



*Tools and
more*



**SPANNERS
GEARplus® RATCHET SPANNERS**

K11

SPANNERS, GEARplus® RATCHETING SPANNER

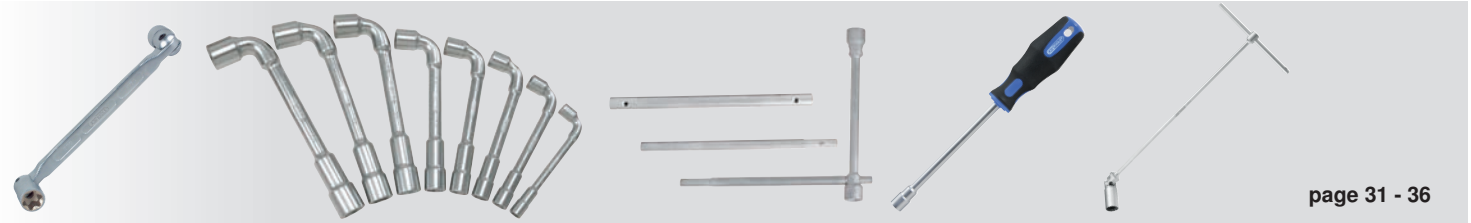


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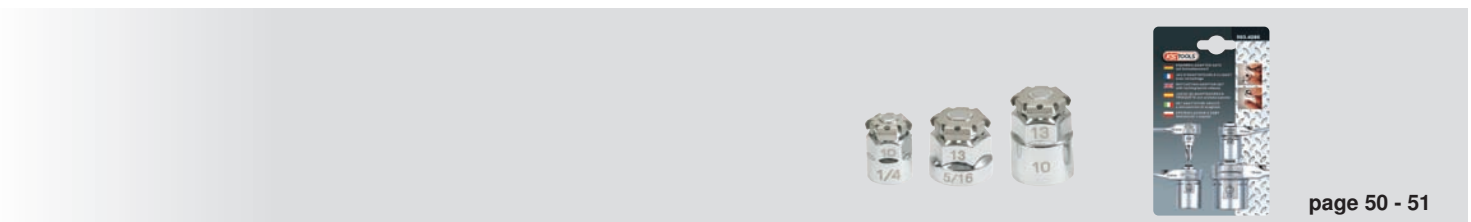
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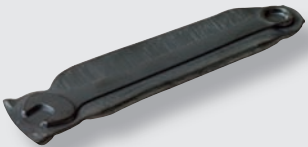






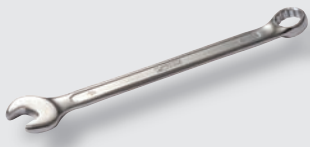




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SPANNERS Manufacturing and fabrication steps

Raw material blank cutting		Anti slip ground	
Forging of the spanner blank		Stamping of the spanner shaft	
The stamping out the spanner blank		Hardening and tempering	
Spanner blank		Galvanizing preprocessing	
Jaw head milling		Nickel plating and chromium plating	
Ring head broaching			

Surfaces

Phosphate	Matt chrome	Chrome plated and mirror polished	Very fine matt satin chrome
			
<ul style="list-style-type: none"> • Phosphating = chemical / electro chemical process • Dip coating or injection method • Intention is the generation of phosphate layer, which is immovable on the base metal • The surface receives a very good absorption capacity for oil and wax. • Reliable corrosion protection • Phosphated tools require regular oiling 	<ul style="list-style-type: none"> • Chrome layer is manufactured by electroplating in a electrolytic bath process • Several steps e.g. degrease / nickel plating and chrome plating • Matt = matt nickel layer shines through chrome layer - Resulting in matt finish • Ideal corrosion and wear and tear protection 	<ul style="list-style-type: none"> • Chrome layer is manufactured by electroplating in an electrolytic bath process • Several steps e.g. degrease / nickel plating and chrome plating • Mirror polished = shining nickel layer - Resulting in a mirror polished finish • Ideal corrosion and wear and tear protection 	<ul style="list-style-type: none"> • Chrome layer is manufactured by electroplating in a electrolytic bath process • Several steps e.g. degrease / nickel plating and chrome plating • Ideal corrosion and wear and tear protection

Spanner-Profile

CLASSIC

- Chrome vanadium steel, matt chrome
- High corrosion and wear and tear protection
- Perfect price cost effectiveness
- 6 and 12 point profile

CHROME plus

- Finest chrome vanadium steel, mirror polished finish
- Ideal corrosions and wear and tear protection
- FlankTraction system

TRIPLE plus

- Finest chrome vanadium steel, mirror polished finish
- Ideal corrosions and wear and tear protection
- Triple plus profile for E-TX / 6 point / 12 point / imperial screws and nuts

ULTIMATE plus

- Finest chrome vanadium steel, satin finish
- Ideal corrosions and wear and tear protection
- FlankTraction system

Profile

Classic

FlankTraction 12 point

Tripleplus®

E-TX



- Classic 12-point profile
- Perfect power transmission



- Perfect grip even on screws and nuts which are not true to size or damaged
- Larger contact area for better pressure distribution
- Avoids damage of head of screws
- Perfect torque transfer to the flanks of nuts and bolts



- Universal profile for use on 6 point / 12 point / E-TX profile and on imperial sizes

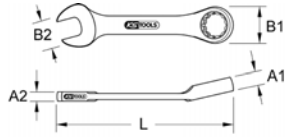


- Common profile from automotive industry
- No cam distortion
- Perfect torque transfer

COMBINATION SPANNERS

CHROMEplus® combination spanner, stubby

- FlankTraction profile (12 point)
- Jaw 15° offset
- Ring head 15° offset
- Chrome plated and mirror polished
- Chrome vanadium



Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	g
518.0010	10	7.5	5.8	16.1	22.2	95.0	37
518.0011	11	7.8	6.1	17.9	23.9	100.0	45
518.0012	12	7.8	6.6	19.1	25.5	104.0	51
518.0013	13	9.1	7.0	19.9	27.1	109.0	54
518.0014	14	9.4	7.6	21.8	29.2	114.0	71
518.0015	15	9.6	7.8	22.5	30.1	120.0	76
518.0016	16	9.8	7.9	24.1	32.8	124.0	88
518.0017	17	10.8	8.7	26.1	35.8	130.0	115
518.0018	18	11.0	9.1	27.0	36.7	134.0	118
518.0019	19	11.9	9.9	28.6	38.1	140.0	148

CHROMEplus® combination spanner set, stubby

- FlankTraction profile (12 point)
- Jaw 15° offset
- Ring head 15° offset
- Chrome plated and mirror polished
- Chrome vanadium



Item	mm	g
518.0040	7 pcs 10 - 11 - 12 - 13 - 14 - 17 - 19 mm	600



GEARplus® combination ratcheting spanner, stubby

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head 15° offset
- With reverse lever
- High quality finish
- Chrome vanadium



Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	g
503.4631	8	6.5	4.0	16.6	16.7	90.0	30
503.4632	9	6.9	4.4	18.4	18.8	93.0	40
503.4633	10	7.3	4.8	20.0	20.8	95.0	45
503.4634	11	7.7	5.2	21.8	23.0	103.0	50
503.4635	12	8.2	5.5	22.7	25.0	106.0	55
503.4636	13	8.6	5.8	24.7	27.1	108.0	60
503.4637	14	9.0	6.2	27.0	29.2	115.0	70
503.4638	15	9.4	6.5	28.3	31.3	119.0	90
503.4639	16	9.9	6.8	30.0	33.4	123.0	100
503.4640	17	10.3	7.2	31.8	35.5	127.0	110
503.4641	18	10.7	7.7	32.6	37.6	131.0	120
503.4642	19	11.2	8.2	33.8	39.7	139.0	150

GEARplus® combination ratcheting spanner set, stubby

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head 15° offset
- With reverse lever
- High quality finish
- Chrome vanadium
- In durable plastic storage case



Item	g
503.4652 12 pcs GEARplus® combination ratcheting spanner set, stubby	1.08
12 x 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	

GEARplus® combination ratcheting spanner set, stubby

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head 15° offset
- With reverse lever
- Square drive adaptor to DIN 3120
 - ISO 1174 with ball lock
- For bits to DIN 3126 / C 6,3
- High quality finish
- Chrome vanadium
- In durable plastic storage case



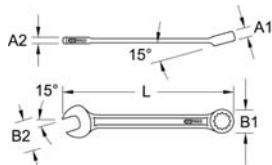
1/4" 3/8" 1/2"

Item	g
503.4653 16 pcs GEARplus® combination ratcheting spanner set, stubby	1.35
12 x 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	
1 x 1/4"	
3 x 1/4" - 3/8" - 1/2"	

COMBINATION SPANNERS

Combination spanners, offset

- FlankTraction profile (12 point)
- DIN 3113 Form A / ISO 3318 / ISO 7738
- Jaw 15° offset
- Ring head 15° offset
- Polished heads
- Matt finish
- Chrome vanadium



Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	Weight
517.0606	6	4.7	4.0	10.1	15.5	100.0	10
517.0607	7	5.0	4.0	11.5	17.0	110.0	15
517.0608	8	5.5	4.5	12.8	19.2	120.0	20
517.0609	9	5.9	4.5	14.2	21.2	130.0	30
517.0610	10	6.5	5.0	15.6	23.2	140.0	40
517.0611	11	6.9	5.4	16.9	25.3	150.0	50
517.0612	12	7.3	5.5	18.3	27.2	160.0	60
517.0613	13	7.8	5.9	19.7	29.4	170.0	70
517.0614	14	8.3	6.2	21.2	31.5	180.0	80
517.0615	15	8.6	6.4	22.5	33.2	190.0	90
517.0616	16	8.9	6.7	24.0	34.7	200.0	100
517.0617	17	9.3	6.9	25.3	36.5	210.0	130
517.0618	18	9.9	7.2	26.8	38.7	220.0	140
517.0619	19	10.5	7.4	28.1	40.7	230.0	170
517.0620	20	10.9	7.7	29.7	43.1	240.0	190
517.0621	21	11.3	8.0	31.3	44.5	250.0	210
517.0622	22	11.5	8.2	32.6	46.9	260.0	230
517.0623	23	13.5	7.6	33.0	49.5	270.0	245
517.0624	24	14.0	8.0	35.5	50.4	280.0	270
517.0625	25	14.5	8.2	36.0	54.5	290.0	340
517.0626	26	15.0	8.5	37.0	56.5	300.0	350
517.0627	27	15.5	8.8	39.6	59.5	310.0	420
517.0628	28	16.0	9.0	40.0	60.0	320.0	440
517.0629	29	16.5	9.5	41.5	61.5	330.0	470
517.0630	30	17.0	10.1	43.7	61.8	340.0	500
517.0632	32	18.0	10.4	46.4	65.8	360.0	530
517.0636	36	19.5	11.0	51.5	77.0	380.0	690
517.0641	41	22.0	11.0	58.5	87.0	440.0	750

Combination spanners set, offset

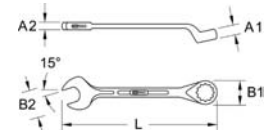
- FlankTraction profile (12 point)
- DIN 3113 Form A / ISO 3318 / ISO 7738
- Jaw 15° offset
- Ring head 15° offset
- Polished heads
- Matt finish
- Chrome vanadium



Item	Weight	Dimensions	Weight
517.0048	8 pcs	8 - 9 - 10 - 11 - 13 - 14 - 17 - 19 mm	550
517.0052	12 pcs	8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	880
517.0043	21 pcs	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 mm	3800

Combination spanners, offset

- FlankTraction profile (12 point)
- DIN 3113 Form B / ISO 3318 / ISO 7738
- Jaw 15° offset
- Ring head 70° offset
- Ring head 10° angled
- Chrome plated and mirror polished
- Chrome vanadium



Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	Weight
518.1606	6	4.7	4.0	10.1	15.5	100.0	10
518.1607	7	5.0	4.0	11.5	17.0	112.0	15
518.1608	8	5.5	4.5	12.8	19.2	125.0	25
518.1609	9	5.9	4.5	14.2	21.2	138.0	40
518.1610	10	6.5	5.0	15.6	23.2	148.0	40
518.1611	11	6.9	5.4	16.9	25.3	158.0	50
518.1612	12	7.3	5.5	18.3	27.2	168.0	60
518.1613	13	7.8	5.9	19.7	29.4	185.0	80
518.1614	14	8.3	6.2	21.2	31.5	198.0	80
518.1615	15	8.6	6.4	22.5	33.2	210.0	110
518.1616	16	8.9	6.7	24.0	34.7	220.0	120
518.1617	17	9.3	6.9	25.3	36.5	232.0	150
518.1618	18	9.9	7.2	26.8	38.7	245.0	150
518.1619	19	10.5	7.4	28.1	40.7	258.0	200
518.1620	20	10.9	7.7	29.7	43.1	270.0	220
518.1621	21	11.3	8.0	31.3	44.5	280.0	260
518.1622	22	11.5	8.2	32.6	46.9	292.0	280
518.1623	23	13.5	7.6	33.0	49.5	305.0	300
518.1624	24	12.1	8.0	35.5	50.4	318.0	320
518.1625	25	14.5	8.2	36.0	54.5	328.0	320
518.1626	26	15.0	8.5	37.0	56.5	340.0	400
518.1627	27	13.7	8.8	39.6	59.5	352.0	420
518.1628	28	16.0	9.0	40.0	60.0	370.0	560
518.1629	29	16.5	9.5	41.5	61.5	380.0	600
518.1630	30	16.5	10.1	43.7	61.8	390.0	620
518.1632	32	17.5	10.4	46.4	65.8	412.0	740

Combination spanners set, offset

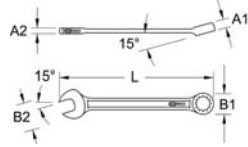
- FlankTraction profile (12 point)
- DIN 3113 Form B / ISO 3318 / ISO 7738
- Jaw 15° offset
- Ring head 70° offset
- Ring head 10° angled
- Chrome plated and mirror polished
- Chrome vanadium



Item	Weight	Dimensions	Weight
518.0048	8 pcs	8 - 9 - 10 - 11 - 13 - 14 - 17 - 19 mm	550
518.0052	12 pcs	8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	880
518.0043	21 pcs	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 mm	3800

CHROMEplus® combination spanner, offset

- FlankTraction profile (12 point)
- DIN 3113 / ISO 3318 / ISO 7738
- Jaw 15° offset
- Ring head 15° offset
- Chrome plated and mirror polished
- Chrome vanadium



Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	kg
518.0606	6	4.6	4.3	10.5	13.7	128.0	21
518.0607	7	5.1	4.6	11.6	15.2	138.0	25
518.0608	8	5.7	4.7	12.6	18.9	148.0	32
518.0609	9	8.1	5.8	15.6	20.6	154.0	46
518.0610	10	8.3	6.0	16.4	21.5	162.0	48
518.0611	11	8.5	6.8	17.8	23.0	167.0	62
518.0612	12	8.6	6.9	18.3	25.6	174.0	70
518.0613	13	8.8	7.1	20.3	26.3	178.0	71
518.0614	14	9.6	7.7	22.1	28.9	190.0	95
518.0615	15	10.7	8.5	24.5	32.6	205.0	124
518.0616	16	10.7	8.5	24.5	32.6	205.0	124
518.0617	17	11.0	8.8	26.7	36.3	225.0	155
518.0618	18	11.2	9.2	28.3	38.6	248.0	176
518.0619	19	11.2	9.2	28.3	38.6	248.0	176
518.0620	20	12.4	9.8	30.5	42.5	270.0	233
518.0621	21	12.4	9.8	30.5	42.5	270.0	233
518.0622	22	12.9	10.4	33.3	46.5	292.0	287
518.0624	24	13.9	10.8	35.4	48.5	314.0	332
518.0627	27	15.4	12.3	38.4	53.5	359.0	512
518.0630	30	15.8	12.9	43.1	57.2	390.0	664
518.0632	32	16.4	13.0	45.1	62.0	425.0	847
518.3001	1/4"	4.6	4.3	10.5	13.7	128.0	21
518.3002	5/16"	5.7	4.7	12.6	18.9	148.0	32
518.3003	3/8"	8.1	5.8	15.6	20.6	154.0	46
518.3004	7/16"	8.5	6.8	17.8	23.0	167.0	62
518.3005	1/2"	8.8	7.1	20.3	26.3	178.0	71
518.3006	9/16"	9.6	7.7	22.1	28.9	190.0	95
518.3007	5/8"	10.7	8.5	24.5	32.6	205.0	124
518.3008	11/16"	11.0	8.8	26.7	36.3	225.0	155
518.3009	3/4"	11.2	9.2	28.3	38.6	248.0	176
518.3010	13/16"	12.4	9.8	30.5	42.5	270.0	233
518.3011	7/8"	12.9	10.4	33.3	46.5	292.0	287
518.3012	15/16"	13.9	10.8	35.4	48.5	314.0	332
518.3013	1"	14.4	11.4	36.5	50.4	336.0	422
518.3014	1.1/16"	15.4	12.3	38.4	53.5	359.0	512
518.3015	1.1/8"	15.8	12.9	43.1	57.2	390.0	664
518.3016	1.1/4"	16.4	13.0	45.1	62.0	425.0	847

CHROMEplus® combination spanner set, offset

- FlankTraction profile (12 point)
- DIN 3113 / ISO 3318 / ISO 7738
- Jaw 15° offset
- Ring head 15° offset
- Chrome plated and mirror polished
- Chrome vanadium



Item	kg
518.0640 9 pcs 8 - 9 - 10 - 11 - 12 - 13 - 14 - 17 - 19 mm	930

CHROMEplus® combination spanner set, offset

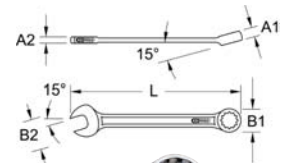
- FlankTraction profile
- DIN 3113 / ISO 3318 / ISO 7738
- Jaw 15° offset
- Ring head 15° offset
- Chrome plated and mirror polished
- Chrome vanadium



Item	kg
518.0641 11 pcs 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 17 - 19 - 22 mm	1.40
518.0643 13 pcs 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 17 - 19 - 22 mm	1.40
518.0644 4 pcs 24 - 27 - 30 - 32 mm	2.50
518.3000 11 pcs 1/4" - 5/16" - 3/8" - 7/16" - 1/2" - 9/16" - 5/8" - 11/16" - 3/4" - 13/16" - 7/8"	1.30
518.3020 7 pcs 3/8" - 7/16" - 1/2" - 9/16" - 5/8" - 11/16" - 3/4"	0.73

TRIPLEplus® combination spanner, offset

- TRIPLEplus® profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ring head 15° offset
- Chrome plated and mirror polished
- Chrome vanadium



Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	kg
516.0608	8	5.7	4.7	12.6	18.9	143.0	20
516.0609	9	8.1	5.8	15.6	20.6	149.0	30
516.0610	10	8.3	6.0	16.4	21.5	161.0	40
516.0611	11	8.5	6.8	17.8	23.0	168.0	50
516.0612	12	8.6	6.9	18.3	25.6	174.0	60
516.0613	13	8.8	7.1	20.3	26.3	180.0	70
516.0614	14	9.6	7.7	22.1	28.9	193.0	80
516.0615	15	10.7	8.5	24.5	32.6	200.0	90
516.0616	16	10.7	8.5	24.5	32.6	207.0	100
516.0617	17	11.0	8.8	26.7	36.3	227.0	130
516.0618	18	11.2	9.2	28.3	38.6	239.0	140
516.0619	19	11.2	9.2	28.3	38.6	250.0	150

TRIPLEplus® combination spanner set, offset

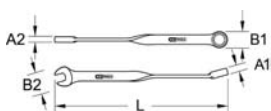
- TRIPLEplus® profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ring head 15° offset
- Chrome plated and mirror polished
- Chrome vanadium



Item	kg
516.0660 12 pcs 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	950

CHROMEplus® combination spanner, offset

- FlankTraction profile (12 point)
- Jaw 15° offset
- Ring head 15° offset
- 90° twisted handle
- Chrome plated and mirror polished
- Chrome vanadium



Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	kg
518.0908	8	5.7	4.3	13.4	17.4	148.0	40
518.0910	10	6.8	4.9	15.7	21.6	167.0	50
518.0913	13	8.8	6.2	20.7	26.9	205.0	90
518.0914	14	9.4	6.9	22.3	30.2	223.0	110
518.0916	16	10.0	7.3	24.7	33.3	243.0	150
518.0917	17	11.4	7.6	26.8	36.2	262.0	180
518.0919	19	13.0	8.2	29.2	40.0	281.0	230
518.0922	22	14.6	9.4	33.8	45.5	319.0	350

CHROMEplus® twist combination spanner set, offset

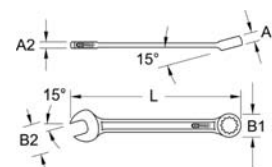
- FlankTraction profile (12 point)
- Jaw 15° offset
- Ring head 15° offset
- 90° twisted handle
- Chrome plated and mirror polished
- Chrome vanadium
- In durable plastic storage case



Item	kg
518.0960 8 pcs 8 - 10 - 13 - 14 - 16 - 17 - 19 - 22 mm	3.20

ULTIMATEplus combination spanner, offset

- FlankTraction profile (12 point)
- DIN 3113 Form A / ISO 3318 / ISO 7738
- Jaw 15° offset
- Ring head 15° offset
- High quality finish
- Chrome vanadium



Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	kg
920.0003	3,2	4,5	3,6	9,5	15,0	100,0	10
920.00035	3,5	4,5	3,6	9,5	15,0	100,0	10
920.0004	4	4,5	3,6	9,5	15,0	100,0	10
920.00045	4,5	4,5	3,6	9,5	15,0	100,0	10
920.0005	5	4,5	3,6	9,5	15,0	100,0	10
920.00055	5,5	5,0	3,7	10,0	17,0	105,0	10
920.0006	6	4,5	3,6	10,4	15,7	102,0	17
920.0007	7	4,9	4,0	11,6	17,2	112,0	20
920.0008	8	5,3	4,5	12,8	19,6	122,0	26
920.0009	9	5,7	4,7	14,6	21,5	132,0	35
920.0010	10	6,6	4,9	16,2	23,8	140,0	40
920.0011	11	6,9	5,0	17,5	25,6	150,0	50
920.0012	12	7,4	5,4	18,4	26,6	160,0	59
920.0013	13	7,7	5,9	19,8	27,4	170,0	75
920.0014	14	8,6	6,2	21,6	31,7	180,0	92
920.0015	15	8,7	6,5	23,1	33,2	190,0	95
920.0016	16	8,9	6,6	24,5	34,7	200,0	109
920.0017	17	8,9	6,7	25,8	36,8	210,0	122
920.0018	18	9,9	7,1	26,9	38,8	220,0	149
920.0019	19	10,3	7,4	28,6	40,8	230,0	165
920.0020	20	10,5	7,6	29,7	43,0	240,0	185
920.0021	21	11,0	7,8	31,8	45,3	250,0	209
920.0022	22	11,7	8,0	32,7	46,6	260,0	231
920.0023	23	11,9	8,4	33,5	47,7	270,0	234
920.0024	24	12,3	8,5	35,9	50,4	280,0	274
920.0025	25	12,4	8,8	36,9	52,5	290,0	286
920.0026	26	12,5	9,0	38,2	53,0	300,0	310
920.0027	27	12,5	9,2	38,5	53,3	310,0	330
920.0028	28	12,6	9,3	40,5	56,6	320,0	388
920.0029	29	12,8	9,5	41,4	59,0	330,0	419
920.0030	30	13,2	9,9	43,9	62,3	340,0	474
920.0032	32	14,0	10,3	45,7	65,7	360,0	523
920.0036	36	18,5	13,2	54,3	74,6	410,0	878
920.0041	41	21,5	14,5	61,3	83,6	460,0	1234
920.0046	46	21,7	15,0	63,9	89,3	500,0	1566
920.0048	48	23,1	16,9	73,5	97,0	540,0	1951
920.0050	50	23,1	16,9	73,5	97,0	540,0	1951
920.0081	1/4"	4,5	3,6	10,4	15,7	102,0	17
920.0082	5/16"	5,3	4,5	12,8	19,6	122,0	26
920.0083	3/8"	6,6	4,9	16,2	23,8	140,0	40
920.0084	7/16"	6,9	5,0	17,5	25,6	150,0	50
920.0085	1/2"	7,7	5,9	19,8	29,6	170,0	75
920.0086	9/16"	8,6	6,2	21,6	31,7	180,0	92
920.0087	5/8"	8,9	6,6	24,5	34,7	200,0	109
920.0088	11/16"	8,9	6,7	25,8	36,8	210,0	122
920.0089	3/4"	10,3	7,4	28,6	40,8	230,0	165
920.0090	13/16"	11,0	7,8	31,8	45,3	250,0	209
920.0091	7/8"	11,7	8,0	32,7	46,6	260,0	231
920.0092	15/16"	12,2	8,5	35,9	50,4	280,0	274
920.0093	1"	12,3	8,8	36,9	52,4	290,0	286
920.0094	1.1/16"	12,5	9,2	38,5	53,3	310,0	330
920.0095	1.1/8"	12,8	9,5	41,4	59,0	330,0	419
920.0096	1.1/4"	14,0	10,3	45,7	65,7	360,0	523



