



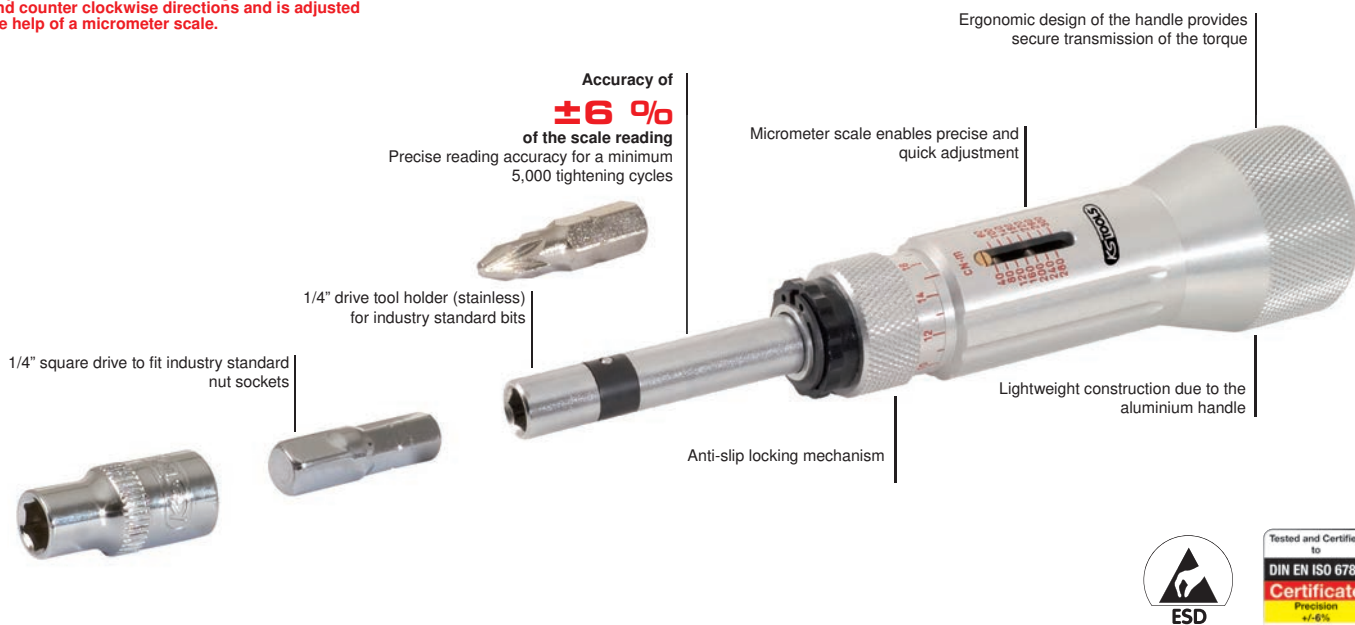
KS TOOLS

Innovation is
our mission!

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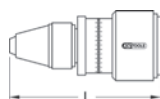
TORQUE SCREWDRIVERS

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.



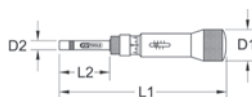
Precision torque testing instrument with dial indicator and drag indicator

- Display accuracy: $\pm 6\%$ tolerance of the set scale value
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For controlled display 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
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards



ESD Torque screwdriver with micrometer scale

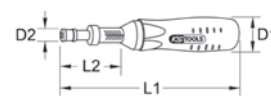
- Actuation accuracy: $\pm 6\%$ tolerance of the set scale value
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For controlled fastening in clockwise and counter clockwise directions
- With precision helical pressure spring
- Clearly noticeable torque release signal through ratchet
- It is not possible to over tighten the set value
- Including a micrometre scale in Nm divisions for precise and fine adjustment
- Ergonomic designed handle provides secure transmission of the torque
- Hexagon socket holder in accordance with DIN 3126 - E6,3
- Electro static discharge - electrostatically protect
- Lightweight construction due to the aluminium handle
- Individually marked with serial number - unique product identification
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards



	Measuring range cN·m	Division cN·m	Division Nm	L1 mm	L2 mm	D1 mm	D2 mm	U
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

Torque screwdriver with micrometer scale

- Actuation accuracy: $\pm 6\%$ 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 Nm divisions for precise and fine adjustment
- Ergonomic designed rubber handle provides secure torque transmission
- Hexagon socket holder in accordance with DIN 3126 - E6,3
- Individually marked with serial number - unique product identification
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards

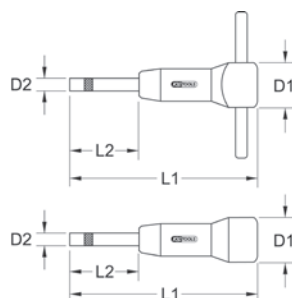


	Measuring range Nm	Division Nm	L mm	L2 mm	D1 mm	D2 mm	U
516.3250	0,1 - 1,2	0,01	180,0	28,0	30,0	11,0	230
516.3255	1 - 6	0,10	200,0	30,0	35,0	11,0	450

	Measuring range mN·m	Measuring range cN·m	Division mN·m	Division cN·m	Tightening chuck Ø mm	L mm	U
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

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 noticeable torque release signal through ratchet
- 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
- Hexagon socket holder in accordance with DIN 3126 - E6,3
- Electro static discharge - electrostatically protect
- Lightweight construction due to the aluminium handle
- Individually marked with serial number - unique product identification
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards

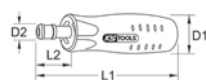


1/4" 6.3 mm

	Measuring range Nm	L1 mm	L2 mm	D1 mm	D2 mm	Colour code	
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

Pre-set torque screwdriver

- Actuation accuracy: $\pm 6\%$ 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 transmission of the torque
- Hexagon socket holder in accordance with DIN 3126 - E6,3
- Individually marked with serial number - unique product identification
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards

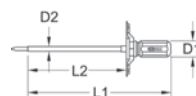


1/4" 6.3 mm

	Measuring range Nm	L mm	L2 mm	D1 mm	D2 mm	
516.3930	0,2 - 1,2	132,0	25,0	30,0	11,0	185
516.3935	1 - 1,8	132,0	25,0	30,0	11,0	185
516.3940	1 - 6	200,0	25,0	30,0	11,0	445

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 display in a clockwise and counter clockwise direction
- Torque screwdriver with a helical pressure spring
- Ergonomic designed handle provides secure transmission of the torque
- Hexagon socket holder in accordance with DIN 3126 - E6,3
- Electro static discharge - electrostatically protect
- Lightweight construction due to the aluminium handle
- Individually marked with serial number - unique product identification
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards



1/4" 6.3 mm

	Measuring range Nm	Division Nm	L1 mm	L2 mm	D1 mm	D2 mm	
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

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
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards



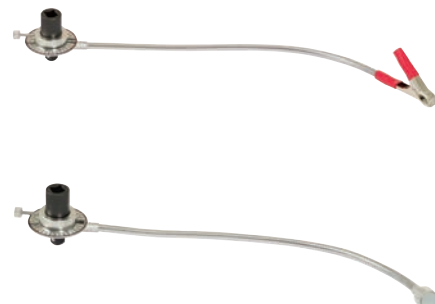
1/4"

	Measuring range Nm	Division Nm	D mm	
516.3280	1/4"	3 - 15	0,50	18,0 190

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"

	Arm	Pitch	D mm	H mm	L mm	
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°	80,0	63,0	500,0	170
516.1198	3/4" 3/4" claw	2°	80,0	87,0	698,0	60

DIGITAL ANGLE OF ROTATION & TORQUE ADAPTERS

Digital rotation protractor with magnet

- For fastening screws at an angle
- Magnetic
- digital angle display
- acoustic signal and LED display refer to reaching the set angle
- Right- and left-hand suit
- Angle precision: $\pm 2\%$
- Resolution: 0.1°
- Includes 2 AAA 1,5 V batteries
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards
- In durable plastic storage case



