

Retaining bracket clip

- for Honda
- for Toyota/Lexus
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	
420.1757	10	15.0	20.4	9046709065, 90672671003	9
420.5757	50	15.0	20.4	9046709065, 90672671003	44

Push-type connection clip

- for Honda
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	
420.1370	10	13.6	9.1	91808SM4000	18
420.5370	50	13.6	9.1	91808SM4000	88

Trim clip

- for Honda
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	
420.1371	10	10.8	11.9	91534SEO000	8
420.5371	50	10.8	11.9	91534SEO000	40

Side indicator clip

- for Honda
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	
420.1372	10	13.8	8.0	34355SD2003	11
420.5372	50	13.8	8.0	34355SD2003	57

Rubber screw clip

- for Honda
- for Toyota/Lexus
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	
420.1357	10	14.0	10.0	9018904066, 90662693003	6
420.5357	50	14.0	10.0	9018904066, 90662693003	31

Car interior lining clip

- for Honda
- for Nissan
- for Isuzu
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	
420.1354	10	30.0	14.8	8942798070, 906675A70030	5
420.5354	50	30.0	14.8	8942798070, 906675A70030	26

Luggage compartment lining clip

- for Ford
- for Honda
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	
420.1358	10	16.0	27.0	90669SP0003ZA	6
420.5358	50	16.0	27.0	90669SP0003ZA	29

Round nut clip

- for Honda
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	
420.1353	10	14.2	15.1	9018904013, 90672671811M	7
420.5353	50	14.2	15.1	9018904013, 90672671811M	34

Rubber screw clip

- for Honda
- for Nissan
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	
420.1355	10	12.0	17.0	78856R4301, 906836930000	13
420.5355	50	12.0	17.0	78856R4301, 906836930000	64

Sealing clip

- for Honda
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	
420.1913	10	5.1	7.8	91530ST5003	3
420.5913	50	5.1	7.8	91530ST5003	15

Car interior lining connection clip

- for Honda
- for Toyota/Lexus
- for Subaru
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	
420.1356	10	18.0	14.0	9046710161, 909130115, 91560S6A003	11
420.5356	50	18.0	14.0	9046710161, 909130115, 91560S6A003	54

UNIVERSAL FASTENING CLIPS ALSO FOR HONDA

Push-type clip

- for Honda
- for Mazda
- for Opel
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	Icon
420.1406	10	14.0	11.0	90657SA60030, 9418687, N30413356A	7
420.5406	50	14.0	11.0	90657SA60030, 9418687, N30413356A	37

Cable harness fastening

- for Honda
- for Nissan
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	Icon
420.1559	10	18.0	20.0	7699601P02, 90667SA0003	10
420.5559	50	18.0	20.0	7699601P02, 90667SA0003	48

Mudguard bumper clip

- for Honda
- for Mitsubishi
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	Icon
420.1506	10	20.0	13.0	MR200300	19
420.5506	50	20.0	13.0	MR200300	97

FASTENING CLIPS FOR ISUZU

Fastening clip

- for Mazda
- for Toyota/Lexus
- for Isuzu
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	Icon
420.1401	10	10.2	21.0	6777112010, 8942264920, 992740825	11
420.5401	50	10.2	21.0	6777112010, 8942264920, 992740825	56

Push-type clip

- for Nissan
- for Isuzu
- for Kia
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	Icon
420.1554	10	17.0	13.0	1099830880, 8942981190, KK37668868	8
420.5554	50	17.0	13.0	1099830880, 8942981190, KK37668868	39

Push-type clip

- for Nissan
- for Isuzu
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	Icon
420.1556	10	14.2	9.0	63844D0100, 8942211500	10
420.5556	50	14.2	9.0	63844D0100, 8942211500	51

Car interior lining clip

- for Honda
- for Nissan
- for Isuzu
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	Icon
420.1354	10	30.0	14.8	8942798070, 90667SA70030	5
420.5354	50	30.0	14.8	8942798070, 90667SA70030	26

Cable harness fastening

- for Opel
- for Isuzu
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	Icon
420.1309	10	18.0	23.0	894145510, 94145515	11
420.5309	50	18.0	23.0	894145510, 94145515	56

FASTENING CLIPS FOR KIA

Push-type clip

- for Nissan
- for Isuzu
- for Kia
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	Icon
420.1554	10	17.0	13.0	1099830880, 8942981190, KK37668868	8
420.5554	50	17.0	13.0	1099830880, 8942981190, KK37668868	39

FASTENING CLIPS FOR MAZDA

Push-type clip

- for Mazda
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	Icon
420.1402	10	15.2	12.6	2042301, MB345544	8
420.5402	50	15.2	12.6	2042301, MB345544	40

Square nut clip

- for Mazda
- for Nissan
- for Toyota/Lexus
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	Icon
420.1404	10	9.8	16.7	0128100501, 999100402	5
420.5404	50	9.8	16.7	0128100501, 999100402	23

Retaining bracket clip

- for Mazda
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	Icon
420.1405	10	15.3	15.0	9095001248, B0016830200	9
420.5405	50	15.3	15.0	9095001248, B0016830200	46

Push-type clip

- for Honda
- for Mazda
- for Opel
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	Icon
420.1406	10	14.0	11.0	90657SA60030, 9418687, N30413356A	7
420.5406	50	14.0	11.0	90657SA60030, 9418687, N30413356A	37

Bumper connection clip

- for Mazda
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	Icon
420.1415	10	20.3	11.0	10,0 BF6750033	25
420.5415	50	20.3	11.0	10,0 BF6750033	123

Fastening clip

- for Mazda
- for Nissan
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	Icon
420.1408	10	11.0	15.0	0155300291, 992640543A	4
420.5408	50	11.0	15.0	0155300291, 992640543A	19

Swivel head clip

- for Mazda
- in poly bag



Content	Head Ø mm	Ø mm	OE	Icon	
420.1416	10	4.0	6.0	992780405	8
420.5416	50	4.0	6.0	992780405	38

Swivel head clip

- for Mazda
- in poly bag



Content	Head Ø mm	Ø mm	OE	Icon	
420.1417	10	4.0	6.0	992780404	8
420.5417	50	4.0	6.0	992780404	39

Cable harness connection clip

- for Mazda
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	Icon
420.1418	10	12.0	12.0	4,0 99249051B	4
420.5418	50	12.0	12.0	4,0 99249051B	18

Bonnet stripped insulation fastening

- for Ford
- for Mazda
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	Icon
420.1409	10	20.0	9.0	6,0 6508197AA, F22Z16774A	3
420.5409	50	20.0	9.0	6,0 6508197AA, F22Z16774A	16

Bumper cover clip

- for Mazda
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	Icon
420.1410	10	23.3	20.0	10,0 BF8250233	31
420.5410	50	23.3	20.0	10,0 BF8250233	156

Push-type clip

- for Mazda
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1411	10	14.0	16.0	B1016825200	6
420.5411	50	14.0	16.0	B1016825200	30

Door and window rubber clip

- for Mazda
- for Toyota/Lexus
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1413	10	5.2	10.0	6786889101, G03158762	2
420.5413	50	5.2	10.0	6786889101, G03158762	12

Car interior lining clip

- for Mazda
- for Toyota/Lexus
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1403	10	18.6	14.2	6258114020, 992740822	9
420.5403	50	18.6	14.2	6258114020, 992740822	43

Push-type clip

- for Mazda
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1412	10	18.0	14.0	B09251833	11
420.5412	50	18.0	14.0	B09251833	55

Push-type connection clip

- for Mazda
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1419	10	20.0	15.0	BC1DSA145	17
420.5419	50	20.0	15.0	BC1DSA145	83

Fastening clip

- for Mazda
- for Toyota/Lexus
- for Isuzu
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1401	10	10.2	21.0	6777112010, 8942264920, 992740825	11
420.5401	50	10.2	21.0	6777112010, 8942264920, 992740825	56

Trim clip

- for Mazda
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1420	10	18.0	14.0	992640543A	5
420.5420	50	18.0	14.0	992640543A	23

Wheel case connection clip

- for Mazda
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1766	10	18.0	15.0	9046709139	18
420.5766	50	18.0	15.0	9046709139	89

Front grill clip

- for Mazda
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1407	10	19.5	15.0	GD7A50EA1	26
420.5407	50	19.5	15.0	GD7A50EA1	130

Connection clip

- for Ford
- for Mazda
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1260	10	14.0	10.0	B45556741, F1CZ16674A	5
420.5260	50	14.0	10.0	B45556741, F1CZ16674A	25



UNIVERSAL FASTENING CLIPS ALSO FOR MAZDA

Square nut clip

- for Mazda
- for Nissan
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	
420.1551	10	9.2	6.6	96706B0700, 999100501	3
420.5551	50	9.2	6.6	96706B0700, 999100501	14

Square nut clip

- for Mazda
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	
420.1903	10	16.0	12.0	999100501	7
420.5903	50	16.0	12.0	999100501	33



Bumper cover clip

- for Mazda
- for Nissan
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	
420.1555	10	20.3	18.0	0155301393, BF8250233	27
420.5555	50	20.3	18.0	0155301393, BF8250233	136

Fastening clip

- for Mazda
- for Nissan
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	
420.1106	10	18.5	17.3	76906T300, 813350022	6
420.5106	50	18.5	17.3	76906T300, 813350022	31

Push-type connection clip

- for Ford
- for Mazda
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	
420.1267	10	18.0	18.0	NAU156145, W706713S300	9
420.5267	50	18.0	18.0	NAU156145, W706713S300	47

FASTENING CLIPS FOR MERCEDES

Push-type connection clip

- for Mercedes
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	
420.1453	10	18.0	19.0	A1269900392	19
420.5453	50	18.0	19.0	A1269900392	96

Connection clip

- for Mercedes
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	
420.1454	10	18.3	14.5	A0019882981	6
420.5454	50	18.3	14.5	A0019882981	30

Push-type connection clip

- for Mercedes
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	
420.1455	10	16.0	18.0	A1249900492	8
420.5455	50	16.0	18.0	A1249900492	41

Connection clip

- for Mercedes
- in poly bag



Context	Head Ø mm	Length mm	OE		
420.1456	10	22.8	32.3	A0019888081	35
420.5456	50	22.8	32.3	A0019888081	177

Connection clip

- for Mercedes
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1457	10	18.0	18.0	A1249880492	35
420.5457	50	18.0	18.0	A1249880492	175

Push-type connection clip

- for Mercedes
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1458	10	18.0	19.0	A9904692	16
420.5458	50	18.0	19.0	A9904692	78

Push-type connection clip

- for Mercedes
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1459	10	9.9	10.7	A0009908492	5
420.5459	50	9.9	10.7	A0009908492	23

Connection clip

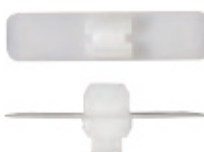
- for Mercedes
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1460	10	20.1	10.0	A0019880325	70
420.5460	50	20.1	10.0	A0019880325	350

Cable harness connection clip

- for Mercedes
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1461	10	18.9	27.2	A1406980260	15
420.5461	50	18.9	27.2	A1406980260	76

Connection clip

- for Mercedes
- in poly bag



Context	Width mm	Length mm	OE	QTY	
420.1462	10	15.5	22.5	A0019885081	17
420.5462	50	15.5	22.5	A0019885081	84

Connection clip

- for Mercedes
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1463	10	4.9	15.9	A0019884481	9
420.5463	50	4.9	15.9	A0019884481	43

Plastic clamping nuts

- for Citroën/Peugeot
- for Mercedes
- for Renault
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1452	10	16.3	16.7	7703074022, A108980027	5
420.5452	50	16.3	16.7	7703074022, A108980027	26

Drive-in clip

- for Mercedes
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1451	10	13.0	14.0	A0009903792	10
420.5451	50	13.0	14.0	A0009903792	48

Boot interior lining clip

- for Citroën/Peugeot
- for Mercedes
- in poly bag



Context	Head Ø mm	Ø mm	OE	QTY	
420.1465	10	20.0	8.0	1239900292, 781324	11
420.5465	50	20.0	8.0	1239900292, 781324	57

Metal screw/washer

- for BMW
- for Mercedes
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	
420.1464	10	10.8	18.8	07119916946, N914031006203	81
420.5464	50	10.8	18.8	07119916946, N914031006203	404

UNIVERSAL FASTENING CLIPS ALSO FOR MERCEDES

Push-type clip

- for Citroën/Peugeot
- for Mercedes
- for Volvo
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	
420.1651	10	10.0	7.0	790307216, 947098, A0009903492	3
420.5651	50	10.0	7.0	790307216, 947098, A0009903492	15