ULTIMATE^{plus} combination spanner set, offset

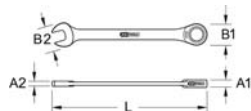
- FlankTraction profile (12 point)
- DIN 3113 Form A / ISO 3318 / ISO 7738
- Jaw 15° offset
- Ring head 15° offset
- High quality finish
- Chrome vanadium



Item				kg
920.0045	8 pcs	8 - 9 - 10 - 11 - 13 - 14 - 17 - 19 mm		0.70
920.0042	11 pcs	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 17 - 19 mm		0.85
920.0049	12 pcs	8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm		1.00
920.0043	21 pcs	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 mm		3.15
920.0044	26 pcs	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25 - 26 - 27 - 28 - 29 - 30 - 32 mm		4.50
920.0080	16 pcs	1/4" - 5/16" - 3/8" - 7/16" - 1/2" - 9/16" - 5/8" - 11/16" - 3/4" - 13/16" - 7/8" - 15/16" - 1" - 1.1/16" - 1.1/8" - 1.1/4"		3.18

GEAR^{plus} combination ratcheting spanner

- FlankTraction profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Straight form
- Exact gearing with 72 teeth
- Chrome plated and mirror polished
- Chrome vanadium



Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	kg
503.42055	5,5	6.3	3.9	14.0	15.0	127.5	20
503.4206	6	6.3	3.9	14.0	15.0	128.0	25
503.4207	7	6.5	4.0	16.8	16.7	140.0	30
503.4208	8	6.5	4.0	16.8	16.7	140.0	30
503.4209	9	6.9	4.4	18.8	18.7	149.0	40
503.4210	10	7.3	4.8	20.8	20.8	158.0	50
503.4211	11	7.7	5.2	21.8	23.0	165.0	60
503.4212	12	8.2	5.5	22.8	24.6	171.0	70
503.4213	13	8.6	5.8	24.8	26.8	178.0	80
503.4214	14	9.0	6.2	27.8	29.0	190.0	110
503.4215	15	9.4	6.5	28.8	31.0	199.0	120
503.4216	16	9.9	6.8	30.8	33.0	208.0	150
503.4217	17	10.3	7.2	31.8	35.5	225.0	180
503.4218	18	10.7	7.7	32.8	37.5	236.0	210
503.4219	19	11.2	8.2	33.8	39.4	247.0	240
503.4221	21	13.0	9.0	40.0	45.8	289.0	340
503.4222	22	13.0	9.0	40.0	45.8	289.0	340
503.4224	24	14.5	10.0	46.0	51.8	322.0	470
503.4227	27	15.5	10.5	52.0	56.4	358.0	580
503.4228	30	17.0	11.4	58.0	62.7	401.0	860
503.4229	32	17.5	12.5	62.0	66.4	424.0	1060
503.4230	34	17.5	13.0	62.0	70.0	459.0	1170
503.4102	5/16"	6.5	4.0	16.8	16.7	140.0	30
503.4103	3/8"	7.3	4.8	20.8	20.8	158.0	40
503.4104	7/16"	7.7	5.2	21.8	23.0	165.0	50
503.4105	1/2"	8.6	5.8	24.8	26.8	178.0	70
503.4106	9/16"	9.0	6.2	27.8	29.0	190.0	110
503.4107	5/8"	9.9	6.8	30.8	33.0	208.0	130
503.4108	11/16"	10.3	7.2	31.8	35.5	225.0	170
503.4109	3/4"	11.2	8.2	33.8	39.4	247.0	220

GEAR^{plus} double ring ratcheting spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Straight form
- Exact gearing with 72 teeth
- Chrome plated and mirror polished
- Chrome vanadium



Item				kg
503.4204	4 pcs	10 - 13 - 17 - 19 mm		0.65
503.4205	5 pcs	8 - 10 - 13 - 17 - 19 mm		0.69
503.4270	4 pcs	24 - 27 - 30 - 32 mm		3.07
503.4202	5 pcs	5/16" - 3/8" - 1/2" - 11/16" - 3/4"		0.69

GEAR^{plus} combination ratcheting spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Straight form
- Exact gearing with 72 teeth
- Chrome plated and mirror polished
- Chrome vanadium
- In durable plastic storage case



Item			kg
503.4259	6 pcs	GEAR ^{plus} combination ratcheting spanner set	0.97
6 x		8 - 10 - 12 - 13 - 17 - 19 mm	

GEAR^{plus} combination ratcheting spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Straight form
- Exact gearing with 72 teeth
- Square drive adaptor to DIN 3120 - ISO 1174 with ball lock
- For bits to DIN 3126 / C 6,3
- Chrome plated and mirror polished
- Chrome vanadium
- In durable plastic storage case



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

Item			kg
503.4260	10 pcs	GEAR ^{plus} combination ratcheting spanner set	1.06
6 x		8 - 10 - 12 - 13 - 17 - 19 mm	
1 x		1/4"	
3 x		1/4" - 3/8" - 1/2"	

GEARplus® combination ratcheting spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Straight form
- Exact gearing with 72 teeth
- Chrome plated and mirror polished
- Chrome vanadium
- In durable plastic storage case



Item			kg
503.4265	12 pcs	GEARplus® combination ratcheting spanner set	1.88

12 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm
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GEARplus® combination ratcheting spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Straight form
- Exact gearing with 72 teeth
- Square drive adaptor to DIN 3120 - ISO 1174 with ball lock
- For bits to DIN 3126 / C 6,3
- Chrome plated and mirror polished
- Chrome vanadium
- In durable plastic storage case



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

Item			kg
503.4266	16 pcs	GEARplus® combination ratcheting spanner set	1.73

12 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm
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1 x		1/4"
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3 x		1/4" - 3/8" - 1/2"
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GEARplus® combination ratcheting spanner display

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Straight form
- Exact gearing with 72 teeth
- Chrome plated and mirror polished
- Chrome vanadium



1/4" 3/8" 1/2" 5/16" 10 mm

Item			kg
503.4200	70 pcs	GEARplus® combination ratcheting spanner display	2.87

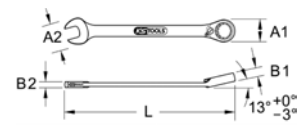
60 x		5 x (8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm)
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5 x		1/4"; 1/4" - 3/8" - 1/2"
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5 x		5/16" - 10 mm
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GEARplus® reversing combination ratcheting spanner

- FlankTraction profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head 15° offset
- Exact gearing with 72 teeth
- With reverse lever
- High quality finish
- Chrome vanadium



Item	mm		A1 mm	A2 mm	B1 mm	B2 mm	L mm	kg
503.4606	6		6.3	3.9	14.0	15.0	126.0	30
503.4607	7		6.5	4.6	16.6	16.7	145.0	30
503.4608	8		6.5	4.6	16.6	16.7	145.0	30
503.4609	9		6.9	4.9	18.4	18.8	150.0	40
503.4610	10		7.3	5.3	20.0	20.8	145.0	50
503.4611	11		7.7	5.6	21.8	23.0	165.0	60
503.4612	12		8.2	6.0	22.7	25.0	172.0	70
503.4613	13		8.6	6.4	24.7	27.1	165.0	80
503.4614	14		9.0	6.8	27.0	29.2	190.0	100
503.4615	15		9.4	7.0	28.3	31.3	200.0	120
503.4616	16		9.9	7.2	30.0	33.4	208.0	150
503.4617	17		10.3	7.7	31.8	35.5	225.0	160
503.4618	18		10.7	8.2	32.6	37.6	237.0	190
503.4619	19		11.2	8.8	33.8	39.7	248.0	220
503.4622	22		13.0	9.0	40.0	46.0	290.0	360
503.4624	24		14.5	10.0	46.0	52.2	323.0	470
503.4627	27		15.5	10.5	52.5	56.5	331.0	660
503.4628	30		17.0	11.4	58.5	62.7	389.0	860
503.4629	32		17.5	12.5	62.6	66.4	415.0	1050
503.4630	34		17.5	13.0	62.5	70.6	460.0	1200
503.4643	36		18.0	13.4	66.2	79.0	490.0	1300
503.4644	38		19.0	13.4	66.2	82.0	490.0	1400
503.4681		5/16"	6.5	4.0	16.6	16.7	145.0	30
503.4683		3/8"	7.3	4.8	20.0	20.8	159.0	60
503.4684		7/16"	7.7	5.2	21.8	23.0	165.0	70
503.4685		1/2"	8.6	5.8	24.7	27.1	178.0	80
503.4686		9/16"	9.0	6.5	27.0	29.2	190.0	100
503.4687		5/8"	9.9	6.8	30.0	33.4	208.0	140
503.4688		11/16"	10.3	7.2	31.8	35.5	225.0	170
503.4689		3/4"	11.2	8.2	33.8	39.7	248.0	230

GEARplus® reversing combination ratcheting spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head 15° offset
- Exact gearing with 72 teeth
- With reverse lever
- High quality finish
- Chrome vanadium



Item			kg
503.4604	4 pcs	10 - 13 - 17 - 19 mm	0.65

GEARplus® reversing combination ratcheting spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head 15° offset
- Exact gearing with 72 teeth
- With reverse lever
- High quality finish
- Chrome vanadium



Item			kg
503.4605	5 pcs	8 - 10 - 13 - 17 - 19 mm	0.70

GEARplus® reversing combination ratcheting spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head 15° offset
- Exact gearing with 72 teeth
- With reverse lever
- High quality finish
- Chrome vanadium



Item				kg
503.4602	5 pcs	5/16" - 3/8" - 1/2" - 11/16" - 3/4"		0.54

GEARplus® reversing combination ratcheting spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head 15° offset
- Exact gearing with 72 teeth
- With reverse lever
- High quality finish
- Chrome vanadium
- In durable plastic storage case



Item				kg
503.4646	6 pcs	GEARplus® reversing combination ratcheting spanner set		1.04
6 x		8 - 10 - 12 - 13 - 17 - 19 mm		

GEARplus® reversing combination ratcheting spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head 15° offset
- Exact gearing with 72 teeth
- With reverse lever
- Square drive adaptor to DIN 3120 - ISO 1174 with ball lock
- For bits to DIN 3126 / C 6,3
- High quality finish
- Chrome vanadium
- In durable plastic storage case



Item				kg
503.4650	9 pcs	GEARplus® reversing combination ratcheting spanner set		1.10
5 x		8 - 10 - 13 - 17 - 19 mm		
1 x		1/4"		
3 x		1/4" - 3/8" - 1/2"		

GEARplus® reversing combination ratcheting spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head 15° offset
- Exact gearing with 72 teeth
- With reverse lever
- Square drive adaptor to DIN 3120 - ISO 1174 with ball lock
- For bits to DIN 3126 / C 6,3
- High quality finish
- Chrome vanadium
- In durable plastic storage case



Item				kg
503.4647	10 pcs	GEARplus® reversing combination ratcheting spanner set		1.11
6 x		8 - 10 - 12 - 13 - 17 - 19 mm		
1 x		1/4"		
3 x		1/4" - 3/8" - 1/2"		

GEARplus® reversing combination ratcheting spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head 15° offset
- Exact gearing with 72 teeth
- With reverse lever
- High quality finish
- Chrome vanadium
- In durable plastic storage case



Item				kg
503.4665	12 pcs	GEARplus® reversing combination ratcheting spanner set		1.71
12 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm		

GEARplus® reversing combination ratcheting spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head 15° offset
- Exact gearing with 72 teeth
- With reverse lever
- Square drive adaptor to DIN 3120 - ISO 1174 with ball lock
- For bits to DIN 3126 / C 6,3
- High quality finish
- Chrome vanadium
- In durable plastic storage case



Item				kg
503.4666	16 pcs	GEARplus® reversing combination ratcheting spanner set		1.79
12 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm		
1 x		1/4"		
3 x		1/4" - 3/8" - 1/2"		

GEARplus® reversing combination ratcheting spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head 15° offset
- Exact gearing with 72 teeth
- With reverse lever
- High quality finish
- Chrome vanadium



Item				kg
503.4601	4 pcs	24 - 27 - 30 - 32 mm		3.23

GEARplus® reversing combination ratcheting spanner display

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head 15° offset
- Exact gearing with 72 teeth
- With reverse lever
- High quality finish
- Chrome vanadium



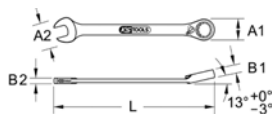
1/4" 3/8" 1/2" 5/16" 10 mm

Item				kg
503.4600	70 pcs	GEARplus® reversing combination ratcheting spanner display		2.82

60 x		5 x (8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm)
5 x		1/4" ; 1/4" - 3/8" - 1/2"
5 x		5/16" - 10 mm

TRIPLEplus® reversing combination ratcheting spanner

- TRIPLEplus® profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head 15° offset
- With reverse lever
- Exact gearing with 72 teeth
- High quality finish
- Chrome vanadium



Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	kg
503.4308	8	6.5	4.0	16.8	16.7	140.0	30
503.4309	9	6.9	4.4	18.8	18.7	150.0	40
503.4310	10	7.3	4.8	20.8	20.8	159.0	50
503.4311	11	7.7	5.2	21.8	23.0	165.0	60
503.4312	12	8.2	5.5	22.8	24.6	172.0	70
503.4313	13	8.6	5.8	24.8	26.8	178.0	80
503.4314	14	9.0	6.2	27.8	29.0	191.0	110
503.4315	15	9.4	6.5	28.8	31.0	200.0	120
503.4316	16	9.9	6.8	30.8	33.0	208.0	150
503.4317	17	10.3	7.2	31.8	35.5	226.0	180
503.4318	18	10.7	7.7	32.8	37.5	237.0	210
503.4319	19	11.2	8.2	33.8	39.4	248.0	240

TRIPLEplus® reversing combination ratcheting spanner set

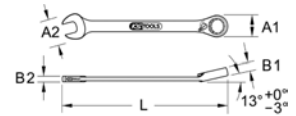
- TRIPLEplus® profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head 15° offset
- With reverse lever
- Exact gearing with 72 teeth
- High quality finish
- Chrome vanadium
- In durable plastic storage case



Item				kg
503.4390	12 pcs	8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm		3.10

GEARplus® reversing combination ratcheting spanner

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head 15° offset
- With reverse lever
- Ring stop function
- High quality finish
- Chrome vanadium



Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	kg
503.4908	8	6.5	4.6	16.6	16.7	140.0	40
503.4909	9	6.9	4.9	18.4	18.8	150.0	45
503.4910	10	7.3	5.3	20.0	20.8	159.0	50
503.4911	11	7.7	5.6	21.8	23.0	165.0	60
503.4912	12	8.2	6.0	22.7	25.0	172.0	70
503.4913	13	8.6	6.4	24.7	27.1	178.0	80
503.4914	14	9.0	6.8	27.0	29.2	191.0	100
503.4915	15	9.4	7.0	28.3	31.1	200.0	120
503.4916	16	9.9	7.2	30.0	33.4	208.0	140
503.4917	17	10.3	7.7	31.8	35.5	226.0	170
503.4918	18	10.7	8.2	32.6	37.6	237.0	200
503.4919	19	11.2	8.8	33.8	39.7	248.0	210

GEARplus® reversing combination ratcheting spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head 15° offset
- With reverse lever
- Versatile sockets with go through function
- Square drive adaptor to DIN 3120 - ISO 1174 with ball lock
- For bits to DIN 3126 / C 6,3
- High quality finish
- Chrome vanadium
- In durable plastic storage case



1/4" 3/8" 1/2" 5/16" 10 mm

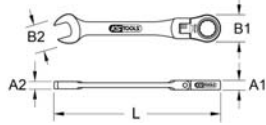
Item				kg
503.4960	30 pcs	GEARplus® reversing combination ratcheting spanner set		2.43

12 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm
12 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm
3 x		1/4" - 5/16" - 10 mm
3 x		1/4" - 3/8" - 1/2"

FLEXIBLE COMBINATION SPANNERS

GEARplus® flexible combination ratcheting spanner

- FlankTraction profile (12 point)
- In accordance to DIN 3110 / ISO 3318
- Jaw 15° offset
- Exact gearing with 72 teeth
- With flexible head
- 180° revolving head
- High quality finish
- Chrome vanadium



Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	kg
503.4708	8	6.5	4.3	16.7	16.2	127.0	30
503.4709	9	6.9	4.6	18.6	18.2	131.5	40
503.4710	10	7.3	5.0	20.0	20.3	136.0	50
503.4711	11	7.7	5.4	21.8	22.5	141.0	60
503.4712	12	8.2	5.8	23.0	24.3	147.5	70
503.4713	13	8.6	6.1	25.2	26.8	154.0	80
503.4714	14	9.0	6.4	26.8	28.3	160.0	100
503.4715	15	9.4	6.9	28.3	29.8	169.0	120
503.4716	16	9.9	7.2	29.8	31.8	179.0	150
503.4717	17	10.3	7.6	31.8	32.8	190.0	160
503.4718	18	10.7	8.0	32.8	37.0	203.0	190
503.4719	19	11.2	8.6	33.9	39.2	215.0	220
503.4721	21	13.0	9.0	40.0	46.0	274.0	400
503.4722	22	13.0	9.0	40.0	46.0	274.0	400
503.4724	24	14.5	10.0	46.0	52.2	296.0	550

GEARplus® flexible combination ratcheting spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3110 / ISO 3318
- Jaw 15° offset
- Exact gearing with 72 teeth
- With flexible head
- 180° revolving head
- High quality finish
- Chrome vanadium
- In durable plastic storage case



Item	kg
503.4759 6 pcs GEARplus® flexible combination ratcheting spanner set	1.90
6 x 8 - 10 - 12 - 13 - 17 - 19 mm	



GEARplus® flexible combination ratcheting spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3110 / ISO 3318
- Jaw 15° offset
- Exact gearing with 72 teeth
- With flexible head
- 180° revolving head
- Square drive adaptor to DIN 3120 - ISO 1174 with ball lock
- For bits to DIN 3126 / C 6,3
- High quality finish
- Chrome vanadium
- In durable plastic storage case



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

Item	kg
503.4760 10 pcs GEARplus® flexible combination ratcheting spanner set	2.00
6 x 8 - 10 - 12 - 13 - 17 - 19 mm	
1 x 1/4"	
3 x 1/4" - 3/8" - 1/2"	

GEARplus® flexible combination ratcheting spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3110 / ISO 3318
- Jaw 15° offset
- Exact gearing with 72 teeth
- With flexible head
- 180° revolving head
- High quality finish
- Chrome vanadium
- In durable plastic storage case



Item	kg
503.4765 12 pcs GEARplus® flexible combination ratcheting spanner set	2.56
12 x 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	

GEARplus® flexible combination ratcheting spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3110 / ISO 3318
- Jaw 15° offset
- Exact gearing with 72 teeth
- With flexible head
- 180° revolving head
- Square drive adaptor to DIN 3120 - ISO 1174 with ball lock
- For bits to DIN 3126 / C 6,3
- High quality finish
- Chrome vanadium
- In durable plastic storage case



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




Item	kg
503.4766 16 pcs GEARplus® flexible combination ratcheting spanner set	2.66
12 x 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	
1 x 1/4"	
3 x 1/4" - 3/8" - 1/2"	

GEARplus® flexible combination ratcheting spanner display

- FlankTraction profile (12 point)
- In accordance to DIN 3110 / ISO 3318
- Jaw 15° offset
- Exact gearing with 72 teeth
- With flexible head
- 180° revolving head
- High quality finish
- Chrome vanadium

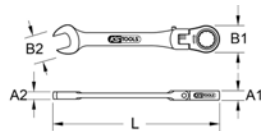


1/4" 3/8" 1/2" 5/16" 10 mm

Item	kg
503.4700 70 pcs GEARplus® flexible combination ratcheting spanner display	2.74
60 x  5 x (8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm)	
5 x  1/4" ; 1/4" - 3/8" - 1/2"	
5 x  5/16" - 10 mm	

GEARplus® flexible locking combination ratcheting spanner

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- With flexible locking head
- Exact gearing with 72 teeth
- 180° revolving head
- High quality finish
- Chrome vanadium




Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	kg
503.4808	8	6.5	4.3	16.7	16.2	127.0	30
503.4809	9	6.9	4.6	18.6	18.2	131.5	40
503.4810	10	7.3	5.0	20.0	20.3	136.0	50
503.4811	11	7.7	5.4	21.8	22.5	141.0	60
503.4812	12	8.2	5.8	23.0	24.3	147.5	70
503.4813	13	8.6	6.1	25.2	26.8	154.0	80
503.4814	14	9.0	6.4	26.8	28.7	160.0	100
503.4815	15	9.4	6.9	28.3	30.5	169.0	120
503.4816	16	9.9	7.2	29.8	32.9	179.0	150
503.4817	17	10.3	7.6	31.8	34.5	190.0	160
503.4818	18	10.7	8.0	32.8	37.0	203.0	190
503.4819	19	11.2	8.6	33.9	39.2	215.0	220

GEARplus® flexible locking combination ratcheting spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- With flexible locking head
- Exact gearing with 72 teeth
- 180° revolving head
- High quality finish
- Chrome vanadium
- In durable plastic storage case






Item	kg
503.4859 6 pcs GEARplus® flexible locking combination ratcheting spanner set	1.21
6 x  8 - 10 - 12 - 13 - 17 - 19 mm	

GEARplus® flexible locking combination ratcheting spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- With flexible locking head
- Exact gearing with 72 teeth
- 180° revolving head
- Square drive adaptor to DIN 3120 - ISO 1174 with ball lock
- For bits to DIN 3126 / C 6,3
- High quality finish
- Chrome vanadium
- In durable plastic storage case




1/4" 3/8" 1/2" 5/16" 10 mm

Item	kg
503.4867 12 pcs GEARplus® flexible locking combination ratcheting spanner set	1.30
6 x  8 - 10 - 12 - 13 - 17 - 19 mm	
3 x  1/4" - 5/16" - 10 mm	
3 x  1/4" - 3/8" - 1/2"	

GEARplus® flexible locking combination ratcheting spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- With flexible locking head
- Exact gearing with 72 teeth
- 180° revolving head
- High quality finish
- Chrome vanadium
- In durable plastic storage case



Item	kg
503.4865 12 pcs GEARplus® flexible locking combination ratcheting spanner set	2.56
12 x  8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	

GEARplus® flexible locking combination ratcheting spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- With flexible locking head
- Exact gearing with 72 teeth
- 180° revolving head
- Square drive adaptor to DIN 3120 - ISO 1174 with ball lock
- For bits to DIN 3126 / C 6,3
- High quality finish
- Chrome vanadium
- In durable plastic storage case



1/4" 3/8" 1/2" 5/16" 10 mm

Item	kg
503.4868 18 pcs GEARplus® flexible locking combination ratcheting spanner set	2.90

12 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm
3 x		1/4" - 5/16" - 10 mm
3 x		1/4" - 3/8" - 1/2"

GEARplus® flexible locking combination ratcheting spanner display

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- With flexible locking head
- Exact gearing with 72 teeth
- 180° revolving head
- High quality finish
- Chrome vanadium



1/4" 3/8" 1/2" 5/16" 10 mm

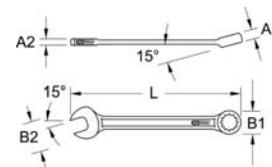
Item	kg
503.4800 70 pcs GEARplus® flexible locking combination ratcheting spanner display	2.82

60 x		5 x (8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm)
5 x		1/4" ; 1/4" - 3/8" - 1/2"
5 x		5/16" - 10 mm

COMBINATION SPANNERS, EXTRA LONG

CHROMEplus® combination spanner, extra long

- FlankTraction profile (12 point)
- Jaw 15° offset
- Ring head 15° offset
- Chrome plated and mirror polished
- Chrome vanadium



Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	g
519.0650	10	6.9	5.1	15.8	22.8	189.0	53
519.0651	11	7.0	5.3	17.3	24.6	207.0	62
519.0652	12	7.8	5.6	18.8	27.2	225.0	77
519.0653	13	8.5	5.7	20.4	28.6	243.0	113
519.0654	14	9.1	6.9	21.8	31.4	261.0	128
519.0655	15	9.3	7.0	23.4	33.5	279.0	144
519.0656	16	10.0	7.3	24.8	35.3	297.0	182
519.0657	17	10.1	7.4	26.2	37.6	314.0	197
519.0658	18	11.3	7.8	27.5	39.4	333.0	223
519.0659	19	12.7	8.7	28.7	41.5	349.0	271