	Ø mm	Weight
516.1191	55,0	720

Digital torque adapter with protractor

- 1/2" square drive and output
- Right- and left-hand suit
- Clockwise torque precision: 3% and counterclockwise: $\pm 4\%$
- Digital torque and rotation angle display
- acoustic signal and LED display indicate that the set angle of rotation or torque has been reached
- 5 selectable units (Nm, ft-lb, in-lb, kg-cm, degrees)
- Includes 2 AAA 1,5 V batteries
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards
- In durable plastic storage case



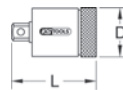
	1/2"	1/2"	Ø mm	Measuring range Nm	Weight
516.1192	1/2"	1/2"	85,0	6,8-135	242
516.1193	1/2"	1/2"	85,0	10-200	242
516.1194	1/2"	1/2"	85,0	17-340	242



TORQUE LIMITERS

Torque limiter for spark plugs

- High accuracy
- For controlled fastening in a clockwise direction
- Clearly noticeable torque release signal through ratchet
- 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"	3/8"	N·m	D mm	L mm	Weight
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 limiter with ball lock

- 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
- Hexagon socket holder in accordance with DIN 3126 - E6,3
- Square drive in accordance with DIN 3120 - ISO 1174



	3/8"	1/4"	Measuring range Nm	D1 mm	D2 mm	L mm	Weight
516.1503	3/8"	1/4"	0,5-5	22,0	11,0	75,0	90
516.1504	3/8"	1/4"	5-10	22,0	11,0	75,0	90

Pre-set torque limiter with ball lock

- 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 adaptor to DIN 3120 / ISO 1174 with ball lock



3/8"

	3/8"	3/8"	Measuring range Nm	D1 mm	D2 mm	L mm	Weight
516.1507	3/8"	3/8"	0,5-5	22,0	10,0	75,0	95
516.1508	3/8"	3/8"	5-10	22,0	10,0	75,0	95



TORQUE WRENCH



1/4" - 1/2"

1/4" - 1"

9x12 mm

14x18 mm

RATCHET HEADS

PUSH BUTTON RELEASE

Quick-Lock mechanism on the ratchet head



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.



ROBUST LATCH HEAD

Robust ratchet mechanism for left and right tightening



ERGOTORQUE® 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

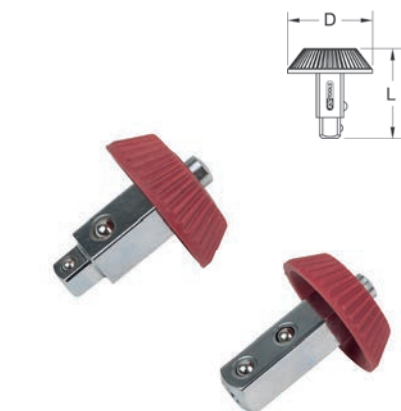


1/4" 3/8" 1/2"

			B mm	L mm	Wt g
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
- With ejection mechanism on the ratchet head

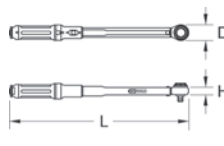


1/4" 3/8" 1/2" 3/4" 1"

			D mm	L mm	Wt g
516.1408	3/8"	1/4"	31,0	33,0	21
516.1418	3/8"	3/8"	31,0	33,0	21
516.1428	1/2"	3/8"	39,0	52,0	65
516.1448	1/2"	1/2"	39,0	52,0	65
516.1499	3/4"	3/4"	63,0	73,0	180
516.1492	1"	3/4"	83,0	78,0	380
516.1498	1"	1"	83,0	78,0	380

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 Nm and lbf·ft divisions for precise adjustment
- Includes micrometer scale in Nm 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 30 teeth ratchet mechanism
- Torque setting is quick and easy using the locking knob in the handle end
- Secure locking function within the handle
- 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
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards



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

		N·m	Division Nm	lbf·ft	L mm	D mm	H mm	Wt g
516.1402	1/4"	1-5	0,10	0,8 - 3,6	289,0	35,0	18,0	0,46
516.1412	1/4"	5-25	0,10	0,8 - 18	289,0	35,0	18,0	0,46
516.1422	3/8"	10-50	0,25	4 - 37	350,0	45,0	23,0	0,61
516.1432	1/2"	20-100	0,50	8 - 75	412,0	45,0	23,0	0,91
516.1442	1/2"	40-200	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"	110-550	1,00	75 - 405	960,0	69,0	33,0	3,80
516.1493	3/4"	150-750	10,00	150 - 550	1250,0	69,0	33,0	7,30
516.1495	1"	200-1000	20,00	220 - 730	1500,0	90,0	36,0	5,80

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 Nm and lbf·ft divisions for precise adjustment
- Includes micrometer scale in Nm 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
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards



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

		N·m	lbf·ft	Division Nm	L mm	D mm	H mm	Wt g
516.1512	1/4"	5-25	0,8 - 18	0,10	289,0	35,0	18,0	0,46
516.1522	3/8"	10-50	4 - 37	0,25	350,0	45,0	23,0	0,61
516.1532	1/2"	20-100	8 - 75	0,50	412,0	45,0	23,0	0,91
516.1542	1/2"	40-200	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 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
- Double scale in Nm and lbf·ft divisions for precise adjustment
- Includes micrometer scale in Nm 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
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards



9x12 mm 14x18 mm

		N·m	lbf·ft	Division N·m	L mm	L mm	S mm	
516.1612	9x12	5-25	0,8 - 18	0,10	280,0	245,0	17,5	0,30
516.1622	9x12	10-50	4 - 37	0,25	335,0	295,0	17,5	0,45
516.1632	9x12	20-100	8 - 75	0,50	375,0	335,0	17,5	0,60
516.1633	14x18	20-100	8 - 75	0,50	375,0	335,0	17,5	1,02
516.1642	9x12	40-200	15 - 150	1,00	465,0	425,0	17,5	0,85
516.1652	14x18	40-200	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
516.1690	14x18	110-550	74,0 - 405	1,00	920,0	875,0	25,0	3,75
516.1693	14x18	150-750	148 - 553	1,00	1120,0	1155,0	25,0	5,27

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
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards



9x12 mm 14x18 mm

		N·m	lbf·ft	L mm	L mm	S mm	
516.1810	9x12	5-25	0,8 - 18	190,0	155,0	17,5	230
516.1820	9x12	10-50	4 - 37	250,0	210,0	17,5	300
516.1830	9x12	20-85	12 - 64	330,0	280,0	17,5	370
516.1840	14x18	40-200	15 - 150	410,0	370,0	25,0	780

ERGOTORQUE® precision TORQUE WRENCH TOOLKIT

ERGOTORQUE® precision torque wrench with bag

- 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 Nm and lbf·ft divisions for precise adjustment
- Large vision panel, precise adjustment using a magnifying glass
- With ejection mechanism on the ratchet head
- An audible and palpable signal when the desired torque value is achieved
- 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
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards



1/2"

516.1905	5 pcs	ERGOTORQUE® precision torque wrench with bag	2,50	
1 x		40 - 200 N·m		
1 x		125 mm		
3 x		17 - 19 - 21 mm		

ERGOTORQUE® precision torque wrench toolkit 5 - 25 Nm

- 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"

516.1415	32 pcs	ERGOTORQUE® precision torque wrench toolkit 5 - 25 Nm	4,73	
1 x		5 - 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 x		3/8" x 1/4"		

ERGOTORQUE® precision torque wrench toolkit 5-25 Nm

- 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"

