus} universal wrench without torque function - with rectangular 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



Item		L mm	D mm	H mm	
516.4890	9 x 12	405.0	26.0	20.0	872
516.4895	14 x 18	635.0	28.0	26.0	1350

PRECISION TORQUE TESTING INSTRUMENT WITH DIAL INDICATOR

Precision torque testing instrument with dial indicator and drag indicator

- Display accuracy: $\pm 6\%$ 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
- 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 national standard



TORQUE WRENCH WITH QUICK-SET FEATURE

Torque wrench with quick set feature, reversible

- Actuation accuracy: $\pm 3\%$ tolerance of the set scale value
- Precise reading accuracy for a minimum 10.000 tightening cycles
- 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
- 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 simple and quick by sliding the scale using the knurled-head screw
- Secure locking function using the integrated hex screw
- 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 national standard

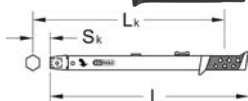


1/2" 3/4"

Item		N•m	lbf•ft	L mm	D mm	H mm	
516.4522	1/2"	10 - 60	7,5 - 44	380.0	38.0	24.0	1.00
516.4532	1/2"	20 - 100	15 - 70	450.0	38.0	24.0	1.20
516.4542	1/2"	40 - 200	30 - 150	450.0	38.0	24.0	1.20
516.4572	1/2"	60 - 350	45 - 260	590.0	38.0	24.0	1.45
516.4590	3/4"	160 - 800	120 - 590	1140.0	70.0	37.0	6.70
516.4595	3/4"	200 - 1000	150 - 750	1340.0	70.0	37.0	7.40

Torque wrench with quick set feature and rectangular tool holder

- Actuation accuracy: $\pm 3\%$ tolerance of the set scale value
- Precise reading accuracy for a minimum 10.000 tightening cycles
- With idle condition, resetting to the minimum value (0) is not necessary
- 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
- Large vision panel, precise adjustment using a magnifying glass
- An audible and palpable signal when the desired torque value is achieved
- Torque setting is simple and quick by sliding the scale using the knurled-head screw
- Secure locking function using the integrated hex screw
- Ergonomic handle designed for comfortable use
- 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 mm 14x18 mm

Item		N•m	lbf•ft	L mm	L _k mm	S _k mm	
516.4622	9 x 12	10 - 60	7,5 - 44	380.0	345,0	17,5	1.00
516.4632	9 x 12	20 - 100	15 - 70	445.0	410,0	17,5	1.10
516.4642	14 x 18	40 - 200	30 - 150	450.0	425,0	25,0	1.10
516.4672	14 x 18	60 - 350	45 - 260	580.0	560,0	25,0	1.40

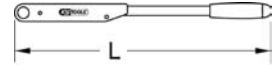
Item	Measuring range mN•m	Measuring range cN•m	Division mN•m	Division cN•m	Tightening chuck Ø mm	L mm	
516.3310	1 - 9		0,2		1 - 6,5	83,0	290
516.3315	2 - 15		0,2		1 - 6,5	83,0	290
516.3320	4 - 30		0,5		1 - 6,5	83,0	290
516.3325	5 - 60		1		1 - 6,5	83,0	290
516.3330	10 - 120		2		1 - 6,5	83,0	290
516.3335	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



TORQUE WRENCH WITH CLOSE-GAP RELEASE

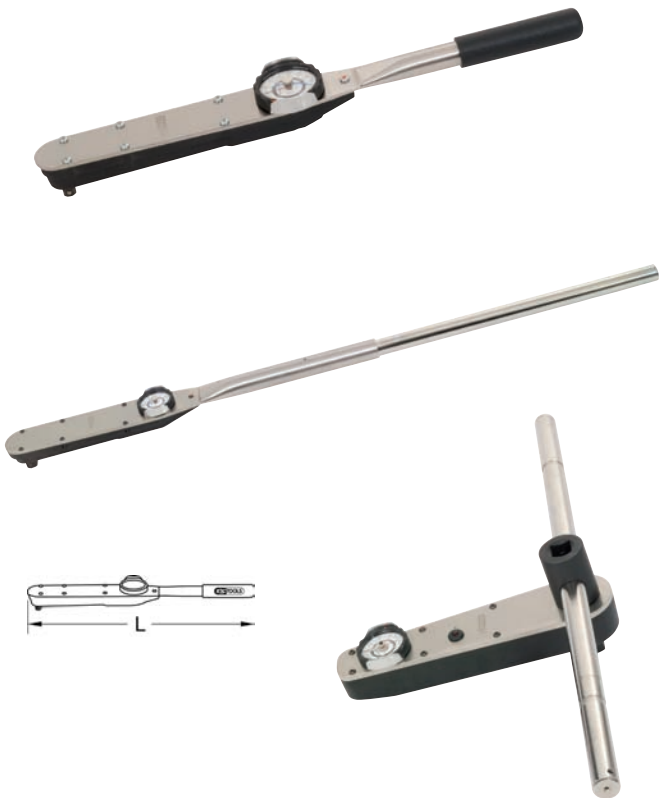
Torque wrench with close gap release

- Actuation accuracy: $\pm 4\%$ 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, lbf·in und lbf·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 national standard



Dial Torque wrench with a drag indicator

- Display accuracy: $\pm 4\%$ 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
- Display type torque wrench with dial indicator and drag indicator
- Double scale in N·m and lbf·ft divisions for precise adjustment
- Large vision panel for precise adjustment
- 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 national standard