CHROMEplus® combination spanner set, extra long

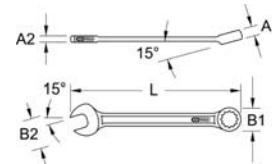
- FlankTraction profile (12 point)
- Jaw 15° offset
- Ring head 15° offset
- Chrome plated and mirror polished
- Chrome vanadium



Item	kg
519.0660 10 pcs 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	1.73

ULTIMATEplus combination spanner, extra long

- FlankTraction profile (12 point)
- Jaw 15° offset
- Ring head 15° offset
- Matt finish
- Chrome vanadium



Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	g
920.0310	10	6.9	5.1	15.8	22.8	189.0	53
920.0311	11	7.0	5.3	17.3	24.6	207.0	62
920.0312	12	7.8	5.6	18.8	27.2	225.0	77
920.0313	13	8.5	5.7	20.4	28.6	243.0	113
920.0314	14	9.1	6.9	21.8	31.4	261.0	128
920.0315	15	9.3	7.0	23.4	33.5	279.0	144
920.0316	16	10.0	7.3	24.8	35.3	297.0	182
920.0317	17	10.1	7.4	26.2	37.6	314.0	197
920.0318	18	11.3	7.8	27.5	39.4	333.0	223
920.0319	19	12.7	8.7	28.7	41.5	349.0	271

ULTIMATE^{plus} combination spanner set, extra long

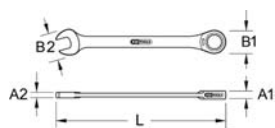
- FlankTraction profile (12 point)
- Jaw 15° offset
- Ring head 15° offset
- Matt finish
- Chrome vanadium



Item									
920.0347	10 pcs	10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm							1.66

GEAR^{plus} combination ratcheting spanner, extra long

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Straight form
- Exact gearing with 72 teeth
- Chrome plated and mirror polished
- Chrome vanadium



Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	kg
503.4008	8	6.5	5.7	16.6	16.7	160.0	40
503.4010	10	7.3	6.3	20.0	20.8	190.0	70
503.4012	12	8.2	7.2	22.7	25.0	220.0	100
503.4013	13	8.6	7.6	24.7	27.1	238.0	130
503.4014	14	9.0	8.1	27.0	29.2	255.0	150
503.4015	15	9.4	8.4	28.3	31.3	275.0	180
503.4016	16	9.9	8.6	30.0	33.4	295.0	200
503.4017	17	10.3	8.9	31.4	35.5	314.0	240
503.4018	18	10.7	9.4	32.9	37.6	333.0	280
503.4019	19	11.2	9.7	34.0	39.7	349.0	320

GEAR^{plus} combination ratcheting spanner set, extra long

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Straight form
- Extra long
- Exact gearing with 72 teeth
- Chrome plated and mirror polished
- Chrome vanadium
- In durable plastic storage case



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

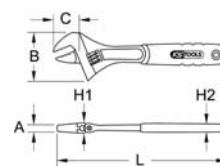
Item									
503.4050	9 pcs	GEAR ^{plus} combination ratcheting spanner set, extra long							1.91

5 x		8 - 10 - 13 - 17 - 19 mm
1 x		1/4"
3 x		1/4" - 3/8" - 1/2"

OPEN ENDED SPANNERS

Adjustable spanner

- DIN 3117 Form A
- Jaw 15° offset
- Swedish type design
- With mm scale
- With hanging hole
- Matt finish
- Chrome vanadium



Item	mm	mm	A mm	B mm	C mm	H1 mm	H2 mm	L mm	L	kg
577.0100	13	1/2"	6.4	31.0	10.9	9.5	8.9	100.0	4"	50
577.0150	18	23/32"	7.1	46.0	15.2	11.6	10.7	150.0	6"	130
577.0200	23	29/32"	8.7	57.4	20.6	14.6	11.9	200.0	8"	250
577.0250	28	1.3/16"	11.1	69.8	24.9	16.9	14.5	250.0	10"	450
577.0300	34	17/16"	13.5	82.3	29.0	20.5	15.2	300.0	12"	690
577.0375	43	1.11/16"	15.9	104.3	37.1	25.4	17.5	375.0	15"	1240
577.0450	53	2.1/16"	18.2	120.0	45.2	30.9	19.1	450.0	18"	2100

Adjustable spanner set

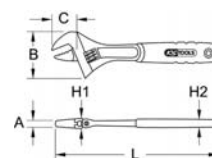
- DIN 3117 Form A
- Jaw 15° offset
- Swedish type design
- With mm scale
- With hanging hole
- Matt finish
- Chrome vanadium



Item									
577.0299	2 pcs	250 - 300 mm							1.14
577.0399	3 pcs	250 - 300 - 375 mm							3.28

Adjustable spanner with dual component comfort grip handle

- DIN 3117 Form A
- Jaw 15° offset
- Swedish type design
- With mm scale
- With hanging hole
- Two component handle
- Matt finish
- Chrome vanadium



Item	mm	mm	A mm	B mm	C mm	H1 mm	H2 mm	L mm	L	kg
577.0201	23	29/32"	8.7	57.4	20.6	14.6	11.9	200.0	8"	250
577.0251	28	1.3/16"	11.1	69.8	24.9	16.9	14.5	250.0	10"	450
577.0301	34	17/16"	13.5	82.3	29.0	20.5	15.2	300.0	12"	690

Adjustable spanner set with dual component comfort grip handle

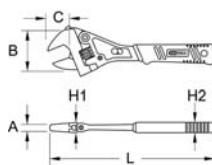
- DIN 3117 Form A
- Jaw 15° offset
- Swedish type design
- With mm scale
- With hanging hole
- Two component handle
- Matt finish
- Chrome vanadium



Item				kg
577.0199	3 pcs	200 - 250 - 300 mm		1.39

Adjustable spanner with ratchet function

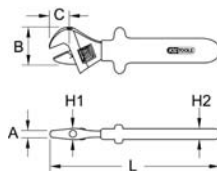
- In accordance to DIN 3117 Form A
- Jaw 15° offset
- Swedish type design
- With mm scale
- Ratchet function
- With hanging hole
- Two component handle
- Matt finish
- Chrome vanadium



Item	mm	mm	A mm	B mm	C mm	H1 mm	H2 mm	L mm	L	kg
577.0252	28	1.3/16"	10.6	75.3	29.6	15.7	20.6	250.0	10"	450

Insulated adjustable spanner

- In accordance to DIN 3117
- Insulated handle to DIN EN 609000
- Jaw 15° offset
- Swedish type design
- With mm scale
- Matt finish
- Chrome vanadium

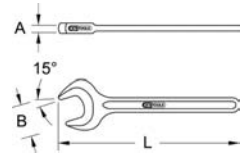


Item	mm	A mm	B mm	C mm	H1 mm	H2 mm	L mm	⚡	kg
117.1250	24.0	12.0	55.0	30.0	8.0	14.0	200.0	1000V	310
117.1253	30.0	14.0	77.0	40.0	14.0	19.0	250.0	1000V	540
117.1254	34.0	17.5	78.0	48.0	17.5	18.0	300.0	1000V	830



Single open ended spanner

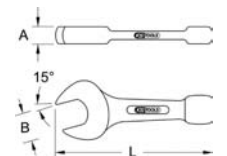
- DIN 894 / ISO 3380
- Jaw 15° offset
- For heavy duty applications
- Phosphate finish
- Chrome vanadium



Item	mm	A mm	B mm	L mm	kg
517.0522	22	8.0	48.0	193.0	170
517.0524	24	9.0	50.0	217.0	170
517.0527	27	9.8	56.0	239.0	230
517.0530	30	10.8	62.0	263.0	290
517.0532	32	11.8	66.0	275.0	350
517.0536	36	12.8	74.0	305.0	410
517.0538	38	12.8	74.0	305.0	410
517.0540	40	13.7	87.0	350.0	620
517.0541	41	13.8	87.0	344.0	620
517.0542	42	13.5	87.0	350.0	700
517.0546	46	19.8	94.0	380.0	850
517.0548	48	16.5	99.0	395.0	940
517.0550	50	15.8	102.0	413.0	1020
517.0555	55	16.8	112.0	459.0	1280
517.0560	60	17.7	122.0	494.0	1630
517.0565	65	18.7	132.0	528.0	1710
517.0570	70	19.7	142.0	572.0	2500
517.0575	75	20.7	152.0	610.0	3500
517.0580	80	21.7	162.0	645.0	3700
517.0585	85	23.0	173.0	690.0	4780
517.0590	90	23.0	173.0	690.0	5450
517.0595	95	25.0	195.0	847.0	5590
517.0596	100	25.0	195.0	847.0	5800

Slogging open ended spanner

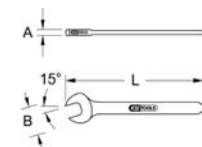
- DIN 133
- Jaw 15° offset
- Impact area
- For heavy duty applications
- Phosphate finish
- Chrome vanadium



Item	mm	A mm	B mm	L mm	kg
517.0124	24	17.4	56.3	160.0	0.50
517.0127	27	16.5	57.5	180.0	0.53
517.0130	30	17.0	63.5	190.0	0.55
517.0132	32	17.5	67.5	195.0	0.65
517.0136	36	18.5	77.5	210.0	0.85
517.0141	41	19.5	89.0	230.0	1.04
517.0146	46	20.0	99.0	250.0	1.39
517.0150	50	21.5	108.0	275.0	1.57
517.0155	55	24.0	118.5	305.0	2.25
517.0160	60	24.5	129.5	315.0	2.54
517.0165	65	28.0	140.5	345.0	3.64
517.0170	70	30.0	151.0	370.0	4.10
517.0175	75	31.5	163.0	385.0	5.17
517.0180	80	34.5	174.0	400.0	5.82
517.0185	85	34.5	174.0	410.0	6.98
517.0190	90	39.0	195.0	445.0	8.32
517.0195	95	39.0	195.0	455.0	10.40
517.0196	100	47.0	227.0	480.0	11.80

Insulated open ended spanner

- In accordance to DIN 7446
- Insulated handle to DIN EN 60900
- Jaw 15° offset
- Chrome vanadium



Item	mm	A mm	B mm	L mm	⚡	🔒
117.1506	6	12.0	23.5	70.1	≤ 1000 V	30
117.1507	7	12.0	25.0	77.0	≤ 1000 V	30
117.1508	8	12.5	27.2	84.0	≤ 1000 V	30
117.1509	9	12.5	29.2	90.0	≤ 1000 V	40
117.1510	10	13.0	31.2	97.0	≤ 1000 V	40
117.1511	11	13.4	33.3	104.0	≤ 1000 V	50
117.1512	12	13.5	35.2	110.0	≤ 1000 V	50
117.1513	13	13.9	37.4	117.0	≤ 1000 V	70
117.1514	14	14.2	39.5	124.0	≤ 1000 V	80
117.1515	15	14.4	41.2	130.0	≤ 1000 V	90
117.1516	16	14.7	42.7	137.0	≤ 1000 V	120
117.1517	17	14.9	44.5	144.0	≤ 1000 V	120
117.1518	18	15.2	46.7	150.0	≤ 1000 V	120
117.1519	19	15.4	48.7	157.0	≤ 1000 V	150
117.1522	22	16.2	54.9	174.0	≤ 1000 V	190
117.1524	24	16.7	58.4	190.0	≤ 1000 V	300
117.1527	27	17.4	63.7	210.0	≤ 1000 V	390
117.1530	30	18.1	69.8	230.0	≤ 1000 V	510
117.1532	32	18.4	65.8	244.0	≤ 1000 V	550

Double open ended spanner set

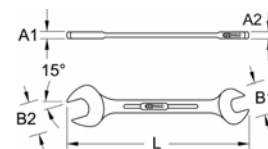
- DIN 3110 / ISO 1085 / ISO 10102 / ISO 3318
- Jaw 15° offset
- Ground heads
- Matt finish
- Chrome vanadium



Item	🔒
517.0148	8 pcs 6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 mm 0.81
517.0123	11 pcs 6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 - 21x23 - 24x27 - 30x32 mm 1.60
517.0125	12 pcs 6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 - 21x23 - 24x27 - 25x28 - 30x32 mm 2.40

CHROMEplus® double open ended spanner

- DIN 3110 / ISO 3318 / ISO 1085 / ISO 10102
- Jaw 15° offset
- Chrome plated and mirror polished
- Chrome vanadium

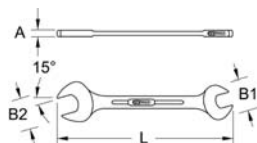


Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	🔒
518.0701	6x7	4.5	4.6	14.3	16.1	108.0	27
518.0702	8x9	5.0	5.5	17.1	19.1	127.0	32
518.0704	10x11	5.7	5.9	20.5	23.3	141.0	58
518.0706	10x13	6.6	6.8	26.2	29.7	163.0	93
518.0707	12x13	6.5	6.8	27.0	29.7	163.0	93
518.0709	14x15	7.2	7.2	29.2	32.8	185.0	122
518.0710	16x17	7.4	7.5	33.4	38.6	208.0	170
518.0719	16x18	7.4	7.4	33.5	38.6	208.0	170
518.0711	17x19	8.2	8.2	36.2	39.2	225.0	212
518.0712	18x19	8.2	8.4	36.2	39.2	225.0	212
518.0714	20x22	8.6	8.6	37.6	43.0	240.0	235
518.0715	21x23	8.8	8.8	42.6	45.1	252.0	277
518.0716	24x27	9.8	9.8	49.5	51.6	293.0	410
518.0718	30x32	12.1	12.1	55.9	66.4	340.0	693
518.3201	1/4" x 5/16"	4.5	4.6	14.3	16.1	108.0	27
518.3202	3/8" x 7/16"	5.7	5.9	20.5	23.3	141.0	58
518.3203	1/2" x 9/16"	6.5	6.8	27.0	29.7	163.0	93
518.3204	9/16" x 5/8"	7.2	7.4	29.2	32.8	185.0	122
518.3205	5/8" x 11/16"	7.4	7.5	33.5	38.6	208.0	170
518.3206	11/16" x 3/4"	8.2	8.4	36.2	39.2	225.0	212
518.3207	3/4" x 7/8"	8.6	9.1	37.6	43.0	240.0	235
518.3208	15/16" x 1"	9.8	9.9	49.5	51.6	293.0	410
518.3209	1.1/8" x 1.1/4"	12.1	12.3	55.9	66.4	340.0	693

DOUBLE OPEN ENDED SPANNERS

Double open ended spanner

- DIN 3110 / ISO 1085 / ISO 10102 / ISO 3318
- Jaw 15° offset
- Ground heads
- Matt finish
- Chrome vanadium



Item	mm	A mm	B1 mm	B2 mm	L mm	🔒
517.0701	6x7	3.7	15.5	18.0	122.0	20
517.0702	8x9	4.0	20.4	22.7	140.0	40
517.0704	10x11	5.0	24.9	27.1	157.0	50
517.0706	10x13	5.0	24.9	31.2	157.0	70
517.0707	12x13	5.0	29.2	31.2	172.0	70
517.0708	13x17	6.0	31.2	38.9	172.0	120
517.0709	14x15	5.5	33.3	35.3	190.0	100
517.0710	16x17	6.0	37.1	38.9	205.0	130
517.0711	17x19	6.5	38.9	42.8	222.0	180
517.0712	18x19	6.5	40.9	42.8	222.0	180
517.0713	19x22	7.0	42.8	49.5	236.0	200
517.0714	20x22	7.0	45.5	49.5	236.0	230
517.0715	21x23	7.5	47.0	51.0	250.0	220
517.0736	22x24	7.5	49.5	54.5	250.0	260
517.0716	24x27	8.0	54.5	61.0	266.0	330
517.0737	25x28	8.5	65.0	61.0	280.0	360
517.0718	30x32	9.0	65.5	69.0	302.0	510
517.0725	36x41	10.0	77.0	85.0	380.0	950
517.0728	46x50	11.6	97.0	103.0	420.0	1920

CHROMEplus® double open ended spanner set

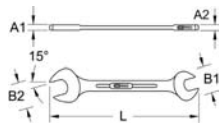
- DIN 3110 / ISO 3318 / ISO 1085 / ISO 10102
- Jaw 15° offset
- Mirror polished chrome
- Chrome vanadium



Item			kg
518.0747	7 pcs	8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 20x22 mm	1.03
518.0743	3 pcs	21x23 - 24x27 - 30x32 mm	1.42
518.3220	6 pcs	1/4"x5/16" - 3/8"x7/16" - 1/2"x9/16" - 5/8"x11/16" 11/16"x3/4" - 3/4"x7/8"	0.80
518.3200	8 pcs	1/4"x5/16" - 3/8"x7/16" - 1/2"x9/16" - 5/8"x11/16" 11/16"x3/4" - 3/4"x7/8" - 15/16"x1" - 1.1/8"x1.1/4"	1.90

ULTIMATEplus double open ended spanner

- DIN 3110 / ISO 1085 / ISO 10102 / ISO 3318
- Jaw 15° offset
- High quality finish
- Chrome vanadium



Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	kg
920.0103	3,2x5,5	3.4	3.5	14.0	15.0	100.0	19
920.0104	4x5	3.4	3.5	14.0	15.0	100.0	20
920.0106	6x7	3.7	3.7	15.5	17.5	123.0	21
920.0108	8x9	4.2	4.3	20.1	22.6	140.0	36
920.0109	8x10	4.2	4.3	20.1	22.6	140.0	36
920.0110	10x11	5.2	5.5	24.8	27.0	156.0	57
920.0111	10x12	5.2	5.5	24.8	27.0	156.0	57
920.0112	12x13	5.4	5.6	29.0	31.0	172.0	73
920.0114	14x15	5.8	6.0	33.6	33.6	190.0	93
920.0116	16x18	6.0	6.1	36.6	37.9	205.0	128
920.0117	17x19	6.5	6.7	40.8	42.7	221.0	162
920.0120	20x22	6.9	7.1	44.6	48.6	237.0	200
920.0121	21x23	7.6	8.1	46.7	50.9	247.0	257
920.0122	22x24	7.6	8.1	46.7	50.9	247.0	257
920.0124	24x27	8.2	8.8	51.6	57.3	259.0	303
920.0130	30x32	8.9	9.2	65.4	69.8	298.0	463
920.0181	1/4" x 5/16"	3.7	3.7	17.5	15.5	123.0	21
920.0182	3/8" x 7/16"	5.5	5.2	27.0	24.8	156.0	57
920.0183	1/2" x 9/16"	6.0	5.8	33.6	33.3	190.0	93
920.0184	5/8" x 11/16"	6.4	6.3	38.5	36.9	204.0	128
920.0185	3/4" x 25/32"	7.1	6.9	48.6	44.6	237.0	200
920.0186	13/16" x 7/8"	8.1	7.6	50.9	46.7	247.0	257
920.0187	15/16" x 1"	8.8	8.2	57.3	51.6	263.0	303
920.0188	1.1/16" x 1.1/4"	9.2	8.9	69.8	64.4	298.0	463

ULTIMATEplus double open ended spanner set

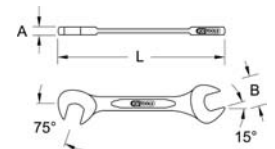
- DIN 3110 / ISO 1085 / ISO 10102 / ISO 3318
- Jaw 15° offset
- High quality finish
- Chrome vanadium



Item			kg
920.0143	8 pcs	6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x18 17x19 - 20x22 mm	0.80
920.0144	12 pcs	6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x18 - 17x19 20x22 - 21x23 - 22x24 - 24x27 - 30x32 mm	1.60
920.0180	8 pcs	1/4"x5/16" - 3/8"x7/16" - 1/2"x9/16" - 5/8"x11/16" 3/4"x25/32" - 13/16"x7/8" - 15/16"x1" 1.1/16"x1.1/4"	1.62

Double open ended spanner

- Jaw 15° and 75° offset
- Both jaws the same size
- Ground heads
- Extra flat heads
- Matt finish
- Chrome vanadium



Item	mm	A mm	B mm	L mm	kg
517.1732	3,2	3.0	11.0	75.0	6
517.1735	3,5	3.3	11.6	75.0	7
517.1740	4	3.5	11.6	75.0	8
517.1745	4,5	3.8	11.6	75.0	8
517.1750	5	3.8	15.8	75.0	10
517.1755	5,5	3.8	15.8	85.0	10
517.1760	6	3.8	15.9	85.0	12
517.1770	7	3.8	15.9	85.0	15
517.1780	8	4.1	20.0	95.0	20
517.1790	9	4.1	20.4	95.0	24
517.1800	10	4.2	21.9	105.0	26
517.1810	11	4.4	22.2	105.0	31
517.1820	12	4.8	26.6	125.0	31
517.1830	13	4.8	26.9	125.0	41
517.1840	14	4.8	26.9	125.0	41

Double open ended spanner set

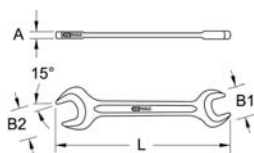
- Jaw 15° and 75° offset
- Both jaws the same size
- Ground heads
- Extra flat heads
- Matt finish
- Chrome vanadium



Item			kg
517.1700	15 pcs	3,2 - 3,5 - 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 12 - 13 - 14 mm	2.00

Double open ended spanner

- DIN 895 / ISO 3318 / ISO 1085
- Jaw 15° offset
- For heavy duty applications
- Phosphate finish
- Chrome vanadium



Item	mm	A mm	B1 mm	B2 mm	L mm	kg
517.1406	6x7	3.2	15.0	17.0	96.0	10
517.1408	8x9	3.7	19.0	20.5	108.0	15
517.1409	9x10	4.3	18.8	23.3	118.0	30
517.1410	10x11	5.0	22.0	24.5	124.0	30
517.1411	10x13	5.0	22.0	28.5	128.0	40
517.1412	12x13	5.5	26.5	28.5	140.0	40
517.1413	13x14	5.5	28.5	30.0	140.0	40
517.1414	14x15	5.5	30.0	32.0	154.0	60
517.1415	13x17	6.0	28.5	36.0	158.0	70
517.1416	16x17	6.0	33.0	36.0	158.0	80
517.1417	17x19	7.0	36.0	40.0	171.0	100
517.1418	18x19	7.0	38.0	40.0	171.0	100
517.1419	19x22	8.0	40.0	46.0	195.0	135
517.1420	20x22	8.0	42.5	46.0	195.0	135
517.1422	22x24	9.0	46.0	50.0	221.0	180
517.1423	24x27	9.8	50.0	56.0	246.0	270
517.1425	25x28	9.8	53.0	58.0	246.0	330
517.1426	27x30	10.8	56.0	62.0	275.0	400
517.1430	30x32	11.8	62.0	66.0	278.0	400
517.1432	32x36	12.8	66.0	74.0	310.0	520
517.1436	36x41	13.8	74.0	84.0	347.0	680
517.1441	41x46	14.8	84.0	94.0	383.0	950
517.1446	46x50	15.8	94.0	102.0	420.0	1200

Double open ended spanner set

- DIN 895 / ISO 3318 / ISO 1085
- Jaw 15° offset
- For heavy duty applications
- Phosphate finish
- Chrome vanadium

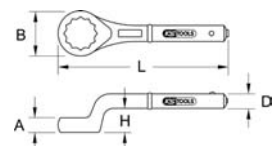


Item	pcs	mm	kg
517.1490	8 pcs	6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 mm	0.57
517.1491	10 pcs	6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 - 24x27 - 30x32 mm	1.41

SINGLE RING ENDED SPANNER

Offset single ring spanner

- FlankTraction profile (12 point)
- Ring head 75° offset
- Shaft for attaching extension pipe
- Locking pin
- Heavy duty to deliver maximum torque
- Matt finish
- Chrome vanadium



Item	mm	A mm	B mm	D mm	H mm	L mm	kg
517.9024	24	17.0	38.0	19.0	29.5	180.0	0.35
517.9027	27	17.0	42.0	19.0	31.5	190.0	0.40
517.9030	30	18.0	48.0	19.0	33.5	195.0	0.45
517.9032	32	18.0	49.0	22.0	34.0	200.0	0.55
517.9036	36	18.0	49.0	22.0	34.0	200.0	0.65
517.9041	41	20.0	54.0	22.0	35.5	205.0	0.75
517.9046	46	22.0	62.0	22.0	39.5	265.0	1.05
517.9050	50	23.0	69.0	25.0	40.0	280.0	1.15
517.9055	55	25.5	76.0	25.0	42.5	290.0	1.40
517.9060	60	28.0	81.0	25.0	45.5	300.0	2.10
517.9065	65	30.5	90.0	30.0	49.0	345.0	2.30
517.9070	70	33.0	98.0	30.0	53.0	355.0	2.60
517.9075	75	35.5	105.0	30.0	55.0	365.0	3.00
517.9080	80	38.0	110.0	30.0	57.5	375.0	3.45
517.9085	85	40.5	125.0	30.0	59.0	385.0	3.80
517.9090	90	45.0	140.0	30.0	63.0	410.0	4.88
517.9095	95	45.0	140.0	30.0	63.0	410.0	5.67
517.9100	100	47.0	140.0	30.0	63.0	412.0	6.66
517.9105	105	47.0	143.0	30.0	63.0	415.0	7.50