516.1515	31 pcs	ERGOTORQUE® precision torque wrench toolkit 5-25 Nm	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		

ERGOTORQUE® precision torque wrench toolkit 10 - 50 Nm

- 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"

		kg	
516.1425	41 pcs	ERGOTORQUE® precision torque wrench toolkit 10 - 50 Nm	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	
1 x		3/8"	

ERGOTORQUE® precision torque wrench toolkit 20 - 100 Nm

- 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"

		kg	
516.1435	49 pcs	ERGOTORQUE® precision torque wrench toolkit 20 - 100 Nm	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	
1 x		1/2"	

ERGOTORQUE® precision torque wrench toolkit 40 - 200 Nm

- 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"

		kg	
516.1445	49 pcs	ERGOTORQUE® precision torque wrench toolkit 40 - 200 Nm	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	
1 x		1/2"	

ERGOTORQUE® precision torque wrench toolkit 10 - 50 Nm

- 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"

		kg	
516.1525	40 pcs	ERGOTORQUE® precision torque wrench toolkit 10 - 50 Nm	6,62
1 x		10 - 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	


ERGOTORQUE® precision torque wrench toolkit 60-320 Nm

- 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"

		kg	
516.1475	49 pcs	ERGOTORQUE® precision torque wrench toolkit 60-320 Nm	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	
1 x		1/2"	

ERGOTORQUE® precision torque wrench toolkit 20 - 100 Nm

- 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"

kg			
516.1535	48 pcs	ERGOTORQUE® precision torque wrench toolkit 20 - 100 Nm	13,61
1 x		20 - 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 60-320 Nm

- 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"

kg			
516.1575	48 pcs	ERGOTORQUE® precision torque wrench toolkit 60-320 Nm	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 40 - 200 Nm

- 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"

kg			
516.1545	48 pcs	ERGOTORQUE® precision torque wrench toolkit 40 - 200 Nm	13,81
1 x		40 - 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 80-420 Nm

- 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"

kg			
516.1585	48 pcs	ERGOTORQUE® precision torque wrench toolkit 80-420 Nm	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 - 25 Nm

- 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

kg			
516.1615	33 pcs	ERGOTORQUE® precision torque wrench toolkit 5 - 25 Nm	8,47
1 x		5 - 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 10 - 50 Nm

- 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	
		kg	
516.1625	33 pcs	ERGOTORQUE® precision torque wrench toolkit 10 - 50 Nm	8,56
1 x		10 - 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 40 - 200 Nm

- 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	
		kg	
516.1645	33 pcs	ERGOTORQUE® precision torque wrench toolkit 40 - 200 Nm	9,12
1 x		40 - 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	
2 x		1/4" - 3/8"	

ERGOTORQUE® precision torque wrench toolkit 80-420 Nm

- 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	
		kg	
516.1685	39 pcs	ERGOTORQUE® precision torque wrench toolkit 80-420 Nm	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"	

ERGOTORQUE® precision torque wrench toolkit 20 - 100 Nm

- 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	
		kg	
516.1635	33 pcs	ERGOTORQUE® precision torque wrench toolkit 20 - 100 Nm	8,92
1 x		20 - 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 60-320 Nm

- 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	
		kg	
516.1675	39 pcs	ERGOTORQUE® precision torque wrench toolkit 60-320 Nm	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"	



ALUTORQUEprecision

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 ALUTORQUEprecision 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.

The robust and durable body is ideal for use in harsh environments in industry.

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

Scale:
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 torque value.

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.

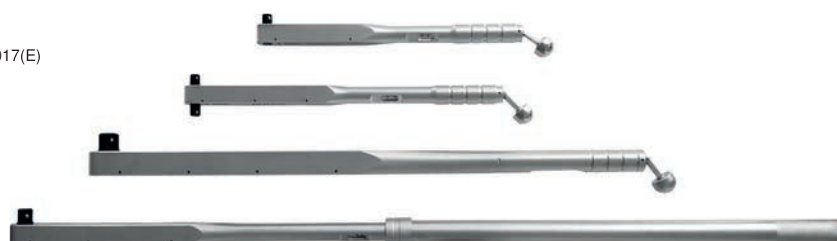
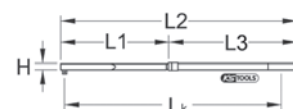
Serial number:
A permanent and unique serial number is applied on all torque wrenches, which provides unique product identification.

Accuracy of **±3 %** of the scale reading
Precise reading accuracy for a minimum 5,000 tightening cycles

Tested and Certified to **DIN EN ISO 6789**
Certificate Precision **±3%**

ALUTORQUEprecision torque wrench

- Release accuracy: $\pm 3\%$ tolerance from the set scale value and better
- Use is almost all industrial production areas
- Depending on option with fast release function button
- Depending on option with robust ratchet mechanism
- Simple operation - fast and secure torque tightening
- Simple and/or double square for controlled fastening in clockwise and counter clockwise directions
- Double-scale Nm and lbf-ft and/or lbf-in division for precise adjustment
- An audible and palpable signal when the desired torque value is achieved
- 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
- Setting the torque by using the captive crank lever mechanism in the handle
- Comfortable setting through shapely, captive adjustment knob on the end of the handle
- Extendible to reduces the workload of the user
- Extremely low wear through force reductions through lever mechanism
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Individually marked with serial number - unique product identification
- Including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards



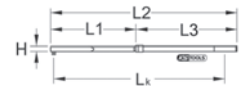
1/2" 3/4" 1"

			N·m	Division N·m	lbf·ft	Division lbf·ft	L mm	H mm	L1 mm	L2 mm	L3 mm		
516.5034	☐	1/2"	25-120	5,00	18-90	5,0	374	30,0	462,0	475,0			1,50
516.5035	☐	1/2"	25-120	5,00	18-90	5,0	374	30,0	462,0	475,0			1,50
516.5036	☐	1/2"	40-200	5,00	30-150	5,0	463	30,0	551,0	563,0			1,40
516.5037	☐	1/2"	40-200	5,00	30-150	5,0	463	30,0	551,0	563,0			1,30
516.5039	☐	1/2"	60-300	5,00	45-220	5,0	529	30,0	617,0	625,0			2,00
516.5040	☐	1/2"	60-300	5,00	45-220	5,0	529	30,0	617,0	625,0			2,00
516.5043	☐	3/4"	110-550	10,00	80-400	10,0	719	35,0	812,0	827,0			2,90
516.5044	☐	3/4"	110-550	10,00	80-400	10,0	719	35,0	812,0	827,0			2,90
516.5045	☐	3/4"	140-760	10,00	115-560	10,0	719	35,0	812,0	827,0			3,20
516.5046	☐	3/4"	155-760	10,00	115-560	10,0	719	35,0	812,0	827,0			3,20
516.5049	☐	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	☐	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	☐	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

ALUTORQUEprecision TORQUE WRENCH

ALUTORQUEprecision Pre-set torque wrench

- Release accuracy: $\pm 3\%$ tolerance from the set scale value and better
- Use is almost all industrial production areas
- Depending on option with fast release function button
- Simple operation - fast and secure torque tightening
- Simple and/or double square for controlled fastening in clockwise and counter clockwise directions
- Double-scale Nm and lbf-ft and/or lbf-in in division for precise adjustment
- An audible and palpable signal when the desired torque value is achieved
- 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
- Setting the torque by using the captive crank lever mechanism in the handle
- Comfortable setting through shapely, captive adjustment knob on the end of the handle
- Extendible to reduces the workload of the user
- Extremely low wear through force reductions through lever mechanism
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Individually marked with serial number - unique product identification
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards

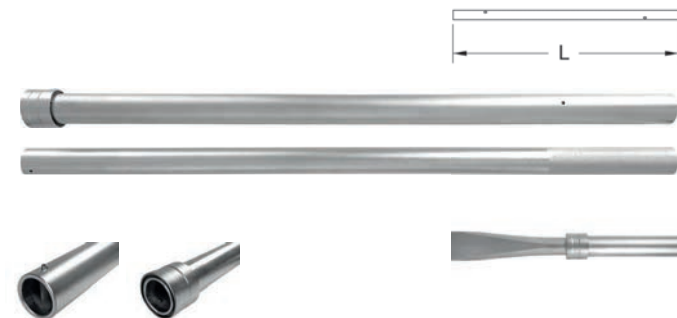


1/2" 3/4" 1"

			N·m	Division N·m	lbf·ft	Division lbf·ft	L mm	H mm	L1 mm	L2 mm	L3 mm	kg
516.5104		1/2"	25-120	5,00	18-90	5,0	374	30,0	462,0			1,50
516.5105		1/2"	25-120	5,00	18-90	5,0	374	30,0	462,0			1,50
516.5106		1/2"	40-200	5,00	30-150	5,0	463	30,0	551,0			1,40
516.5107		1/2"	40-200	5,00	30-150	5,0	463	30,0	551,0			1,30
516.5108		1/2"	60-300	5,00	45-220	5,0	529	30,0	617,0			2,00
516.5109		1/2"	60-300	5,00	45-220	5,0	529	30,0	617,0			2,00
516.5112		3/4"	110-550	10,00	80-400	10,0	719	35,0	812,0			2,90
516.5113		3/4"	110-550	10,00	80-400	10,0	719	35,0	812,0			2,90
516.5114		3/4"	155-760	10,00	115-560	10,0	719	35,0	812,0			3,20
516.5115		3/4"	155-760	10,00	115-560	10,0	719	35,0	812,0			3,20
516.5118		3/4"	520-1000	10,00	380-730	10,0	1297	35,0	812,0	1413,0	762,0	5,60
516.5119		3/4"	520-1000	10,00	380-730	10,0	1297	35,0	812,0	1413,0	762,0	5,60
516.5121		1"	600-1500	25,00			1473	40,0	932,0	1608,0	925,0	10,80
516.5120		1"	600-1500	25,00			1473	40,0	932,0	1608,0	925,0	10,80
516.5122		1"	750-2000	50,00			2218	40,0	932,0	2353,0	925,0	11,60
516.5123		1"	750-2000	50,00			2218	40,0	932,0	2353,0	925,0	11,60

ALUTORQUEprecision Socket pipe for torque wrench

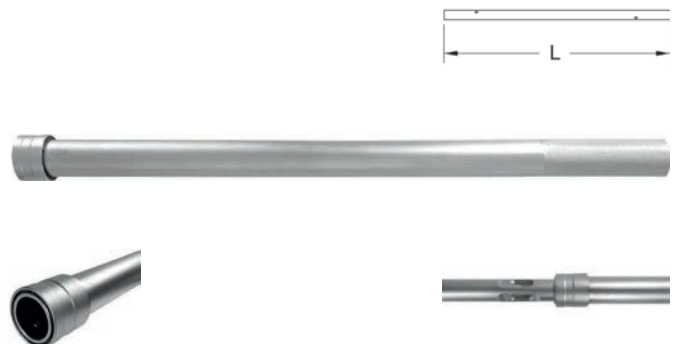
- To reach the high torque values easier with the lever arm extension
- Option and secure connection to the aluminium torque wrench
- To extend the lever arm
- Made of zinc coated steel



	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	762,0	516.5047, 516.5049	0,80

ALUTORQUEprecision aluminium extension pipe for torque wrench

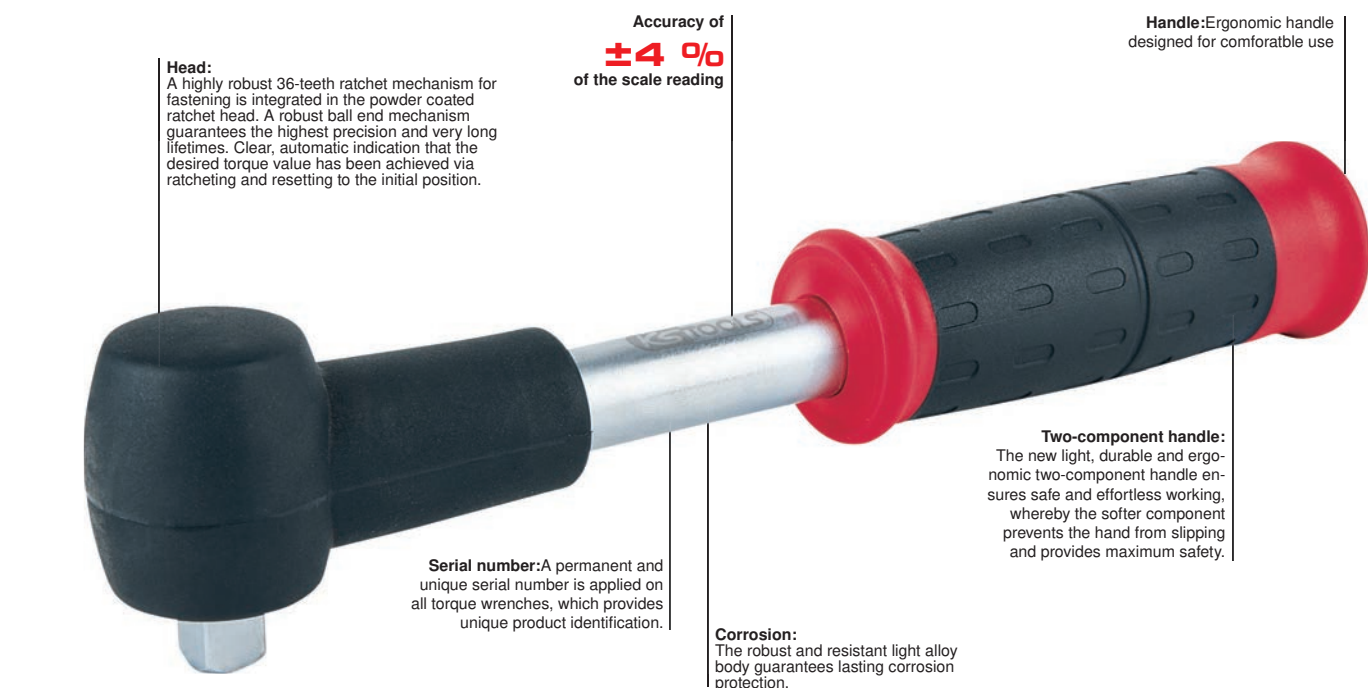
- To reach the high torque values easier with the lever arm extension
- Option and secure connection to the aluminium torque wrench
- To extend the lever arm
- With slightly anodised clamping nut
- Made of aluminium



	L mm	Suitable for	kg
516.5059	925,0	516.5051, 516.5053, 516.5055	3,40

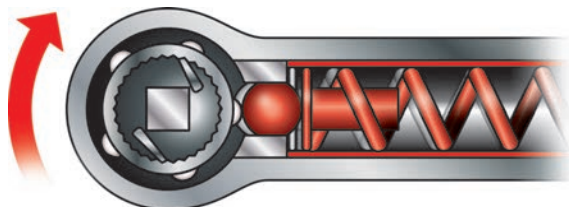
SLIPPER TORQUE WRENCH

Fixed preset ratchet torque wrench without scale with automatic trigger via slipping function – no overtightening possible.



Ratcheting operating principle

When a preset value is achieved the mechanism slips over the ball end (without the possibility of overtightening). The ratcheting torque wrench can then be used immediately again.