Drive-in rivet

- for BMW
- for Mercedes
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	
420.1060	10	20.0	15.0	2019900292, 30820141, 81471911992	15
420.5060	50	20.0	15.0	2019900292, 30820141, 81471911992	75

FASTENING CLIPS FOR MITSUBISHI

Front grill clip

- for Honda
- for Mitsubishi
- for Toyota/Lexus
- in poly bag



Context	Width mm	Length mm	OE	
420.1753	10	13.6	8942180270, 9046712020	7
420.5753	50	13.6	8942180270, 9046712020	37

Square nut clip

- for Mitsubishi
- in poly bag



Context	Head Ø mm	Length mm	Ø (Ømm)	OE	
420.1501	10	11.9	10.5	9018905013	7
420.5501	50	11.9	10.5	9018905013	35

Round nut clip

- for Mitsubishi
- for Toyota/Lexus
- in poly bag



Context	Head Ø mm	Length mm	Ø (Ømm)	OE	
420.1502	10	17.7	16.3	9018906001, MU480033	11
420.5502	50	17.7	16.3	9018906001, MU480033	53

Round nut clip

- for Mitsubishi
- for Nissan
- for Toyota/Lexus
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	
420.1755	10	16.4	17.3	128100231, 9018906001	12
420.5755	50	16.4	17.3	128100231, 9018906001	60

Screw grommet

- for Mitsubishi
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	
420.1508	10	16.6	18.0	MU480034	12
420.5508	50	16.6	18.0	MU480034	61

Push-type clip

- for Mitsubishi
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	
420.1509	10	20.0	26.0	MR138807	21
420.5509	50	20.0	26.0	MR138807	106

Push-type clip

- for Mitsubishi
- in poly bag



Part no.	Center	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1503	10	20.5	20.7	8.0	MB253964	19
420.5503	50	20.5	20.7	8.0	MB253964	97

Connection clip

- for Mitsubishi
- in poly bag



Part no.	Center	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1510	10	18.3	15.5	8.0	HB121467	10
420.5510	50	18.3	15.5	8.0	HB121467	50

Bumper cover clip

- for Mitsubishi
- in poly bag



Part no.	Center	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1505	10	24.2	21.8	12.8	MB271999	28
420.5505	50	24.2	21.8	12.8	MB271999	139

Trim clip

- for Mitsubishi
- in poly bag



Part no.	Center	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1511	10	16.0	11.0	9.0	MB696120	9
420.5511	50	16.0	11.0	9.0	MB696120	44

Mudguard/bumper clip

- for Honda
- for Mitsubishi
- in poly bag



Part no.	Center	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1506	10	20.0	13.0	10.0	MR200300	19
420.5506	50	20.0	13.0	10.0	MR200300	97

Door sill clip

- for Mitsubishi
- in poly bag



Part no.	Center	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1512	10	16.0	14.0	7.0	MB846992	11
420.5512	50	16.0	14.0	7.0	MB846992	54

Bonnet stripped insulation fastening

- for Mitsubishi
- for Chrysler
- in poly bag



Part no.	Center	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1504	10	26.0	8.0	10.0	MB020923	9
420.5504	50	26.0	8.0	10.0	MB020923	45

Door trim clip

- for Mitsubishi
- in poly bag



Part no.	Center	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1507	10	16.0	24.0	6.0	MB566719	10
420.5507	50	16.0	24.0	6.0	MB566719	49

UNIVERSAL FASTENING CLIPS ALSO FOR MITSUBISHI

Square nut clip

- for Mitsubishi
- in poly bag



Part no.	Center	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1902	10	13.1	15.1	10.5	MB293328	10
420.5902	50	13.1	15.1	10.5	MB293328	48

Rubber screw clip

- for Mitsubishi
- for Toyota/Lexus
- in poly bag



Part no.	Center	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1760	10	12.0	16.0	10.0	9018904008, MB083120	18
420.5760	50	12.0	16.0	10.0	9018904008, MB083120	89

FASTENING CLIPS FOR NISSAN

Fastening clip

- for Mazda
- for Nissan
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1106	10	18.5	17.3	76906T300, 813350022	6
420.5106	50	18.5	17.3	76906T300, 813350022	31

Fastening clip

- for Nissan
- for Toyota/Lexus
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1751	10	30.4	15.5	0155300172, 9046707050	3
420.5751	50	30.4	15.5	0155300172, 9046707050	17

Square nut clip

- for Nissan
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1552	10	16.7	8.0	68425H5000	10
420.5552	50	16.7	8.0	68425H5000	51



Push-type clip

- for Honda
- for Nissan
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1352	10	20.6	9.5	75521611000, 906755B003	13
420.5352	50	20.6	9.5	75521611000, 906755B003	63

Fastening clip

- for Nissan
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1561	10	14.1	10.5	62869N4700	5
420.5561	50	14.1	10.5	62869N4700	26

Grill grommet

- for Nissan
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1562	10	21.5	8.1	62380U7400	20
420.5562	50	21.5	8.1	62380U7400	101

Push-type clip

- for Ford
- for Nissan
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1553	10	19.2	12.9	1007932, 6384401.A00	29
420.5553	50	19.2	12.9	1007932, 6384401.A00	143

Push-type clip

- for Nissan
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1563	10	17.7	21.0	7688257A00	13
420.5563	50	17.7	21.0	7688257A00	66

Radiator grill clip

- for Nissan
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1564	10	11.8	7.2	6684101G00	5
420.5564	50	11.8	7.2	6684101G00	27

Push-type clip

- for Nissan
- for Isuzu
- for Kia
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1554	10	17.0	13.0	1099830880, 8942981190, KK37668868	8
420.5554	50	17.0	13.0	1099830880, 8942981190, KK37668868	39

Bumper cover clip

- for Mazda
- for Nissan
- in poly bag



Contnr	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1555	10	20.3	18.0	0155301393, BF8250233	27
420.5555	50	20.3	18.0	0155301393, BF8250233	136

Nylon U-nut

- for Nissan
- in poly bag



Contnr	Width mm	Length mm	Stroke mm	OE	QTY
420.1414	10	31.0	22.0	5378914010, 63848D400	27
420.5414	50	31.0	22.0	5378914010, 63848D400	133

Car interior lining clip

- for Honda
- for Nissan
- for Isuzu
- in poly bag



Contnr	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1354	10	30.0	14.8	8942798070, 90667SA70030	5
420.5354	50	30.0	14.8	8942798070, 90667SA70030	26

Push-type clip

- for Nissan
- in poly bag



Contnr	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1565	10	20.0	22.0	8.0 6387801E10	13
420.5565	50	20.0	22.0	8.0 6387801E10	67

Sheet plug

- for Nissan
- in poly bag



Contnr	Head Ø mm	OE	QTY
420.1566	10	29.4 22.2	14
420.5566	50	29.4 22.2	68

Rubber screw clip

- for Honda
- for Nissan
- in poly bag



Contnr	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1395	10	12.0	17.0	8.5 78856R4301, 908836930000	13
420.5395	50	12.0	17.0	8.5 78856R4301, 908836930000	64

Push-type clip

- for Nissan
- for Volvo
- in poly bag



Contnr	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1560	10	20.0	14.0	8.0 6384801G00	13
420.5560	50	20.0	14.0	8.0 6384801G00	66

Push-type rivet

- for Nissan
- in poly bag



Contnr	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1567	10	20.0	20.0	8.0 6385401A00	118
420.5567	50	20.0	20.0	8.0 6385401A00	590

Square nut clip

- for Mazda
- for Nissan
- in poly bag



Contnr	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1551	10	9.2	6.6	7.0 9670680700, 999100501	3
420.5551	50	9.2	6.6	7.0 9670680700, 999100501	14

Push-type clip

- for Nissan
- for Isuzu
- in poly bag



Contnr	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1556	10	14.2	9.0	7.0 63844D0100, 8942211500	10
420.5556	50	14.2	9.0	7.0 63844D0100, 8942211500	51

Splash guard connection clip

- for Nissan
- for Opel
- in poly bag



Contnr	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1557	10	13.7	16.5	6.0 6686001W01, 94051933	6
420.5557	50	13.7	16.5	6.0 6686001W01, 94051933	30

UNIVERSAL FASTENING CLIPS ALSO FOR NISSAN

Fastening clip

- for Mazda
- for Nissan
- in poly bag



	Center	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1408	10	11.0	15.0	5.5	0155300291, 992640543A	4
420.5408	50	11.0	15.0	5.5	0155300291, 992640543A	19

Push-type clip

- for Nissan
- for Toyota/Lexus
- in poly bag



	Center	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1767	10	19.5	14.0	8.0	0155301553, 6777152010B1	14
420.5767	50	19.5	14.0	8.0	0155301553, 6777152010B1	70

Connection clip

- for Honda
- for Nissan
- in poly bag



	Center	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1369	10	13.2	14.8	5.0	01553, 90687SA50030	6
420.5369	50	13.2	14.8	5.0	01553, 90687SA50030	29

Square nut clip

- for Nissan
- for Toyota/Lexus
- in poly bag



	Center	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1758	10	9.2	13.1	7.7	75521611000, 96706P0105	8
420.5758	50	9.2	13.1	7.7	75521611000, 96706P0105	40

Round nut clip

- for Mitsubishi
- for Nissan
- for Toyota/Lexus
- in poly bag



	Center	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1755	10	16.4	17.3	8.5	128100231, 9018906001	12
420.5755	50	16.4	17.3	8.5	128100231, 9018906001	60

Square nut clip

- for Mazda
- for Nissan
- for Toyota/Lexus
- in poly bag



	Center	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1404	10	9.8	16.7	8.0	0128100501, 999100402	5
420.5404	50	9.8	16.7	8.0	0128100501, 999100402	23

Door panel clip

- for Nissan
- for Toyota/Lexus
- in poly bag



	Center	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1761	10	14.0	8.0	10.0	0153301733, 9046701766	8
420.5761	50	14.0	8.0	10.0	0153301733, 9046701766	38



Push-type clip

- for Nissan
- for Volvo
- in poly bag



	Center	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1558	10	18.0	11.0	7.0	8099905N07, 9046707043	11
420.5558	50	18.0	11.0	7.0	8099905N07, 9046707043	56

Cable harness fastening

- for Honda
- for Nissan
- in poly bag



	Center	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1559	10	18.0	20.0	6.0	7699601P02, 90667SA0003	10
420.5559	50	18.0	20.0	6.0	7699601P02, 90667SA0003	48

Engine grill cable fastening

- for Nissan
- in poly bag



	Center	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1568	10	12.0	16.0	6.0	0153301781	5
420.5568	50	12.0	16.0	6.0	0153301781	23

FASTENING CLIPS FOR OPEL

Connection clip

- for Opel
- in poly bag



Center	Head Ø mm	Length mm	Ø mm	OE		
420.1603	10	27.0	12.0	16.0	90218614	17
420.5603	50	27.0	12.0	16.0	90218614	86

Trim clip

- for Ford
- for Opel
- in poly bag



Center	Head Ø mm	Length mm	Ø mm	OE		
420.1602	10	18.5	18.3	7.7	1591426, 174864	7
420.5602	50	18.5	18.3	7.7	1591426, 174864	34

Drive-in connection clip

- for Audi
- for Citroën/Peugeot
- for Opel
- for Volkswagen
- in poly bag



Center	Head Ø mm	Length mm	Ø mm	OE		
420.1857	10	12.3	17.5	8.4	7814.24, N0385501	6
420.5857	50	12.3	17.5	8.4	7814.24, N0385501	30

Connection clip

- for Audi
- for Citroën/Peugeot
- for Opel
- for Volkswagen
- in poly bag



Center	Head Ø mm	Length mm	Ø mm	OE		
420.1604	10	18.0	20.0	8.2	2345959, 7701053516, 7L5853994	9
420.5604	50	18.0	20.0	8.2	2345959, 7701053516, 7L5853994	43

Connection clip

- for Opel
- in poly bag



Center	Head Ø mm	Length mm	Ø mm	OE		
420.1605	10	17.0	13.5	9.5	2240582	8
420.5605	50	17.0	13.5	9.5	2240582	42

Plastic screw

- for Opel
- in poly bag



Center	Head Ø mm	Length mm	Ø mm	OE		
420.1606	10	16.0	12.9	9.7	180942	15
420.5606	50	16.0	12.9	9.7	180942	73