Extension pipe for single ring spanner

- Four different sizes
- Matt finish
- Chrome vanadium

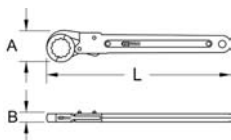


Item	mm	D mm	L mm	#	kg
517.9001	24 - 30	19.0	460.0	1	750
517.9002	32 - 41	22.0	610.0	2	1250
517.9003	46 - 55	25.0	760.0	3	2300
517.9004	60 - 105	30.0	860.0	4	2800



Ratchet ring spanner, clamp head

- 12 point
- Straight form
- With hanging hole
- From 27 mm with rubber handle
- Chrome plated handle
- Head phosphate finish
- Chrome vanadium



Item	mm	A mm	B mm	L mm	kg
500.5010	10	10.0	31.9	155.0	82
500.5011	11	11.0	31.9	155.0	83
500.5012	12	12.0	31.7	155.0	85
500.5013	13	13.0	32.0	155.0	90
500.5017	17	17.0	35.2	210.0	148
500.5019	19	19.0	37.2	210.0	156
500.5022	22	22.0	40.9	210.0	270
500.5024	24	24.0	41.1	219.0	280
500.5027	27	27.0	49.7	315.0	340
500.5032	32	32.0	53.5	319.0	510

Ratchet ring spanner set, clamp head

- 12 point
- Straight form
- With hanging hole
- From 27 mm with rubber handle
- Chrome plated handle
- Head phosphate finish
- Chrome vanadium

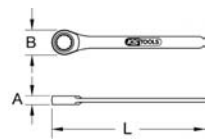


Item	6 pcs	10 - 11 - 13 - 17 - 19 - 22 mm	kg
500.5606	6 pcs	10 - 11 - 13 - 17 - 19 - 22 mm	980



Insulated ratchet ring spanner

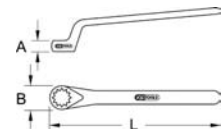
- FlankTraction profile
- In accordance to DIN 7446
- Insulated handle to DIN 60900
- Straight form
- Exact gearing with 72 teeth
- Chrome vanadium



Item	mm	A mm	B mm	L mm	1000V	kg
117.4206	6	6.7	14.4	126.0	1000V	0.03
117.4207	7	6.9	17.2	137.0	1000V	0.04
117.4208	8	6.9	17.2	140.0	1000V	0.04
117.4209	9	7.3	19.2	150.0	1000V	0.04
117.4210	10	7.7	21.2	159.0	1000V	0.06
117.4211	11	8.1	22.2	165.0	1000V	0.06
117.4212	12	8.6	23.2	172.0	1000V	0.08
117.4213	13	9.0	25.2	178.0	1000V	0.09
117.4214	14	9.4	28.2	191.0	1000V	0.12
117.4215	15	9.8	29.2	200.0	1000V	0.13
117.4216	16	10.3	31.2	208.0	1000V	0.16
117.4217	17	10.7	32.2	226.0	1000V	0.19
117.4218	18	11.1	33.2	237.0	1000V	0.23
117.4219	19	11.6	34.2	248.0	1000V	0.25
117.4221	21	13.4	40.4	274.0	1000V	0.36
117.4222	22	13.4	40.4	290.0	1000V	0.34
117.4224	24	14.9	46.4	323.0	1000V	0.49
117.4227	27	15.9	52.4	331.0	1000V	0.61
117.4228	30	17.4	59.2	389.0	1000V	0.90
117.4229	32	17.9	62.4	415.0	1000V	1.10
117.4230	34	17.9	62.4	460.0	1000V	1.25

Insulated ring spanner, offset

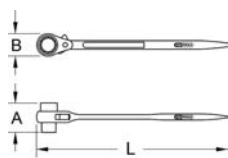
- FlankTraction profile
- In accordance to DIN 7447
- Insulated handle to DIN EN 60900
- Ring head 75° offset
- Chrome vanadium



Item	mm	A mm	B mm	L mm	1000V	kg
117.1306	6	6.1	13.6	160.0	1000V	55
117.1307	7	6.7	12.6	160.0	1000V	55
117.1308	8	7.1	14.0	170.0	1000V	60
117.1309	9	7.4	15.5	170.0	1000V	65
117.1310	10	7.8	17.0	170.0	1000V	80
117.1311	11	8.1	18.4	180.0	1000V	90
117.1312	12	10.2	19.9	190.0	1000V	100
117.1313	13	10.9	21.3	190.0	1000V	110
117.1314	14	11.3	22.8	210.0	1000V	160
117.1315	15	11.9	24.1	215.0	1000V	170
117.1316	16	12.2	25.7	220.0	1000V	200
117.1317	17	12.6	27.1	225.0	1000V	250
117.1318	18	13.2	28.6	230.0	1000V	270
117.1319	19	13.6	30.1	240.0	1000V	290
117.1322	22	13.9	34.4	260.0	1000V	320
117.1324	24	15.4	36.2	280.0	1000V	490
117.1327	27	16.4	40.4	295.0	1000V	540
117.1330	30	17.4	44.4	310.0	1000V	580
117.1332	32	18.4	47.4	330.0	1000V	590

Scaffold spanner, reversing

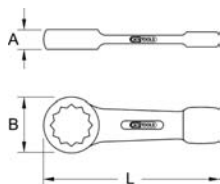
- FlankTraction profile (12 point)
- Exact gearing with 32 teeth
- Centering pin at the handle end
- Extremely substantial
- Reversing
- Phosphate finish
- Chrome vanadium



Item	mm	A mm	B mm	L mm	Weight
522.1013	10x13	36.5	31.0	240.0	200
522.1317	13x17	44.2	34.0	280.0	270
522.1618	16x18	49.0	42.1	315.0	450
522.1719	17x19	49.3	42.3	315.0	450
522.1922	19x22	49.5	42.3	315.0	450
522.1924	19x24	54.0	51.3	360.0	750
522.2427	24x27	54.0	51.6	360.0	750
522.2430	24x30	62.2	64.5	450.0	1280
522.3036	30x36	67.0	65.2	450.0	1300
522.3236	32x36	67.1	65.4	450.0	1300

Slogging ring ended spanner

- FlankTraction profile (12 point)
- DIN 7444
- Impact area
- For heavy duty applications
- Phosphate finish
- Chrome vanadium

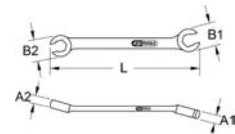


Item	mm	A mm	B mm	L mm	Weight
517.0924	24	15.0	42.5	160.0	360
517.0927	27	15.5	47.0	180.0	380
517.0930	30	16.5	52.5	190.0	500
517.0932	32	16.5	54.0	195.0	530
517.0936	36	19.5	60.0	205.0	750
517.0941	41	20.5	66.0	225.0	810
517.0946	46	22.5	75.0	240.0	980
517.0950	50	23.5	80.0	250.0	1250
517.0955	55	25.0	87.5	270.0	1750
517.0960	60	26.0	93.5	270.0	1960
517.0965	65	29.0	101.0	290.0	2180
517.0970	70	32.5	109.5	320.0	2400
517.0975	75	34.0	114.5	325.0	2760
517.0980	80	35.0	123.0	345.0	3750
517.0985	85	37.0	129.0	360.0	4860
517.0990	90	41.5	152.0	400.0	5880
517.0995	95	41.5	152.0	400.0	5880
517.0996	100	41.5	152.0	400.0	5880

OPEN DOUBLE RING SPANNERS

Open double ring spanner, offset

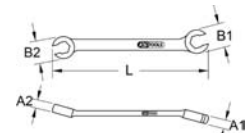
- 6 point
- DIN 3118
- Jaw 15° offset
- Opening 15° cranked
- Chrome vanadium



Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	Weight
517.0252	8x10	6.6	6.7	17.6	19.8	143.0	45
517.0253	9x11	7.6	7.4	21.3	22.9	152.0	50
517.0254	10x11	7.6	7.4	21.3	22.9	152.0	60
517.0255	10x12	7.6	7.4	21.3	22.9	152.0	80
517.0257	12x13	8.8	9.0	23.1	23.8	156.0	100
517.0258	12x14	10.0	9.9	25.3	27.6	178.0	110
517.0260	14x15	11.4	11.5	30.0	32.1	196.0	120
517.0261	14x17	11.4	11.5	30.0	32.1	196.0	140
517.0263	16x18	11.4	11.5	30.0	32.1	196.0	160
517.0264	17x19	11.4	11.5	30.0	32.1	196.0	180
517.0265	19x21	13.5	13.1	34.1	37.6	207.0	240
517.0266	19x22	13.5	13.1	34.1	37.6	207.0	240
517.0267	22x24	13.5	17.0	37.6	46.0	252.0	320
517.0268	24x27	17.0	16.2	46.0	42.3	264.0	430
517.0269	30x32	22.4	20.4	46.3	44.8	283.0	700

CHROMEplus® open double ring spanner, offset

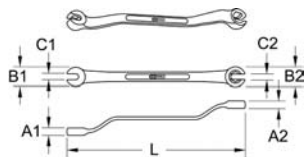
- 6 point
- DIN 3118
- Jaw 15° offset
- Opening 15° cranked
- Chrome plated and mirror polished
- Chrome vanadium



Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	Weight
518.0511	6x8	6.6	6.7	17.6	19.8	143.0	50
518.0512	8x12	6.7	7.4	19.8	21.3	147.0	50
518.0513	9x11	7.6	7.4	21.3	22.9	152.0	60
518.0523	10x11	7.6	7.4	21.3	22.9	152.0	60
518.0514	10x12	7.6	7.4	21.3	22.9	152.0	60
518.0524	12x13	8.8	9.0	23.1	23.8	156.0	80
518.0515	13x14	10.0	9.9	25.3	25.3	178.0	120
518.0525	14x15	11.4	11.5	30.0	30.0	196.0	170
518.0526	14x17	11.4	11.5	30.0	30.0	196.0	170
518.0516	15x17	11.4	11.5	30.0	30.0	196.0	170
518.0517	16x18	11.4	11.5	30.0	30.0	196.0	170
518.0518	17x19	11.4	11.5	30.0	30.0	196.0	170
518.0519	19x21	13.5	13.1	34.1	34.1	207.0	220
518.0520	19x22	13.5	13.1	34.1	34.1	207.0	220
518.0521	24x27	17.0	16.2	46.0	46.0	264.0	360
518.0522	30x32	22.4	20.4	46.3	46.3	283.0	480
518.0501	1/4" x 5/16"	6.6	6.7	17.6	19.8	143.0	50
518.0503	3/8" x 7/16"	7.6	7.4	21.3	22.9	152.0	60
518.0506	7/16" x 1/2"	8.8	9.0	23.1	23.8	158.0	80
518.0504	1/2" x 9/16"	10.0	9.9	25.3	27.6	178.0	120
518.0505	5/8" x 11/16"	11.4	11.5	30.0	32.1	196.0	170
518.0507	3/4" x 7/8"	13.5	13.1	34.1	37.6	207.0	220

Open double ring spanner, offset

- 6 point • Ring 30° offset
- Spanner has double sized head
- With heavy duty head
- For brake pipe couplers
- No slippage
- Chrome plated and mirror polished
- Chrome vanadium

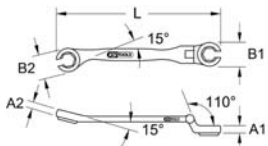


Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	C1 mm	C2 mm	L mm	g
517.0270	10x11	10.5	11.2	17.8	20.0	6.0	6.1	175.0	80

OPEN DOUBLE RING SPANNERS WITH FLEXIBLE JOINT

CHROMEplus® open double ring spanner, with flexible joint

- 6 point
- Ring head 15° offset
- Opening 15° cranked
- Revolving head
- chrome plated and mirror polished
- chrome vanadium



Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	g
518.0378	8	7.0	7.0	18.0	18.0	128.0	50
518.0379	9	7.0	7.0	18.0	18.0	128.0	50
518.0380	10	7.0	7.0	18.0	18.0	128.0	50
518.0381	11	9.0	9.0	22.0	22.0	148.0	120
518.0382	12	9.0	9.0	22.0	22.0	148.0	120
518.0383	13	11.0	11.0	26.0	26.0	175.0	140
518.0384	14	11.0	11.0	26.0	26.0	175.0	140
518.0387	17	13.0	13.0	32.0	32.0	190.0	200
518.0389	19	13.0	13.0	32.0	32.0	190.0	200

CHROMEplus® open double ring spanner set, with flexible joint

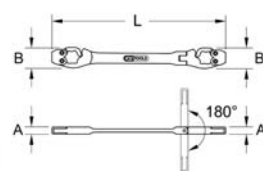
- 6 point
- Ring head 15° offset
- Opening 15° cranked
- Revolving head
- chrome plated and mirror polished
- chrome vanadium



Item	g
518.0350	3 pcs 10 - 11 - 12 mm 240
518.0360	5 pcs 8 - 9 - 10 - 11 - 12 mm 420
518.0370	3 pcs 14 - 17 - 19 mm 620

CHROMEplus® Ratchet Brake pipe spanner with revolving head

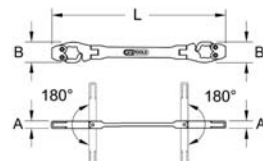
- 6 point
- Straight form
- 180° revolving head
- Ratchet function
- Suitable for force fit applications
- Chrome plated and mirror polished
- Chrome vanadium



Item	mm	A mm	B mm	L mm	g
518.0321	11	10.3	19.0	155.0	115

Ratchet spanner with revolving head

- 6 point
- Straight form
- 180° revolving head
- Ratchet function
- Suitable for force fit applications
- Chrome plated and mirror polished
- Chrome vanadium



Item	mm	A mm	B mm	L mm	g
518.0332	8x9	8.5	14.8	123.0	56
518.0334	10x11	10.0	18.4	156.0	116
518.0336	12x13	11.2	21.1	179.0	170
518.0338	14x15	12.1	24.6	208.0	240

Ratchet spanner set with revolving head

- 6 point
- Straight form
- 180° revolving head
- Ratchet function
- Suitable for force fit applications
- Chrome plated and mirror polished
- Chrome vanadium

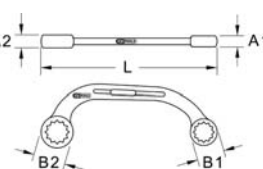


Item	g
518.0330	4 pcs 8x9 - 10x11 - 12x13 - 14x15 mm 600

DOUBLE RING SPANNERS

CHROMEplus® starter and block spanner

- FlankTraction profile (12 point)
- Especially suitable for narrow hard to access areas
- Chrome plated and mirror polished
- Chrome vanadium



Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	g
518.0852	10x12	6.5	6.6	15.6	17.9	142.0	57
518.0853	11x13	8.0	8.2	17.9	20.7	164.0	90
518.0856	14x17	8.2	9.2	21.4	25.1	190.0	133
518.0857	16x18	8.8	9.6	24.8	27.7	216.0	166
518.0859	19x22	10.0	11.1	27.6	33.0	255.0	244

CHROMEplus® starter and block spanner set

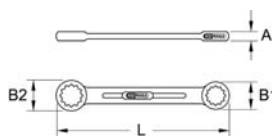
- FlankTraction profile (12 point)
- Especially suitable for narrow hard to access areas
- Mirror polished chrome
- Chrome vanadium



Item			kg
518.0850	5 pcs	10x12 - 11x13 - 14x17 - 16x18 - 19x22 mm	860

ULTIMATEplus double ring ended spanner

- FlankTraction profile (12 point)
- In accordance to DIN / ISO
- Straight form
- Matt finish
- Chrome vanadium



Item	mm	A mm	B1 mm	B2 mm	L mm	kg
920.0406	6x7	4.5	10.0	11.5	99.0	10
920.0408	8x9	5.2	13.0	11.5	114.0	15
920.0410	10x11	5.8	16.0	17.0	131.0	28
920.0411	10x13	6.4	16.0	20.5	149.0	35
920.0412	12x13	6.4	19.0	20.5	149.0	35
920.0414	14x15	7.2	21.5	23.0	161.0	50
920.0416	16x17	7.8	24.5	25.5	169.0	65
920.0417	17x19	8.5	25.5	28.0	186.0	80
920.0418	18x19	8.5	27.0	28.0	186.0	80
920.0419	19x22	9.4	28.0	32.5	209.0	115
920.0420	20x22	9.4	29.5	32.5	209.0	120
920.0421	21x23	10.0	30.5	33.5	233.0	145
920.0422	22x24	10.0	32.5	35.5	233.0	150
920.0424	24x26	10.8	35.5	38.0	261.0	190
920.0425	24x27	10.8	35.5	39.0	260.0	200
920.0426	25x28	11.6	36.5	41.0	289.0	240
920.0427	27x32	12.6	39.0	46.0	320.0	320
920.0430	30x32	12.6	43.5	46.0	320.0	340

ULTIMATEplus straight double open ended spanner set

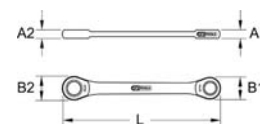
- FlankTraction profile (12 point)
- In accordance to DIN / ISO
- Straight form
- Matt finish
- Chrome vanadium



Item			kg
920.0448	8 pcs	6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 mm	0.66
920.0450	12 pcs	6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 - 21x23 - 24x27 - 25x28 - 30x32 mm	1.69

GEARplus® double ratchet ring spanner

- FlankTraction profile (12 point)
- In accordance to DIN 3110 / ISO 3318
- Straight form
- Exact gearing with 72 teeth
- Chrome plated and mirror polished
- Chrome vanadium



Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	kg
503.4502	8x9	6.5	6.9	16.8	20.2	128.0	60
503.4511	8x10	7.3	6.5	20.0	17.0	128.0	40
503.4503	10x11	7.3	7.7	20.2	20.2	150.0	80
503.4512	10x13	7.3	8.6	20.2	20.2	150.0	80
503.4504	12x13	8.2	8.6	23.0	23.0	170.0	100
503.4505	14x15	9.0	9.4	26.5	26.5	190.0	140
503.4506	16x18	9.9	10.7	29.5	29.5	210.0	180
503.4507	17x19	10.3	11.2	31.5	31.5	230.0	220
503.4402	5/16" x 3/8"	6.5	7.3	16.8	20.2	128.0	40
503.4403	7/16" x 1/2"	7.7	8.6	23.0	24.8	170.0	80
503.4404	9/16" x 5/8"	9.0	9.9	26.5	29.5	190.0	125
503.4405	11/16" x 3/4"	10.3	11.2	31.5	33.5	230.0	200

GEARplus® double ratchet ring spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3310 / ISO 3318
- Straight form
- Exact gearing with 72 teeth
- Chrome plated and mirror polished
- Chrome vanadium



Item			kg
503.4552	2 pcs	10x13 - 17x19 mm	790

GEARplus® double ratchet ring spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3310 / ISO 3318
- Straight form
- Exact gearing with 72 teeth
- Chrome plated and mirror polished
- Chrome vanadium
- Supplied in a leather pouch



Item			kg
503.4557	6 pcs	8 x 9 - 10x11 - 12x13 - 14x15 - 16x18 - 17x19 mm	790

GEARplus® double ratchet ring spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3310 / ISO 3318
- Straight form
- Exact gearing with 72 teeth
- Chrome plated and mirror polished
- Chrome vanadium
- In durable plastic storage case



Item				
503.4556	6 pcs	GEARplus® double ratchet ring spanner set		790
6 x		8x9 - 10x11 - 12x13 - 14x15 - 16x18 - 17x19 mm		

GEARplus® double ratchet ring spanner set

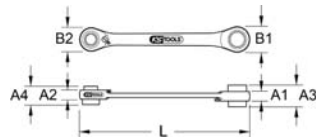
- FlankTraction profile (12 point)
- In accordance to DIN 3310 / ISO 3318
- Straight form
- Exact gearing with 72 teeth
- Square drive adaptor to DIN 3120 - ISO 1174 with ball lock
- For bits to DIN 3126 / C 6,3
- Chrome plated and mirror polished
- Chrome vanadium
- In durable plastic storage case



Item				
503.4560	10 pcs	GEARplus® double ratchet ring spanner set		790
6 x		8x9 - 10x11 - 12x13 - 14x15 - 16x18 - 17x19 mm		
1 x		1/4"		
3 x		1/4" - 3/8" - 1/2"		

4 in 1 GEARplus® reversing double ratchet ring spanner

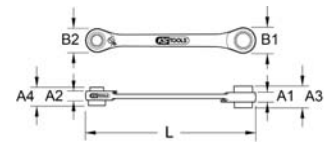
- FlankTraction profile (12 point)
- In accordance to DIN 3110 / ISO 3318
- Straight form
- Exact gearing with 72 teeth
- Four different sizes on each spanner
- With reverse lever
- High quality finish
- Chrome vanadium



Item		A1 mm	A2 mm	A3 mm	A4 mm	B1 mm	B2 mm	L mm	
503.4541	8x11-9x10	7.7	7.3	14.6	13.8	21.8	20.0	150.0	68
503.4656	8x10-12x13	8.6	7.3	16.8	13.8	24.8	16.8	150.0	86
503.4543	12x15-13x14	9.4	9.0	18.0	17.1	29.5	18.0	190.0	147
503.4565	10x19-13x17	11.2	9.0	21.9	17.1	33.6	21.9	190.0	196
503.4546	16x19-17x18	11.2	10.3	21.9	20.2	33.5	21.9	230.0	244
503.4657	14x17-18x19	11.2	10.3	21.9	19.3	33.5	21.9	230.0	245

4 in 1 GEARplus® reversing double ratchet ring spanner

- FlankTraction profile (12 point)
- In accordance to DIN 3110 / ISO 3318
- Straight form
- Exact gearing with 72 teeth
- Four different sizes on each spanner
- With reverse lever
- High quality finish
- Chrome vanadium



Item		A1 mm	A2 mm	A3 mm	A4 mm	B1 mm	B2 mm	L mm	
503.4586	5/16"x1/2"-3/8"x7/16"	8.6	7.3	16.8	13.8	24.8	20.2	150.0	91
503.4589	9/16"x3/4"-5/8"x11/16"	11.2	10.3	21.9	19.3	33.5	31.5	230.0	238

4 in 1 GEARplus® reversing double ratchet ring spanner

- FlankTraction profile (12 point)
- In accordance to DIN 3110 / ISO 3318
- Straight form
- Exact gearing with 72 teeth
- Four different sizes on each spanner
- With reverse lever
- High quality finish
- Chrome vanadium



Item				
503.4655	2 pcs	8x13 - 10x12 - 14x17 - 18x19 mm		340

4 in 1 GEARplus® reversing double ratchet ring spanner set

- FlankTraction profile (12 point)
- Straight form
- Exact gearing with 72 teeth
- Four different sizes on each spanner
- With reverse lever
- High quality finish
- Chrome vanadium



Item				
503.4585	2 pcs	5/16"x1/2" - 7/16"x3/8" - 9/16"x3/4" - 11/16"x5/8"		300

4 in 1 GEARplus® reversing double ratchet ring spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3110 / ISO 3318
- Straight form
- Exact gearing with 72 teeth
- Four different sizes on each spanner
- With reverse lever
- High quality finish
- Chrome vanadium



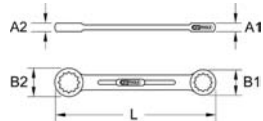
Item				
503.4540	3 pcs	8x11 - 9x10 - 12x15 - 13x14 - 16x19 - 17x18 mm		500



OPEN DOUBLE RING SPANNERS, EXTRA LONG

CHROMEplus® double ring spanner set, extra long

- FlankTraction profile (12 point)
- Thin walled
- Mirror polished chrome
- Chrome vanadium



Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	kg
518.0821	8x10	7.5	8.4	12.5	15.0	235.0	72
518.0822	10x11	8.5	9.5	14.3	17.0	291.0	95
518.0823	12x14	10.4	11.3	17.8	20.3	328.0	157
518.0824	13x15	11.5	13.2	20.2	23.3	386.0	217
518.0825	16x18	13.0	14.8	23.7	26.6	407.0	284
518.0826	17x19	13.0	14.8	23.7	26.6	407.0	284
518.0827	20x21	13.5	15.2	27.5	29.7	415.0	376
518.0828	22x24	15.4	17.7	31.3	34.0	430.0	482