TECHNOLOGY



Pre-set Slipper torque wrench

- Release accuracy $\pm 4\%$ Tolerance from the set scale value and better
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For serial and/or conveyor assembly lines
- For controlled fastening in a clockwise direction
- 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
- Long service-life and high holding times
- Highest precision and reliability even under tough long-term use
- Ergonomic and hand-friendly rubber handle
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Individually marked with serial number - unique product identification
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards
- Delivery includes crank adjusting key

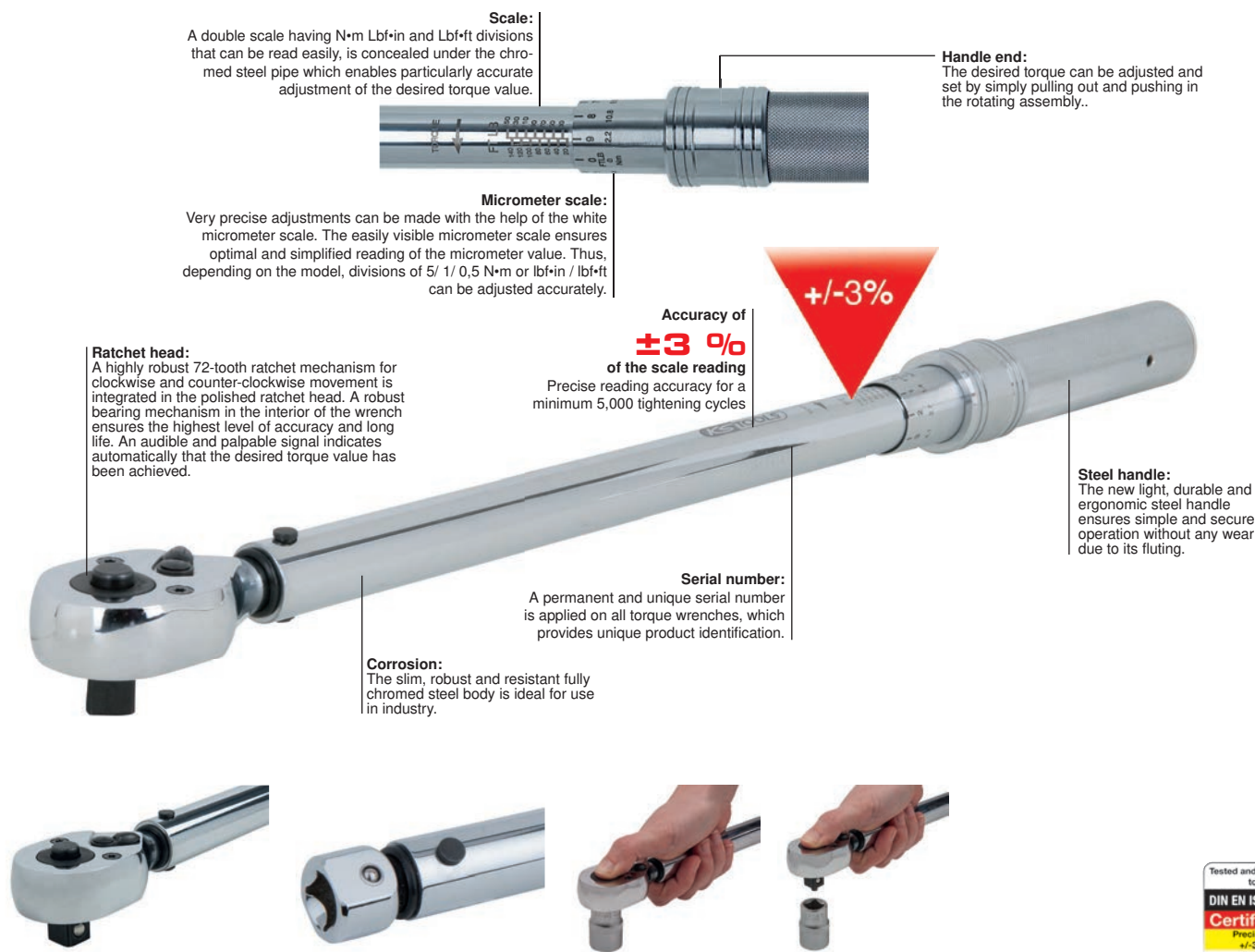


1/4" 3/8" 1/2"

		Measuring range Nm	lbf-ft	L mm	D mm	H mm		
516.5000	1/4"	1-5	0,8-4	182,5	15,5	34,3	0,22	
516.5001	1/4"	4-10	3-8	182,5	15,5	34,3	0,23	
516.5002	3/8"	5-20	4-19	214,0	35,0	49,5	0,48	
516.5003	3/8"	15-55	11-40	323,0	39,0	58,5	1,00	
516.5004	1/2"	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



Industrial torque wrench with reversible ratchet head

- Release accuracy: $\pm 3\%$ 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 micrometer scale in Nm divisions and lbf-ft and/or lbf-in for precise and fine adjustment
- Clearly audible and noticeable torque release sign
- Exact gearing 72 teeth ratchet mechanism
- With ejection mechanism on the ratchet head
- 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 to DIN 3120 / ISO 1174 with ball lock
- Individually marked with serial number - unique product identification
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards



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

Industrial torque wrench with plug-in tool holder

- Release accuracy: $\pm 3\%$ 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 micrometer scale in Nm divisions and lbf-ft and/or lbf-in for precise and fine adjustment
- 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
- Individually marked with serial number - unique product identification
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards



9x12 mm 14x18 mm

	Measuring range Nm	Tooth	Division Nm	lbf-in	lbf-ft	Division lbf-in	Division lbf-ft	D mm	L mm	S mm
516.5150	1/4"	1-6	64	0,05	11.1-50.9		0,4	26,0	210,0	0,51
516.5151	1/4"	3-15	64	0,10	31-128		0,9	26,0	210,0	0,51
516.5152	1/4"	5-25	64	0,20	53-212		1,8	26,0	248,0	0,33
516.5153	3/8"	10-60	32	0,50	9.2-42.4		0,4	36,5	370,0	1,26
516.5154	3/8"	20-100	32	0,50	16.6-71.9		0,4	36,5	433,0	1,02
516.5155	1/2"	40-200	32	1,00	33-144		0,7	43,5	530,0	1,65
516.5156	1/2"	60-340	32	2,00	52-243		1,5	43,5	610,0	1,80
516.5157	3/4"	100-600	24	5,00	92-424		7,4	63,5	1050,0	4,97
516.5158	3/4"	150-800	24	5,00	129-572		7,4	63,5	1240,0	6,05
516.5159	3/4"	200-1000	24	5,00	166-719		7,4	63,5	1240,0	6,05
516.5160	1"	300-1500	24	10,00	258-1070		14,7	70,0	1850,0	10,51

	Measuring range Nm	Division Nm	lbf-in	lbf-ft	Division lbf-in	Division lbf-ft	L mm	L mm	S mm	S mm
516.5063	9x12	1-6	0,05	11.1-50.9		0,4	197,0	183	17,5	0,46
516.5061	9x12	3-15	0,10	31-128		0,4	197,0	183	17,5	0,26
516.5062	9x12	5-25	0,20	53-212		0,4	227,0	213	17,5	0,30
516.5064	9x12	10-60	0,50	9.2-42.4		0,4	340,0	373	17,5	1,30
516.5065	9x12	20-100	0,50	16.6-71.9		0,4	403,0	373	17,5	1,30
516.5066	14x18	10-60	0,50	9.2-42.4		0,4	362,0	402,5	25,0	1,30
516.5067	14x18	20-100	0,50	16.6-71.9		0,4	425,0	402,5	25,0	1,30
516.5068	14x18	40-200	1,00	33-144		0,7	503,0	474	25,0	1,45
516.5069	14x18	60-340	2,00	52-243		1,5	583,0	554	25,0	1,60

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.