Fastening clip

- for Opel
- for Volkswagen
- in poly bag



Center	Head Ø mm	Length mm	Ø mm	OE		
420.1601	10	15.8	18.4	6.0	15979, 1H0837719	3
420.5601	50	15.8	18.4	6.0	15979, 1H0837719	17

UNIVERSAL FASTENING CLIPS ALSO FOR OPEL

Cable harness fastening

- for BMW
- for Opel
- for Volkswagen
- in poly bag



Center	Head Ø mm	Length mm	Ø mm	OE		
420.1856	10	20.3	20.2	9.1	2207713, 514719044317, N9020160H	13
420.5856	50	20.3	20.2	9.1	2207713, 514719044317, N9020160H	63

Door strip fastening

- for Opel
- for Volkswagen
- for Chrysler
- in poly bag



Center	Head Ø mm	Length mm	Ø mm	OE		
420.1851	10	24.2	18.5	7.7	6003349, 9685057, N98905101	14
420.5851	50	24.2	18.5	7.7	6003349, 9685057, N98905101	71

Push-type clip

- for Opel
- for Chrysler
- in poly bag



Center	Head Ø mm	Length mm	Ø mm	OE		
420.1301	10	17.3	13.5	6.3	14019205, 34201621	11
420.5301	50	17.3	13.5	6.3	14019205, 34201621	53

Tail light connection clip

- for Opel
- for Volkswagen
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	
420.1853	10	12.9	7.8	179813881, 3997391	4
420.5853	50	12.9	7.8	179813881, 3997391	21

Dashboard connection clip

- for Opel
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	
420.1302	10	25.4	22.7	5973996	34
420.5302	50	25.4	22.7	5973996	169

Door and window rubber clip

- for Opel
- for Chrysler
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	
420.1102	10	10.0	11.7	20699808, 5502328	3
420.5102	50	10.0	11.7	20699808, 5502328	13



Push-type clip

- for Honda
- for Mazda
- for Opel
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	
420.1406	10	14.0	11.0	906575A60030, 9418687, N30413356A	7
420.5406	50	14.0	11.0	906575A60030, 9418687, N30413356A	37

Splash guard connection clip

- for Nissan
- for Opel
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	
420.1557	10	13.7	16.5	6686001W01, 94051933	6
420.5557	50	13.7	16.5	6686001W01, 94051933	30

Door lock clip

- for Opel
- in poly bag



Content	Head Ø mm	Ø mm	OE		
420.1303	10	3.9	6.0	9815325, D2V28521952A	9
420.5303	50	3.9	6.0	9815325, D2V28521952A	43

Headlamp union nut

- for Opel
- for Volkswagen
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	
420.1855	10	10.5	14.8	1370853, 441035555	4
420.5855	50	10.5	14.8	1370853, 441035555	22

Blind rivet connection clip

- for Opel
- for Chrysler
- in poly bag



Content	Length mm	Ø mm	OE		
420.1304	10	46.0	5.1	204655395, 6004212	7
420.5304	50	46.0	5.1	204655395, 6004212	34

Blind rivet connection clip

- for Opel
- in poly bag



Content	Length mm	Ø mm	OE		
420.1305	10	54.0	5.9	10036503	18
420.5305	50	54.0	5.9	10036503	91

Push-type clip

- for Ford
- for Opel
- for Chrysler
- in poly bag



	Centers	Head Ø mm	Length mm	Ø mm	OE	
420.1254	10	17.8	17.5	6.3	10139822, 1673046, 6508197AA	9
420.5254	50	17.8	17.5	6.3	10139822, 1673046, 6508197AA	46

Blind rivet connection clip

- for Opel
- in poly bag



	Centers	Length mm	Ø mm	OE	
420.1306	10	53.4	7.1	10109689	19
420.5306	50	53.4	7.1	10109689	96

Bumper cover clip

- for Ford
- for Opel
- in poly bag



	Centers	Head Ø mm	Length mm	Ø mm	OE	
420.1307	10	17.9	16.4	7.8	16674629, N806113S	6
420.5307	50	17.9	16.4	7.8	16674629, N806113S	32

Bumper connection clip

- for Opel
- for Chrysler
- in poly bag



	Centers	Head Ø mm	Length mm	Ø mm	OE	
420.1308	10	21.0	25.0	12.0	10140480, 6502625	22
420.5308	50	21.0	25.0	12.0	10140480, 6502625	109

Cable harness fastening

- for Opel
- for Isuzu
- in poly bag



	Centers	Head Ø mm	Length mm	Ø mm	OE	
420.1309	10	18.0	23.0	7.0	894145510, 94145515	11
420.5309	50	18.0	23.0	7.0	894145510, 94145515	56

Dashboard connection clip

- for Opel
- in poly bag



	Centers	Head Ø mm	Length mm	Ø mm	OE	
420.1310	10	15.0	23.0	6.0	15681408	11
420.5310	50	15.0	23.0	6.0	15681408	53

Air baffle connection clip

- for Opel
- for Chrysler
- in poly bag



	Centers	Head Ø mm	Length mm	Ø mm	OE	
420.1311	10	20.0	20.0	8.0	21030249, 6503598&	18
420.5311	50	20.0	20.0	8.0	21030249, 6503598&	91

Cable harness connection clip

- for BMW
- for Opel
- in poly bag



	Centers	Head Ø mm	Length mm	Ø mm	OE	
420.1373	10	18.0	27.6	7.6	10124502	9
420.5373	50	18.0	27.6	7.6	10124502	43

Bonnet stripped insulation fastening

- for Opel
- in poly bag



	Centers	Head Ø mm	Length mm	Ø mm	OE	
420.1313	10	19.0	25.4	7.9	20200750	2
420.5313	50	19.0	25.4	7.9	20200750	12

Door panel clip

- for Opel
- in poly bag



	Centers	Head Ø mm	Length mm	Ø mm	OE	
420.1314	10	3.9	7.6	1662990, 16675980	24	
420.5314	50	3.9	7.6	1662990, 16675980	120	

Car interior lining clip

- for Opel
- for Chrysler
- in poly bag



	Centers	Head Ø mm	Length mm	Ø mm	OE	
420.1315	10	14.5	17.5	9.0	4005099, 6033862, 796255	11
420.5315	50	14.5	17.5	9.0	4005099, 6033862, 796255	53

Tail light connection clip

- for Ford
- for Opel
- for Chrysler
- in poly bag



	Centers	Head Ø mm	Length mm	Ø mm	OE	
420.1316	10	7.0	12.1	4.7	16500308, 6500787	4
420.5316	50	7.0	12.1	4.7	16500308, 6500787	19

Plastic rivet

- for Ford
- for Opel
- for Chrysler
- in poly bag



	Centers	Length mm	Ø mm	OE	
420.1275	10	55.5	6.3	14063981, 6500911, N8030433	18
420.5275	50	55.5	6.3	14063981, 6500911, N8030433	88

Plastic rivet

- for Opel
- in poly bag



	Centers	Length mm	Ø mm	OE	
420.1317	10	50.8	6.3	15506827	18
420.5317	50	50.8	6.3	15506827	90

Plastic rivet

- for Opel
- in poly bag



	Centers	Length mm	Ø mm	OE	
420.1318	10	55.6	6.3	14070914	17
420.5318	50	55.6	6.3	14070914	87

Drive rivet for air conditioning

- for Opel
- in poly bag



	Centers	Head Ø mm	Length mm	Ø mm	OE	
420.1319	10	11.3	7.0	4.9	14005089	4
420.5319	50	11.3	7.0	4.9	14005089	22

FASTENING CLIPS FOR RENAULT

Door strip fastening

- for Renault
- in poly bag



	Centers	Head Ø mm	Length mm	Ø mm	OE	
420.1702	10	20.0	10.0	6.8	7703077421	9
420.5702	50	20.0	10.0	6.8	7703077421	47

Insert connection clip

- for Renault
- in poly bag



	Centers	Head Ø mm	Length mm	Ø mm	
420.1916	10	15.5	15.6	8.6	11
420.5916	50	15.5	15.6	8.6	54

Push-type fastening clip

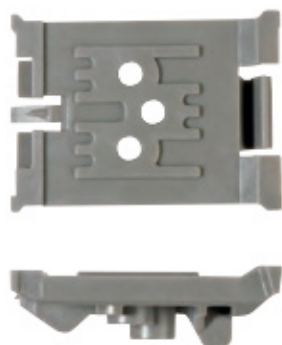
- for Renault
- in poly bag



	Centers	Head Ø mm	Length mm	Ø mm	OE	
420.1703	10	14.0	14.0	8.0	7703081184	8
420.5703	50	14.0	14.0	8.0	7703081184	42

Buckle

- for Renault
- in poly bag



Context	Head Ø mm	Width mm	Length mm	Ø mm	QTY
420.1917	10	25.1	36.5	35	
420.5917	50	25.1	36.5	176	

Plastic clamping nuts

- for Citroën/Peugeot
- for Mercedes
- for Renault
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1452	10	16.3	16.7	7703074022, A108980027	5
420.5452	50	16.3	16.7	7703074022, A108980027	26

Insert connection clip

- for Citroën/Peugeot
- for Fiat
- for Renault
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1701	10	16.8	11.0	14188380, 7703077059	7
420.5701	50	16.8	11.0	14188380, 7703077059	36

Door trim clip

- for Citroën/Peugeot
- for Renault
- in poly bag



Context	Head Ø mm	Ø mm	OE	QTY
420.1704	10	18.0	09409083085ES, 699636	9
420.5704	50	18.0	09409083085ES, 699636	46

Push-type clip

- for Citroën/Peugeot
- for Renault
- in poly bag



Context	Head Ø mm	Ø mm	OE	QTY
420.1705	10	36.0	7518N8, 7703077225	23
420.5705	50	36.0	7518N8, 7703077225	114

UNIVERSAL FASTENING CLIPS ALSO FOR RENAULT

Engine bonnet clip

- for Citroën/Peugeot
- for Renault
- for Chrysler
- in poly bag



Context	Head Ø mm	Ø mm	OE	QTY
420.1151	10	19.8	856553	16
420.5151	50	19.8	856553	79

Connection clip

- for Audi
- for Citroën/Peugeot
- for Opel
- for Volkswagen
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1604	10	18.0	20.0	2345959, 7701053516, 7L5853994	9
420.5604	50	18.0	20.0	2345959, 7701053516, 7L5853994	43

FASTENING CLIPS FOR SEAT

Extraction hood support

- for Audi
- for Seat
- in poly bag



Context	Head Ø mm	Width mm	Ø mm	OE	QTY
420.1008	10	27.6	16.0	1H0823397	20
420.5008	50	27.6	16.0	1H0823397	99

Quick-release fastener

- for Audi
- for Volkswagen
- for Seat
- for Skoda
- in poly bag



Context	Ø mm	OE	QTY
420.1014	10	N90335004, N90335006	24
420.5014	50	N90335004, N90335006	119

Quick-release fastener

- for Audi
- for Volkswagen
- for Seat
- in poly bag



Code	Ø mm	OE	QTY
420.1015	10	N90796501	22
420.5015	50	N90796501	112

FASTENING CLIPS FOR ŠKODA

Connection rubber seal

- for Audi
- for Volkswagen
- for Škoda
- in poly bag



Code	Width mm	OE	QTY
420.1003	10	1H0853585A	31
420.5003	50	1H0853585A	157

Trim clip

- for Audi
- for Škoda
- in poly bag



Code	Head Ø mm	Ø mm	OE	QTY
420.1018	10	21.0	703867299	8
420.5018	50	21.0	703867299	39

Quick-release fastener

- for Audi
- for Volkswagen
- for Seat
- for Škoda
- in poly bag



Code	Ø mm	OE	QTY
420.1014	10	N90335004, N90335006	24
420.5014	50	N90335004, N90335006	119

FASTENING CLIPS FOR SUBARU

Car interior lining connection clip

- for Honda
- for Toyota/Lexus
- for Subaru
- in poly bag



Code	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1356	10	18.0	14.0	9046710161, 909130115, 9156056A003	11
420.5356	50	18.0	14.0	9046710161, 909130115, 9156056A003	54

FASTENING CLIPS FOR TOYOTA/LEXUS

Bonnet stripped insulation fastening

- for Toyota/Lexus
- in poly bag



Code	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1752	10	30.0	16.0	9046709006	15
420.5752	50	30.0	16.0	9046709006	73

Round nut clip

- for Mitsubishi
- for Nissan
- for Toyota/Lexus
- in poly bag



Code	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1755	10	16.4	17.3	128100231, 9018906001	12
420.5755	50	16.4	17.3	128100231, 9018906001	60