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

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

Item	█	N·m	In·lb	lbf·ft	Division Nm	Division In·lb	Division lbf·ft	L mm	Signal	kg
516.3610	1/4"	0,7 - 3,5	6 - 30		0.10	1.0		270.0	-	0.73
516.3615	1/4"	1,8 - 9	15 - 75		0.20	1.0		270.0	-	0.73
516.3620	3/8"	3,6 - 18	30 - 150		0.50	2.0		270.0	-	0.73
516.3625	3/8"	6 - 30	50 - 250		0.50	5.0		270.0	-	0.73
516.3630	3/8"	14 - 70		10 - 50	2.00		1.0	270.0	-	0.73
516.3635	1/2"	50 - 250		34 - 170	5.00		5.0	560.0	-	1.40
516.3640	1/2"	70 - 350		50 - 250	10.00		5.0	560.0	-	1.40
516.3645	3/4"	96 - 480		70 - 350	10.00		10.0	675.0	-	3.20
516.3650	3/4"	160 - 800		120 - 600	25.00		10.0	1180.0	-	4.50
516.3655	1"	280 - 1400		200 - 1000	25.00		20.0	1970.0	+	9.00
516.3660	1"	560 - 2800		400 - 2000	50.00		40.0	3200.0	+	21.00

Item	█	N·m	lbf·ft	Division N·m	Division lbf·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

ULTIMATEprecision TORQUE WRENCH TOOLKIT

ULTIMATEprecision 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



1/4" 5,3 mm

Item			kg
516.4015	35 pcs	Torque wrench toolkit 1-25Nm	4.74
1 x		1 - 25 N•m	
4 x		50 - 75 - 100 - 150 mm	
13 x		4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm	
6 x		3 - 4 - 5 - 6 - 7 - 8 mm	
7 x		T10 - T15 - T20 - T25 - T27 - T30 - T40	
2 x		3/8" x 1/4" ; 3/8" x 3/8"	
2 x		3/8" x 1/4" ; 3/8" x 3/8"	

ULTIMATEprecision torque wrench toolkit 10-100 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



1/2"

Item			kg
516.4035	52 pcs	Torque wrench toolkit 10-100Nm	13.49
1 x		10 - 100 N•m	
3 x		75 - 125 - 250 mm	
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	
12 x		T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60 - T70	
2 x		1/2" x 3/8" ; 1/2" x 1/2"	
2 x		1/2" x 3/8" ; 1/2" x 1/2"	

ULTIMATEprecision 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



3/8"

Item			kg
516.4025	44 pcs	Torque wrench toolkit 5-50Nm	10.33
1 x		5 - 50 N•m	
3 x		75 - 150 - 250 mm	
18 x		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	
2 x		3/8" x 1/4" ; 3/8" x 3/8"	
2 x		3/8" x 1/4" ; 3/8" x 3/8"	

ULTIMATEprecision 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



1/2"

Item			kg
516.4045	52 pcs	Torque wrench toolkit 20-200Nm	13.88
1 x		20 - 200 N•m	
3 x		75 - 125 - 250 mm	
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	
12 x		T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60 - T70	
2 x		1/2" x 3/8" ; 1/2" x 1/2"	
2 x		1/2" x 3/8" ; 1/2" x 1/2"	

ULTIMATEprecision 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



1/2"

Item			
516.4075	52 pcs	Torque wrench toolkit 60-320Nm	14.03
1 x	60 - 320 N·m		
3 x	75 - 125 - 250 mm		
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		
12 x	T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60 - T70		
2 x	1/2" x 3/8" ; 1/2"		
2 x	1/2" x 3/8" ; 1/2"		

ULTIMATEprecision 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



1/4" 6,3 mm

Item			
516.4915	31 pcs	Torque wrench toolkit 1-25Nm	4.60
1 x	1 - 25 N·m		
4 x	50 - 75 - 100 - 150 mm		
13 x	4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm		
6 x	3 - 4 - 5 - 6 - 7 - 8 mm		
7 x	T10 - T15 - T20 - T25 - T27 - T30 - T40		

ULTIMATEprecision torque wrench toolkit 80-420 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



1/2"

Item			
516.4085	52 pcs	Torque wrench toolkit 80-420Nm	14.68
1 x	80 - 420 N·m		
3 x	75 - 125 - 250 mm		
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		
12 x	T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60 - T70		
2 x	1/2" x 3/8" ; 1/2"		
2 x	1/2" x 3/8" ; 1/2"		

ULTIMATEprecision 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



3/8"

Item			
516.4925	40 pcs	Torque wrench toolkit 5-50Nm	6.29
1 x	5 - 50 N·m		
3 x	75 - 150 - 250 mm		
18 x	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		

ULTIMATEprecision 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



ULTIMATEprecision 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



1/2"

Item			
516.4935	48 pcs	Torque wrench toolkit 10-100Nm	13.22
1 x	10 - 100 N·m		
3 x	75 - 125 - 250 mm		
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		
12 x	T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60 - T70		

1/2"

Item			
516.4975	48 pcs	Torque wrench toolkit 60-320Nm	13.76
1 x	60 - 320 N·m		
3 x	75 - 125 - 250 mm		
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		
12 x	T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60 - T70		

ULTIMATEprecision 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



ULTIMATEprecision 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



1/2"

Item			
516.4945	48 pcs	Torque wrench toolkit 20-200Nm	13.61
1 x	20 - 200 N·m		
3 x	75 - 125 - 250 mm		
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		
12 x	T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60 - T70		