CHROMEplus® double ring spanner set, extra long

- FlankTraction profile (12 point)
- Thin walled
- Chrome plated and mirror polished
- Chrome vanadium

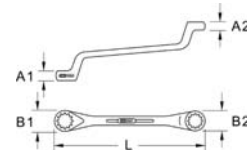


Item	kg
518.0800 6 pcs 10x11 - 12x14 - 13x15 - 16x18 - 17x19 22x24 mm	1.30

OPEN DOUBLE RING SPANNERS, OFFSET

Double ring spanner, offset

- FlankTraction profile (12 point)
- DIN 838 / ISO 1085 / ISO 10104 / ISO 3318
- Ring head 75° offset
- Thin walled
- Polished heads
- Matt finish
- Chrome vanadium



Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	kg
517.0801	6x7	5.2	5.6	10.3	11.8	175.0	50
517.0802	8x9	6.3	6.4	12.9	14.2	185.0	65
517.0804	10x11	7.2	7.5	16.0	16.9	193.0	85
517.0806	10x13	7.2	9.0	16.0	20.0	215.0	115
517.0807	12x13	8.2	9.0	18.5	20.0	215.0	120
517.0808	13x17	9.0	11.0	20.0	25.2	245.0	170
517.0809	14x15	9.5	10.0	21.5	22.9	225.0	150
517.0835	14x17	9.5	11.0	21.5	25.2	245.0	180
517.0810	16x17	10.3	11.0	24.7	25.2	245.0	195
517.0811	17x19	11.0	11.2	25.2	28.0	283.0	225
517.0812	18x19	10.6	11.2	26.1	28.0	283.0	230
517.0814	19x22	11.2	12.5	28.0	32.2	290.0	295
517.0813	20x22	11.7	12.5	30.5	32.2	290.0	300
517.0815	21x23	12.2	12.5	30.7	33.8	310.0	320
517.0816	24x27	12.7	13.7	36.0	40.0	325.0	430
517.0817	24x30	12.7	14.5	36.0	42.5	340.0	545
517.0818	30x32	14.5	15.1	42.5	46.0	357.0	590
517.0819	27x32	13.7	15.1	40.0	46.0	357.0	640
517.0821	32x36	15.1	17.0	46.0	52.0	400.0	880
517.0825	36x41	17.7	19.7	53.2	61.1	440.0	1100

Double ring spanner set, offset

- 12 point
- DIN 838 / ISO 1085 / ISO 10104 / ISO 3318
- Ring head 75° offset
- Thin walled
- Polished heads
- Matt finish
- Chrome vanadium

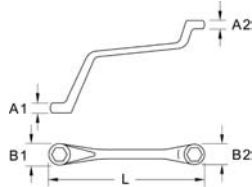


Item	kg
517.0248 8 pcs 6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 18x19 - 20x22 mm	1.12
517.0222 11 pcs 6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 20x22 - 21x23 - 24x27 - 30x32 mm	2.80



CLASSIC Brake bleeding spanner

- 6 point
- Ring head cranked and offset
- For bleeding the brakes without dismantling of the wheels
- Matt finish
- Chrome vanadium



Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	kg
518.0307	7	5.3	5.6	12.9	12.1	190.0	60
518.0308	8	7.5	7.0	16.0	15.8	211.0	130
518.0309	9	7.4	6.9	16.0	15.9	211.0	130
518.0310	10	7.3	7.1	17.5	16.9	236.0	135
518.0311	11	7.2	7.0	17.3	16.9	236.0	135

CLASSIC Brake bleeding spanner set

- 6 point
- Ring head cranked and offset
- For bleeding the brakes without dismantling of the wheels
- Matt finish
- Chrome vanadium
- In plastic leather case

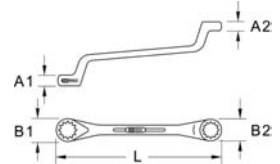


Item	kg
518.0300 5 pcs 7 - 8 - 9 - 10 - 11 mm	1.20



CHROMEplus® double ring spanner set, offset

- FlankTraction profile
- DIN 838 / ISO 3318 / ISO 1085 / ISO 10104
- Ring head 75° offset
- Thin walled
- Chrome plated and mirror polished
- Chrome vanadium



Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	kg
518.0801	6x7	5.9	6.6	10.2	12.5	168.0	52
518.0802	8x9	7.0	7.1	13.7	15.5	183.0	68
518.0804	10x11	7.5	7.5	16.8	18.2	198.0	92
518.0807	12x13	8.3	7.8	19.8	21.6	217.0	139
518.0809	14x15	9.0	9.1	22.7	24.7	239.0	167
518.0810	16x17	9.2	9.5	25.3	26.0	260.0	198
518.0811	17x19	10.3	10.8	28.6	29.8	292.0	263
518.0812	18x19	10.3	10.8	28.6	29.8	292.0	263
518.0814	20x22	10.4	11.4	31.1	34.6	318.0	319
518.0815	21x23	10.8	11.9	32.5	35.6	327.0	352
518.0816	24x27	11.8	13.7	36.5	41.4	339.0	466
518.0818	30x32	13.1	14.6	46.1	49.3	362.0	607
518.3101	1/4" x 5/16"	5.4	6.0	10.8	13.1	165.0	40
518.3102	5/16" x 3/8"	6.4	7.0	14.7	16.2	170.0	58
518.3103	3/8" x 7/16"	6.9	7.6	16.3	18.6	195.0	73
518.3104	1/2" x 9/16"	8.6	9.0	19.8	21.0	206.0	116
518.3105	9/16" x 5/8"	8.8	9.3	21.4	24.8	232.0	134
518.3106	5/8" x 11/16"	10.2	10.4	24.3	26.2	237.0	191
518.3107	11/16" x 3/4"	11.1	11.6	27.8	29.3	270.0	269
518.3108	3/4" x 7/8"	11.4	12.0	28.7	32.4	292.0	327
518.3109	7/8" x 15/16"	11.6	12.3	21.1	34.4	327.0	345
518.3110	13/16" x 7/8"	11.6	12.3	21.1	34.4	327.0	345
518.3111	15/16" x 1"	14.0	14.1	34.4	36.5	362.0	517
518.3112	1" x 1.1/8"	13.7	15.2	39.6	42.1	372.0	625
518.3113	1.1/8" x 1.1/4"	17.2	18.6	44.4	48.3	392.0	880

CHROMEplus® double ring ended spanner set

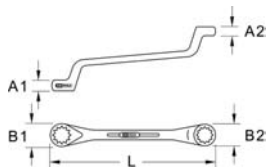
- FlankTraction profile (12 point)
- DIN 838 / ISO 3318 / ISO 1085 / ISO 10104
- Ring head 75° offset
- Thin walled
- Chrome plated and mirror polished
- Chrome vanadium



Item	kg
518.0847 7 pcs 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 mm	1.03
518.0843 3 pcs 21x23 - 24x27 - 30x32 mm	1.51
518.3120 6 pcs 1/4"x5/16" - 3/8"x7/16" - 1/2"x9/16" - 9/16"x5/8" - 11/16"x3/4" - 13/16"x7/8"	1.10
518.3100 8 pcs 1/4"x5/16" - 3/8"x7/16" - 1/2"x9/16" - 9/16"x5/8" - 11/16"x3/4" - 13/16"x7/8" - 15/16"x1" - 1.1/8"x1.1/4"	2.46

ULTIMATEplus double ring spanner set, offset

- FlankTraction profile (12 point)
- DIN 838 / ISO 3318 / ISO 1085 / ISO 10104
- Ring head 75° offset
- High quality finish
- Chrome vanadium



Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	Weight
920.0206	6x7	5.9	6.6	10.2	12.5	168.0	52
920.0208	8x9	7.0	7.1	13.7	15.5	183.0	68
920.0210	10x11	7.5	7.5	16.8	18.2	198.0	92
920.0212	12x13	8.3	7.8	19.8	21.6	217.0	139
920.0214	14x15	9.0	9.1	22.7	24.7	239.0	167
920.0216	16x17	9.2	9.5	25.3	26.0	260.0	198
920.0217	17x19	10.3	10.8	28.6	29.8	292.0	263
920.0218	18x19	10.3	10.8	28.6	29.8	292.0	263
920.0220	20x22	10.4	11.4	31.1	34.6	318.0	319
920.0221	21x23	10.8	11.9	32.5	35.6	327.0	352
920.0224	24x27	11.8	13.7	36.5	41.4	339.0	466
920.0230	30x32	13.1	14.6	46.1	49.3	362.0	607
920.0281	1/4" x 5/16"	5.9	6.6	10.2	12.5	168.0	52
920.0282	3/8" x 7/16"	7.5	7.5	16.8	18.2	198.0	92
920.0283	1/2" x 9/16"	9.0	9.1	22.7	24.7	239.0	167
920.0284	5/8" x 11/16"	9.2	9.5	25.3	26.0	260.0	198
920.0285	3/4" x 25/32"	10.4	11.4	31.1	34.6	318.0	319
920.0286	13/16" x 7/8"	10.8	11.9	32.5	35.6	327.0	352
920.0287	15/16" x 1"	11.8	13.7	36.5	41.4	339.0	466
920.0288	1.1/16" x 1.1/4"	13.1	14.6	46.1	49.3	362.0	607

ULTIMATEplus double ring ended spanner set, offset

- FlankTraction profile (12 point)
- DIN 838 / ISO 3318 / ISO 1085 / ISO 10104
- Ring head 75° offset
- High quality finish
- Chrome vanadium



Item	Weight
920.0248 8 pcs 6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 mm	1.12
920.0249 11 pcs 6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 - 21x23 - 24x27 - 30x32 mm	1.80
920.0280 8 pcs 1/4"x5/16" - 3/8"x7/16" - 1/2"x9/16" - 5/8"x11/16" - 3/4"x25/32" - 13/16"x7/8" - 15/16"x1" - 1.1/16"x1.1/4"	2.35

Double ring spanner set for TX-E profile, offset

- TX-E-Profile
- Ring head 75° offset
- Thin walled
- Matt finish
- Chrome vanadium



Item	Weight
911.0360 6 pcs E6xE8 - E7xE11 - E10xE12 - E14xE18 - E16xE22 - E20xE24	800

GEARplus® reversing double ratchet ring spanner

- FlankTraction profile (12 point)
- In accordance to DIN 3110 / ISO 3318
- Ratchet head 15° offset
- Exact gearing with 72 teeth
- With reverse lever
- High quality finish
- Chrome vanadium



Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	Weight
503.4571	8x9	6.9	6.5	20.2	16.8	128.0	60
503.4572	8x10	7.4	6.7	20.2	16.7	128.0	65
503.4573	10x11	7.7	7.3	21.8	20.2	150.0	70
503.4574	10x13	8.7	7.4	25.4	20.5	150.0	80
503.4575	12x13	8.6	8.2	24.8	23.0	170.0	100
503.4576	14x15	9.4	9.0	29.5	26.5	190.0	140
503.4577	16x18	10.7	9.9	33.5	29.5	210.0	180
503.4578	17x19	11.2	10.3	33.5	31.5	230.0	220

GEARplus® double reversing ratchet ring spanner

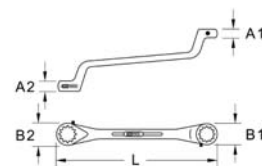
- FlankTraction profile (12 point)
- In accordance to DIN 3110 / ISO 3318
- Ratchet head 15° offset
- Exact gearing with 72 teeth
- With reverse lever
- High quality finish
- Chrome vanadium
- Supplied in a leather pouch



Item	Weight
503.4580 6 pcs 8x9 - 10x11 - 12x13 - 14x15 - 16x18 - 17x19 mm	790

Ratchet ring spanner, reversing

- FlankTraction profile (12 point)
- In accordance to DIN 838 / ISO 1085
- Ring head 75° offset
- Reversing
- Exact gearing with 72 teeth
- Matt finish
- Chrome vanadium



Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	Weight
520.1011	10x11	11.5	11.7	23.3	25.1	210.0	180
520.1214	12x14	12.1	12.4	26.4	30.8	245.0	260
520.1317	13x17	13.2	13.3	31.5	36.3	265.0	360
520.1516	15x16	14.6	14.7	33.1	34.9	260.0	420
520.1922	19x22	16.1	16.2	39.8	43.8	325.0	600
520.2427	24x27	17.7	17.9	47.4	51.6	390.0	800
520.3032	30x32	19.7	19.9	55.1	57.1	410.0	1300

Ratchet ring spanner set, reversing

- FlankTraction profile (12 point)
- In accordance to DIN 838 / ISO 1085
- Ring head 75° offset
- Reversing
- Exact gearing with 72 teeth
- Matt finish
- Chrome vanadium



Item			kg
520.1000	5 pcs	10x11 - 12x14 - 13x17 - 15x16 - 19x22 mm	1.85
520.1100	7 pcs	10x11 - 12x14 - 13x17 - 15 x 16 - 19x22 - 24x27 - 30x32 mm	4.05

GEARplus® Universal double ratchet ring spanner set

- 6 point
- Ratchet head 15° offset
- Exact gearing with 72 teeth
- Reversing
- With go through facility
- The collar on each insert prevents any slippage
- Especially suitable for narrow hard to access areas
- Matt finish
- Chrome vanadium
- Supplied in a aluminium box



Item			kg
503.4625	8 pcs		500
1 x		14 x 19 mm	
7 x		5/16" - 3/8" - 7/16" - 1/2" - 9/16" - 5/8" - 11/16"	

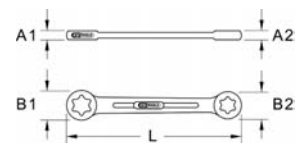
Item			kg
503.4645	10 pcs		500
1 x		14 x 19 mm	
9 x		8 - 9 - 10 - 11 - 12 - 13 - 15 - 16 - 17 mm	

Item			kg
503.4660	19 pcs		660
1 x		14 x 19 mm	
9 x		8 - 9 - 10 - 11 - 12 - 13 - 15 - 16 - 17	
9 x		E8 - E10 - E11 - E12 - E14 - E16 - E18 - E20 - E22	

DOUBLE RING SPANNERS FOR TX-E PROFILE

Double ring spanner for TX-E profile

- TX-E profile
- Straight form
- Thin walled
- Matt finish
- Chrome vanadium



Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	kg
911.0371	6x8	4.2	5.3	7.3	9.7	114.0	20
911.0372	7x11	5.2	7.2	10.8	14.8	130.0	50
911.0373	10x12	6.5	7.7	12.3	15.1	141.0	40
911.0374	14x18	8.2	10.3	17.0	21.1	180.0	90
911.0375	16x22	8.4	11.8	19.7	27.3	205.0	130
911.0376	20x24	11.0	12.6	23.9	27.9	224.0	170

Double ring spanner set for TX-E profile

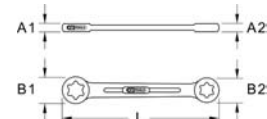
- TX-E profile
- Straight form
- Thin walled
- Matt finish
- Chrome vanadium



Item			kg
911.0370	6 pcs	E6xE8 - E7xE11 - E10xE12 - E14xE18 - E16xE22 - E20xE24	410

CHROMEplus® Double ring spanner for TX-E-Profile

- TX-E profile
- Straight form
- Thin walled
- Chrome plated and mirror polished
- Chrome vanadium



Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	kg
518.0861	E6 x E8	4.2	5.3	7.3	9.7	114.0	17
518.0862	E10 x E12	6.5	7.7	12.3	15.1	141.0	36
518.0863	E14 x E18	8.2	10.3	17.0	21.1	180.0	88
518.0864	E20 x E24	11.0	12.6	23.9	27.9	224.0	165

CHROMEplus® Double ring spanner set for TX-E-Profile

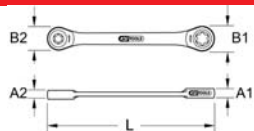
- TX-E profile
- Straight form
- Thin walled
- Chrome plated and mirror polished
- Chrome vanadium



Item			kg
518.0860	4 pcs	E6xE8 - E10xE12 - E14xE18 - E20xE24	410

GEARplus® Double ring ratchet spanner for TX-E profile

- TX-E profile
- Straight form
- Exact gearing with 72 teeth
- Chrome plated and mirror polished
- Chrome vanadium



Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	g
503.4351	6x8	6.5	6.9	16.8	20.2	128.0	70
503.4353	10x12	7.3	7.7	20.2	21.8	150.0	60
503.4355	14x18	9.0	9.9	26.5	29.5	190.0	150
503.4357	20x24	10.3	11.2	31.5	33.5	230.0	230

GEARplus® Double ring ratchet spanner set for TX-E profile

- TX-E profile
- Straight form
- Exact gearing with 72 teeth
- Chrome plated and mirror polished
- Chrome vanadium

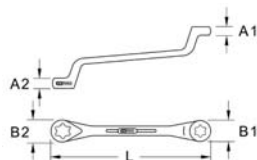


Item	g
503.4364	4 pcs E6xE8 - E10xE12 - E14xE18 - E20xE24



Double ring spanner for TX-E profile, offset

- TX-E profile
- Ring head 75° offset
- Thin walled
- Matt finish
- Chrome vanadium



Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	g
911.0361	6x8	5.5	6.2	10.0	12.3	147.0	32
911.0362	7x11	5.6	7.0	11.3	14.5	159.0	43
911.0363	10x12	5.9	6.8	13.5	15.5	175.0	50
911.0364	14x18	7.7	9.3	17.3	21.7	215.0	108
911.0365	16x22	8.1	11.6	20.1	27.4	234.0	157
911.0366	20x24	11.3	13.3	23.5	28.2	262.0	223

FLEXIBLE SPANNERS

Double revolving head spanner

- FlankTraction profile (12 point)
- Revolving head
- Extra large pivoting range
- Suitable for a wide range of applications
- Especially suitable for narrow hard to access areas
- Matt finish
- Chrome vanadium



Item	mm	B1 mm	B2 mm	L mm	g
517.0300	6x7	10.5	11.2	198.0	90
517.0301	8x9	12.3	12.7	198.0	91
517.0302	10x11	14.8	15.7	216.0	118
517.0303	12x13	18.7	18.9	223.0	172
517.0304	14x15	20.8	20.9	245.0	214
517.0305	16x17	22.7	23.8	257.0	282
517.0306	18x19	25.7	25.8	273.0	359
517.0307	20x22	27.7	30.0	297.0	486
517.0308	21x23	27.7	32.0	297.0	492

Double revolving head spanner set

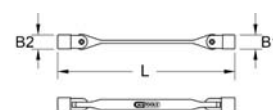
- FlankTraction profile (12 point)
- Revolving head
- Extra large pivoting range
- Suitable for a wide range of applications
- Especially suitable for narrow hard to access areas
- Matt finish
- Chrome vanadium



Item	g
517.0310	6 pcs 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 mm

Double revolving head spanner for TX-E profile

- TX-E profile
- Revolving head
- Extra large pivoting range
- Especially suitable for narrow hard to access areas
- Matt finish
- Chrome vanadium



Item	mm	B1 mm	B2 mm	L mm	g
517.0330	E6 x E8	12.9	12.9	200.0	85
517.0332	E10 x E12	14.6	16.0	220.0	130
517.0333	E14 x E16	19.1	20.9	245.0	190
517.0334	E18 x E20	21.9	22.8	255.0	270
517.0335	E22 x E24	25.9	25.9	270.0	370

TX-E profile double headed revolving wrench set

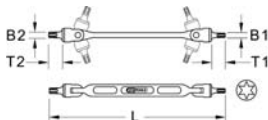
- TX-E profile
- Revolving head
- Extra large pivoting range
- Especially suitable for narrow hard to access areas
- Matt finish
- Chrome vanadium



Item			kg
517.0340	5 pcs	E6xE8 - E10xE12 - E14xE16 - E18xE20 E22xE24	1.00

Double revolving head spanner for TX

- TX profile
- Revolving head
- Extra large pivoting range
- Especially suitable for narrow hard to access areas
- Matt finish
- Chrome vanadium



Item		B1 mm	B2 mm	T1 mm	T2 mm	L mm	kg
517.0315	T15 x T20	14.7	14.7	7.9	7.9	225.0	110
517.0316	T25 x T27	15.0	15.0	9.0	9.0	225.0	130
517.0317	T30 x T40	14.8	14.8	8.7	8.7	225.0	150
517.0318	T45 x T50	16.9	16.9	12.4	12.4	245.0	190
517.0319	T55 x T60	17.0	17.0	13.5	13.5	245.0	250

Double revolving head spanner set for TX

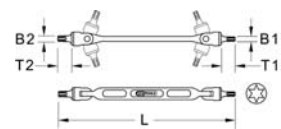
- TX profile
- Revolving head
- Extra large pivoting range
- Especially suitable for narrow hard to access areas
- Matt finish
- Chrome vanadium



Item			kg
517.0320	5 pcs	T15xT20 - T25xT27 - T30xT40 - T45xT50 T55xT60	650

Hexagonal double revolving head wrench

- 6 point
- Revolving head
- Extra large pivoting range
- Especially suitable for narrow hard to access areas
- Matt finish
- Chrome vanadium

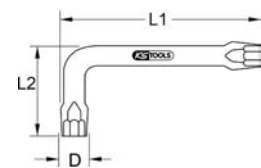


Item	mm	B1 mm	B2 mm	T1 mm	T2 mm	L mm	kg
517.0341	3x4	12.0	12.0	5.8	4.5	205.0	90
517.0342	5x6	12.0	12.0	6.7	6.0	218.0	105
517.0343	8x10	15.0	14.9	8.7	10.1	225.0	190

BOX SPANNERS

Double box spanner

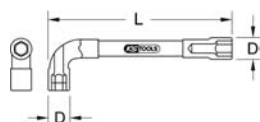
- 6 point
- Ring head 90° offset
- Mirror polished chrome
- Chrome vanadium



Item	mm	D mm	L1 mm	L2 mm	kg
517.1008	8	13.0	254.0	100.0	220
517.1009	9	13.0	254.0	100.0	230
517.1010	10	15.0	254.0	100.0	340
517.1011	11	16.5	254.0	100.0	360
517.1012	12	17.5	254.0	100.0	370
517.1013	13	19.0	254.0	100.0	375
517.1014	14	20.0	254.0	100.0	390
517.1015	15	21.5	254.0	100.0	540
517.1016	16	23.0	254.0	100.0	560
517.1017	17	24.5	254.0	100.0	590
517.1018	18	25.5	254.0	100.0	600
517.1019	19	27.0	254.0	100.0	740

Double box spanner with go through centre

- 6 point
- Ring head 90° offset
- With go through function
- Chrome plated and mirror polished
- Chrome vanadium



Item	mm	D mm	L mm	#
517.0406	6	10.0	102.0	46
517.0407	7	11.0	106.0	57
517.0408	8	12.5	114.0	65
517.0409	9	13.5	122.0	86
517.0410	10	15.0	129.0	108
517.0411	11	16.5	136.0	133
517.0412	12	18.0	144.0	158
517.0413	13	19.5	152.0	181
517.0414	14	21.0	160.0	229
517.0415	15	22.5	169.0	255
517.0416	16	24.0	178.0	320
517.0417	17	25.5	187.0	349
517.0418	18	26.5	195.0	407
517.0419	19	28.0	204.0	449
517.0420	20	29.5	212.0	513
517.0421	21	30.5	221.0	556
517.0422	22	32.0	230.0	658
517.0423	23	33.5	240.0	764
517.0424	24	34.5	250.0	832
517.0427	27	38.0	296.0	1243
517.0430	30	42.0	330.0	1565
517.0432	32	44.5	350.0	1842
517.0436	36	49.5	380.0	2396

Double box spanner set, offset

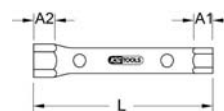
- 6 point
- Ring head 90° offset
- With go through function
- Chrome plated and mirror polished
- Chrome vanadium



Item	#	mm	#
517.0450	9 pcs	8 - 9 - 10 - 11 - 12 - 13 - 14 - 17 - 19 mm	1.55
517.0451	11 pcs	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 17 - 19 mm	1.60
517.0452	8 pcs	8 - 10 - 11 - 13 - 17 - 19 - 22 - 24 mm	2.35
517.0453	21 pcs	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 27 - 30 - 32 mm	8.40
517.0454	26 pcs	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25 - 26 - 27 - 28 - 29 - 30 - 32 mm	15.90
517.0455	13 pcs	8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 24 mm	4.56

Pipe head spanner

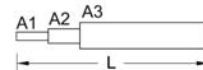
- 6 point
- DIN 896 / ISO 2236 / ISO 1085
- With hollow shaft
- Matt finish
- Chrome vanadium