Push-type clip

- for Toyota/Lexus
- in poly bag



Code	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1769	10	20.0	11.3	9046707138	16
420.5769	50	20.0	11.3	9046707138	78

Push-type clip

- for Toyota/Lexus
- in poly bag



Code	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1770	10	16.8	8.0	9046707117	8
420.5770	50	16.8	8.0	9046707117	40

Connection clip

- for Toyota/Lexus
- in poly bag



Code	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1771	10	14.0	19.5	9046709138	7
420.5771	50	14.0	19.5	9046709138	33

Bumper clip

- for Toyota/Lexus
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	U
420.1772	10	18.1	24.7	9046709101	13
420.5772	50	18.1	24.7	9046709101	66

Bumper clip

- for Toyota/Lexus
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	U
420.1773	10	15.0	26.8	9046709093	16
420.5773	50	15.0	26.8	9046709093	82

Square nut clip

- for Nissan
- for Toyota/Lexus
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	U
420.1758	10	9.2	13.1	75521611000, 96706P0105	8
420.5758	50	9.2	13.1	75521611000, 96706P0105	40

Lateral protection strip - rubber

- for Toyota/Lexus
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	U
420.1774	10	15.1	11.6	7504933010	20
420.5774	50	15.1	11.6	7504933010	99

Door panel clip

- for Toyota/Lexus
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	U
420.1775	10	17.0	12.0	7503933060	14
420.5775	50	17.0	12.0	7503933060	72

Nylon U-nut clip

- for Toyota/Lexus
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	U
420.1762	10	18.0	27.0	9017905060	25
420.5762	50	18.0	27.0	9017905060	126

Trim clip

- for Toyota/Lexus
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	U
420.1776	10	18.0	14.0	677711250	11
420.5776	50	18.0	14.0	677711250	55

Door sill clip

- for Toyota/Lexus
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	U
420.1763	10	18.0	8.8	9046711063	11
420.5763	50	18.0	8.8	9046711063	57

Trim clip

- for Toyota/Lexus
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	U
420.1764	10	18.0	9.0	7539533030	12
420.5764	50	18.0	9.0	7539533030	58

Push-type clip

- for Toyota/Lexus
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	U
420.1777	10	19.0	26.0	9046709143	21
420.5777	50	19.0	26.0	9046709143	104

Bonnet stripped insulation fastening

- for Toyota/Lexus
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	
420.1778	10	25.0	12.0	9046708124	9
420.5778	50	25.0	12.0	9046708124	46

Fender push-type clip

- for Toyota/Lexus
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	
420.1779	10	15.0	27.0	9046709096	18
420.5779	50	15.0	27.0	9046709096	92

Bonnet stripped insulation fastening

- for Toyota/Lexus
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	
420.1780	10	25.0	10.0	9046709050	12
420.5778	50	25.0	12.0	9046708124	46

Fastening clip

- for Nissan
- for Toyota/Lexus
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	
420.1751	10	30.4	15.5	0155300172, 9046707050	3
420.5751	50	30.4	15.5	0155300172, 9046707050	17

Screw rod clip

- for Toyota/Lexus
- in poly bag



Content	Head Ø mm	Ø mm	OE		
420.1756	10	8.0	14.0	5345514020	17
420.5756	50	8.0	14.0	5345514020	86

Push-type clip

- for Nissan
- for Toyota/Lexus
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	
420.1767	10	19.5	14.0	0155301553, 6777152010B1	14
420.5767	50	19.5	14.0	0155301553, 6777152010B1	70

Rubber screw clip

- for Mitsubishi
- for Toyota/Lexus
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	
420.1760	10	12.0	16.0	9018904008, MB083120	18
420.5760	50	12.0	16.0	9018904008, MB083120	89

Round nut clip

- for Toyota/Lexus
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	
420.1754	10	20.5	17.7	9018906013	11
420.5754	50	20.5	17.7	9018906013	54

Bonnet/mudguard clip

- for Toyota/Lexus
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	
420.1759	10	21.0	16.0	9018906065	12
420.5759	50	21.0	16.0	9018906065	61



Wing lining screw clip

- for Toyota/Lexus
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE		
420.1785	10	20.0	22.0	8.0	9018906157	15
420.5785	50	20.0	22.0	8.0	9018906157	75

Sealing rivet

- for Toyota/Lexus
- in poly bag



Content	Flange mm	Length mm	Ø mm	OE		
420.1782	10	6.2	42.4	3.8	9026904051	12
420.5782	50	6.2	42.4	3.8	9026904051	58

Sealing rivet

- for Toyota/Lexus
- in poly bag



Content	Flange mm	Length mm	Ø mm	OE		
420.1783	10	8.7	51.9	4.0	9026904053	13
420.5783	50	8.7	51.9	4.0	9026904053	67

Sealing rivet

- for Toyota/Lexus
- in poly bag



Content	Flange mm	Length mm	Ø mm	OE		
420.1784	10	12.7	49.8	4.9	9026905054	24
420.5784	50	12.7	49.8	4.9	9026905054	119

Sealing rivet

- for Toyota/Lexus
- in poly bag



Content	Flange mm	Length mm	Ø mm	OE		
420.1781	10	12.8	48.5	5.7	9026905065	37
420.5781	50	12.8	48.5	5.7	9026905065	187

Door panel clip

- for Nissan
- for Toyota/Lexus
- in poly bag



Content	Head Ø mm	Length mm	Ø (mm)	OE		
420.1761	10	14.0	8.0	10,0	0153301733, 9046701766	8
420.5761	50	14.0	8.0	10,0	0153301733, 9046701766	38

Retaining bracket clip

- for Honda
- for Toyota/Lexus
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE		
420.1757	10	15.0	20.4	7.0	9046709065, 90672671003	9
420.5757	50	15.0	20.4	7.0	9046709065, 90672671003	44

Wheel case connection clip

- for Mazda
- for Toyota/Lexus
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE		
420.1766	10	18.0	15.0	9.0	9046709139	18
420.5766	50	18.0	15.0	9.0	9046709139	89

Front grill clip

- for Honda
- for Mitsubishi
- for Toyota/Lexus
- in poly bag



Content	Width mm	Length mm	OE		
420.1753	10	13.6	21.7	8942180270, 9046712020	7
420.5753	50	13.6	21.7	8942180270, 9046712020	37

Fastening clip

- for Toyota/Lexus
- in poly bag



Center	Head Ø mm	Length mm	Ø mm	OE	
420.1765	10	18.0	15.0	9046712078	11
420.5765	50	18.0	15.0	9046712078	53

UNIVERSAL FASTENING CLIPS ALSO FOR TOYOTA/LEXUS

Round nut clip

- for Mitsubishi
- for Toyota/Lexus
- in poly bag



Center	Head Ø mm	Length mm	Ø mm	OE	
420.1502	10	17.7	16.3	9018906001, MU480033	11
420.5502	50	17.7	16.3	9018906001, MU480033	53

Fastening clip

- for Mazda
- for Toyota/Lexus
- for Isuzu
- in poly bag



Center	Head Ø mm	Length mm	Ø mm	OE	
420.1401	10	10.2	21.0	6777112010, 8942264920, 992740825	11
420.5401	50	10.2	21.0	6777112010, 8942264920, 992740825	56

Car interior lining clip

- for Mazda
- for Toyota/Lexus
- in poly bag



Center	Head Ø mm	Length mm	Ø mm	OE	
420.1403	10	18.6	14.2	6258114020, 992740822	9
420.5403	50	18.6	14.2	6258114020, 992740822	43

Square nut clip

- for Mazda
- for Nissan
- for Toyota/Lexus
- in poly bag



Center	Head Ø mm	Length mm	Ø mm	OE	
420.1404	10	9.8	16.7	0128100501, 999100402	5
420.5404	50	9.8	16.7	0128100501, 999100402	23

Car interior lining connection clip

- for Honda
- for Toyota/Lexus
- for Subaru
- in poly bag



Center	Head Ø mm	Length mm	Ø mm	OE	
420.1356	10	18.0	14.0	9046710161, 909130115, 9156056A003	11
420.5356	50	18.0	14.0	9046710161, 909130115, 9156056A003	54

Rubber screw clip

- for Honda
- for Toyota/Lexus
- in poly bag



Center	Head Ø mm	Length mm	Ø mm	OE	
420.1357	10	14.0	10.0	9018904066, 90662693003	6
420.5357	50	14.0	10.0	9018904066, 90662693003	31

Door and window rubber clip

- for Mazda
- for Toyota/Lexus
- in poly bag



Center	Head Ø mm	Length mm	Ø mm	OE	
420.1413	10	5.2	10.0	6796889101, G03158762	2
420.5413	50	5.2	10.0	6796889101, G03158762	12

FASTENING CLIPS FOR VOLKSWAGEN

Connection clip

- for Audi
- for Volkswagen
- in poly bag



Center	Head Ø mm	Length mm	Ø mm	OE	
420.1862	10	27.0	30.0	1H0868243B	40
420.5862	50	27.0	30.0	1H0868243B	202

Screw grommet

- for Audi
- for Volkswagen
- in poly bag



Center	Head Ø mm	Length mm	Ø mm	OE	
420.1863	10	15.0	12.0	8 N90833801	6
420.5863	50	15.0	12.0	8 N90833801	32

Fastening clip

- for Audi
- for Volkswagen
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1006	10	16.0	12.0	3A0853575, 3A0853575A	14
420.5006	50	16.0	12.0	3A0853575, 3A0853575A	70

Plastic clip

- for Audi
- for Volkswagen
- in poly bag



Context	Width mm	Length mm	OE	QTY
420.1864	10	21.9	4A0853825, 4A0853825A	23
420.5864	50	21.9	4A0853825, 4A0853825A	115

Door strip fastening

- for Audi
- for Volkswagen
- in poly bag



Context	Width mm	Length mm	OE	QTY
420.1011	10	8.1	6U085733	8
420.5011	50	8.1	6U085733	38

Connection clip

- for Audi
- for Volkswagen
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1865	10	22.0	25.0	3B0853576	25
420.5865	50	22.0	25.0	3B0853576	124

Connection clip

- for Volkswagen
- in poly bag



Context	Head Ø mm	Length mm	Ø (mm)	OE	QTY
420.1866	10	22.8	17.0	1H0819055B01C	11
420.5866	50	22.8	17.0	1H0819055B01C	53

Plastic connection

- for Volkswagen
- in poly bag



Context	Head Ø mm	Length mm	OE	QTY	
420.1867	10	41.6	29.0	443853909A	19
420.5867	50	41.6	29.0	443853909A	96

Push-type connection clip

- for Volkswagen
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1868	10	18.0	29.2	171885767	12
420.5868	50	18.0	29.2	171885767	60



Cable harness fastening

- for BMW
- for Opel
- for Volkswagen
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1856	10	20.3	20.2	2207713, 514719044317, N9020160H	13
420.5856	50	20.3	20.2	2207713, 514719044317, N9020160H	63

Drive-in connection clip

- for Audi
- for Citroën/Peugeot
- for Opel
- for Volkswagen
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1857	10	12.3	17.5	7814.24, N0385501	6
420.5857	50	12.3	17.5	7814.24, N0385501	30

Plastic screw

- for Audi
- for Volkswagen
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1869	10	20.0	15.0	191941142	7
420.5869	50	20.0	15.0	191941142	37

Plastic connection nuts

- for Audi
- for Volkswagen
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	
420.1860	10	14.1	10.3	171201969	8
420.5860	50	14.1	10.3	171201969	41

Plastic rivet

- for Volkswagen
- for Chrysler
- in poly bag



Context	Length mm	Ø mm	OE	
420.1870	10	47.7	1758535570C, 6503800	9
420.5870	50	47.7	1758535570C, 6503800	46

Breather connection nut

- for Volkswagen
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	
420.1854	10	9.5	9.8	175853674	3
420.5854	50	9.5	9.8	175853674	16

Tail light connection clip

- for Opel
- for Volkswagen
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	
420.1853	10	12.9	7.8	179813881, 3997391	4
420.5853	50	12.9	7.8	179813881, 3997391	21

Headlamp union nut

- for Opel
- for Volkswagen
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	
420.1855	10	10.5	14.8	1370853, 441035555	4
420.5855	50	10.5	14.8	1370853, 441035555	22

Nylon rubber nut

- for Volkswagen
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	
420.1859	10	12.6	12.3	811807577C	5
420.5859	50	12.6	12.3	811807577C	26

Nylon rubber nut

- for Volkswagen
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	
420.1858	10	12.2	16.7	867809966	7
420.5858	50	12.2	16.7	867809966	36