1/2"

Item			
516.4985	48 pcs	Torque wrench toolkit 80-420Nm	14.41
1 x	80 - 420 N·m		
3 x	75 - 125 - 250 mm		
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		
12 x	T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60 - T70		

ULTIMATEprecision torque wrench toolkit 1-25 N·m

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



9x12 mm

Item			
516.4215	33 pcs	Torque wrench toolkit 1-25Nm	7.92

1 x		1 - 25 N·m
13 x		7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm
14 x		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		1/4" - 3/8"

ULTIMATEprecision torque wrench toolkit 10-100 N·m

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



9x12 mm

Item			
516.4235	33 pcs	Torque wrench toolkit 10-100Nm	8.22

1 x		10 - 100 N·m
13 x		7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm
14 x		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		1/4" - 3/8"

ULTIMATEprecision torque wrench toolkit 1-50 N·m

- Set contents for universal applications
- Includes Torque wrench with rectangular tool holder
- Supplied in a metal carrying case with the tools clearly organised



9x12 mm

Item			
516.4225	33 pcs	Torque wrench toolkit 1-50Nm	8.07

1 x		1 - 50 N·m
13 x		7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm
14 x		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		1/4" - 3/8"

ULTIMATEprecision torque wrench toolkit 20-200 N·m

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



9x12 mm

Item			
516.4245	32 pcs	Torque wrench toolkit 20-200Nm	8.47

1 x		20 - 200 N·m
13 x		7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm
14 x		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		1/2"

ULTIMATEprecision torque wrench toolkit 60-320 N·m

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



14x18 mm

Item			kg
516.4275	39 pcs	Torque wrench toolkit 60-320Nm	14.65
1 x		60 - 320 N·m	
19 x		13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 - 26 - 27 - 29 - 30 - 32 - 34 - 36 - 38 - 41mm	
16 x		13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 - 27 - 30 - 32 - 34 - 36 - 41 mm	
1 x		5/16"	
1 x		14 x 18 mm	
1 x		1/2"	

ERGOTORQUE®precision TORQUE WRENCH TOOLKIT

ERGOTORQUE®precision torque wrench toolkit 1 - 25 N·m, 35 pcs.

- 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" 6,3 mm

Item			kg
516.1415	35 pcs	Torque wrench toolkit 1-25Nm	4.73
1 x		1 - 25 N·m	
4 x		50 - 75 - 100 - 150 mm	
13 x		4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm	
6 x		3 - 4 - 5 - 6 - 7 - 8 mm	
7 x		T10 - T15 - T20 - T25 - T27 - T30 - T40	
2 x		3/8" x 1/4" ; 3/8"	
2 x		3/8" x 1/4" ; 3/8"	

ULTIMATEprecision torque wrench toolkit 80-420 N·m

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



14x18 mm

Item			kg
516.4285	39 pcs	Torque wrench toolkit 80-420Nm	15.05
1 x		80 - 420 N·m	
19 x		13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 - 26 - 27 - 29 - 30 - 32 - 34 - 36 - 38 - 41 mm	
16 x		13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 - 27 - 30 - 32 - 34 - 36 - 41 mm	
1 x		5/16"	
1 x		14 x 18 mm	
1 x		1/2"	

ERGOTORQUE®precision torque wrench toolkit 5 - 50 N·m, 44 pcs.

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



3/8"

Item			kg
516.1425	44 pcs	Torque wrench toolkit 5-50Nm	10.32
1 x		5 - 50 N·m	
3 x		75 - 150 - 250 mm	
18 x		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	
2 x		3/8" x 1/4" ; 3/8"	
2 x		3/8" x 1/4" ; 3/8"	

ERGOTORQUE® precision torque wrench toolkit 1-100 N·m, 52 pcs.

- 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"

Item	kg
516.1435 52 pcs Torque wrench toolkit 10-100Nm	13.48
1 x 10 - 100 N·m	
3 x 75 - 125 - 250 mm	
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	
12 x T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60 - T70	
2 x 1/2" x 3/8" ; 1/2"	
2 x 1/2" x 3/8" ; 1/2"	

ERGOTORQUE® precision torque wrench toolkit 60-100 N·m, 52 pcs.

- 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"

Item	kg
516.1475 52 pcs Torque wrench toolkit 60-320Nm	13.98
1 x 60 - 320 N·m	
3 x 75 - 125 - 250 mm	
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	
12 x T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60 - T70	
2 x 1/2" x 3/8" ; 1/2"	
2 x 1/2" x 3/8" ; 1/2"	

ERGOTORQUE® precision torque wrench toolkit 20-100 N·m, 52 pcs.

- 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"

Item	kg
516.1445 52 pcs Torque wrench toolkit 20-200Nm	13.90
1 x 20 - 200 N·m	
3 x 75 - 125 - 250 mm	
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	
12 x T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60 - T70	
2 x 1/2" x 3/8" ; 1/2"	
2 x 1/2" x 3/8" ; 1/2"	

ERGOTORQUE® precision torque wrench toolkit 80-100 N·m, 52 pcs.

- 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"

Item	kg
516.1485 52 pcs Torque wrench toolkit 80-420Nm	14.68
1 x 80 - 420 N·m	
3 x 75 - 125 - 250 mm	
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	
12 x T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60 - T70	
2 x 1/2" x 3/8" ; 1/2"	
2 x 1/2" x 3/8" ; 1/2"	

ERGOTORQUE® precision torque wrench toolkit 1-100 N·m, 31 pcs.