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 Nm, 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
- Secure locking possibility
- 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
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards



		N·m	lbf·ft	Division Nm	Division lbf·ft	L mm	Weight 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

PRECISION TORQUE TESTING INSTRUMENT WITH DIAL INDICATOR

Accuracy of
±4 %
of the scale reading

Signal:
The wrenches 516.3655 and 516.3660 have optical and acoustic signals when the desired torque is reached, which enable the use of the wrench even in loud and dark places having poor visibility

Adjustment:
Fast adjustment is possible using the integrated opening without dismounting the wrench

Handle:
Ergonomic handle designed for comfortable use

Corrosion:
Durable protection against corrosion using robust steel with a chrome-plated surface

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

Ratchet head:
Fixed box wrench for controlled fastening in clockwise and counter clockwise directions.

Dual scale with magnifying glass:
Dual scale with magnifying glass in Nm and lbf-ft divisions for precise adjustment and clear selection. The dial gauge has one drag indicator and one main pointer. It is easy to read off the scale due to the clear design.

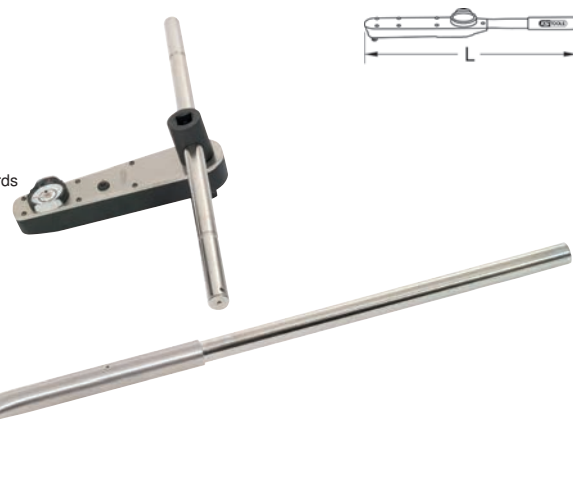
ERROR-FREE OPERATION:

Using the torsion bar principle, and 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. Any shift in the value is ruled out thanks to the direct measurement at the wrench head.

Tested and Certified to
DIN EN ISO 6789
Certificate
Precision
±4%

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 display in a clockwise and counter clockwise direction
- Display type torque wrench with dial indicator and drag indicator
- Double scale in Nm 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
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards



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

		N-m	lbf-ft	lbf-ft	Division Nm	Division lbf-ft	Division lbf-ft	L mm	Signal	
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

PUSH-FIT TOOLS - ACCESSORIES

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.



INFO:

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



CAUTION:

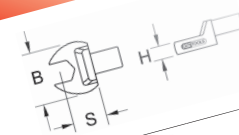
The maximum torque loads of the push-fit tools are in line with DIN 899 and can be less than the maximum torque of the tool used.

CALCULATION OF CORRECTED DISPLAY AND SET VALUES



Push-fit jaw wrench

- With a locking pin
- Chrome-plated



		9x12 mm		14x18 mm					
		N·m	lbf·ft	Division N·m	L mm	L mm	S mm		
516.1633	14 x 18	20 - 100	8 - 75	0.5	375.0	335.0	17.5	1020	
516.1642	9 x 12	40 - 200	15 - 150	1.0	465.0	425.0	17.5	850	
516.1652	14 x 18	40 - 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	

		S mm	B mm	H mm	
516.2213	14 x 18	13	25.0	30.0	7.0
516.2214	14 x 18	14	25.0	35.0	8.0
516.2215	14 x 18	15	25.0	38.0	9.0
516.2216	14 x 18	16	25.0	42.0	10.0
516.2217	14 x 18	17	25.0	42.0	10.0
516.2218	14 x 18	18	25.0	50.0	11.0
516.2219	14 x 18	19	25.0	50.0	11.0
516.2220	14 x 18	20	25.0	53.0	12.0
516.2221	14 x 18	21	25.0	53.0	12.0
516.2222	14 x 18	22	27.5	60.0	13.0
516.2223	14 x 18	23	30.0	60.0	13.0
516.2224	14 x 18	24	30.0	66.0	14.0
516.2225	14 x 18	25	30.0	66.0	14.0
516.2226	14 x 18	26	30.0	66.0	14.0
516.2227	14 x 18	27	30.0	66.0	14.0
516.2228	14 x 18	28	30.0	66.0	14.0
516.2229	14 x 18	29	30.0	66.0	14.0
516.2230	14 x 18	30	32.5	66.0	14.0
516.2231	14 x 18	31	32.5	66.0	14.0
516.2232	14 x 18	32	32.5	74.0	15.0
516.2233	14 x 18	33	32.5	74.0	15.0
516.2234	14 x 18	34	32.5	74.0	15.0
516.2235	14 x 18	35	32.5	74.0	15.0
516.2236	14 x 18	36	32.5	82.0	15.0
516.2237	14 x 18	37	32.5	82.0	15.0
516.2238	14 x 18	38	32.5	82.0	15.0
516.2239	14 x 18	39	32.5	82.0	15.0
516.2240	14 x 18	40	32.5	82.0	15.0
516.2241	14 x 18	41	32.5	82.0	15.0

Example: 516.2232 + 516.1672

Desired torque = 230 N·m

$$X_w = \frac{P_d \cdot L_k}{L_k - S_k + S} = \frac{230 \text{ N·m} \cdot 530 \text{ mm}}{530 \text{ mm} - 25 \text{ mm} + 32,5 \text{ mm}} = \frac{121900}{537,5} = 226,8 \text{ N·m}$$

Corrected set value: **226,8 N·m**

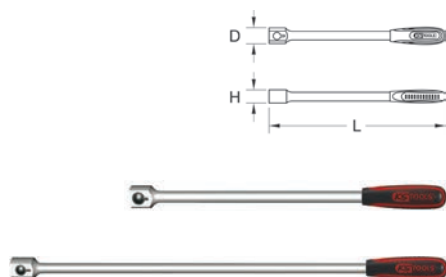
PUSH FIT TOOLS

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 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

		L mm	D mm	H mm	g
516.4890	9x12	405,0	26,0	20,0	872
516.4895	14x18	635,0	28,0	26,0	1350

Push fit flared wrench

- With a locking pin
- Chrome plated



9x12 mm

		mm	S mm	B mm	H mm	g
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

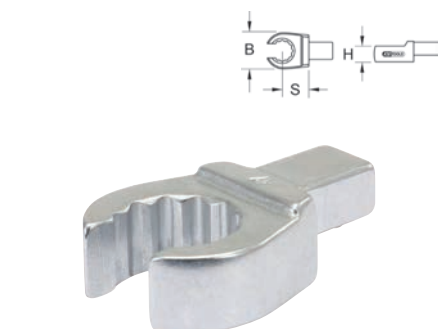


9x12 mm

		mm	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

Open push fit ring spanner (box wrench)

- With a locking pin
- Chrome plated



9x12 mm

		mm	S mm	B mm	g
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

Torx-E push fit ring spanner (box wrench)

- With a locking pin
- Chrome plated



9x12 mm

			S mm	B mm	H mm	g
516.3006	9x12	E 6	17,5	13,0	8,0	40
516.3008	9x12	E 8	17,5	14,2	8,0	45
516.3010	9x12	E 10	17,5	17,2	9,0	50
516.3012	9x12	E 12	17,5	18,5	9,0	50
516.3014	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



9x12 mm

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

			S mm	B mm	H mm	g
516.2614	9x12	1/4"	17,5	27,0	25,0	75
516.2638	9x12	3/8"	17,5	35,0	35,0	152
516.2612	9x12	1/2"	17,5	43,0	40,0	228

Push fit square mount

- With a locking pin
- Chrome plated



9x12 mm

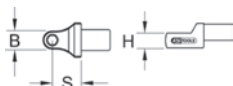
1/4" 3/8" 1/2"

			S mm	B mm	H mm	g
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

* Please note the changed values on the torque wrench!