Drive rivet

- for Volkswagen
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	
420.1872	10	14.8	9.7	8N0863788	8
420.5872	50	14.8	9.7	8N0863788	38

Drive-in connection clip

- for Volkswagen
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	
420.1851	10	16.0	12.0	N16186729901C	10
420.5861	50	16.0	12.0	N16186729901C	49

Cable harness fastening

- for Ford
- for Volkswagen
- for Chrysler
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	
420.1852	10	24.3	18.0	385661, 6003349, N989022	10
420.5852	50	24.3	18.0	385661, 6003349, N989022	51

Door strip fastening

- for Opel
- for Volkswagen
- for Chrysler
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	
420.1851	10	24.2	18.5	6003349, 9685057, N98905101	14
420.5851	50	24.2	18.5	6003349, 9685057, N98905101	71

UNIVERSAL FASTENING CLIPS ALSO FOR VOLKSWAGEN

Door panel clip

- for Audi
- for Volkswagen
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	
420.1010	10	22.0	10.0	3B0838243, 3B0868243	18
420.5010	50	22.0	10.0	3B0838243, 3B0868243	91

Push-type clip

- for Audi
- for Volkswagen
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	
420.1001	10	24.0	15.0	1H0857199A, 51481915964	18
420.5001	50	24.0	15.0	1H0857199A, 51481915964	89

Car interior lining connection clip

- for Audi
- for Volkswagen
- in poly bag



Context	Head Ø mm	Length mm	OE		
420.1002	10	28.3	31.3	1H086243, 1H086243B	38
420.5002	50	28.3	31.3	1H086243, 1H086243B	192

Connection rubber seal

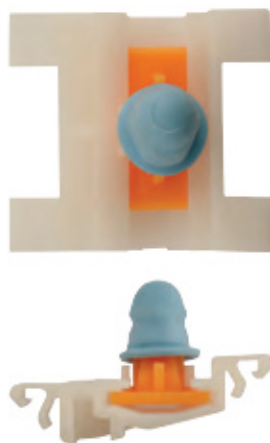
- for Audi
- for Volkswagen
- for Škoda
- in poly bag



Context	Width mm	OE		
420.1003	10	40.2	1H0853585A	31
420.5003	50	40.2	1H0853585A	157

Connection rubber seal

- for Audi
- for Volkswagen
- in poly bag



Context	Width mm	OE		
420.1004	10	40.2	3A0853575	75
420.5004	50	40.2	3A0853575	374

Connection rubber seal

- for Audi
- for Volkswagen
- in poly bag



Context	Head Ø mm	Width mm	Ø mm	OE	
420.1005	10	18.0	21.0	3B0853575	16
420.5005	50	18.0	21.0	3B0853575	78

Fastening clip

- for Opel
- for Volkswagen
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	
420.1601	10	15.8	18.4	15979, 1H0837719	3
420.5601	50	15.8	18.4	15979, 1H0837719	17

Drive-in connection clip

- for Audi
- for Volkswagen
- in poly bag



Context	Head Ø mm	Ø mm	OE		
420.1013	10	4.5	7.5	6N0823397C	17
420.5013	50	4.5	7.5	6N0823397C	87

Plastic rivet for glove compartment

- for BMW
- for Citroën/Peugeot
- for Volkswagen
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	
420.1061	10	10.0	12.0	51161881149, 7703072116, N10259301	5
420.5061	50	10.0	12.0	51161881149, 7703072116, N10259301	24

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Boot interior lining clip

- for Ford
- for Volkswagen
- in poly bag



Content	Head Ø mm	Ø mm	OE	PK
420.1278	10	25.0	6448410, 6678518	9
420.5278	50	25.0	6448410, 6678518	46

Motor protection/bumper clip

- for Audi
- for Volkswagen
- in poly bag



Content	Head Ø mm	Length mm	OE	PK
420.1017	10	25.0	4A0805121C	22
420.5017	50	25.0	4A0805121C	112

Plastic fastening clip

- for Audi
- for Volkswagen
- in poly bag



Content	Width mm	Length mm	OE	PK
420.1007	10	25.2	4A0853825C	26
420.5007	50	25.2	4A0853825C	131

Quick-release fastener

- for Audi
- for Volkswagen
- for Seat
- for Škoda
- in poly bag



Content	Ø mm	OE	PK
420.1014	10	N90335004, N90335006	24
420.5014	50	N90335004, N90335006	119

Quick-release fastener

- for Audi
- for Volkswagen
- for Seat
- in poly bag



Content	Ø mm	OE	PK
420.1015	10	N90796501	22
420.5015	50	N90796501	112



Lateral protection strips clip

- for Volkswagen
- for Volvo
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	PK
420.1803	10	16.0	12.0	171583585, 591740	3
420.5803	50	16.0	12.0	171583585, 591740	15

FASTENING CLIPS FOR VOLVO

Push-type clip

- for Nissan
- for Volvo
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	PK
420.1558	10	18.0	11.0	8099905N07, 9046707043	11
420.5558	50	18.0	11.0	8099905N07, 9046707043	56

Interior strip clip

- for Fiat
- for Volvo
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	PK
420.1201	10	16.0	18.0	4292906	8
420.5201	50	16.0	18.0	4292906	42

Drive rivet for bumper

- for Volvo
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	PK
420.1801	10	16.0	14.0	1268176	11
420.5801	50	16.0	14.0	1268176	56

Connection clip

- for BMW
- for Volvo
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1057	10	18.0	8.0	51131804205	6
420.5057	50	18.0	8.0	51131804205	31

Push-type clip

- for Citroën/Peugeot
- for Mercedes
- for Volvo
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1651	10	10.0	7.0	790307216, 947098, A0009903492	3
420.5651	50	10.0	7.0	790307216, 947098, A0009903492	15

Lateral protection strips clip

- for Volkswagen
- for Volvo
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1803	10	16.0	12.0	171583585, 591740	3
420.5803	50	16.0	12.0	171583585, 591740	15

Push-type clip

- for Nissan
- for Volvo
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1560	10	20.0	14.0	6384801G00	13
420.5560	50	20.0	14.0	6384801G00	66

Drive rivet

- for Volvo
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1802	10	16.0	14.0	9133417	12
420.5802	50	16.0	14.0	9133417	59

Bonnet clip

- for Volvo
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1804	10	25.0	10.0	9133073	5
420.5804	50	25.0	10.0	9133073	27

Bumper clip

- for Volvo
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1805	10	21.8	19.7	3272075327462B	10
420.5805	50	21.8	19.7	3272075327462B	50

Bumper clip

- for Volvo
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1806	10	22.0	19.7	327462A	12
420.5806	50	22.0	19.7	327462A	58

Bonnet screw rods clip

- for Volvo
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1807	10	20.9	10.5	3923712	11
420.5807	50	20.9	10.5	3923712	57



FASTENING CLIPS - CABLE HARNESSES

Cable harness fastening

- for Ford
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1251	10	18.0	20.0	388577S	7
420.5251	50	18.0	20.0	388577S	35

Cable harness fastening

- for Ford
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1252	10	17.6	15.5	6998849	5
420.5252	50	17.6	15.5	6998849	27

Cable harness fastening

- for Chrysler
- in poly bag



Center	Head Ø mm	Length mm	Ø mm	OE		
420.1901	10	24.4	18.0	7,8	6003423	11
420.5901	50	24.4	18.0	7,8	6003423	53

Cable harness fastening

- for Ford
- for Volkswagen
- for Chrysler
- in poly bag



Center	Head Ø mm	Length mm	Ø mm	OE		
420.1852	10	24.3	18.0	7,9	385661, 6003349, N989022	10
420.5852	50	24.3	18.0	7,9	385661, 6003349, N989022	51

Door and window rubber clip

- for Opel
- for Chrysler
- in poly bag



Center	Head Ø mm	Length mm	Ø mm	OE		
420.1102	10	10.0	11.7	6,0	20699808, 6502328	3
420.5102	50	10.0	11.7	6,0	20699808, 6502328	13

Dashboard connection clip

- for Ford
- in poly bag



Center	Head Ø mm	Length mm	Ø mm	OE		
420.1253	10	21.4	29.0	11,3	N804379S	22
420.5253	50	21.4	29.0	11,3	N804379S	109

Bonnet stripped insulation fastening

- for Ford
- for Mazda
- in poly bag



Center	Head Ø mm	Length mm	Ø mm	OE		
420.1409	10	20.0	9.0	6,0	6508197AA, F22Z16774A	3
420.5409	50	20.0	9.0	6,0	6508197AA, F22Z16774A	16

Bumper cover clip

- for Ford
- for Opel
- in poly bag



Center	Head Ø mm	Length mm	Ø mm	OE		
420.1307	10	17.9	16.4	7,8	16674629, N806113S	6
420.5307	50	17.9	16.4	7,8	16674629, N806113S	32

Engine grill cable fastening

- for Nissan
- in poly bag



Center	Head Ø mm	Length mm	Ø mm	OE		
420.1568	10	12.0	16.0	6,0	0153301781	5
420.5568	50	12.0	16.0	6,0	0153301781	23

Cable harness connection clip

- for BMW
- for Opel
- in poly bag



Center	Head Ø mm	Length mm	Ø mm	OE		
420.1373	10	18.0	27.6	7,6	10124502	9
420.5373	50	18.0	27.6	7,6	10124502	43

Cable harness fastening

- for BMW
- for Opel
- for Volkswagen
- in poly bag



Center	Head Ø mm	Length mm	Ø mm	OE		
420.1856	10	20.3	20.2	9,1	2207713, 514719044317, N9020160H	13
420.5856	50	20.3	20.2	9,1	2207713, 514719044317, N9020160H	63

Cable harness fastening

- for Audi
- for Citroën/Peugeot
- for Opel
- for Volkswagen
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	QTY
420.1768	10	16.1	15.5	6,7
420.5768	50	16.1	15.5	6,7

FASTENING CLIPS - PLASTIC RIVETS

Plastic rivet

- for Ford
- in poly bag



Context	Length mm	Ø (mm)	OE	QTY
420.1274	10	64.2	4,0 N804583S	9
420.5274	50	64.2	4,0 N804583S	45

Plastic rivet

- for Volkswagen
- for Chrysler
- in poly bag



Context	Length mm	Ø (mm)	OE	QTY
420.1870	10	47.7	5,1 1758535570C, 6503800	9
420.5870	50	47.7	5,1 1758535570C, 6503800	46

Plastic rivet

- for Ford
- for Opel
- for Chrysler
- in poly bag



Context	Length mm	Ø (mm)	OE	QTY
420.1275	10	55.5	6,3 14063981, 6500911, N8030433	18
420.5275	50	55.5	6,3 14063981, 6500911, N8030433	88

Blind rivet connection clip

- for Chrysler
- in poly bag



Context	Length mm	Ø (mm)	OE	QTY
420.1103	10	51.8	5,1 6500898	9
420.5103	50	51.8	5,1 6500898	47

Blind rivet connection clip

- for BMW
- in poly bag



Context	Length mm	Ø (mm)	OE	QTY
420.1051	10	51.0	6,0 51717002953	16
420.5051	50	51.0	6,0 51717002953	80

Plastic rivet

- for Opel
- in poly bag



Context	Length mm	Ø (mm)	OE	QTY
420.1317	10	50.8	6,3 15506827	18
420.5317	50	50.8	6,3 15506827	90

Plastic rivet

- for Opel
- in poly bag



Context	Length mm	Ø (mm)	OE	QTY
420.1318	10	55.6	6,3 14070914	17
420.5318	50	55.6	6,3 14070914	87

Blind rivet connection clip

- for Chrysler
- in poly bag



Context	Length mm	Ø (mm)	OE	QTY
420.1104	10	52.0	5,9 25524005	15
420.5104	50	52.0	5,9 25524005	76

Blind rivet connection clip

- for Opel
- for Chrysler
- in poly bag



Content	Length mm	Ø mm	OE	Icon
420.1304	10	46.0	204655395, 6004212	7
420.5304	50	46.0	204655395, 6004212	34

Plastic rivet

- for Ford
- for Chrysler
- in poly bag



Content	Length mm	Ø mm	OE	Icon
420.1276	10	54.0	6503860, N804675S	19
420.5276	50	54.0	6503860, N804675S	96

Metal U-nut

- for Škoda
- in poly bag



Content	Width mm	Length mm	Icon	
420.1906	10	13.5	21.1	27
420.5906	50	13.5	21.1	137