- 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 10-100 N·m, 48 pcs.

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



1/4" 6.3 mm

Item	Weight
516.1515 31 pcs Torque wrench toolkit 1-25Nm	4.99
1 x 1 - 25 N·m	
4 x 50 - 75 - 100 - 150 mm	
13 x 4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm	
6 x 3 - 4 - 5 - 6 - 7 - 8 mm	
7 x T10 - T15 - T20 - T25 - T27 - T30 - T40	

1/2"

Item	Weight
516.1535 48 pcs Torque wrench toolkit 10-100Nm	13.61
1 x 10 - 100 N·m	
3 x 75 - 125 - 250 mm	
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	
12 x T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60 - T70	

ERGOTORQUE® precision torque wrench toolkit 5-100 N·m, 40 pcs.

- 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 20-100 N·m, 48 pcs.

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



3/8"

Item	Weight
516.1525 40 pcs Torque wrench toolkit 5-50Nm	6.62
1 x 5 - 50 N·m	
3 x 75 - 150 - 250 mm	
18 x 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	

1/2"

Item	Weight
516.1545 48 pcs Torque wrench toolkit 20-200Nm	13.81
1 x 20 - 200 N·m	
3 x 75 - 125 - 250 mm	
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	
12 x T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60 - T70	

ERGOTORQUE® precision torque wrench toolkit 60-100 N·m, 48 pcs.

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



1/2"

Item			
516.1575	48 pcs	Torque wrench toolkit 60-320Nm	14.11
1 x		60 - 320 Nm	
3 x		75 - 125 - 250 mm	
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	
12 x		T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60 - T70	

ERGOTORQUE® precision torque wrench toolkit 1-100 N·m, 33 pcs.

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



9x12 mm

Item			
516.1615	33 pcs	Torque wrench toolkit 1-25Nm	8.47
1 x		1 - 25 N·m	
13 x		7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	
14 x		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"	

ERGOTORQUE® precision torque wrench toolkit 80-100 N·m, 48 pcs.

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



1/2"

Item			
516.1585	48 pcs	Torque wrench toolkit 80-420Nm	14.51
1 x		80 - 420 N·m	
3 x		75 - 125 - 250 mm	
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	
12 x		T10 - T15 - T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60 - T70	

ERGOTORQUE® precision torque wrench toolkit 5-100 N·m, 33 pcs.

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



9x12 mm

Item			
516.1625	33 pcs	Torque wrench toolkit 1-50Nm	8.56
1 x		5 - 50 N·m	
13 x		7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	
14 x		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"	

ERGOTORQUE® precision torque wrench toolkit 10-100 N•m, 33 pcs.

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



9x12 mm

Item			
516.1635	33 pcs	Torque wrench toolkit 10-100Nm	8.92
1 x		10 - 100 N•m	
13 x		7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	
14 x		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"	

ERGOTORQUE® precision torque wrench toolkit 60-100 N•m, 39 pcs.

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



14x18 mm

Item			
516.1675	39 pcs	Torque wrench toolkit 60-320Nm	15.25
1 x		60 - 320 N•m	
19 x		13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 - 26 - 27 - 29 - 30 - 32 - 34 - 36 - 38 - 41 mm	
16 x		13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 - 27 - 30 - 32 - 34 - 36 - 41 mm	
1 x		5/16"	
1 x		14 x 18	
1 x		1/2"	

ERGOTORQUE® precision torque wrench toolkit 20-200 N•m, 32 pcs.

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



9x12 mm

Item			
516.1645	32 pcs	Torque wrench toolkit 20-200Nm	9.12
1 x		20 - 200 N•m	
13 x		7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	
14 x		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	
1 x		1/2"	

ERGOTORQUE® precision torque wrench toolkit 80-100 N•m, 39 pcs.

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



14x18 mm

Item			
516.1685	39 pcs	Torque wrench toolkit 80-420Nm	15.65
1 x		80 - 420 N•m	
19 x		13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 - 26 - 27 - 29 - 30 - 32 - 34 - 36 - 38 - 41 mm	
16 x		13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 - 27 - 30 - 32 - 34 - 36 - 41 mm	
1 x		5/16"	
1 x		14 x 18	
1 x		1/2"	

PUSH FIT TOOLS

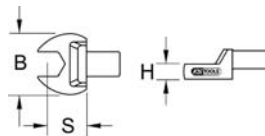
CAUTION:

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.

* Please note the changed values on the torque wrench!

Push fit flared wrench

- With a locking pin
- Chrome plated

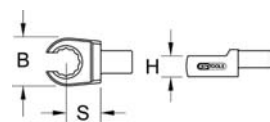


9x12 mm

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

Open push fit ring spanner (box wrench)

- With a locking pin
- Chrome plated

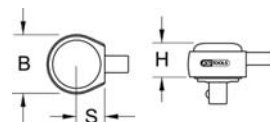


9x12 mm

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

Push fit fine toothed reversible ratchet head

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



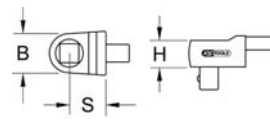
9x12 mm

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

Item	□	■	S mm	B mm	H mm	⚙
516.2614	9 x 12	1/4"	17,5	27.0	25.0	75
516.2638	9 x 12	3/8"	17,5	35.0	35.0	152
516.2612	9 x 12	1/2"	17,5	43.0	40.0	228