Push fit bit holder

- With a locking pin
- Chrome plated

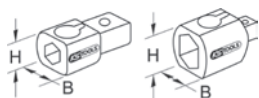

9x12
mm

5/16" 1/4"

			S mm	B mm	H mm	g
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

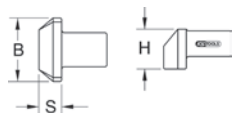
- Snap lock tool holder available for replaceable 9x12 or 14x18 end tools
- With a locking pin
- Chrome plated


9x12 14x18
mm mm

			S mm	B mm	H mm	g
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

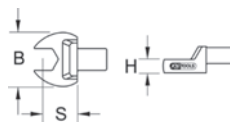
- With a locking pin
- Burnished


9x12 14x18
mm mm

		Weld dimension mm	S mm	B mm	H mm	g
516.2060	9x12	8 x 14	14,5"	14,0	14,5	47
516.2070	14x18	11 x 25	12,0"	25,0	21,5	100

Push fit flared wrench

- With a locking pin
- Chrome plated

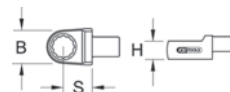

14x18
mm

			S mm	B mm	H mm	g
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)

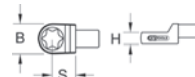
- With a locking pin
- Chrome plated


14x18
mm

			S mm	B mm	H mm	g
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

Torx-E Push fit ring spanner (box wrench)

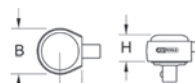
- With a locking pin
- Chrome plated


14x18
mm

			S mm	B mm	H mm	g
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
- With release feature
- Chrome plated


14x18 1/2" 3/4"
mm

			S mm	B mm	H mm	g
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

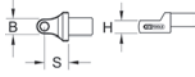
- With a locking pin
- Chrome plated


14x18 1/2" 3/4"
mm

			S mm	B mm	H mm	g
516.2912	14x18	1/2"	25,0	27,0	18,0	210
516.2934	14x18	3/4"	25,0	40,0	25,0	400

Push fit bit holder

- With a locking pin
- Chrome plated


14x18
mm

			S mm	B mm	H mm	g
516.2020	14x18	5/16"	25,0	16,0	12,5	115

* Please note the changed values on the torque wrench!

PUSH FIT TOOLKIT

ERGOTORQUE® precision Refrigeration/air conditioning torque wrench tool set 20 - 100 Nm

- Set contents ideal for air conditioning and refrigeration engineers
- 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
- Changing the operating direction takes place by turning the torque wrench
- Double scale in Nm and lbf-ft divisions for precise adjustment
- Includes micrometer scale in Nm 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
- With snap lock rectangular tool holder for 14x18 range of end tools
- Individually marked with serial number - unique product identification
- including certificate according to DIN EN ISO 6789:2017(E) - traceable to national standards



14x18 mm 1/2"

				kg	
516.1225	8 pcs	ERGOTORQUE® precision Refrigeration/air conditioning torque wrench tool set 20 - 100 Nm		3,40	
1 x		20 - 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"

				kg	
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"

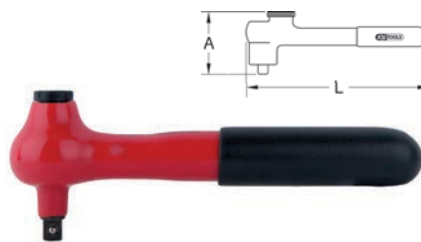
				kg	
516.1730	31 pcs	Torque tool set with plug in tools		5,80	
1 x		20 - 200 N·m			
13 x		13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 - 27 - 30 - 32 mm			
16 x		13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 - 27 - 30 - 32 - 34 - 36 - 41 mm			
1 x		1/2"			



VDE TORQUE WRENCH

Fixed torque wrench with protective insulation

- Actuation 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 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
- Hexagon socket holder in accordance with DIN 3126 - E6,3
- Individually marked with serial number - unique product identification
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards

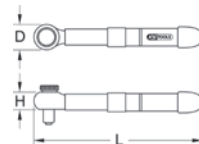


3/8" 1/2"

				kg	
117.3922	3/8"	5-35	78,0	210,0	420
117.1001	1/2"	5-35	78,0	250,0	420

Mini torque wrench with protective insulation and reversible ratchet head

- Insulated handle to IEC 60900
- For working environment of voltages AC 1000 V and DC 1500 V
- Release accuracy: $\pm 4\%$ tolerance from the set scale value and better
- 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
- Exact gearing 30 teeth ratchet mechanism
- 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
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards

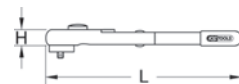


1/4" 3/8" 1/2"

				kg	
117.1400	1/4"	2-12	40,0	41,0	200,0
117.1402	1/4"	5-25	40,0	41,0	200,0
117.1184	3/8"	5-25	40,0	42,0	200,0
117.1185	1/2"	5-25	40,0	42,0	200,0

Torque wrench with protective insulation and reversible ratchet head

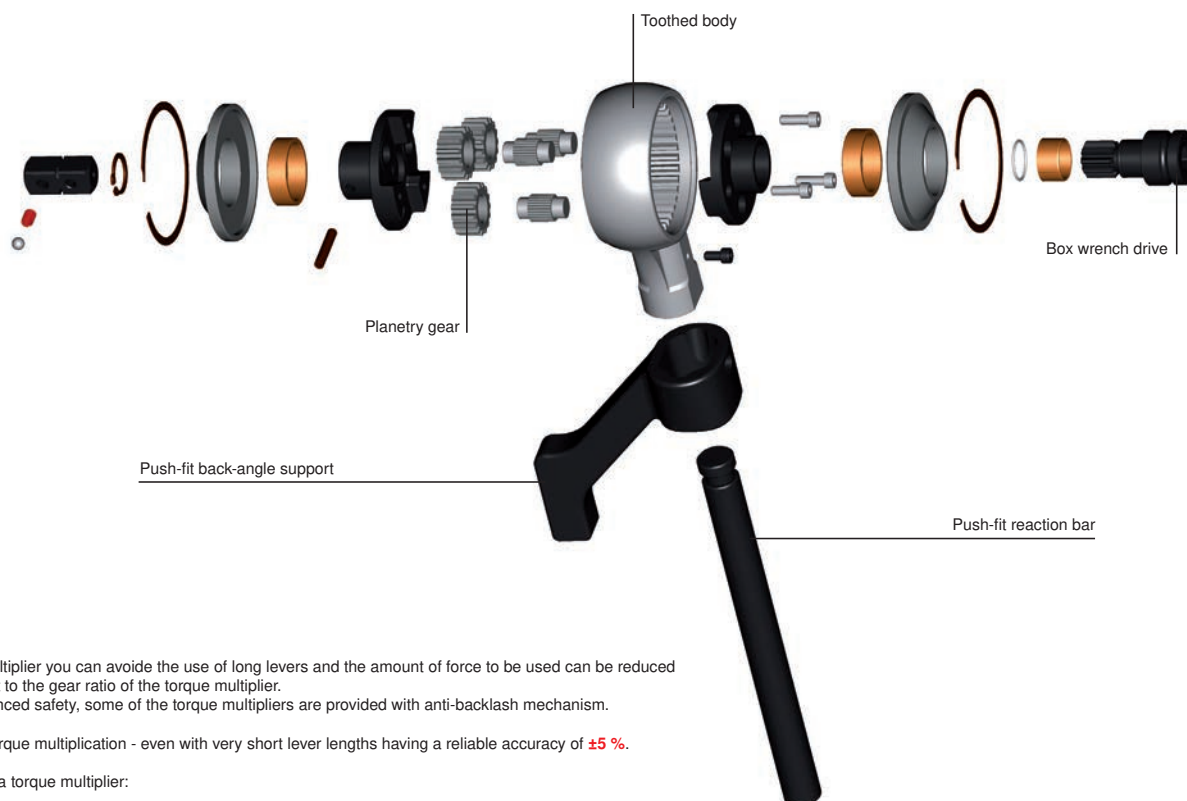
- Insulated handle to IEC 60900
- For working environment of voltages AC 1000 V and DC 1500 V
- Release accuracy: $\pm 4\%$ tolerance from the set scale value and better
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For controlled fastening in a clockwise direction
- Can untighten without any torque restraint thanks to the anticlockwise latch
- Scale in Nm divisions for precise adjustment
- Large vision panel for precise adjustment
- An audible and palpable signal when the desired torque value is achieved
- 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
- including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards



3/8" 1/2"

				kg	
117.3805	3/8"	2-27	51,0	280,0	0,92
117.3810	3/8"	5-50	51,0	370,0	1,07
117.1301	1/2"	2-27	61,0	280,0	0,93
117.1300	1/2"	5-50	61,0	370,0	1,10
117.1302	1/2"	20-100	61,0	460,0	1,20
117.1303	1/2"	40-220	61,0	530,0	1,30

TORQUE CONVERTOR



By using a torque multiplier you can avoid the use of long levers and the amount of force to be used can be reduced by a factor equivalent to the gear ratio of the torque multiplier.
For the sake of enhanced safety, some of the torque multipliers are provided with anti-backlash mechanism.

Ideal for controlled torque multiplication - even with very short lever lengths having a reliable accuracy of $\pm 5\%$.

Advantages of using a torque multiplier:

- Avoidance of long lever arms meaning you work more safely. Torque multipliers reduce the lever length or the force required by the user by a certain factor.
- The use of a long lever arm may not be possible owing to limitations on the space available.
- The torque multiplier means the torque is applied more accurately as it is applied continuously and slowly and therefore more accurately.

Universal torque multiplier

- Robust loosening
- Designed for use with the crank handle supplied
- Integrated support device
- Square drive adaptor to DIN 3120 / ISO 1174
- 1:64 Torque ratio
- 4.000 Nm 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



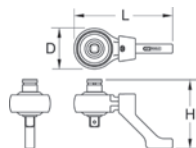
T			
			kg
516.1151	3 pcs	Universal torque multiplier	8,54

consists of:

		kg
516.1152	1" Crank handle for 516.1151	500
516.1153	1" Extension for 516.1151	300

Universal torque multiplier

- Accuracy: $\pm 5\%$ 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

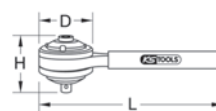


1/2" 3/4" T

				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	8,60
516.3705	3/4"	5 : 1	1"	540	2700	110,0	395,0	127,0	4,40

Torque converter, 1680 Nm

- High accuracy: $\pm 5\%$ 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



1/2" 3/4"

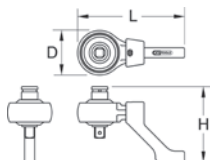
				Nm	Nm	D mm	L mm	H mm	kg
516.3740	1/2"	6:1	3/4"	280	1680	100,0	128,0	106,0	4,90

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 Nm

- High accuracy: $\pm 5\%$ 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



3/4" 1"

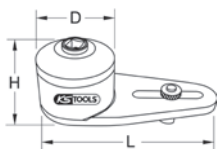
	□	○	■	→	←	D	L	H	kg
516.3745	3/4"	5,4:1	1"	Nm	Nm	mm	mm	mm	6,34

accessories:

		kg
516.3747	Spare square for 516.3745	0,24
516.3748	Angular strut for 516.3745	1,42

Torque convertor, 3500 Nm

- High accuracy: $\pm 5\%$ 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
- 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



3/4" 1"

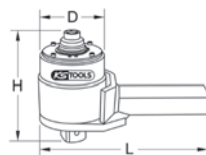
	□	○	■	→	←	D	L	H	kg
516.3750	3/4"	4,5:1	1"	Nm	Nm	mm	mm	mm	7,30

accessories:

		kg
516.3752	Spare square for 516.3750	280

Torque convertor, 4500 Nm

- High accuracy: $\pm 5\%$ 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
- 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



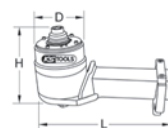
1/2" 1 1/2"

	□	○	■	→	←	D	L	H	kg
516.3755	1/2"	20:1	1.1/2"	225	4500	120,0	312,0	204,8	8,30



Torque convertor, 6000 Nm

- High accuracy: $\pm 5\%$ 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" 1 1/2"

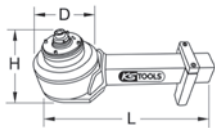
	□	○	■	→	←	D	L	H	kg
516.3760	1/2"	26:1	1.1/2"	230	6000	130,0	328,0	216,3	15,70

accessories:

		kg
516.3762	Replacement shear pin for 516.3760	9

Torque convertor, 9500 Nm

- High accuracy: $\pm 5\%$ 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" 1/4"

			Nm	Nm	D mm	L mm	H mm			
516.3765	1/2"	26:1	1.1/2"	365	9500	184,0	505,0	214,9	30,30	

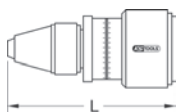
accessories:

516.3767	Replacement shear pin for 516.3765								9	

TEST EQUIPMENT

Precision torque testing instrument with dial indicator and drag indicator

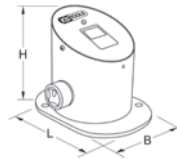
- Display accuracy: $\pm 6\%$ tolerance of the set scale value
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For controlled display in a clockwise and counter clockwise direction
- For testing, measuring, checking and making adjustments
- Display torque testing instrument with drag indicator
- Large vision panel for precise adjustment
- Tool mounting using a three jaw chuck
- Individually marked with serial number - unique product identification
- Including calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards



	Measuring range mNm	Measuring range cNm	Division mNm	Division cNm	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

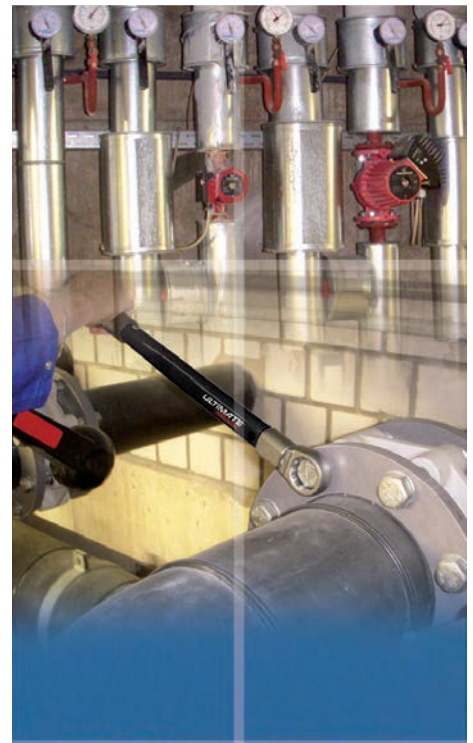
Electronic accuracy tester for torque wrenches

- 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 Nm 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 calibration declaration of conformity according to DIN EN ISO 6789:2017(E) - traceable to national standards
- No main power required - includes 2 x AA 1.5 V LR26 batteries
- Includes reinforcement screw
- In durable plastic storage case



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

	Measuring range Nm	L mm	B mm	H mm	
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	4,82



Confidence is good - torque control is better!

KSTOOLS