Blind rivet connection clip

- for Opel
- in poly bag



Content	Length mm	Ø mm	OE	Icon
420.1305	10	54.0	10036503	18
420.5305	50	54.0	10036503	91

FASTENING CLIPS - QUICK-RELEASE FASTENER

Quick-release fastener

- for Audi
- for Volkswagen
- for Seat
- for Škoda
- in poly bag



Content	Ø mm	OE	Icon
420.1014	10	N90335004, N90335006	24
420.5014	50	N90335004, N90335006	119

Metal screw/washer

- for Audi
- for Citroën/Peugeot
- for Opel
- for Volkswagen
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	Icon	
420.1907	10	10.0	24.0	6.2	66
420.5907	50	10.0	24.0	6.2	328

Blind rivet connection clip

- for Opel
- in poly bag



Content	Length mm	Ø mm	OE	Icon
420.1306	10	53.4	10109689	19
420.5306	50	53.4	10109689	96

Quick-release fastener

- for Audi
- for Volkswagen
- for Seat
- in poly bag



Content	Ø mm	OE	Icon
420.1015	10	N90796501	22
420.5015	50	N90796501	112

Metal screw/washer

- for BMW
- for Mercedes
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	Icon	
420.1464	10	10.8	18.8	6.3	81
420.5464	50	10.8	18.8	6.3	404

Metal screw/washer

- for BMW
- in poly bag



	Content	Head Ø mm	Length mm	Ø mm	
420.1908	10	20.9	17.3	9.4	55
420.5908	50	20.9	17.3	9.4	275

Sealing rivet

- for Toyota/Lexus
- in poly bag



	Content	Flange mm	Length mm	Ø mm	
420.1782	10	6.2	42.4	3.8	12
420.5782	50	6.2	42.4	3.8	58

Star rivet

- for Audi
- for Citroën/Peugeot
- for Opel
- for Volkswagen
- in poly bag



	Content	Flange mm	Length mm	Ø mm	
420.1911	10	12.1	47.9	3.9	21
420.5911	50	12.1	47.9	3.9	106

Sealing rivet

- for Toyota/Lexus
- in poly bag



	Content	Flange mm	Length mm	Ø mm	
420.1781	10	12.8	48.5	5.7	37
420.5781	50	12.8	48.5	5.7	187

Sealing rivet

- for Toyota/Lexus
- in poly bag



	Content	Flange mm	Length mm	Ø mm	
420.1783	10	8.7	51.9	4.0	13
420.5783	50	8.7	51.9	4.0	67

FASTENING CLIPS - PUSH-IN RIVETS

Rivet for headlamp bracket

- for Ford
- in poly bag



	Content	Head Ø mm	Length mm	Ø mm	OE	
420.1277	10	15.8	11.1	6.3	383142S	9
420.5277	50	15.8	11.1	6.3	383142S	45

Sealing rivet

- for Audi
- for Citroën/Peugeot
- for Opel
- for Volkswagen
- in poly bag



	Content	Flange mm	Length mm	Ø mm	
420.1909	10	12.0	44.0	4.0	21
420.5909	50	12.0	44.0	4.0	104

Sealing rivet

- for Toyota/Lexus
- in poly bag



	Content	Flange mm	Length mm	Ø mm	
420.1784	10	12.7	49.8	4.9	24
420.5784	50	12.7	49.8	4.9	119

Drive rivet for bumper

- for Volvo
- in poly bag



	Content	Head Ø mm	Length mm	Ø mm	OE	
420.1801	10	16.0	14.0	6.0	1268176	11
420.5801	50	16.0	14.0	6.0	1268176	56

Push-type clip

- for Citroën/Peugeot
- for Mercedes
- for Volvo
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	
420.1651	10	10.0	7.0	790307216, 947098, A0009903492	3
420.5651	50	10.0	7.0	790307216, 947098, A0009903492	15

Drive rivet for air conditioning

- for Opel
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	
420.1319	10	11.3	7.0	14005089	4
420.5319	50	11.3	7.0	14005089	22

Drive rivet

- for Volvo
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	
420.1802	10	16.0	14.0	9133417	12
420.5802	50	16.0	14.0	9133417	59



Drive-in clip

- for Mercedes
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	
420.1451	10	13.0	14.0	A0009903792	10
420.5451	50	13.0	14.0	A0009903792	48

Push-type connection clip

- for Volkswagen
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	
420.1868	10	18.0	29.2	171885767	12
420.5868	50	18.0	29.2	171885767	60

Drive-in connection clip

- for Audi
- for Citroën/Peugeot
- for Opel
- for Volkswagen
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	
420.1857	10	12.3	17.5	7814.24, N0385501	6
420.5857	50	12.3	17.5	7814.24, N0385501	30

Push-type connection clip

- for Mercedes
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	
420.1459	10	9.9	10.7	A0009908492	5
420.5459	50	9.9	10.7	A0009908492	23

Drive-in connection clip

- for Volkswagen
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	
420.1861	10	16.0	12.0	N16186729901C	10
420.5861	50	16.0	12.0	N16186729901C	49

Drive rivet

- for Volkswagen
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	
420.1872	10	14.8	9.7	8N0863788	8
420.5872	50	14.8	9.7	8N0863788	38

Drive rivet

- for Audi
- for Citroën/Peugeot
- for Opel
- for Volkswagen
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	
420.1912	10	10.0	12.0	5
420.5912	50	10.0	12.0	23

FASTENING CLIPS - PLASTIC NUTS

Square nut clip

- for Mitsubishi
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1501	10	11.9	10.5	9018905013	7
420.5501	50	11.9	10.5	9018905013	35

Round nut clip

- for Toyota/Lexus
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1754	10	20.5	17.7	9018906013	11
420.5754	50	20.5	17.7	9018906013	54

Round nut clip

- for Mitsubishi
- for Nissan
- for Toyota/Lexus
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1755	10	16.4	17.3	128100231, 9018906001	12
420.5755	50	16.4	17.3	128100231, 9018906001	60

Square nut clip

- for Mazda
- for Nissan
- for Toyota/Lexus
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1404	10	9.8	16.7	0128100501, 999100402	5
420.5404	50	9.8	16.7	0128100501, 999100402	23

Screw grommet

- for Mitsubishi
- in poly bag



Context	Head Ø mm	Length mm	Screw size	OE	QTY
420.1508	10	16.6	18.0	MU480034	12
420.5508	50	16.6	18.0	MU480034	61

Screw

- for Ford
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1263	10	10.1	10.4	6.3 N379830S	4
420.5263	50	10.1	10.4	6.3 N379830S	22

Square nut clip

- for Nissan
- for Toyota/Lexus
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1758	10	9.2	13.1	7.7 75521611000, 96706P0105	8
420.5758	50	9.2	13.1	7.7 75521611000, 96706P0105	40

Headlamp union nut

- for Opel
- for Volkswagen
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1855	10	10.5	14.8	7.2 1370853, 441035555	4
420.5855	50	10.5	14.8	7.2 1370853, 441035555	22

Wing lining screw clip

- for Toyota/Lexus
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1785	10	20.0	22.0	8.0 9018906157	15
420.5785	50	20.0	22.0	8.0 9018906157	75

Connection clip

- for Mercedes
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1454	10	18.3	14.5	9.8 A0019882981	6
420.5454	50	18.3	14.5	9.8 A0019882981	30

Push-type fastening clip

- for Renault
- in poly bag



Context	Head Ø mm	Length mm	Ø mm	OE	QTY
420.1703	10	14.0	14.0	8.0 7703081184	8
420.5703	50	14.0	14.0	8.0 7703081184	42

Screw grommet

- for Fiat
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	
420.1211	10	12.3	18.0	83468473	14
420.5211	50	12.3	18.0	83468473	68

FASTENING CLIPS - SCREW-IN RIVETS

Push-type clip

- for Mazda
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	
420.1402	10	15.2	12.6	2042301, MB345544	8
420.5402	50	15.2	12.6	2042301, MB345544	40

Push-type clip

- for Honda
- for Nissan
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	
420.1352	10	20.6	9.5	75521611000, 90675SB003	13
420.5352	50	20.6	9.5	75521611000, 90675SB003	63

Push-type clip

- for Ford
- for Nissan
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	
420.1553	10	19.2	12.9	1007932, 6384401A00	29
420.5553	50	19.2	12.9	1007932, 6384401A00	143

Splash guard connection clip

- for Nissan
- for Opel
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	
420.1557	10	13.7	16.5	6686001W01, 94051933	6
420.5557	50	13.7	16.5	6686001W01, 94051933	30

Push-type clip

- for Nissan
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	
420.1565	10	20.0	22.0	6387801E10	13
420.5565	50	20.0	22.0	6387801E10	67

Push-type connection clip

- for Ford
- for Mazda
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	
420.1267	10	18.0	18.0	NAU156145, W706713S300	9
420.5267	50	18.0	18.0	NAU156145, W706713S300	47

Push-type clip

- for Ford
- for Opel
- for Chrysler
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	
420.1254	10	17.8	17.5	10139822, 1673046, 8508197AA	9
420.5254	50	17.8	17.5	10139822, 1673046, 8508197AA	46

Push-type clip

- for Ford
- for Chrysler
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	
420.1255	10	15.5	22.8	1007932, 6502871	10
420.5255	50	15.5	22.8	1007932, 6502871	50

Push-type connection clip

- for Mercedes
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	
420.1453	10	18.0	19.0	10,0	A1269900392 19
420.5453	50	18.0	19.0	10,0	A1269900392 96

Push-type connection clip

- for Mercedes
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	
420.1458	10	18.0	19.0	9,0	A9904692 16
420.5458	50	18.0	19.0	9,0	A9904692 78

Push-type clip

- for Audi
- for Volkswagen
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	
420.1001	10	24.0	15.0	8,3	1H0867199A, 51481915964 18
420.5001	50	24.0	15.0	8,3	1H0867199A, 51481915964 89

Push-type clip

- for Audi
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	
420.1009	10	23.0	29.0	5,5	1H0819055C01C 18
420.5009	50	23.0	29.0	5,5	1H0819055C01C 88

FASTENING CLIPS FOR GENERAL VEHICLE APPLICATION

Square nut clip

- for Mitsubishi
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	
420.1902	10	13.1	15.1	10,5	MB293328 10
420.5902	50	13.1	15.1	10,5	MB293328 48

Square nut clip

- for Mazda
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	OE	
420.1903	10	16.0	12.0	10,5	999100501 7
420.5903	50	16.0	12.0	10,5	999100501 33



Insert connection clip

- for Renault
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	
420.1916	10	15.5	15.6	8,6 11
420.5916	50	15.5	15.6	8,6 54

Cable harness fastening

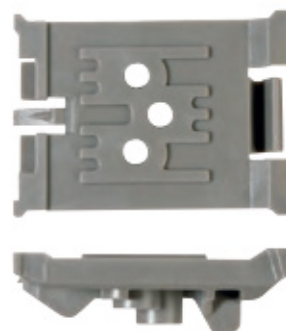
- for Audi
- for Citroën/Peugeot
- for Opel
- for Volkswagen
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	
420.1768	10	16.1	15.5	6,7 7
420.5768	50	16.1	15.5	6,7 35

Buckle

- for Renault
- in poly bag



Content	Width mm	Length mm	
420.1917	10	25.1	36.5 35
420.5917	50	25.1	36.5 176

Metal U-nut

- for Skoda
- in poly bag



Content	Width mm	Length mm	
420.1906	10	13.5	21.1 27
420.5906	50	13.5	21.1 137

Metal screw/washer

- for Audi
- for Citroën/Peugeot
- for Opel
- for Volkswagen
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	Weight
420.1907	10	10.0	24.0	6.2
420.5907	50	10.0	24.0	328

Sealing rivet

- for Audi
- for Citroën/Peugeot
- for Opel
- for Volkswagen
- in poly bag



Content	Length mm	Flange mm	Ø mm	Weight
420.1909	10	44.0	12.0	4.0
420.5909	50	44.0	12.0	104

Star rivet

- for Audi
- for Citroën/Peugeot
- for Opel
- for Volkswagen
- in poly bag



Content	Length mm	Flange mm	Ø mm	Weight
420.1911	10	47.9	12.1	3.9
420.5911	50	47.9	12.1	106

Drive rivet

- for Audi
- for Citroën/Peugeot
- for Opel
- for Volkswagen
- in poly bag



Content	Head Ø mm	Length mm	Ø mm	Weight
420.1912	10	10.0	12.0	5.0
420.5912	50	10.0	12.0	23