Push fit square mount

- With a locking pin
- Chrome plated



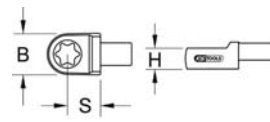
9x12 mm

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

Item	□	■	S mm	B mm	H mm	⚙
516.2814	9 x 12	1/4"	17,5	20.0	14.0	70
516.2838	9 x 12	3/8"	17,5	20.0	14.0	76
516.2812	9 x 12	1/2"	17,5	20.0	14.0	80

TX Push fit ring spanner (box wrench)

- With a locking pin
- Chrome plated



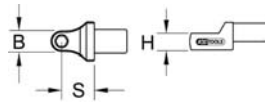
9x12 mm

Item	□	⚙	S mm	B mm	H mm	⚙
516.3006	9 x 12	E 6	17,5	13.0	8.0	40
516.3008	9 x 12	E 8	17,5	14.2	8.0	45
516.3010	9 x 12	E 10	17,5	17.2	9.0	45
516.3012	9 x 12	E 12	17,5	18.5	9.0	50
516.3014	9 x 12	E 14	17,5	21.5	10.0	60

* Please note the changed values on the torque wrench!

Push fit bit holder

- With a locking pin
- Chrome plated



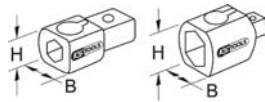
9x12 mm

5/16" 1/4"

Item	□	■	S mm	B mm	H mm	🔒
516.2005	9 x 12	1/4"	17,5	14,0	10,0	47
516.2010	9 x 12	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

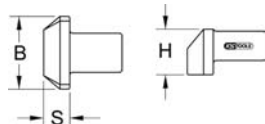


9x12 mm 14x18 mm

Item	□	■	S mm	B mm	H mm	🔒
516.2040	9 x 12	14 x 18	30,5	31,0	26,0	120
516.2050	14 x 18	9 x 12	27,0	28,0	21,0	120

Push fit weld on head

- With a locking pin
- Burnished

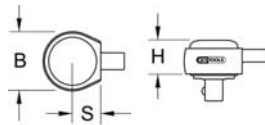


9x12 mm

Item	□	Weld dimension mm	S mm	B mm	H mm	🔒
516.2060	9 x 12	8 x 14	14,5	14,0	14,5	47

Push fit fine toothed reversible ratchet head

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



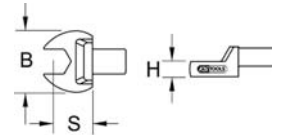
14x18 mm

1/2" 3/4"

Item	□	■	S mm	B mm	H mm	🔒
516.2712	14 x 18	1/2"	25,0	43,0	43,0	260
516.2734	14 x 18	3/4"	25,0	70,0	60,0	795

Push fit flared wrench

- With a locking pin
- Chrome plated

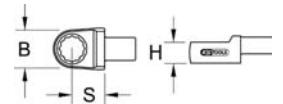


14x18 mm

Item	□	■	S mm	B mm	H mm	🔒
516.2213	14 x 18	13	25,0	30,0	7,0	120
516.2214	14 x 18	14	25,0	35,0	8,0	120
516.2215	14 x 18	15	25,0	35,0	8,0	120
516.2216	14 x 18	16	25,0	38,0	9,0	125
516.2217	14 x 18	17	25,0	38,0	9,0	130
516.2218	14 x 18	18	25,0	42,0	10,0	130
516.2219	14 x 18	19	25,0	42,0	10,0	130
516.2221	14 x 18	21	25,0	50,0	11,0	155
516.2222	14 x 18	22	25,0	50,0	11,0	160
516.2224	14 x 18	24	27,5*	53,0	12,0	170
516.2226	14 x 18	26	30,0*	60,0	13,0	180
516.2227	14 x 18	27	30,0*	60,0	13,0	185
516.2229	14 x 18	29	30,0*	66,0	14,0	210
516.2230	14 x 18	30	30,0*	66,0	14,0	220
516.2232	14 x 18	32	32,5*	66,0	14,0	239
516.2234	14 x 18	34	32,5*	66,0	14,0	246
516.2236	14 x 18	36	32,5*	74,0	15,0	265
516.2238	14 x 18	38	32,5*	74,0	15,0	275
516.2241	14 x 18	41	32,5*	82,0	15,0	307

Push fit ring spanner (box wrench)

- With a locking pin
- Chrome plated



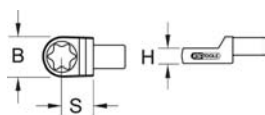
14x18 mm

Item	□	■	S mm	B mm	H mm	🔒
516.2413	14 x 18	13	25,0	21,5	11,0	120
516.2414	14 x 18	14	25,0	23,0	11,0	120
516.2415	14 x 18	15	25,0	24,2	11,0	115
516.2416	14 x 18	16	25,0	25,7	12,0	125
516.2417	14 x 18	17	25,0	27,2	12,0	125
516.2418	14 x 18	18	25,0	28,5	12,0	125
516.2419	14 x 18	19	25,0	30,5	12,0	125
516.2421	14 x 18	21	25,0	33,0	15,0	140
516.2422	14 x 18	22	25,0	34,5	15,0	140
516.2424	14 x 18	24	25,0	37,5	15,0	140
516.2427	14 x 18	27	25,0	41,5	17,0	150
516.2430	14 x 18	30	25,0	45,0	19,0	160
516.2432	14 x 18	32	25,0	47,5	19,0	165
516.2434	14 x 18	34	28,0*	50,5	19,0	195
516.2436	14 x 18	36	28,0*	53,0	19,0	195
516.2441	14 x 18	41	30,0*	59,0	20,0	225

* Please note the changed values on the torque wrench!