Item	mm	A1 mm	A2 mm	L mm	#	#
518.0870	6x7	10.0	11.0	100.0	1,2,3	27
518.0871	8x9	11.0	12.0	110.0	1,2,3	43
518.0872	10x11	12.5	13.0	120.0	1,2,3	63
518.0881	10x13	13.0	14.5	140.0	2,3	80
518.0873	12x13	14.0	14.5	130.0	2,3	96
518.0874	14x15	15.0	16.0	140.0	2,3	132
518.0875	16x17	16.0	17.0	150.0	2,3	155
518.0882	17x19	17.0	20.0	160.0	2,3	160
518.0876	18x19	18.0	20.0	160.0	2,3	187
518.0877	20x22	20.0	21.0	170.0	2,3	275
518.0878	21x23	20.0	20.0	180.0	2,3	310
518.0883	24x26	24.0	26.0	190.0	4	365
518.0879	24x27	24.0	26.0	190.0	4	365
518.0880	30x32	27.0	31.0	220.0	4	610
518.0884	36x41	32.0	35.0	220.0	5	650
518.0885	41x46	35.0	38.0	240.0	5	950
518.0886	46x50	38.0	40.0	240.0	5	1050

Tommy bar for box spanner

- Hardened
- Matt finish
- Chrome vanadium



Item	mm	A1 mm	A2 mm	A3 mm	L mm	#	#
518.0865	6x7-10x11	6.0	6.0	6.0	115.0	1	40
518.0866	6x7-21x23	5.8	8.0	9.5	160.0	2	80
518.0867	6x7-21x27	6.0	9.5	9.5	160.0	3	190
518.0868	24x26-30x32	14.0	14.0	14.0	204.0	4	260
518.0869	36x41-46x50	15.6	15.6	15.6	253.0	5	370

Box wrench sets

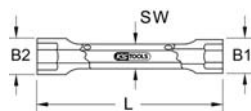
- 6 point
- DIN 896 / ISO 2236 / ISO 1085
- With hollow shaft
- Matt finish
- Chrome vanadium



Item	#	#
518.0900	10 pcs	Box wrench sets
8 x		6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 mm
2 x		6-11 + 10-22 mm

Double box spanner

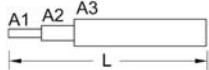
- FlankTraction profile (12 point)
- DIN 896 Form A / ISO 2236
- Extremely versatile
- With centre hole
- Can use a ring spanner to drive
- Matt finish
- Chrome vanadium



Item	mm	B1 mm	B2 mm	SW mm	L mm		kg
518.0406	6x7	9.0	10.0	8,0	100.0	1	27
518.0408	8x9	11.5	12.5	9,0	110.0	1	43
518.0410	10x11	14.0	15.0	11,0	120.0	1	63
518.0412	12x13	16.5	17.5	13,0	130.0	2	96
518.0414	14x15	19.5	20.0	14,0	140.0	2	132
518.0416	16x17	21.0	22.0	16,0	150.0	2	155
518.0418	18x19	23.0	24.0	18,0	160.0	2	187
518.0420	20x22	26.0	28.0	20,0	170.0	2	275
518.0421	21x23	27.0	29.0	21,0	180.0	2	310
518.0424	24x26	30.0	32.0	24,0	190.0	3	365
518.0425	25x28	31.0	34.0	25,0	200.0	3	410
518.0427	27x29	34.0	36.0	27,0	210.0	3	540
518.0430	30x32	37.0	39.0	30,0	220.0	3	610

Tommy bar for double box spanner

- Hardened
- Matt finish
- Chrome vanadium



Item	mm	A1 mm	A2 mm	A3 mm	L mm	#	kg
518.0450	6x7-10x11	2.6	5.0	5.0	100.0	1	10
518.0455	12x13-21x23	5.9	7.0	9.3	170.0	2	80
518.0460	24x26-30x32	11.6	12.5	12.5	290.0	3	280

Double box head spanner set

- FlankTraction profile (12 point)
- DIN 896 Form A / ISO 2236
- Extremely versatile
- With centre hole
- Can use a ring spanner to drive
- Matt finish
- Chrome vanadium



Item	kg
518.0405 10 pcs Double box head spanner set	1.16
8 x 6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 mm	
2 x #1 100 mm + #2 170 mm	

HGV wheel nut wrench

- Two sided serviceable
- With large head depth for projecting bolts
- Alternative insert for tommy bar
- Ideally suited for commercial vehicles
- Matt finish
- Special steel



Item	mm		L mm	kg
518.0831	24x27	15/16"x1.1/16"	400.0	1.15
518.0832	27x32	1.1/16"x1.1/4"	400.0	1.15
518.0833	32x38	1.1/4"x1.1/2"	400.0	1.15
518.0834	30x32		400.0	1.15
518.0835	32x33		400.0	1.15

Tommy bar for HGV wheel nut wrench

- Matt finish
- Special steel



Item	Ø mm	L mm	kg
518.0836	18,0	500.0	1.00
518.0837	18,0	600.0	1.19

Extended bar HGV wheel nut wrench set

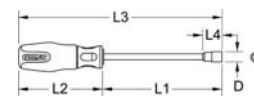
- Two-sided serviceable
- With large head depth for projecting bolts
- With 1.200 mm extended drive bar
- Loading capacity at 1.200 N·m
- Ideally suited for commercial vehicles
- Matt finish
- Special steel



Item	kg
518.0838 4 pcs 24x27 mm, 15/16"x1.1/16"	3.90
518.0839 4 pcs 30x32 mm	3.90
518.0840 4 pcs 32x33 mm	3.90

ERGOTORQUEplus® socket screwdriver

- 6 point
- With dual component handle
- With hanging hole
- Matt finish
- Chrome vanadium



Item	mm	D mm	L1 mm	L2 mm	L3 mm	L4 mm	kg
159.1201	4	6.6	150.0	105.0	255.0	4.3	60
159.1202	5	7.6	150.0	105.0	255.0	4.4	70
159.1203	5,5	8.2	150.0	105.0	255.0	4.8	80
159.1204	6	8.8	150.0	105.0	255.0	5.5	80
159.1205	7	10.0	150.0	105.0	255.0	6.8	110
159.1206	8	11.2	150.0	114.0	264.0	7.0	110
159.1207	9	13.9	150.0	114.0	264.0	9.3	110
159.1208	10	15.0	150.0	114.0	264.0	9.9	120
159.1209	11	16.5	150.0	114.0	264.0	10.3	130
159.1210	12	17.6	150.0	114.0	264.0	11.2	180
159.1211	13	17.6	150.0	114.0	264.0	11.6	180
159.1212	14	18.9	150.0	114.0	264.0	13.0	180

ERGOTORQUEplus® socket screwdriver set

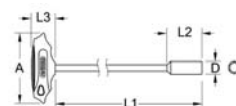
- 6 point
- With dual component handle
- With hanging hole
- Matt finish
- Chrome vanadium



Item			
159.1200	8 pcs	5 - 6 - 7 - 8 - 10 - 11 - 12 - 13	800

CHROMEplus® T-handle socket screwdriver, extra long

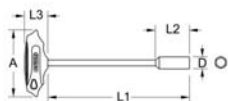
- 6 point
- Two component handle
- With hanging hole
- Chrome plated and mirror polished
- Chrome vanadium



Item		A mm	D mm	L1 mm	L2 mm	L3 mm	
158.5408	8	115.0	12.6	350.0	13.2	39.5	180
158.5409	9	115.0	13.6	350.0	13.6	39.5	190
158.5410	10	115.0	14.7	350.0	15.2	39.5	220
158.5413	13	115.0	17.7	350.0	15.4	39.5	230
158.5414	14	115.0	19.1	350.0	15.6	39.5	250

CHROMEplus® T-handle socket screwdriver

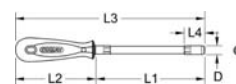
- 6 point
- Two component handle
- With hanging hole
- Chrome plated and mirror polished
- Chrome vanadium



Item		D mm	A mm	L1 mm	L2 mm	L3 mm	
158.50055	5,5	9.9	95.0	230.0	9.7	33.3	80
158.5006	6	9.9	95.0	230.0	9.8	33.3	100
158.5007	7	10.1	95.0	230.0	10.3	33.3	120
158.5008	8	12.5	115.0	230.0	14.0	39.7	140
158.5009	9	13.6	115.0	230.0	12.2	39.7	150
158.5010	10	14.5	115.0	230.0	14.3	39.7	160
158.5011	11	15.7	115.0	230.0	14.7	39.7	180
158.5012	12	16.7	115.0	230.0	15.0	39.7	180
158.5013	13	17.6	115.0	230.0	16.3	39.7	180
158.5014	14	19.2	115.0	230.0	14.6	39.7	190

ERGOTORQUE® socket screwdriver

- 6 point
- Flexible
- Limited torque
- Double spiral shaft
- Plastic protective coating
- With hanging hole
- Chrome vanadium



Item		D mm	L1 mm	L2 mm	L3 mm	L4 mm	
911.1126	6	10.8	150.0	109.0	259.0	9.3	15
911.1127	7	11.7	150.0	109.0	259.0	10.0	20
911.1128	8	11.9	150.0	109.0	259.0	10.0	20
911.1125	10	12.5	170.0	109.0	279.0	14.3	25

CHROMEplus® T-handle socket screwdriver set

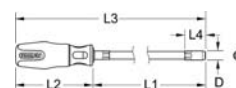
- 6 point
- Two component handle
- With hanging hole
- Chrome plated and mirror polished
- Chrome vanadium



Item			
158.5000	6 pcs	6 - 8 - 10 - 12 - 13 - 14 mm	1.40

ERGOTORQUEplus® socket screwdriver, extra long

- 6 point
- Flexible
- Limited torque
- Double spiral shaft
- Plastic protective coating
- With dual component handle
- With hanging hole
- Chrome vanadium

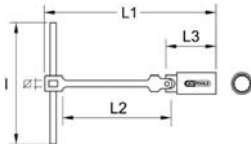


Item		D mm	L1 mm	L2 mm	L3 mm	L4 mm	
911.1175	5	11.9	500.0	114.0	614.0	8.9	270
911.1176	6	10.9	500.0	114.0	614.0	11.3	280
911.1177	7	11.7	500.0	114.0	614.0	11.3	280
911.1178	8	11.7	500.0	114.0	614.0	11.3	280

T-HANDLE FLEXIBLE WRENCH

CLASSIC T-handle universal spark plug wrench

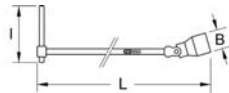
- FlankTraction profile
- With flexible head
- For difficult to access areas
- Matt finish
- Chrome vanadium



Item	mm	I mm	L1 mm	L2 mm	L3 mm	Weight
517.1131	14	200.0	500.0	418.5	81.5	490
517.1132	16	200.0	500.0	418.5	81.5	500
517.1133	18	200.0	500.0	418.5	81.5	580
517.1134	21	200.0	500.0	418.5	81.5	590

T-handle universal wrench, extra long

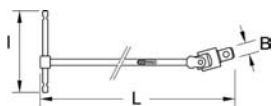
- 6 point
- With flexible head
- For difficult to access areas
- Matt finish
- Chrome vanadium



Item	mm	B mm	I mm	L mm	Weight
517.1108	8	12.0	200.0	394.0	400
517.1109	9	14.5	200.0	395.0	420
517.1110	10	15.3	200.0	490.0	460
517.1111	11	17.0	200.0	491.0	470
517.1112	12	18.0	200.0	493.0	485
517.1113	13	18.0	200.0	493.0	485
517.1114	14	20.0	200.0	495.0	480
517.1115	15	22.0	200.0	495.0	480
517.1116	16	22.0	200.0	496.0	490
517.1117	17	24.0	200.0	469.0	495
517.1118	18	26.0	200.0	500.0	500
517.1119	19	28.0	200.0	500.0	520

T-Handle universal wrench for sockets, extra long

- In accordance to DIN 3122 / ISO 3315
- With flexible head
- For difficult to access areas
- Matt finish
- Chrome vanadium

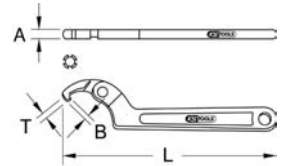


Item	mm	B mm	I mm	L mm	Weight
517.1125	1/4"	6.3	200.0	490.0	420
517.1126	3/8"	9.5	200.0	495.0	540
517.1127	1/2"	12.6	200.0	500.0	760

HOOK WRENCH

Hook wrench with nose

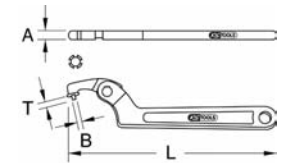
- In accordance to DIN 1080 Form A
- With flexible head
- With hanging hole
- For slotted nuts
- Matt finish
- Chrome vanadium



Item	mm	mm	A mm	B mm	L mm	T mm	Weight
517.1302	19 - 50	3/4 - 2"	9.0	3.5	162.0	2.9	100
517.1303	32 - 76	1.1/4 - 3"	11.5	4.5	205.0	3.7	210
517.1304	50 - 120	2 - 4.3/4"	12.4	6.5	295.0	4.6	420
517.1305	114 - 158	4.1/2 - 6.1/4"	12.4	9.8	315.0	8.3	440

Flexible hook wrench with pin

- In accordance to DIN 1810 Form A
- With flexible head
- With hanging hole
- For pin type round nuts
- Matt finish
- Chrome vanadium



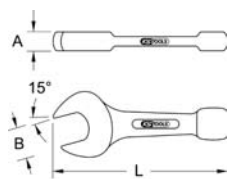
Item	mm	mm	A mm	B mm	L mm	T mm	Weight
517.1312	19 - 50	3/4 - 2"	9.2	4.0	165.0	4.0	110
517.1313	32 - 76	1.1/4 - 3"	11.3	5.0	210.0	4.7	220
517.1314	50 - 120	2 - 4.3/4"	12.5	6.0	295.0	5.5	420
517.1315	114 - 158	4.1/2 - 6.1/4"	12.6	8.0	320.0	7.6	440



SLOGGING SPANNER

Slogging open end spanner

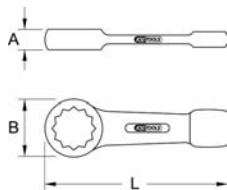
- DIN 133
- Jaw 15° offset
- Impact area
- For heavy duty applications
- Phosphate finish
- Chrome vanadium



Item	mm	A mm	B mm	L mm	kg
517.0124	24	17.4	56.3	160.0	0.50
517.0127	27	16.5	57.5	180.0	0.53
517.0130	30	17.0	63.5	190.0	0.55
517.0132	32	17.5	67.5	195.0	0.65
517.0136	36	18.5	77.5	210.0	0.85
517.0141	41	19.5	89.0	230.0	1.04
517.0146	46	20.0	99.0	250.0	1.39
517.0150	50	21.5	108.0	275.0	1.57
517.0155	55	24.0	118.5	305.0	2.25
517.0160	60	24.5	129.5	315.0	2.54
517.0165	65	28.0	140.5	345.0	3.64
517.0170	70	30.0	151.0	370.0	4.10
517.0175	75	31.5	163.0	385.0	5.17
517.0180	80	34.5	174.0	400.0	5.82
517.0185	85	34.5	174.0	410.0	6.98
517.0190	90	39.0	195.0	445.0	8.32
517.0195	95	39.0	195.0	455.0	10.40
517.0196	100	47.0	227.0	480.0	11.80

Slogging ring spanner

- FlankTraction profile (12 point)
- DIN 7444
- Impact area
- For heavy duty applications
- Phosphate finish
- Chrome vanadium

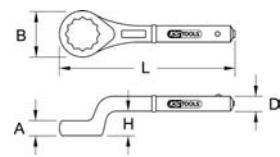


Item	mm	A mm	B mm	L mm	kg
517.0924	24	15.0	42.5	160.0	0.36
517.0927	27	15.5	47.0	180.0	0.38
517.0930	30	16.5	52.5	190.0	0.50
517.0932	32	16.5	54.0	195.0	0.53
517.0936	36	19.5	60.0	205.0	0.75
517.0941	41	20.5	66.0	225.0	0.81
517.0946	46	22.5	75.0	240.0	0.98
517.0950	50	23.5	80.0	250.0	0.98
517.0955	55	25.0	87.5	270.0	1.75
517.0960	60	26.0	93.5	270.0	1.96
517.0965	65	29.0	101.0	290.0	2.18
517.0970	70	32.5	109.5	320.0	2.40
517.0975	75	34.0	114.5	325.0	2.76
517.0980	80	35.0	123.0	345.0	3.75
517.0985	85	37.0	129.0	360.0	4.86
517.0990	90	41.5	152.0	400.0	5.88
517.0995	95	41.5	152.0	400.0	6.50
517.0996	100	41.5	152.0	400.0	7.83

SINGLE RING ENDED SPANNER

Offset single ring spanner

- FlankTraction profile (12 point)
- Ring head 75° offset
- With shaft for attaching extension pipe
- With locking pin
- Heavy duty to deliver maximum torque
- Matt finish
- Chrome vanadium



Item	mm	A mm	B mm	D mm	H mm	L mm	kg
517.9024	24	17.0	38.0	19.0	29.5	180.0	0.35
517.9027	27	17.0	42.0	19.0	31.5	190.0	0.40
517.9030	30	18.0	48.0	19.0	33.5	195.0	0.45
517.9032	32	18.0	49.0	22.0	34.0	200.0	0.55
517.9036	36	18.0	49.0	22.0	34.0	200.0	0.65
517.9041	41	20.0	54.0	22.0	35.5	205.0	0.75
517.9046	46	22.0	62.0	22.0	39.5	265.0	1.05
517.9050	50	23.0	69.0	25.0	40.0	280.0	1.15
517.9055	55	25.5	76.0	25.0	42.5	290.0	1.40
517.9060	60	28.0	81.0	25.0	45.5	300.0	2.10
517.9065	65	30.5	90.0	30.0	49.0	345.0	2.30
517.9070	70	33.0	98.0	30.0	53.0	355.0	2.60
517.9075	75	35.5	105.0	30.0	55.0	365.0	3.00
517.9080	80	38.0	110.0	30.0	57.5	375.0	3.45
517.9085	85	40.5	125.0	30.0	59.0	385.0	3.80
517.9090	90	40.5	125.0	30.0	59.0	410.0	4.88
517.9095	95	45.0	140.0	30.0	63.0	410.0	5.67
517.9100	100	45.0	140.0	30.0	63.0	412.0	6.66
517.9105	105	45.0	143.0	30.0	63.0	415.0	7.50

Extension pipe for single ring spanner

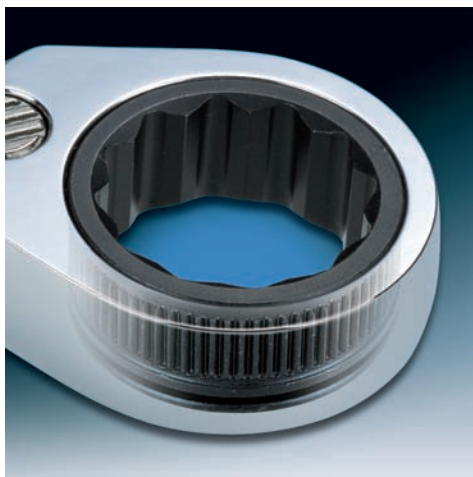
- Four different sizes
- Matt finish
- Chrome vanadium



Item	mm	D mm	L mm	kg
517.9001	24 - 30	19.0	460.0	0.75
517.9002	32 - 41	22.0	610.0	1.25
517.9003	46 - 55	25.0	760.0	2.30
517.9004	60 - 105	30.0	860.0	2.80



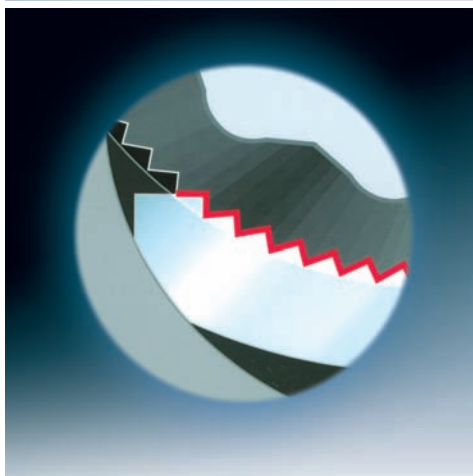
GEARplus® Ratcheting spanner



The GEARplus® ring ratcheting spanner offer all the benefits of a ratchet and much more.

The ultra slimline design of the ring sides allows work in very narrow places, even where normal ratchets and sockets can't be used.

Allows very quick loosening or tightening of difficult nuts and bolts.



Further development of the progressive gearing means an increase in the transmission of up to 30% more torque compared to previous ring ratcheting spanners.

The components of the ratchet mechanism are manufactured from special high grade steel.

Thereby the GEARplus® reaches and even surpasses the DIN and ANSI torque standards for standard combination spanners.



The especially robust ratchet mechanism with 72 teeth works with a ratcheting angle of only 5° which makes it possible to work in confined spaces. The future of ratchets.

Standard combination wrenches require a ratcheting angle of at least 30° which means continual re-mounting of the wrench. This awkward process now belongs to the past.



All GEARplus® ratchet ring spanners are of course fitted with the proven FlankTraction system to optimise the torque transmission. This enables 100% power transfer to the faces of the nuts or bolts being worked on.

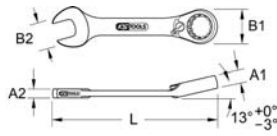
A further multitude of applications are offered by the valued bit and socket adaptors which can be obtained as separate accessories.