Cable clip - Wire

- for Audi
- for Citroën/Peugeot
- for Opel
- for Volkswagen
- in poly bag



Content	Ø mm	Weight
420.1957	10	6.3
420.5957	50	6.3

Cable clip - Wire

- for Audi
- for Citroën/Peugeot
- for Opel
- for Volkswagen
- in poly bag



Content	Ø mm	Weight
420.1958	10	9.5
420.5958	50	9.5

Cable clip - Wire

- for Audi
- for Citroën/Peugeot
- for Opel
- for Volkswagen
- in poly bag



Content	Ø mm	Weight
420.1959	10	12.7
420.5959	50	12.7

Cable clip - Wire

- for Audi
- for Citroën/Peugeot
- for Opel
- for Volkswagen
- in poly bag



Content	Ø mm	Weight
420.1960	10	5.0
420.5960	50	5.0

FASTENING CLIP SETS

Trim Clips Assortment - Fir Tree Fixings

- Universal



Content	Weight	Weight
420.0900	340 pcs	447
OE		
420.1251	3885775	30 x
420.1252	6998849	30 x
420.1901	6003423	15 x
420.1852	385661, 6003349, N89022	15 x
420.1102	20699808, 6502328	50 x
420.1253	N8043795	10 x
420.1409	6508197AA, F22Z16774A	35 x
420.1307	16674629, N806113S	30 x
420.1568	0153301781	50 x
420.1373	10124502	25 x
420.1856	2207713, 514719044317, N9020160H	20 x
420.1768		30 x

Trim Clips Assortment - Plastic Rivets

• Universal



420.0905			
235 pcs	Trim Clips Assortment - Plastic Rivets	540	
OE			
420.1274	N804583S	20 x	
420.1870	1758535570C, 6503800	30 x	
420.1275	14063981, 6500911, N8030433	15 x	
420.1103	6500898	25 x	
420.1051	51717002953	15 x	
420.1317	15506827	15 x	
420.1318	14070914	15 x	
420.1104	25524005	20 x	
420.1304	204655395, 6004212	35 x	
420.1305	10036503	15 x	
420.1306	10109689	15 x	
420.1276	6503860, N804675S	15 x	



Trim Clips Assortment - Bodyshop Metal Fasteners

• Universal



420.0915			
400 pcs	Trim Clips Assortment - Bodyshop Metal Fasteners	1397	
OE			
420.1014	N90335004, N90335006	25 x	
420.1015	N90796501	25 x	
420.1906		50 x	
420.1907		30 x	
420.1464	07119916946, N914031006203	20 x	
420.1908	07147129160	30 x	
420.1781	9026905065	30 x	
420.1909		35 x	
420.1782	9026904051	50 x	
420.1783	9026904053	50 x	
420.1784	9026905054	25 x	
420.1911		30 x	



Trim Clips Assortment - Popular Drive Push-Pin Rivets

• Universal














420.0920			
350 pcs	Trim Clips Assortment - Popular Drive Push-Pin Rivets	455	
OE			
420.1277	3831425	25 x	
420.1801	1268176	20 x	
420.1651	790307216, 947098, A0009903492	40 x	
420.1319	14005089	30 x	
420.1802	9133417	20 x	
420.1451	A0009903792	30 x	
420.1868	171885767	20 x	
420.1857	7814.24, N0385501	40 x	
420.1459	A0009908492	30 x	
420.1861	N16186729901C	20 x	
420.1872	8N0863788	40 x	
420.1912		35 x	

Trim Clips Assortment - Plastic Locking Nuts

• Universal












420.0925			
350 pcs	Trim Clips Assortment - Plastic Locking Nuts	495	
OE			
420.1501	9018905013	30 x	

OE			
420.1754	9018906013	20 x	
420.1755	128100231, 9018906001	30 x	
420.1404	0128100501, 999100402	40 x	
420.1508	MU480034	25 x	
420.1263	N379830S	40 x	
420.1758	75521611000, 96706P0105	30 x	
420.1855	1370853, 441035555	40 x	
420.1785	9018906157	20 x	
420.1454	A0019882981	25 x	
420.1703	7703081184	25 x	
420.1211	83468473	25 x	

Trim Clips Assortment - Screw Rivets

• Universal



OE			
420.1402	2042301, MB345544	30 x	
420.1352	75521611000, 90675SB003	20 x	
420.1553	1007932, 6384401A00	20 x	
420.1557	6686001W01, 94051933	40 x	
420.1565	6387801E10	15 x	
420.1267	NAU156145, W706713S300	20 x	
420.1254	10139822, 1673046, 6508197AA	20 x	
420.1255	1007932, 6502871	25 x	
420.1453	A1269900392	15 x	

OE			
420.1458	A9904692	15 x	
420.1001	1H0867199A, 51481915964	10 x	
420.1009	1H0819055C01C	10 x	

Trim Clips Assortment - Audi

• for Audi









OE			
420.1010	3B0838243, 3B0868243	10 x	
420.1001	1H0867199A, 51481915964	10 x	
420.1002	1H086243, 1H0868243B	10 x	
420.1653	357853575, 6991W4	20 x	
420.1003	1H0853585A	10 x	
420.1004	3A0853575	5 x	
420.1005	3B0853575	20 x	
420.1006	3A0853575, 3A0853575A	20 x	
420.1007	4A0853825C	10 x	
420.1864	4A0853825, 4A0853825A	15 x	
420.1008	1H0823397	15 x	
420.1009	1H0819055C01C	15 x	



Trim Clips Assortment - BMW

• for BMW













OE			
420.1056	51311802258	80 x	
420.1057	51131804205	80 x	
420.1052	51118174185	35 x	
420.1058	51481938725	35 x	
420.1053	703867299, 823867299	40 x	
420.1059	51131960054	20 x	

Trim Clips Assortment - Peugeot / Citroen

• for Citroën/Peugeot















OE			
420.1651	790307216, 947098, A0009903492	50 x	
420.1652	856535	20 x	
420.1653	357853575, 6991W4	20 x	
420.1655		20 x	
420.1656	694143	25 x	
420.1657	743707	35 x	

OE			
420.1452	7703074022, A108980027	30 x	
420.1701	14188380, 7703077059	35 x	
420.1654	698317	15 x	
420.1658	699502	25 x	
420.1659	6995X3	30 x	
420.1660	69945	40 x	

Trim Clips Assortment - Fiat

• for Fiat




















420.0910 308 pcs Trim Clips Assortment - Fiat 540			
OE			
420.1201	4292906	30 x	
420.1202	1459487	20 x	
420.1203	1300433650	25 x	
420.1204	71717421	8 x	
420.1205	82456515	25 x	
420.1206	5757139	25 x	
420.1207	1459387	20 x	
420.1208	14188282, 46306526, 60507749	25 x	
420.1209	14591687	25 x	
420.1210	1452387	25 x	
420.1211	83468473	30 x	
420.1212	7677865	50 x	

Trim Clips Assortment - Ford

• for Ford




















420.0250 415 pcs Trim Clips Assortment - Ford 517			
OE			
420.1251	388577S	25 x	
420.1261	N8011925S	15 x	
420.1262	N806289S	40 x	
420.1263	N379830S	30 x	
420.1553	1007932, 6384401A00	15 x	
420.1264	N387496S	10 x	
420.1316	16500306, 6500787	35 x	
420.1265	N803170S	35 x	
420.1266	W704958S300	10 x	
420.1267	NAU156145, W706713S300	20 x	
420.1268	N388246S	35 x	
420.1269	N387944S	15 x	
420.1409	6508197AA, F22Z16774A	30 x	
420.1254	10139822, 1673046, 6508197AA	20 x	
420.1271	N805231S	20 x	
420.1272	W705532S300	15 x	
420.1260	B45556741, F1CZ16674A	30 x	
420.1273	W710250S300	15 x	

Trim Clips Assortment - Honda

• for Honda



420.0350 418 pcs Trim Clips Assortment - Honda 564			
OE			
420.1753	8942180270, 9046712020	30 x	
420.1351	915025P0003	8 x	
420.1352	75521611000, 906755B003	15 x	
420.1359	915665P0003	20 x	
420.1360	915135E003	50 x	
420.1361	915305T5003	40 x	
420.1362	915505H3003	20 x	
420.1363	916205R2003	25 x	
420.1364	915785V4003	5 x	
420.1365	38529689A6300	30 x	
420.1366	915125X0003	15 x	
420.1367	906876710030	15 x	
420.1368	906835A5003	30 x	
420.1369	01553, 906875A50030	30 x	
420.1757	9046709065, 90672671003	20 x	
420.1370	918085M4000	15 x	
420.1371	915345E0000	30 x	
420.1372	343555D2003	20 x	

Trim Clips Assortment - Mazda

• for Mazda



420.0400	475 pcs	Trim Clips Assortment - Mazda	525
OE			
420.1402	2042301, MB345544	20 x	
420.1404	0128100501, 999100402	25 x	
420.1405	9095001248, B0016830200	20 x	
420.1406	90657SA60030, 9418687, N30413356A	25 x	
420.1415	BF6750033	5 x	
420.1408	0155300291, 992640543A	40 x	
420.1416	992780405	20 x	
420.1417	992780404	20 x	
420.1418	99249051B	50 x	
420.1409	6508197AA, F22Z16774A	30 x	
420.1410	BF8250233	5 x	
420.1411	B1016825200	20 x	
420.1412	B09251833	15 x	
420.1420	992640543A	50 x	
420.1260	B45556741, F1C216674A	50 x	
420.1413	6786889101, G03158762	50 x	
420.1419	BC1DSA145	15 x	
420.1766	9046709139	15 x	

Trim Clips Assortment - Mercedes Benz

• for Mercedes



420.0450	270 pcs	Trim Clips Assortment - Mercedes Benz	481
OE			
420.1453	A1269900392	15 x	

OE			
420.1454	A0019882981	30 x	
420.1455	A1249900492	25 x	
420.1456	A0019888081	5 x	
420.1457	A1249880492	10 x	
420.1458	A9904692	15 x	
420.1459	A0009908492	40 x	
420.1460	A0019880325	30 x	
420.1461	A1406980260	15 x	
420.1462	A0019885081	20 x	
420.1463	A0019884481	35 x	
420.1452	7703074022, A108980027	30 x	

Trim Clips Assortment - Mitsubishi

• for Mitsubishi



420.0500	370 pcs	Trim Clips Assortment - Mitsubishi	642
OE			
420.1753	8942180270, 9046712020	50 x	
420.1501	9018905013	50 x	
420.1502	9018906001, MU480033	30 x	
420.1755	128100231, 9018906001	30 x	
420.1508	MU480034	30 x	
420.1509	MR138807	10 x	
420.1503	MB253964	15 x	
420.1510	HB121467	40 x	
420.1505	MB271999	15 x	

OE			
420.1511	MB696120	40 x	
420.1506	MR200300	20 x	
420.1512	MB846992	40 x	

Trim Clips Assortment - Nissan

• for Nissan



420.0550	408 pcs	Trim Clips Assortment - Nissan	604
OE			
420.1106	76906T300, 813350022	30 x	
420.1751	0155300172, 9046707050	40 x	
420.1552	68425H5000	25 x	
420.1352	75521611000, 906755B003	15 x	
420.1561	62869N4700	50 x	
420.1562	62380U7400	15 x	
420.1553	1007932, 6384401A00	15 x	
420.1563	7688257A00	20 x	
420.1564	6684101G00	40 x	
420.1554	1099830880, 8942981190, KK37668868	30 x	
420.1555	0155301393, BF8250233	8 x	
420.1414	5378914010, 63848D400	10 x	
420.1354	8942798070, 90667SA70030	25 x	
420.1565	6387801E10	10 x	
420.1566		15 x	
420.1355	78856R4301, 906836930000	25 x	
420.1560	6384801G00	20 x	
420.1567	6385401A00	15 x	

Trim Clips Assortment - Renault

• for Renault



420.0750 300 pcs Trim Clips Assortment - Renault 486			
OE			
420.1702	7703077421	50 x	
420.1916		50 x	
420.1703	7703081184	60 x	
420.1917		15 x	
420.1452	7703074022, A108980027	60 x	
420.1701	14188380, 7703077059	65 x	

Trim Clips Assortment - Toyota / Lexus

• for Toyota/Lexus



420.0800 360 pcs Trim Clips Assortment - Toyota / Lexus 656			
OE			
420.1752	9046709006	10 x	
420.1755	128100231, 9018906001	25 x	
420.1769	9046707138	20 x	
420.1770	9046707117	35 x	
420.1771	9046709138	30 x	
420.1772	9046709101	15 x	
420.1773	9046709093	15 x	
420.1758	75521611000, 96706P0105	40 x	
420.1774	7504933010	10 x	