TX Push fit ring spanner (box wrench)

- With a locking pin
- Chrome plated

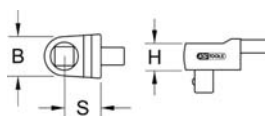


14x18 mm

Item	□	■	S mm	B mm	H mm	⚖
516.3114	14 x 18	E 14	25,0	22.5	11.0	130
516.3118	14 x 18	E 18	25,0	24.0	11.0	135
516.3120	14 x 18	E 20	25,0	29.0	13.0	150
516.3124	14 x 18	E 24	25,0	30.5	13.0	150

Push fit square mount

- With a locking pin
- Chrome plated



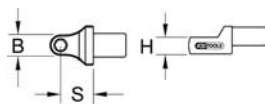
14x18 mm

1/2" 3/4"

Item	□	■	S mm	B mm	H mm	⚖
516.2912	14 x 18	1/2"	25,0	27.0	18.0	210
516.2934	14 x 18	3/4"	25,0	40.0	25.0	400

Push fit bit holder

- With a locking pin
- Chrome plated



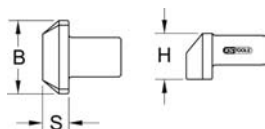
14x18 mm

5/16"

Item	□	■	S mm	B mm	H mm	⚖
516.2020	14 x 18	5/16"	25,0	16.0	12.5	115

Push fit weld on head

- With a locking pin
- Burnished



14x18 mm

Item	□	Weld dimension mm	S mm	B mm	H mm	⚖
516.2070	14 x 18	11 x 25	12,0	25.0	21.5	100

PUSH FIT TOOLKIT

Air conditioning toolkit 10-100Nm N-m

- Set contents ideal for air conditioning and refrigeration engineers
- With snap lock rectangular tool holder for 14x18 range of end tools
- Supplied in a metal carrying case with the tools clearly organised



14x18 mm 1/2"

Item	⚖
516.1225	8 pcs Air conditioning torque wrench toolkit 10-100Nm 3.40
1 x	10 - 100 N•m
6 x	17 - 22 - 24 - 26 - 27 - 29 mm
1 x	1/2"

Torque tool set with plug in tools

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



9x12 mm 3/8"

Item	⚖
516.1720	29 pcs Torque tool set with plug in tools 2.20
1 x	5 - 50 N•m
11 x	7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 mm
10 x	7 - 8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 mm
6 x	10 - 11 - 12 - 13 - 14 - 17 mm
1 x	3/8"

Torque tool set with plug in tools

- Set contents for universal applications
- With snap lock rectangular tool holder for 14x18 range of end tools
- Supplied in a metal carrying case with the tools clearly organised



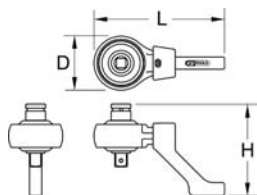
14x18 mm 1/2"

Item			kg
516.1730	31 pcs	Torque tool set with plug in tools	5.80
1 x		20 - 200 N·m	
13 x		13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 - 27 - 30 - 32 mm	
16 x		13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 - 27 - 30 - 32 - 34 - 36 41mm	
1 x		1/2"	

TORQUE CONVERTOR

Universal torque convertor

- Accuracy: $\pm 5\%$ Tolerance
- 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
- With two support devices
- Square drive adaptor to DIN 3120 - ISO 1174 with ball lock
- Supplied in a metal storage case



1/2" 3/4" 1"

Item				Nm	Nm	D mm	L mm	H mm	kg
516.3700	1/2"	1 : 5	3/4"	260	1300	110.0	395.0	127.0	4.20
516.3705	3/4"	1 : 5	1"	540	2700	110.0	395.0	127.0	4.40



ELECTRONIC TORQUE WRENCH

Electronic torque wrench with reversible ratchet head

- Display accuracy: $\pm 1\%$ 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
- For testing, measuring, checking and making adjustments
- Display mode: Track (continuous display) and Peak (peak value detection)
- Digital scale in N·m, Kg·m, lbf·in und lbf·ft divisions for precise measuring
- Large lit-up LCD display for clear reading of the values
- With automatic switch-off
- Storage memory for up to 50 settings
- An audible 3 way signal indicates that the desired torque has been achieved
- With exact gearing 36-teeth ratchet mechanism
- With ejection mechanism on the ratchet head
- 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

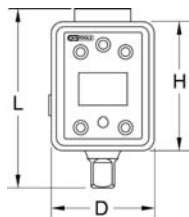


3/8" 1/2"

Item		N·m	lbf·ft	Pitch	L mm	D mm	H mm	kg
516.4732	3/8"	27 - 135	20 - 99	1 Digit	480.0	32.0	17.0	1.54
516.4742	1/2"	40 - 200	30 - 147	1 Digit	530.0	40.0	21.0	1.67
516.4772	1/2"	68 - 340	51 - 250	1 Digit	650.0	40.0	21.0	1.98

Electronic torque wrench adapter

- Display accuracy: $\pm 1\%$ 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
- For testing, measuring, checking and making adjustments
- Designed for use with a standard ratchet or breaker bar
- Display mode: Track (continuous display) and Peak (peak value detection)
- Digital scale in N·m, Kg·m, lbf·in und lbf·ft divisions for precise measuring
- Large LCD display for clear reading of the values
- With automatic switch-off
- Storage memory for up to 50 settings
- An audible 3 way signal indicates that the desired torque has been achieved
- 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"