GEARplus® MINI REVERSIBLE COMBINATION SPANNER

GEARplus® combination ratcheting spanner, stubby

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head 15° offset
- With reverse lever
- High quality finish
- Chrome vanadium



Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	kg
503.4631	8	6.5	4.0	16.6	16.7	90.0	30
503.4632	9	6.9	4.4	18.4	18.8	93.0	40
503.4633	10	7.3	4.8	20.0	20.8	95.0	50
503.4634	11	7.7	5.2	21.8	23.0	103.0	50
503.4635	12	8.2	5.5	22.7	25.0	106.0	50
503.4636	13	8.6	5.8	24.7	27.1	108.0	60
503.4637	14	9.0	6.2	27.0	29.2	115.0	70
503.4638	15	9.4	6.5	28.3	31.3	119.0	90
503.4639	16	9.9	6.8	30.0	33.4	123.0	100
503.4640	17	10.3	7.2	31.8	35.5	127.0	110
503.4641	18	10.7	7.7	32.6	37.6	131.0	120
503.4642	19	11.2	8.2	33.8	39.7	139.0	150



GEARplus® combination ratcheting spanner set, stubby

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head 15° offset
- With reverse lever
- High quality finish
- Chrome vanadium
- In durable plastic storage case



Item	mm	kg
503.4652	12 pcs GEARplus® combination ratcheting spanner set, stubby	1.08
12 x	8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	

GEARplus® combination ratcheting spanner set, stubby

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head 15° offset
- With reverse lever
- Square drive adaptor to DIN 3120
 - ISO 1174 with ball lock
- For bits to DIN 3126 / C 6,3
- High quality finish
- Chrome vanadium
- In durable plastic storage case



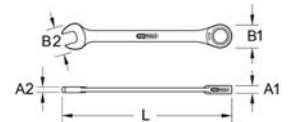
1/4" 3/8" 1/2"

Item	kg
503.4653	16 pcs GEARplus® combination ratcheting spanner set, stubby 1.35
12 x	8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm
1 x	1/4"
3 x	1/4" - 3/8" - 1/2"

GEARplus® COMBINATION SPANNER

GEARplus® combination ratcheting spanner

- FlankTraction profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Straight form
- Exact gearing with 72 teeth
- Chrome plated and mirror polished
- Chrome vanadium



Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	kg
503.42055	5,5	6.3	3.9	14.0	15.0	127.5	20
503.4206	6	6.3	3.9	14.0	15.0	128.0	30
503.4207	7	6.5	4.0	16.8	16.7	140.0	30
503.4208	8	6.5	4.0	16.8	16.7	140.0	30
503.4209	9	6.9	4.4	18.8	18.7	149.0	40
503.4210	10	7.3	4.8	20.8	20.8	158.0	50
503.4211	11	7.7	5.2	21.8	23.0	165.0	60
503.4212	12	8.2	5.5	22.8	24.6	171.0	70
503.4213	13	8.6	5.8	24.8	26.8	178.0	80
503.4214	14	9.0	6.2	27.8	29.0	190.0	110
503.4215	15	9.4	6.5	28.8	31.0	199.0	120
503.4216	16	9.9	6.8	30.8	33.0	208.0	150
503.4217	17	10.3	7.2	31.8	35.5	225.0	180
503.4218	18	10.7	7.7	32.8	37.5	236.0	210
503.4219	19	11.2	8.2	33.8	39.4	247.0	240
503.4221	21	13.0	9.0	40.0	45.8	289.0	340
503.4222	22	13.0	9.0	40.0	45.8	289.0	340
503.4224	24	14.5	10.0	46.0	51.8	322.0	470
503.4227	27	15.5	10.5	52.0	56.4	358.0	580
503.4228	30	17.0	11.4	58.0	62.7	401.0	860
503.4229	32	17.5	12.5	62.0	66.4	424.0	1060
503.4230	34	17.5	13.0	62.0	70.0	459.0	1170
503.4102	5/16"	6.5	4.0	16.8	16.7	140.0	30
503.4103	3/8"	7.3	4.8	20.8	20.8	158.0	40
503.4104	7/16"	7.7	5.2	21.8	23.0	165.0	50
503.4105	1/2"	8.6	5.8	24.8	26.8	178.0	70
503.4106	9/16"	9.0	6.2	27.8	29.0	190.0	110
503.4107	5/8"	9.9	6.8	30.8	33.0	208.0	130
503.4108	11/16"	10.3	7.2	31.8	35.5	225.0	170
503.4109	3/4"	11.2	8.2	33.8	39.4	247.0	220

GEARplus® combination ratcheting spanner set

- FlankTraction profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Straight form
- Exact gearing with 72 teeth
- Chrome plated and mirror polished
- Chrome vanadium



Item			kg
503.4202	5 pcs	5/16" - 3/8" - 1/2" - 11/16" - 3/4"	0.69
503.4204	4 pcs	10 - 13 - 17 - 19 mm	0.65
503.4205	5 pcs	8 - 10 - 13 - 17 - 19 mm	0.69
503.4270	4 pcs	24 - 27 - 30 - 32 mm	3.07

GEARplus® combination ratcheting spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Straight form
- Exact gearing with 72 teeth
- Chrome plated and mirror polished
- Chrome vanadium
- In durable plastic storage case



Item			kg
503.4265	12 pcs	GEARplus® combination ratcheting spanner set	1.88
12 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	

GEARplus® combination ratcheting spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Straight form
- Exact gearing with 72 teeth
- Chrome plated and mirror polished
- Chrome vanadium
- In durable plastic storage case



Item			kg
503.4259	6 pcs	GEARplus® combination ratcheting spanner set	0.97
6 x		8 - 10 - 12 - 13 - 17 - 19 mm	

GEARplus® combination ratcheting spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Straight form
- Exact gearing with 72 teeth
- Square drive adaptor to DIN 3120 - ISO 1174 with ball lock
- For bits to DIN 3126 / C 6,3
- Chrome plated and mirror polished
- Chrome vanadium
- In durable plastic storage case



Item			kg
503.4266	16 pcs	GEARplus® combination ratcheting spanner set	1.73
12 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	
1 x		1/4"	
3 x		1/4" - 3/8" - 1/2"	

GEARplus® combination ratcheting spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Straight form
- Exact gearing with 72 teeth
- Square drive adaptor to DIN 3120 - ISO 1174 with ball lock
- For bits to DIN 3126 / C 6,3
- Chrome plated and mirror polished
- Chrome vanadium
- In durable plastic storage case



Item			kg
503.4260	10 pcs	GEARplus® combination ratcheting spanner set	1.06
6 x		8 - 10 - 12 - 13 - 17 - 19 mm	
1 x		1/4"	
3 x		1/4" - 3/8" - 1/2"	

GEARplus® combination ratcheting spanner display

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Straight form
- Exact gearing with 72 teeth
- Chrome plated and mirror polished
- Chrome vanadium

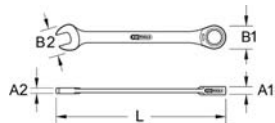


Item			kg
503.4200	70 pcs	GEARplus® combination ratcheting spanner display	2.87
60 x		5 x (8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm)	
5 x		1/4" ; 1/4" - 3/8" - 1/2"	
5 x		5/16" - 10 mm	

GEARplus® COMBINATION SPANNERS, EXTRA LONG

GEARplus® combination ratcheting spanner, extra long

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Straight form
- Exact gearing with 72 teeth
- Chrome plated and mirror polished
- Chrome vanadium



Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	kg
503.4008	8	6.5	5.7	16.6	16.7	160.0	40
503.4010	10	7.3	6.3	20.0	20.8	190.0	70
503.4012	12	8.2	7.2	22.7	25.0	220.0	100
503.4013	13	8.6	7.6	24.7	27.1	238.0	130
503.4014	14	9.0	8.1	27.0	29.2	255.0	150
503.4015	15	9.4	8.4	28.3	31.3	275.0	180
503.4016	16	9.9	8.6	30.0	33.4	295.0	200
503.4017	17	10.3	8.9	31.4	35.5	314.0	240
503.4018	18	10.7	9.4	32.9	37.6	333.0	280
503.4019	19	11.2	9.7	34.0	39.7	349.0	320



GEARplus® combination ratcheting spanner set, extra long

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Straight form
- Extra long
- Exact gearing with 72 teeth
- Chrome plated and mirror polished
- Chrome vanadium
- In durable plastic storage case



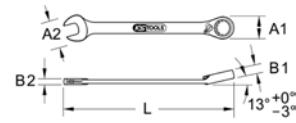
1/4" 3/8" 1/2"

Item	kg
503.4050 9 pcs GEARplus® combination ratcheting spanner set, extra long	1.91
5 x 8 - 10 - 13 - 17 - 19 mm	
1 x 1/4"	
3 x 1/4" - 3/8" - 1/2"	

GEARplus® REVERSIBLE COMBINATION SPANNER

GEARplus® reversing combination ratcheting spanner

- FlankTraction profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head 15° offset
- Exact gearing with 72 teeth
- With reverse lever
- High quality finish
- Chrome vanadium



Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	kg
503.4606	6	6.3	3.9	14.0	15.0	126.0	30
503.4607	7	6.5	4.6	16.6	16.7	145.0	30
503.4608	8	6.5	4.6	16.6	16.7	145.0	30
503.4609	9	6.9	4.9	18.4	18.8	150.0	40
503.4610	10	7.3	5.3	20.0	20.8	145.0	50
503.4611	11	7.7	5.6	21.8	23.0	165.0	60
503.4612	12	8.2	6.0	22.7	25.0	172.0	70
503.4613	13	8.6	6.4	24.7	27.1	165.0	80
503.4614	14	9.0	6.8	27.0	29.2	190.0	100
503.4615	15	9.4	7.0	28.3	31.3	200.0	120
503.4616	16	9.9	7.2	30.0	33.4	208.0	150
503.4617	17	10.3	7.7	31.8	35.5	225.0	160
503.4618	18	10.7	8.2	32.6	37.6	237.0	190
503.4619	19	11.2	8.8	33.8	39.7	248.0	220
503.4622	22	13.0	9.0	40.0	46.0	290.0	360
503.4624	24	14.5	10.0	46.0	52.2	323.0	470
503.4627	27	15.5	10.5	52.5	56.5	331.0	660
503.4628	30	17.0	11.4	58.5	62.7	389.0	860
503.4629	32	17.5	12.5	62.6	66.4	415.0	1050
503.4630	34	17.5	13.0	62.5	70.6	460.0	1200
503.4643	36	18.0	13.4	66.2	79.0	490.0	1300
503.4644	38	19.0	13.4	66.2	82.0	490.0	1400
503.4681	5/16"	6.5	4.0	16.6	16.7	145.0	30
503.4683	3/8"	7.3	4.8	20.0	20.8	159.0	60
503.4684	7/16"	7.7	5.2	21.8	23.0	165.0	70
503.4685	1/2"	8.6	5.8	24.7	27.1	178.0	80
503.4686	9/16"	9.0	6.5	27.0	29.2	190.0	100
503.4687	5/8"	9.9	6.8	30.0	33.4	208.0	140
503.4688	11/16"	10.3	7.2	31.8	35.5	225.0	170
503.4689	3/4"	11.2	8.2	33.8	39.7	248.0	230

GEARplus® reversing combination ratcheting spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head 15° offset
- Exact gearing with 72 teeth
- With reverse lever
- High quality finish
- Chrome vanadium



Item	kg
503.4604 4 pcs 10 - 13 - 17 - 19 mm	0.65

GEARplus® reversing combination ratcheting spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head 15° offset
- Exact gearing with 72 teeth
- With reverse lever
- High quality finish
- Chrome vanadium



Item				kg
503.4605	5 pcs	8 - 10 - 13 - 17 - 19 mm		0.70

GEARplus® reversing combination ratcheting spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head 15° offset
- Exact gearing with 72 teeth
- With reverse lever
- Square drive adaptor to DIN 3120 - ISO 1174 with ball lock
- For bits to DIN 3126 / C 6,3
- High quality finish
- Chrome vanadium
- In durable plastic storage case



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

Item				kg
503.4647	10 pcs	GEARplus® reversing combination ratcheting spanner set		1.11

6 x		8 - 10 - 12 - 13 - 17 - 19 mm	
1 x		1/4"	
3 x		1/4" - 3/8" - 1/2"	

GEARplus® reversing combination ratcheting spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head 15° offset
- Exact gearing with 72 teeth
- With reverse lever
- High quality finish
- Chrome vanadium



Item				kg
503.4602	5 pcs	5/16" - 3/8" - 1/2" - 11/16" - 3/4"		0.54

GEARplus® reversing combination ratcheting spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head 15° offset
- Exact gearing with 72 teeth
- With reverse lever
- High quality finish
- Chrome vanadium



Item				kg
503.4601	4 pcs	24 - 27 - 30 - 32 mm		3.23

GEARplus® reversing combination ratcheting spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head 15° offset
- Exact gearing with 72 teeth
- With reverse lever
- High quality finish
- Chrome vanadium
- In durable plastic storage case



Item				kg
503.4646	6 pcs	GEARplus® reversing combination ratcheting spanner set		1.04

6 x		8 - 10 - 12 - 13 - 17 - 19 mm	
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GEARplus® reversing combination ratcheting spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head 15° offset
- Exact gearing with 72 teeth
- With reverse lever
- Square drive adaptor to DIN 3120 - ISO 1174 with ball lock
- For bits to DIN 3126 / C 6,3
- High quality finish
- Chrome vanadium
- In durable plastic storage case



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

Item				kg
503.4666	16 pcs	GEARplus® reversing combination ratcheting spanner set		1.79

12 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	
1 x		1/4"	
3 x		1/4" - 3/8" - 1/2"	

GEARplus® reversing combination ratcheting spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head 15° offset
- Exact gearing with 72 teeth
- With reverse lever
- Square drive adaptor to DIN 3120 - ISO 1174 with ball lock
- For bits to DIN 3126 / C 6,3
- High quality finish
- Chrome vanadium
- In durable plastic storage case



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

Item				kg
503.4650	9 pcs	GEARplus® reversing combination ratcheting spanner set		1.10


5 x		8 - 10 - 13 - 17 - 19 mm	
1 x		1/4"	
3 x		1/4" - 3/8" - 1/2"	

GEARplus® reversing combination ratcheting spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head 15° offset
- Exact gearing with 72 teeth
- With reverse lever
- High quality finish
- Chrome vanadium
- In durable plastic storage case



Item	kg
503.4665 12 pcs GEARplus® reversing combination ratcheting spanner set	1.71




12 x 	8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm
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GEARplus® reversing combination ratcheting spanner display

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head 15° offset
- Exact gearing with 72 teeth
- With reverse lever
- High quality finish
- Chrome vanadium



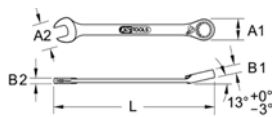
Item	kg
503.4600 70 pcs GEARplus® reversing combination ratcheting spanner display	2.82

60 x 	5 x (8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm)
5 x 	1/4"; 1/4" - 3/8" - 1/2"
5 x 	5/16" - 10 mm

TRIPLEplus® COMBINATION SPANNER

TRIPLEplus® reversing combination ratcheting spanner

- TRIPLEplus® profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head 15° offset
- With reverse lever
- Exact gearing with 72 teeth
- High quality finish
- Chrome vanadium



Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	kg
503.4308	8	6.5	4.0	16.8	16.7	140.0	30
503.4309	9	6.9	4.4	18.8	18.7	150.0	40
503.4310	10	7.3	4.8	20.8	20.8	159.0	50
503.4311	11	7.7	5.2	21.8	23.0	165.0	60
503.4312	12	8.2	5.5	22.8	24.6	172.0	70
503.4313	13	8.6	5.8	24.8	26.8	178.0	80
503.4314	14	9.0	6.2	27.8	29.0	191.0	110
503.4315	15	9.4	6.5	28.8	31.0	200.0	120
503.4316	16	9.9	6.8	30.8	33.0	208.0	150
503.4317	17	10.3	7.2	31.8	35.5	226.0	180
503.4318	18	10.7	7.7	32.8	37.5	237.0	210
503.4319	19	11.2	8.2	33.8	39.4	248.0	240

TRIPLEplus® reversing combination ratcheting spanner set

- TRIPLEplus® profile
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head 15° offset
- With reverse lever
- Exact gearing with 72 teeth
- High quality finish
- Chrome vanadium
- In durable plastic storage case

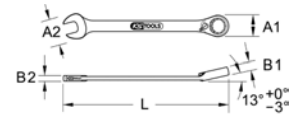


Item	kg
503.4390 12 pcs 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	3.10

GEARplus® RING STOP COMBINATION SPANNER

GEARplus® reversing combination ratcheting spanner

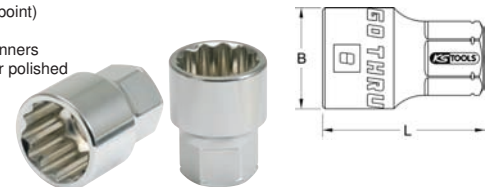
- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head 15° offset
- With reverse lever
- Ring stop function
- High quality finish
- Chrome vanadium



Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	kg
503.4908	8	6.5	4.6	16.6	16.7	140.0	40
503.4909	9	6.9	4.9	18.4	18.8	150.0	45
503.4910	10	7.3	5.3	20.0	20.8	159.0	50
503.4911	11	7.7	5.6	21.8	23.0	165.0	60
503.4912	12	8.2	6.0	22.7	25.0	172.0	70
503.4913	13	8.6	6.4	24.7	27.1	178.0	80
503.4914	14	9.0	6.8	27.0	29.2	191.0	100
503.4915	15	9.4	7.0	28.3	31.1	200.0	120
503.4916	16	9.9	7.2	30.0	33.4	208.0	140
503.4917	17	10.3	7.7	31.8	35.5	226.0	170
503.4918	18	10.7	8.2	32.6	37.6	237.0	200
503.4919	19	11.2	8.8	33.8	39.7	248.0	210

GEARplus® socket adapter with go through

- FlankTraction profile (12 point)
- With go through function
- Suitable for ring stop spanners
- Chrome plated and mirror polished
- Chrome vanadium



Item	mm	B mm	L mm	kg
503.4978	8	12.0	19.8	10
503.4979	9	12.0	21.2	10
503.4980	10	15.0	22.6	10
503.4981	11	16.2	22.9	10
503.4982	12	17.4	24.5	20
503.4983	13	18.7	25.8	20
503.4984	14	19.9	26.1	20
503.4985	15	20.8	28.0	30
503.4986	16	22.6	29.5	30
503.4987	17	23.7	30.6	30
503.4988	18	24.5	32.0	40
503.4989	19	26.1	33.5	50

GEARplus® reversing combination ratcheting spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- Ratchet head 15° offset
- With reverse lever
- Versatile sockets with go through function
- Square drive adaptor to DIN 3120
- ISO 1174 with ball lock
- For bits to DIN 3126 / C 6,3
- High quality finish
- Chrome vanadium
- In durable plastic storage case



1/4" 3/8" 1/2" 5/16" 10 mm

Item							
503.4960	30 pcs	GEARplus® reversing combination ratcheting spanner set	2.43				

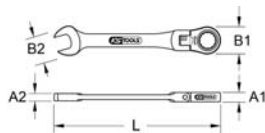
12 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm
12 x		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm
3 x		1/4" - 5/16" - 10 mm
3 x		1/4" - 3/8" - 1/2"



GEARplus® FLEXI COMBINATION SPANNER

GEARplus® flexible combination ratcheting spanner

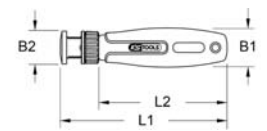
- FlankTraction profile (12 point)
- In accordance to DIN 3110 / ISO 3318
- Jaw 15° offset
- Exact gearing with 72 teeth
- With flexible head
- 180° revolving head
- High quality finish
- Chrome vanadium



Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	kg
503.4708	8	6.5	4.3	16.7	16.2	127.0	30
503.4709	9	6.9	4.6	18.6	18.2	131.5	40
503.4710	10	7.3	5.0	20.0	20.3	136.0	50
503.4711	11	7.7	5.4	21.8	22.5	141.0	60
503.4712	12	8.2	5.8	23.0	24.3	147.5	70
503.4713	13	8.6	6.1	25.2	26.8	154.0	80
503.4714	14	9.0	6.4	26.8	28.3	160.0	100
503.4715	15	9.4	6.9	28.3	29.8	169.0	120
503.4716	16	9.9	7.2	29.8	31.8	179.0	150
503.4717	17	10.3	7.6	31.8	32.8	190.0	160
503.4718	18	10.7	8.0	32.8	37.0	203.0	190
503.4719	19	11.2	8.6	33.9	39.2	215.0	220
503.4721	21	13.0	9.0	40.0	46.0	274.0	400
503.4722	22	13.0	9.0	40.0	46.0	274.0	400
503.4724	24	14.5	10.0	46.0	52.2	296.0	550

Handle for flexible combination ratcheting spanner

- With dual component handle
- Suitable as a crank handle ratchet
- Mirror polished chrome
- Chrome vanadium



Item	mm	B1 mm	B2 mm	L1 mm	L2 mm	g
503.0100	8-19	34.0	28.0	143.0	110.0	160

GEARplus® flexible combination ratcheting spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3110 / ISO 3318
- Jaw 15° offset
- Exact gearing with 72 teeth
- With flexible head
- 180° revolving head
- High quality finish
- Chrome vanadium
- In durable plastic storage case



Item						
503.4759	6 pcs	GEARplus® flexible combination ratcheting spanner set	1.90			

6 x		8 - 10 - 12 - 13 - 17 - 19 mm
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GEARplus® flexible combination ratcheting spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3110 / ISO 3318
- Jaw 15° offset
- Exact gearing with 72 teeth
- With flexible head
- 180° revolving head
- Square drive adaptor to DIN 3120
- ISO 1174 with ball lock
- For bits to DIN 3126 / C 6,3
- High quality finish
- Chrome vanadium
- In durable plastic storage case



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

Item						
503.4760	10 pcs	GEARplus® flexible combination ratcheting spanner set	2.00			

6 x		8 - 10 - 12 - 13 - 17 - 19 mm
1 x		1/4"
3 x		1/4" - 3/8" - 1/2"

GEARplus® flexible combination ratcheting spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3110 / ISO 3318
- Jaw 15° offset
- Exact gearing with 72 teeth
- With flexible head
- 180° revolving head
- High quality finish
- Chrome vanadium
- In durable plastic storage case



Item	kg
503.4765 12 pcs GEARplus® flexible combination ratcheting spanner set	2.56
12 x 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	

GEARplus® flexible combination ratcheting spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3110 / ISO 3318
- Jaw 15° offset
- Exact gearing with 72 teeth
- With flexible head
- 180° revolving head
- Square drive adaptor to DIN 3120 - ISO 1174 with ball lock
- For bits to DIN 3126 / C 6,3
- High quality finish
- Chrome vanadium
- In durable plastic storage case



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

Item	kg
503.4766 16 pcs GEARplus® flexible combination ratcheting spanner set	2.66
12 x 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	
1 x 1/4"	
3 x 1/4" - 3/8" - 1/2"	

GEARplus® flexible combination ratcheting spanner display

- FlankTraction profile (12 point)
- In accordance to DIN 3110 / ISO 3318
- Jaw 15° offset
- Exact gearing with 72 teeth
- With flexible head
- 180° revolving head
- High quality finish
- Chrome vanadium



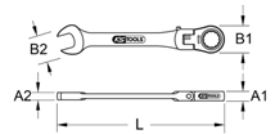
1/4" 3/8" 1/2" 5/16" 10 mm

Item	kg
503.4700 70 pcs GEARplus® flexible combination ratcheting spanner display	2.74
60 x 5 x (8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm)	
5 x 1/4" ; 1/4" - 3/8" - 1/2"	
5 x 5/16" - 10 mm	

GEARplus® FLEXLOCK COMBINATION SPANNER

GEARplus® flexible locking combination ratcheting spanner

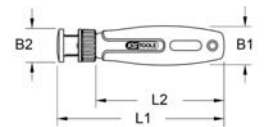
- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- With flexible locking head
- Exact gearing with 72 teeth
- 180° revolving head
- High quality finish
- Chrome vanadium



Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	g
503.4808	8	6.5	4.3	16.7	16.2	127.0	30
503.4809	9	6.9	4.6	18.6	18.2	131.5	40
503.4810	10	7.3	5.0	20.0	20.3	136.0	50
503.4811	11	7.7	5.4	21.8	22.5	141.0	60
503.4812	12	8.2	5.8	23.0	24.3	147.5	70
503.4813	13	8.6	6.1	25.2	26.8	154.0	80
503.4814	14	9.0	6.4	26.8	28.7	160.0	100
503.4815	15	9.4	6.9	28.3	30.5	169.0	120
503.4816	16	9.9	7.2	29.8	32.9	179.0	150
503.4817	17	10.3	7.6	31.8	34.5	190.0	160
503.4818	18	10.7	8.0	32.8	37.0	203.0	190
503.4819	19	11.2	8.6	33.9	39.2	215.0	220

Handle for flexible combination ratcheting spanner

- Two component handle
- Suitable as a crank handle ratchet
- Mirror polished chrome
- Chrome vanadium



Item	mm	B1 mm	B2 mm	L1 mm	L2 mm	g
503.0100	8-19	34.0	28.0	143.0	110.0	160

GEARplus® flexible locking combination ratcheting spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- With flexible locking head
- Exact gearing with 72 teeth
- 180° revolving head
- High quality finish
- Chrome vanadium
- In durable plastic storage case



Item	kg
503.4859 6 pcs GEARplus® flexible locking combination ratcheting spanner set	1.21
6 x 8 - 10 - 12 - 13 - 17 - 19 mm	

GEARplus® flexible locking combination ratcheting spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- With flexible locking head
- Exact gearing with 72 teeth
- 180° revolving head
- Square drive adaptor to DIN 3120 - ISO 1174 with ball lock
- For bits to DIN 3126 / C 6,3
- High quality finish
- Chrome vanadium
- In durable plastic storage case



1/4" 3/8" 1/2" 5/16" 10 mm

Item	kg
503.4867 12 pcs GEARplus® flexible locking combination ratcheting spanner set	1.30
6 x 8 - 10 - 12 - 13 - 17 - 19 mm	
3 x 1/4" - 5/16" - 10 mm	
3 x 1/4" - 3/8" - 1/2"	

GEARplus® flexible locking combination ratcheting spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- With flexible locking head
- Exact gearing with 72 teeth
- 180° revolving head
- High quality finish
- Chrome vanadium
- In durable plastic storage case



Item	kg
503.4865 12 pcs GEARplus® flexible locking combination ratcheting spanner set	2.56
12 x 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	

GEARplus® flexible locking combination ratcheting spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- With flexible locking head
- Exact gearing with 72 teeth
- 180° revolving head
- Square drive adaptor to DIN 3120 - ISO 1174 with ball lock
- For bits to DIN 3126 / C 6,3
- High quality finish
- Chrome vanadium
- In durable plastic storage case



1/4" 3/8" 1/2" 5/16" 10 mm

Item	kg
503.4868 18 pcs GEARplus® flexible locking combination ratcheting spanner set	2.90
12 x 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	
3 x 1/4" - 5/16" - 10 mm	
3 x 1/4" - 3/8" - 1/2"	

GEARplus® flexible locking combination ratcheting spanner display

- FlankTraction profile (12 point)
- In accordance to DIN 3113 / ISO 3318
- Jaw 15° offset
- With flexible locking head
- Exact gearing with 72 teeth
- 180° revolving head
- High quality finish
- Chrome vanadium



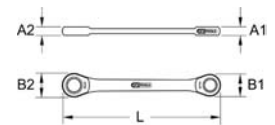
1/4" 3/8" 1/2" 5/16" 10 mm

Item	kg
503.4800 70 pcs GEARplus® flexible locking combination ratcheting spanner display	2.82
60 x 5 x (8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm)	
5 x 1/4" ; 1/4" - 3/8" - 1/2"	
5 x 5/16" - 10 mm	

GEARplus® DOUBLE RING SPANNER

GEARplus® double ratchet ring spanner

- FlankTraction profile (12 point)
- In accordance to DIN 3110 / ISO 3318
- Straight form
- Exact gearing with 72 teeth
- Chrome plated and mirror polished
- Chrome vanadium



Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	kg
503.4502	8x9	6.5	6.9	16.8	20.2	128.0	60
503.4511	8x10	7.3	6.5	20.0	17.0	128.0	40
503.4503	10x11	7.3	7.7	20.2	20.2	150.0	80
503.4512	10x13	7.3	8.6	20.2	20.2	150.0	80
503.4504	12x13	8.2	8.6	23.0	23.0	170.0	100
503.4505	14x15	9.0	9.4	26.5	26.5	190.0	140
503.4506	16x18	9.9	10.7	29.5	29.5	210.0	180
503.4507	17x19	10.3	11.2	31.5	31.5	230.0	220
503.4402	5/16" x 3/8"	6.5	7.3	16.8	20.2	128.0	40
503.4403	7/16" x 1/2"	7.7	8.6	23.0	24.8	170.0	80
503.4404	9/16" x 5/8"	9.0	9.9	26.5	29.5	190.0	125
503.4405	11/16" x 3/4"	10.3	11.2	31.5	33.5	230.0	200

GEARplus® double ratchet ring spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3310 / ISO 3318
- Straight form
- Exact gearing with 72 teeth
- Chrome plated and mirror polished
- Chrome vanadium



Item	kg
503.4552 2 pcs 10x13 - 17x19 mm	790

GEARplus® double ratchet ring spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3310 / ISO 3318
- Straight form
- Exact gearing with 72 teeth
- Chrome plated and mirror polished
- Chrome vanadium
- Supplied in a leather pouch



Item							
503.4557	6 pcs	8x9 - 10x11 - 12x13 - 14x15 - 16x18 - 17x19 mm					790

GEARplus® double ratchet ring spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3310 / ISO 3318
- Straight form
- Exact gearing with 72 teeth
- Chrome plated and mirror polished
- Chrome vanadium
- In durable plastic storage case



Item							
503.4556	6 pcs	GEARplus® double ratchet ring spanner set				790	

6 x		8x9 - 10x11 - 12x13 - 14x15 - 16x18 - 17x19 mm
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GEARplus® double ratchet ring spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3310 / ISO 3318
- Straight form
- Exact gearing with 72 teeth
- Square drive adaptor to DIN 3120 - ISO 1174 with ball lock
- For bits to DIN 3126 / C 6,3
- Chrome plated and mirror polished
- Chrome vanadium
- In durable plastic storage case



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

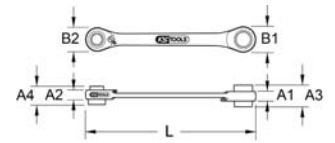
Item							
503.4560	10 pcs	GEARplus® double ratchet ring spanner set				790	

6 x		8x9 - 10x11 - 12x13 - 14x15 - 16x18 - 17x19 mm
1 x		1/4"
3 x		1/4" - 3/8" - 1/2"

GEARplus® 4 IN 1 DOUBLE RING SPANNER

4 in 1 GEARplus® reversing double ratchet ring spanner

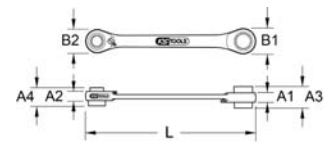
- FlankTraction profile (12 point)
- In accordance to DIN 3110 / ISO 3318
- Straight form
- Exact gearing with 72 teeth
- Four different sizes on each spanner
- With reverse lever
- High quality finish
- Chrome vanadium



Item		A1 mm	A2 mm	A3 mm	A4 mm	B1 mm	B2 mm	L mm	
503.4541	68	8x11-9x10	7.7	7.3	14.6	13.8	21.8	20.0	150.0
503.4656	86	8x10-12x13	8.6	7.3	16.8	13.8	24.8	16.8	150.0
503.4543	147	12x15-13x14	9.4	9.0	18.0	17.1	29.5	18.0	190.0
503.4565	196	10x19-13x17	11.2	9.0	21.9	17.1	33.6	21.9	190.0
503.4546	244	16x19-17x18	11.2	10.3	21.9	20.2	33.5	21.9	230.0
503.4657	245	14x17-18x19	11.2	10.3	21.9	19.3	33.5	21.9	230.0

4 in 1 GEARplus® reversing double ratchet ring spanner

- FlankTraction profile (12 point)
- In accordance to DIN 3110 / ISO 3318
- Straight form
- Exact gearing with 72 teeth
- Four different sizes on each spanner
- With reverse lever
- High quality finish
- Chrome vanadium



Item		A1 mm	A2 mm	A3 mm	A4 mm	B1 mm	B2 mm	L mm	
503.4586	91	5/16"x1/2"-3/8"x7/16"	8.6	7.3	16.8	13.8	24.8	20.2	150.0
503.4589	238	9/16"x3/4"-5/8"x11/16"	11.2	10.3	21.9	19.3	33.5	31.5	230.0

4 in 1 GEARplus® reversing double ratchet ring spanner

- FlankTraction profile (12 point)
- In accordance to DIN 3110 / ISO 3318
- Straight form
- Exact gearing with 72 teeth
- Four different sizes on each spanner
- With reverse lever
- High quality finish
- Chrome vanadium



Item							
503.4655	2 pcs	8x13 - 10x12 - 14x17 - 18x19 mm				340	

4 in 1 GEARplus® reversing double ratchet ring spanner set

- FlankTraction profile (12 point)
- Straight form
- Exact gearing with 72 teeth
- Four different sizes on each spanner
- With reverse lever
- High quality finish
- Chrome vanadium



Item							
503.4585	2 pcs	5/16"x1/2" - 7/16"x3/8" - 9/16"x3/4" - 11/16"x5/8"				300	

4 in 1 GEARplus® reversing double ratchet ring spanner set

- FlankTraction profile (12 point)
- In accordance to DIN 3110 / ISO 3318
- Straight form
- Exact gearing with 72 teeth
- Four different sizes on each spanner
- With reverse lever
- High quality finish
- Chrome vanadium



Item	🔑						
503.4540	3 pcs	8x11 - 9x10 - 12x15 - 13x14 - 16x19 - 17x18 mm	500				

GEARplus® REVERSIBLE DOUBLE RING SPANNER

GEARplus® reversing double ratchet ring spanner

- FlankTraction profile (12 point)
- In accordance to DIN 3110 / ISO 3318
- Ratchet head 15° offset
- Exact gearing with 72 teeth
- With reverse lever
- High quality finish
- Chrome vanadium



Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	🔑
503.4571	8x9	6.9	6.5	20.2	16.8	128.0	60
503.4572	8x10	7.4	6.7	20.2	16.7	128.0	65
503.4573	10x11	7.7	7.3	21.8	20.2	150.0	70
503.4574	10x13	8.7	7.4	25.4	20.5	150.0	80
503.4575	12x13	8.6	8.2	24.8	23.0	170.0	100
503.4576	14x15	9.4	9.0	29.5	26.5	190.0	140
503.4577	16x18	10.7	9.9	33.5	29.5	210.0	180
503.4578	17x19	11.2	10.3	33.5	31.5	230.0	220

GEARplus® double reversing ratchet ring spanner

- FlankTraction profile (12 point)
- In accordance to DIN 3110 / ISO 3318
- Ratchet head 15° offset
- Exact gearing with 72 teeth
- With reverse lever
- High quality finish
- Chrome vanadium
- Supplied in a leather pouch



Item	🔑						
503.4580	6 pcs	8x9 - 10x11 - 12x13 - 14x15 - 16x18 - 17x19 mm	790				

GEARplus® DOUBLE RING SPANNER, OFFSET

Ratchet ring spanner, reversing

- FlankTraction profile (12 point)
- In accordance to DIN 838 / ISO 1085
- Ring head 75° offset
- Reversing
- Exact gearing with 72 teeth
- Matt finish
- Chrome vanadium



Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	🔑
520.1011	10x11	11.5	11.7	23.3	25.1	210.0	180
520.1214	12x14	12.1	12.4	26.4	30.8	245.0	260
520.1317	13x17	13.2	13.3	31.5	36.3	265.0	360
520.1516	15x16	14.6	14.7	33.1	34.9	260.0	420
520.1922	19x22	16.1	16.2	39.8	43.8	325.0	600
520.2427	24x27	17.7	17.9	47.4	51.6	390.0	800
520.3032	30x32	19.7	19.9	55.1	57.1	410.0	1300

Ratchet ring spanner set, reversing

- FlankTraction profile (12 point)
- In accordance to DIN 838 / ISO 1085
- Ring head 75° offset
- Reversing
- Exact gearing with 72 teeth
- Matt finish
- Chrome vanadium



Item	🔑						
520.1000	5 pcs	10x11 - 12x14 - 13x17 - 15x16 - 19x22 mm	1.85				
520.1100	7 pcs	10x11 - 12x14 - 13x17 - 15 x 16 - 19x22 - 24x27 - 30x32 mm	4.05				

GEARplus® TX DOUBLE RING SPANNER

GEARplus® double ring ratchet spanner for TX-E profile

- TX-E profile
- Straight form
- Exact gearing with 72 teeth
- Chrome plated and mirror polished
- Chrome vanadium



Item	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	🔑
503.4351	6x8	6.5	6.9	16.8	20.2	128.0	70
503.4353	10x12	7.3	7.7	20.2	21.8	150.0	60
503.4355	14x18	9.0	9.9	26.5	29.5	190.0	150
503.4357	20x24	10.3	11.2	31.5	33.5	230.0	230

GEARplus® double ring ratchet spanner set for TX-E profile

- TX-E profile
- Straight form
- Exact gearing with 72 teeth
- Chrome plated and mirror polished
- Chrome vanadium



Item				
503.4364	4 pcs	E6xE8 - E10xE12 - E14xE18 - E20xE24	630	

GEARplus® UNIVERSAL DOUBLE RING SPANNER

GEARplus® universal double ratchet ring spanner set

- 6 point
- Ratchet head 15° offset
- Exact gearing with 72 teeth
- Reversing
- With go through facility
- The collar on each insert prevents any slippage
- Especially suitable for narrow hard to access areas
- Matt finish
- Chrome vanadium
- Supplied in a aluminium box



Item			
503.4625	8 pcs		500

1 x		14 x 19 mm
7 x		5/16" - 3/8" - 7/16" - 1/2" - 9/16" - 5/8" - 11/16"

Item			
503.4645	10 pcs		500

1 x		14 x 19 mm
9 x		8 - 9 - 10 - 11 - 12 - 13 - 15 - 16 - 17 mm

Item			
503.4660	19 pcs		660

1 x		14 x 19 mm
9 x		8 - 9 - 10 - 11 - 12 - 13 - 15 - 16 - 17
9 x		E8 - E10 - E11 - E12 - E14 - E16 - E18 - E20 - E22

ACCESSORIES

GEARplus® bit adapter

- FlankTraction profile (12 point)
- Chrome plated and mirror polished
- Chrome vanadium

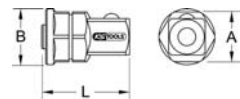


1/4" 5/16" 10 mm

Item		A mm	B mm	
503.4290	1/4" x 10mm	10.0	11.0	6
503.4292	5/16" x 13mm	13.0	15.5	11
503.4293	10mm x 13mm	13.0	21.0	17

GEARplus® socket adapter

- 6 point
- With quick release locking function
- Suitable for GEARplus® spanners
- Square drive adaptor to DIN 3120 - ISO 1174 with ball lock
- Chrome plated and mirror polished
- Chrome vanadium



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

Item		A mm	B mm	
503.4296	1/4" x 10mm	10.0	11.1	50
503.4297	3/8" x 13mm	13.0	14.5	70
503.4298	1/2" x 19mm	19.0	21.4	100

GEARplus® bit adapter set

- FlankTraction profile (12 point)
- Chrome plated and mirror polished
- Chrome vanadium



5/16" 10 mm

Item			
503.4294	2 pcs	GEARplus® bit adapter set	100

2 x		5/16" - 10 mm
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GEARplus® Socket adapter set, metric

- FlankTraction profile (12 point)
- Suitable for GEARplus® spanners
- Square drive adaptor to DIN 3120 - ISO 1174 with ball lock
- For bits to DIN 3126 / C 6,3
- Chrome plated and mirror polished
- Chrome vanadium



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

Item			
503.4286	4 pcs	GEARplus® socket adapter set, metric	270
1 x		1/4"	
3 x		1/4" - 3/8" - 1/2"	

GEARplus® socket adapter set, imperial

- FlankTraction profile (12 point)
- Suitable for GEARplus® spanners
- Square drive adaptor to DIN 3120 - ISO 1174 with ball lock
- For bits to DIN 3126 / C 6,3
- Chrome plated and mirror polished
- Chrome vanadium

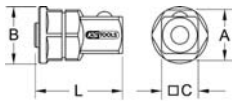


1/4" 3/8" 1/2"

Item			
503.4287	4 pcs	GEARplus® socket adapter set, imperial	100
1 x		1/4"	
3 x		1/4" - 3/8" - 1/2"	

GEARplus® socket adapter for ring stop spanner

- 6 point
- With quick release locking function
- Suitable for ring stop spanners
- Square drive adaptor to DIN 3120 - ISO 1174 with ball lock
- Chrome plated and mirror polished
- Chrome vanadium



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

Item		A mm	B mm	C mm	L mm	
503.4996	1/4" x 10mm	10.0	11.1	6.4	16.7	50
503.4997	3/8" x 13mm	13.0	14.5	9.6	21.7	70
503.4998	1/2" x 19mm	19.0	21.4	12.8	28.8	100



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117.1250	18	158.5011	35	503.4216	10, 40	503.4576	29, 49	503.4709	14, 45
117.1253	18	158.5012	35	503.4217	10, 40	503.4577	29, 49	503.4710	14, 45
117.1254	18	158.5013	35	503.4218	10, 40	503.4578	29, 49	503.4711	14, 45
117.1306	22	158.5014	35	503.4219	10, 40	503.4580	29, 49	503.4712	14, 45
117.1307	22	158.5408	35	503.4221	10, 40	503.4585	26, 48	503.4713	14, 45
117.1308	22	158.5409	35	503.4222	10, 40	503.4586	26, 48	503.4714	14, 45
117.1309	22	158.5410	35	503.4224	10, 40	503.4589	26, 48	503.4715	14, 45
117.1310	22	158.5413	35	503.4227	10, 40	503.4600	13, 44	503.4716	14, 45
117.1311	22	158.5414	35	503.4228	10, 40	503.4601	13, 43	503.4717	14, 45
117.1312	22	159.1200	35	503.4229	10, 40	503.4602	12, 43	503.4718	14, 45
117.1313	22	159.1201	34	503.4230	10, 40	503.4604	11, 42	503.4719	14, 45
117.1314	22	159.1202	34	503.4259	10, 41	503.4605	11, 43	503.4721	14, 45
117.1315	22	159.1203	34	503.4260	10, 41	503.4606	11, 42	503.4722	14, 45
117.1316	22	159.1204	34	503.4265	11, 41	503.4607	11, 42	503.4724	14, 45
117.1317	22	159.1205	34	503.4266	11, 41	503.4608	11, 42	503.4759	14, 45
117.1318	22	159.1206	34	503.4270	10, 41	503.4609	11, 42	503.4760	14, 45
117.1319	22	159.1207	34	503.4286	51	503.4610	11, 42	503.4765	14, 46
117.1322	22	159.1208	34	503.4287	51	503.4611	11, 42	503.4766	14, 46
117.1324	22	159.1209	34	503.4290	50	503.4612	11, 42	503.4800	16, 47
117.1327	22	159.1210	34	503.4292	50	503.4613	11, 42	503.4808	15, 46
117.1330	22	159.1211	34	503.4293	50	503.4614	11, 42	503.4809	15, 46
117.1332	22	159.1212	34	503.4294	50	503.4615	11, 42	503.4810	15, 46
117.1506	19	5		503.4296	50	503.4616	11, 42	503.4811	15, 46
117.1507	19	500.5010	22	503.4297	50	503.4617	11, 42	503.4812	15, 46
117.1508	19	500.5011	22	503.4298	50	503.4618	11, 42	503.4813	15, 46
117.1509	19	500.5012	22	503.4308	13, 44	503.4619	11, 42	503.4814	15, 46
117.1510	19	500.5013	22	503.4309	13, 44	503.4622	11, 42	503.4815	15, 46
117.1511	19	500.5017	22	503.4310	13, 44	503.4624	11, 42	503.4816	15, 46
117.1512	19	500.5019	22	503.4311	13, 44	503.4625	30, 50	503.4817	15, 46
117.1513	19	500.5022	22	503.4312	13, 44	503.4627	11, 42	503.4818	15, 46
117.1514	19	500.5024	22	503.4313	13, 44	503.4628	11, 42	503.4819	15, 46
117.1515	19	500.5027	22	503.4314	13, 44	503.4629	11, 42	503.4859	15, 46
117.1516	19	500.5032	22	503.4315	13, 44	503.4630	11, 42	503.4865	15, 47
117.1517	19	500.5606	22	503.4316	13, 44	503.4631	6, 40	503.4867	15, 47
117.1518	19	503.0100	45, 46	503.4317	13, 44	503.4632	6, 40	503.4868	16, 47
117.1519	19	503.4008	17, 42	503.4318	13, 44	503.4633	6, 40	503.4908	13, 44
117.1522	19	503.4010	17, 42	503.4319	13, 44	503.4634	6, 40	503.4909	13, 44
117.1524	19	503.4012	17, 42	503.4351	31, 49	503.4635	6, 40	503.4910	13, 44
117.1527	19	503.4013	17, 42	503.4353	31, 49	503.4636	6, 40	503.4911	13, 44
117.1530	19	503.4014	17, 42	503.4355	31, 49	503.4637	6, 40	503.4912	13, 44
117.1532	19	503.4015	17, 42	503.4357	31, 49	503.4638	6, 40	503.4913	13, 44
117.4206	22	503.4016	17, 42	503.4364	31, 50	503.4639	6, 40	503.4914	13, 44
117.4207	22	503.4017	17, 42	503.4390	13, 44	503.4640	6, 40	503.4915	13, 44
117.4208	22	503.4018	17, 42	503.4402	25, 47	503.4641	6, 40	503.4916	13, 44
117.4209	22	503.4019	17, 42	503.4403	25, 47	503.4642	6, 40	503.4917	13, 44
117.4210	22	503.4050	17, 42	503.4404	25, 47	503.4643	11, 42	503.4918	13, 44
117.4211	22	503.4102	10, 40	503.4405	25, 47	503.4644	11, 42	503.4919	13, 44
117.4212	22	503.4103	10, 40	503.4502	25, 47	503.4645	30, 50	503.4960	13, 45
117.4213	22	503.4104	10, 40	503.4503	25, 47	503.4646	12, 43	503.4978	44
117.4214	22	503.4105	10, 40	503.4504	25, 47	503.4647	12, 43	503.4979	44
117.4215	22	503.4106	10, 40	503.4505	25, 47	503.4650	12, 43	503.4980	44
117.4216	22	503.4107	10, 40	503.4506	25, 47	503.4652	6, 40	503.4981	44
117.4217	22	503.4108	10, 40	503.4507	25, 47	503.4653	6, 40	503.4982	44
117.4218	22	503.4109	10, 40	503.4511	25, 47	503.4655	26, 48	503.4983	44
117.4219	22	503.4200	11, 41	503.4512	25, 47	503.4656	26, 48	503.4984	44
117.4221	22	503.4202	10, 41	503.4540	26, 49	503.4657	26, 48	503.4985	44
117.4222	22	503.4204	10, 41	503.4541	26, 48	503.4660	30, 50	503.4986	44
117.4224	22	503.4205	10, 41	503.4543	26, 48	503.4665	12, 44	503.4987	44
117.4227	22	503.42055	10, 40	503.4546	26, 48	503.4666	12, 43	503.4988	44
117.4228	22	503.4206	10, 40	503.4552	25, 47	503.4681	11, 42	503.4989	44
117.4229	22	503.4207	10, 40	503.4556	26, 48	503.4683	11, 42	503.4996	51
117.4230	22	503.4208	10, 40	503.4557	25, 48	503.4684	11, 42	503.4997	51
158.5000	35	503.4209	10, 40	503.4560	26, 48	503.4685	11, 42	503.4998	51
158.50055	35	503.4210	10, 40	503.4565	26, 48	503.4686	11, 42	516.0608	8
158.5006	35	503.4211	10, 40	503.4571	29, 49	503.4687	11, 42	516.0609	8
158.5007	35	503.4212	10, 40	503.4572	29, 49	503.4688	11, 42	516.0610	8
158.5008	35	503.4213	10, 40	503.4573	29, 49	503.4689	11, 42	516.0611	8
158.5009	35	503.4214	10, 40	503.4574	29, 49	503.4700	15, 46	516.0612	8

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516.0616	8	517.0341	32	517.0620	7	517.0995	23, 37	517.1740	20
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516.0618	8	517.0343	32	517.0622	7	517.1008	32	517.1750	20
516.0619	8	517.0406	33	517.0623	7	517.1009	32	517.1755	20
516.0660	8	517.0407	33	517.0624	7	517.1010	32	517.1760	20
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517.0132	18, 37	517.0416	33	517.0641	7	517.1019	32	517.9001	21, 37
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517.0150	18, 37	517.0421	33	517.0707	19	517.1112	36	517.9027	21, 37
517.0155	18, 37	517.0422	33	517.0708	19	517.1113	36	517.9030	21, 37
517.0160	18, 37	517.0423	33	517.0709	19	517.1114	36	517.9032	21, 37
517.0165	18, 37	517.0424	33	517.0710	19	517.1115	36	517.9036	21, 37
517.0170	18, 37	517.0427	33	517.0711	19	517.1116	36	517.9041	21, 37
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517.0195	18, 37	517.0451	33	517.0716	19	517.1126	36	517.9065	21, 37
517.0196	18, 37	517.0452	33	517.0718	19	517.1127	36	517.9070	21, 37
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517.0252	23	517.0455	33	517.0736	19	517.1133	36	517.9085	21, 37
517.0253	23	517.0522	18	517.0737	19	517.1134	36	517.9090	21, 37
517.0254	23	517.0524	18	517.0801	27	517.1302	36	517.9095	21, 37
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517.0257	23	517.0530	18	517.0804	27	517.1304	36	517.9105	21, 37
517.0258	23	517.0532	18	517.0806	27	517.1305	36	518.0010	6
517.0260	23	517.0536	18	517.0807	27	517.1312	36	518.0011	6
517.0261	23	517.0538	18	517.0808	27	517.1313	36	518.0012	6
517.0263	23	517.0540	18	517.0809	27	517.1314	36	518.0013	6
517.0264	23	517.0541	18	517.0810	27	517.1315	36	518.0014	6
517.0265	23	517.0542	18	517.0811	27	517.1406	21	518.0015	6
517.0266	23	517.0546	18	517.0812	27	517.1408	21	518.0016	6
517.0267	23	517.0548	18	517.0813	27	517.1409	21	518.0017	6
517.0268	23	517.0550	18	517.0814	27	517.1410	21	518.0018	6
517.0269	23	517.0555	18	517.0815	27	517.1411	21	518.0019	6
517.0270	24	517.0560	18	517.0816	27	517.1412	21	518.0040	6
517.0300	31	517.0565	18	517.0817	27	517.1413	21	518.0043	7
517.0301	31	517.0570	18	517.0818	27	517.1414	21	518.0048	7
517.0302	31	517.0575	18	517.0819	27	517.1415	21	518.0052	7
517.0303	31	517.0580	18	517.0821	27	517.1416	21	518.0300	28
517.0304	31	517.0585	18	517.0825	27	517.1417	21	518.0307	28
517.0305	31	517.0590	18	517.0835	27	517.1418	21	518.0308	28
517.0306	31	517.0595	18	517.0924	23, 37	517.1419	21	518.0309	28
517.0307	31	517.0596	18	517.0927	23, 37	517.1420	21	518.0310	28
517.0308	31	517.0606	7	517.0930	23, 37	517.1422	21	518.0311	28
517.0310	31	517.0607	7	517.0932	23, 37	517.1423	21	518.0321	24
517.0315	32	517.0608	7	517.0936	23, 37	517.1425	21	518.0330	24
517.0316	32	517.0609	7	517.0941	23, 37	517.1426	21	518.0332	24
517.0317	32	517.0610	7	517.0946	23, 37	517.1430	21	518.0334	24
517.0318	32	517.0611	7	517.0950	23, 37	517.1432	21	518.0336	24
517.0319	32	517.0612	7	517.0955	23, 37	517.1436	21	518.0338	24
517.0320	32	517.0613	7	517.0960	23, 37	517.1441	21	518.0350	24
517.0330	31	517.0614	7	517.0965	23, 37	517.1446	21	518.0360	24
517.0332	31	517.0615	7	517.0970	23, 37	517.1490	21	518.0370	24
517.0333	31	517.0616	7	517.0975	23, 37	517.1491	21	518.0378	24

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