Item	■	N·m	lbf·ft	Pitch	L mm	D mm	H mm	⚡	🔒
516.4705	1/4"	6 - 30	4 - 16	1 Digit	75.0	45.0	17.0		
516.4710	3/8"	27 - 135	20 - 99	1 Digit	75.0	45.0	21.0		
516.4715	1/2"	40 - 200	30 - 147	1 Digit	75.0	45.0	21.0		

SPECIAL TORQUE WRENCH

Insulated torque wrench with reversible ratchet head

- Insulated handle to DIN EN 60900
- For working environment of voltages AC 1,000 V and DC 1500 V
- Actuation accuracy: $\pm 3\%$ tolerance of the set scale 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
- Scale in N·m divisions for precise adjustment
- Large vision panel for precise adjustment
- An audible and palpable signal when the desired torque value is achieved
- With exact gearing 30-teeth ratchet mechanism
- Torque setting is quick and easy using the locking knob in the handle end
- 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

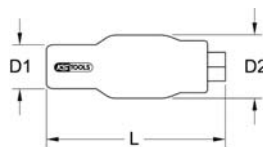


1/2"

Item	■	N·m	H mm	L mm	⚡	🔒
117.1301	1/2"	2 - 27	61.0	280.0	1000V	0.93
117.1300	1/2"	5 - 50	61.0	370.0	1000V	1.10
117.1302	1/2"	20 - 100	61.0	460.0	1000V	1.20
117.1303	1/2"	40 - 220	61.0	530.0	1000V	1.30

Insulated pre set torque limiter

- Insulated handle to DIN EN 60900
- For working environment of voltages AC 1000 V and DC 1500 V
- High accuracy
- 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
- Without scale - With a fixed adjustable value
- Can untighten without any torque restraint thanks to the anticlockwise latch
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock

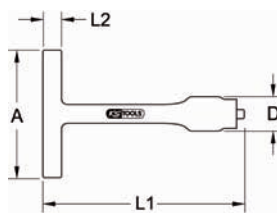


3/8"

Item	N·m	D1 mm	D2 mm	L mm	⚡	🔒
117.3802	0 - 12	23.0	27.5	92.0	1000V	310
117.3803	0 - 18	23.0	27.5	92.0	1000V	310
117.3804	0 - 25	23.0	27.5	92.0	1000V	310

Insulated pre set torque limiter with T-grip handle

- Insulated handle to DIN EN 60900
- For working environment of voltages AC 1000 V and DC 1500 V
- High accuracy
- 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
- Without scale - with a fixed adjustable value
- Can untighten without any torque restraint thanks to the anticlockwise latch
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock



3/8"

Item	□	■	N·m	A mm	D mm	L1 mm	L2 mm	⚡	🔒
117.3806	3/8"	3/8"	0 - 12	165.0	36.5	270.0	16.0	1000V	540
117.3807	3/8"	3/8"	0 - 18	165.0	36.5	270.0	16.0	1000V	540
117.3808	3/8"	3/8"	0 - 25	165.0	36.5	270.0	16.0	1000V	540



ELECTRONIC TORQUE TESTING INSTRUMENTS

Torque testing instrument 10 - 1000 N·m

For checking and adjustment of torque wrenches according to DIN EN ISO 6789:2003

- Display accuracy: ± 1 % tolerance of the measurement accuracy
- For controlled fastening in a clockwise and counter clockwise direction
- 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 switch-off
- Simple and comfortable operating
- Square drive adaptor to DIN 3120 - ISO 1174 with ball lock
- Simple tightening option
- Power cable and RS-232 cable included
- Individually marked with serial number - unique product identification



1/2" 3/4"

Item	□	mm	Measuring range N·m	L mm	B mm	H mm	kg
516.1270	1/2"		10 - 350	150.0	145.5	85.0	3.20
516.1280		27.0	100 - 1000	150.0	145.5	85.0	4.80

Torque testing instrument 3 - 800 N·m

For checking and adjustment of torque wrenches according to DIN EN ISO 6789:2003

- Display accuracy: ± 1 % tolerance of the measurement accuracy
- For controlled display in a clockwise and counter clockwise direction
- Digital scale in N·m, Kg·fm, lbf·in und lbf·ft divisions for precise measuring
- Display mode: First Peak (detection of first peak)
- Large LCD display for clear reading of the values
- With automatic switch-off
- Simple and comfortable operating
- Square drive adaptor to DIN 3120 - ISO 1174 with ball lock
- Simple tightening option
- Mains power cable included
- Tool holder female hexagon 6 point to DIN 3126 - E6,3
- Individually marked with serial number - unique product identification



1/4"

Item	Measuring range mN·m	Measuring range cN·m	Measuring range kgf·cm	Measuring range lb·in	L mm	B mm	H mm	kg
516.1290	3 - 800		0,03 - 8	0,03 - 7	230.0	123.0	65.0	1.80
516.1295		3 - 800	0,3 - 80	0,3 - 70	230.0	123.0	65.0	1.80



Confidence is good - torque control is better!



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Item	page	Item	page	Item	page	Item	page	Item	page
1		516.1645	177	516.2322	178	516.3515	168	516.4285	173
117.1300	182	516.1652	166	516.2413	179	516.3520	168	516.4290	164
117.1301	182	516.1672	166	516.2414	179	516.3525	168	516.4293	164
117.1302	182	516.1675	177	516.2415	179	516.3530	168	516.4522	167
117.1303	182	516.1682	166	516.2416	179	516.3535	168	516.4532	167
117.3802	182	516.1685	177	516.2417	179	516.3540	168	516.4542	167
117.3803	182	516.1720	180	516.2418	179	516.3545	168	516.4572	167
117.3804	182	516.1730	181	516.2419	179	516.3550	168	516.4590	167
117.3806	182	516.1810	166	516.2421	179	516.3555	168	516.4595	167
117.3807	182	516.1820	166	516.2422	179	516.3610	168	516.4622	167
117.3808	182	516.1830	166	516.2424	179	516.3615	168	516.4632	167
5		516.1840	166	516.2427	179	516.3620	168	516.4642	167
516.1195	163	516.1932	165	516.2430	179	516.3625	168	516.4672	167
516.1196	163	516.1933	166	516.2432	179	516.3630	168	516.4705	182
516.1197	163	516.1942	165	516.2434	179	516.3635	168	516.4710	182
516.1198	163	516.1943	166	516.2436	179	516.3640	168	516.4715	182
516.1225	180	516.1972	165	516.2441	179	516.3645	168	516.4732	181
516.1270	183	516.2005	179	516.2510	178	516.3650	168	516.4742	181
516.1280	183	516.2010	179	516.2511	178	516.3655	168	516.4772	181
516.1290	183	516.2020	180	516.2512	178	516.3660	168	516.4810	164
516.1295	183	516.2040	179	516.2513	178	516.3700	181	516.4820	164
516.1403	164, 166	516.2050	179	516.2514	178	516.3705	181	516.4830	164
516.1404	163, 165	516.2060	179	516.2517	178	516.3710	181	516.4840	164
516.1412	165	516.2070	180	516.2518	178	516.3715	181	516.4890	165, 167
516.1413	164, 166	516.2107	178	516.2519	178	516.3720	181	516.4895	165, 167
516.1414	163, 165	516.2108	178	516.2522	178	516.3725	181	516.4912	164
516.1415	173	516.2109	178	516.2612	178	516.3730	181	516.4915	170
516.1422	165	516.2110	178	516.2614	178	516.3735	181	516.4922	164
516.1423	164, 166	516.2111	178	516.2638	178	516.3810	163	516.4925	170
516.1424	163, 165	516.2112	178	516.2712	179	516.3815	163	516.4932	164
516.1425	173	516.2113	178	516.2734	179	516.3820	163	516.4935	171
516.1432	165	516.2114	178	516.2812	178	516.3825	163	516.4942	164
516.1435	174	516.2115	178	516.2814	178	516.3830	163	516.4945	171
516.1442	165	516.2116	178	516.2838	178	516.3835	163	516.4972	164
516.1443	164, 166	516.2117	178	516.2912	180	516.3840	163	516.4975	171
516.1444	163, 165	516.2118	178	516.2934	180	516.3845	163	516.4982	164
516.1445	174	516.2119	178	516.3006	178	516.3855	163	516.4985	171
516.1472	165	516.2213	179	516.3008	178	516.3865	163		
516.1475	174	516.2214	179	516.3010	178	516.3910	162		
516.1482	165	516.2215	179	516.3012	178	516.3915	162		
516.1485	174	516.2216	179	516.3014	178	516.3920	162		
516.1490	165	516.2217	179	516.3114	180	516.3925	162		
516.1491	164, 166	516.2218	179	516.3118	180	516.4012	163		
516.1493	165	516.2219	179	516.3120	180	516.4015	169		
516.1494	164, 166	516.2221	179	516.3124	180	516.4022	163		
516.1495	165	516.2222	179	516.3210	162	516.4025	169		
516.1496	164, 166	516.2224	179	516.3215	162	516.4032	163		
516.1501	162	516.2226	179	516.3220	162	516.4035	169		
516.1502	162	516.2227	179	516.3225	162	516.4042	163		
516.1512	166	516.2229	179	516.3235	162	516.4045	169		
516.1515	175	516.2230	179	516.3240	162	516.4072	163		
516.1522	166	516.2232	179	516.3245	162	516.4075	170		
516.1525	175	516.2234	179	516.3260	162	516.4082	163		
516.1532	166	516.2236	179	516.3265	162	516.4085	170		
516.1535	175	516.2238	179	516.3270	162	516.4090	163		
516.1542	166	516.2241	179	516.3280	162	516.4093	163		
516.1545	175	516.2307	178	516.3310	167	516.4095	163		
516.1572	166	516.2308	178	516.3315	167	516.4212	164		
516.1575	176	516.2310	178	516.3320	167	516.4215	172		
516.1582	166	516.2311	178	516.3325	167	516.4222	164		
516.1585	176	516.2312	178	516.3330	167	516.4225	172		
516.1612	166	516.2313	178	516.3335	167	516.4232	164		
516.1615	176	516.2314	178	516.3410	167	516.4235	172		
516.1622	166	516.2315	178	516.3415	167	516.4242	164		
516.1625	176	516.2316	178	516.3420	167	516.4245	172		
516.1632	166	516.2317	178	516.3425	167	516.4252	164		
516.1633	166	516.2318	178	516.3430	167	516.4272	164		
516.1635	177	516.2319	178	516.3435	167	516.4275	173		
516.1642	166	516.2321	178	516.3510	168	516.4282	164		



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