OE			
420.1775	7503933060	20 x	
420.1762	9017905060	10 x	
420.1776	677711250	20 x	
420.1763	9046711063	25 x	
420.1764	7539533030	25 x	
420.1777	9046709143	15 x	
420.1778	9046708124	20 x	
420.1779	9046709096	10 x	
420.1780	9046709050	15 x	

Trim Clips Assortment - Opel

• for Opel



420.0600 300 pcs Trim Clips Assortment - Opel 469			
OE			
420.1603	90218614	20 x	
420.1602	1591426, 174864	40 x	
420.1857	7814.24, N0385501	100 x	
420.1604	2345959, 7701053516, 7L5853994	50 x	
420.1605	2240582	50 x	
420.1606	180942	40 x	

Trim Clips Assortment - Volkswagen

• for Volkswagen



420.0850 255 pcs Trim Clips Assortment - Volkswagen 520			
OE			
420.1862	1H0868243B	5 x	

OE			
420.1863	N90833801	30 x	
420.1006	3A0853575, 3A0853575A	20 x	
420.1864	4A0853825, 4A0853825A	15 x	
420.1011	6U085733	30 x	
420.1865	3B0853576	10 x	
420.1866	1H0819055B01C	25 x	
420.1867	443853909A	15 x	
420.1868	171885767	30 x	
420.1856	2207713, 514719044317, N9020160H	20 x	
420.1857	7814.24, N0385501	30 x	
420.1869	191941142	25 x	

Trim Clips Assortment - Volvo

• for Volvo



420.0700 350 pcs Trim Clips Assortment - Volvo 478			
OE			
420.1558	8099905N07, 9046707043	25 x	
420.1201	4292906	30 x	
420.1801	1268176	20 x	
420.1057	51131804205	40 x	
420.1651	790307216, 947098, A0009903492	40 x	
420.1803	171583585, 591740	40 x	
420.1560	6384801G00	25 x	
420.1802	9133417	20 x	
420.1804	9133073	40 x	
420.1805	3272075327462B	30 x	
420.1806	327462A	20 x	
420.1807	3923712	20 x	

INTERIOR TRIM AND LINER

Upholstery clamp pliers set

- Straps for attaching bolster clamps to vehicle seats
- For all common bolster clamps
- Includes 100 clamps
- With PVC dipped handle
- Chrome vanadium



118.0160	101 pcs	Upholstery clamp pliers set	310
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consists of:

118.0161	Clamps, 100 pcs	85
118.0162	Seat clamp pliers	180

Tail gate panel remover

- Suitable for releasing hard-to-reach places retaining clips on vehicle panels
- With specially angled handle
- Robust design
- Special steel

Application range: Audi A3, A4 Avant, A6, Volkswagen Golf 4, Seat, Škoda, etc.



140.2378	Length mm	500.0	Weight kg	240
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Panel bag

- Universal usage for positioning, fixing and separating body parts
- Ideal for the damage-free opening of car doors
- Levelling tool for the installation of door and window frames
- Extremely high pressure power
- Easy to pump with the hand pump
- Robust panel bag



116.1035	L mm	200.0	B mm	150.0	Weight kg	190
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Panel bag set with hand pump

- Universal usage for positioning, fixing and separating body parts
- Ideal for the damage-free opening of vehicle doors
- Levelling tool for the installation of door and window frames
- For separating interior trim
- Pumping via a hand pump with valve connector
- Release valve on the bellows
- Extremely high pressure power



150.1685	4 pcs	Panel bag set with hand pump	300
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consists of:

150.1686	Hand bellows	84
150.1687	Panel bag 180 x 40mm	23
150.1688	Panel bag 190 x 60mm	27
150.1689	Panel bag 160 x 160mm	47

Window trim removal tool

- Narrow tool
- Ideal for fast and safe dismantling of the shaft covers, front grille, auxiliary lights, covers, etc.
- With 180° angled profiled stainless steel blade
- With 1 component handle

Application range: Audi, Volkswagen, Seat, Volvo, etc.



140.2208	Width mm	30.0	Length mm	170.0	Weight kg	90
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Window strip lever

- Ideally suitable for the dismantling and assembly of cavity strips and trims
- Optimal leverage across the total width of the plate
- With problem free insertion due to the sharply chamfered lever blade
- Ideally suited for curved surfaces
- Back with semicircular profile or professional fitting of the trim strip
- Unbreakable special plastic

Application range: Opel, Ford, BMW, etc.



911.8118	Length mm	350.0	Width mm	180.0	Weight kg	690
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Hook tool set

- Ideal for removing and use of O rings and seals
- With one component handle
- With hanging hole
- Special steel



550.1045	4 pcs	Hook tool set	120
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consists of:

550.1046	Hook tool 120mm blade, straight version	27
550.1047	Hook tool 120mm blade, 45° angled version	27
550.1048	Hook tool 120mm blade, 90° angled version	27
550.1049	Hook tool 120mm blade, 135° angled version	27

Master hook tool set

- Ideal for removing and use of O rings and seals
- With hanging hole
- Special steel



550.1070	9 pcs	Master hook tool set	680
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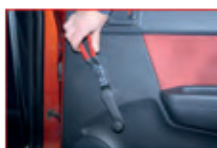
consists of:

550.1046	Hook tool 120mm blade, straight version	27
550.1047	Hook tool 120mm blade, 45° angled version	27
550.1048	Hook tool 120mm blade, 90° angled version	27
550.1049	Hook tool 120mm blade, 135° angled version	27
550.1071	Hook tool large, straight	91
550.1072	Hook tool large, 90° offset	105
550.1073	Hook tool large, sickle form	88
550.1074	T-handle hook tool, S-form small	42
550.1075	T-handle hook tool, S-form big	96

Door spring pliers

- Ideal for the assembly and disassembly of window crank handle lock
- Prevents damage to the door panel
- PVC dipped handle
- Chrome vanadium
- Head burnished

Application range: Sunshade, rear mirror, window cranks, etc.



	opening mm	Length mm	
115.0994	8-45	210.0	140



Security ring assembly and de assembly tool

- Simple dismantling of the window crank handle
- Closed end used for the assembly
- Open end used for the dismantling
- Painted surface

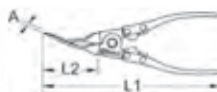
Application range: Window cranks and door handles



	Length mm	
140.2279	265.0	120

Door panel rivet tool

- For the gentle release of clips of all kinds on the entire vehicle
- Through the gentle release of the clips can be reused
- Self-closing
- With spring clip
- Head burnished
- Chrome vanadium



	A mm	L1 mm	L2 mm	
115.1051	32.0	240.0	80.0	240

Mould release tool set

- With rubber underside to prevent damage from scratches
- For removing the clips on bonded car screens
- Ideally suited to removing double clips, which are barbed on both sides
- Can be used for all clip types that must be tightened with the windscreen
- Overall length 220.0 mm
- With suspension hole
- PVC dipped handle



140.2202	2 pcs Mould release tool set	280

consists of:

140.2351	Trim and air ventilation remover right handed	140
140.2352	Trim and air ventilation remover left handed	140

Door panel remover lever

- Ideal for releasing the fastening stoppers on the door panels
- Prevents damage to the door panel
- Optimum power transmission through lever function
- Includes protective coating
- With two component handle
- Special steel

Application range: Ford Galaxy >1995, Seat Alhambra >1996, Volkswagen Sharan >1996, Touareg >2003, Touran >2004, Phaeton >2003, etc.



	Length mm	
140.2306	260.0	440

Rivet removal pliers set

- Suited to the dismantling of plastic rivets
- Self-opening
- Including angled and straight set up
- Plastic



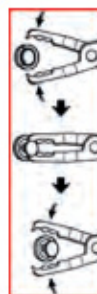
115.1096	2 pcs Rivet removal pliers set	40

consists of:

115.1097	Rivet pliers, red, angled, 100mm	20
115.1098	Rivet pliers, blue, straight, 100mm	20

Trim clip pliers set

- Suited to the dismantling of plastic rivets and plastic clips
- With various profiles
- 35° + 80° angled tips
- Self-opening
- Chrome vanadium



115.1086	2 pcs Trim clip pliers set	380

consists of:

115.1087	Trim clip pliers, 35° offset, 190mm	180
115.1088	Trim clip pliers, 80° offset, 200mm	190

Clip remover

- For metal and plastic clips
- Durable tool for the removal of door panels
- Lever effect due to the angled head on the front end of the lifter
- Robust execution with durable square shaft
- With hanging hole
- Special steel



	L mm	
911.8150	300.0	190

Clip removal set

- For metal and plastic clips
- Durable tool for the removal of door panels
- Lever effect due to the angled head on the front end of the lifter
- Rugged design with durable shaft
- With suspension hole
- 15° angled
- With two component handle
- Special steel



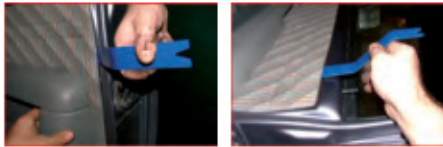
Part No.	Quantity	Description	Weight (kg)
140.2370	6 pcs	Clip removal set	1.00

consists of:

Part No.	Description	Weight (kg)
140.2371	Clip release short, length 245 mm, opening 4 mm	65
140.2372	Clip release short, length 245 mm, opening 8 mm	65
140.2373	Clip release short, length 245 mm, opening 10 mm	65
140.2374	Clip release long, length 510 mm, opening 4 mm	150
140.2375	Clip release long, length 510 mm, opening 8 mm	150
140.2376	Clip release long, length 510 mm, opening 10 mm	150

Clip remover

- For removing and installing clips
- With varying length ends
- Very fit and robust execution
- Painted surface
- Metal



Part No.	L1 (mm)	L2 (mm)	L3 (mm)	Weight (kg)
140.2249	230.0	100.0	50.0	170

Clip remover U-form, narrow angled

- Universal usage
- For removing cover panels trims and protective caps, etc
- Beveled ground blades
- With hanging hole
- With two component handle
- Stainless steel



Part No.	Width (mm)	Depth (mm)	Total length (mm)	Blade thickness (mm)	Weight (kg)
911.8191	6.0	13.0	230.0	95.0	2.5

Clip remover V-form

- Universal usage
- For removing cover panels trims and protective caps, etc
- With cutting edge blade
- Bevelled ground cutting edge blade
- With hanging hole
- With two component handle
- Stainless steel



Part No.	Width (mm)	Depth (mm)	Total length (mm)	Blade thickness (mm)	Weight (kg)
911.8192	5.0	8.0	230.0	95.0	2.5

Clip remover U-form, wide offset

- Universal usage
- For removing cover panels trims and protective caps, etc
- Bevelled ground blades
- With hanging hole
- With two component handle
- Stainless steel



Part No.	Width (mm)	Depth (mm)	Total length (mm)	Blade thickness (mm)	Weight (kg)
911.8193	8.0	20.0	260.0	120.0	2.5

Clip remover U-form, wide angled

- Universal usage
- For removing cover panels trims and protective caps, etc
- Bevelled ground blades
- With hanging hole
- With two component handle
- Stainless steel



Part No.	Width (mm)	Depth (mm)	Total length (mm)	Blade thickness (mm)	Weight (kg)
911.8194	16.0	20.0	230.0	95.0	2.5

Clip remover Y-form, double width angled

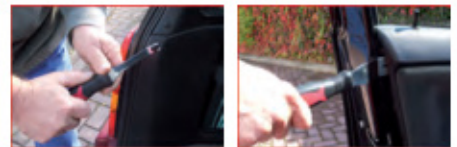
- Universal usage
- For removing cover panels trims and protective caps, etc
- Bevelled ground blades
- With hanging hole
- With two component handle
- Stainless steel



Part No.	Width (mm)	Depth (mm)	Total length (mm)	Blade thickness (mm)	Weight (kg)
911.8195	8.0	20.0	230.0	95.0	2.5

Clip remover and cutting set

- Universal use due to different blades
- For removing cover panels trims and protective caps, etc
- Bevelled ground blades
- With hanging hole
- With two component handle
- Stainless steel



Part No.	Quantity	Description	Weight (kg)
911.8190	5 pcs	Clip remover and cutting set	2.00

consists of:

Part No.	Description	Weight (kg)
911.8191	Clip remover U-form, narrow angled, 230 mm	120
911.8192	Clip remover V form, 230 mm	120
911.8193	Clip release U-form, wide offset, 230 mm	210
911.8194	Clip release U-form, wide angled, 230 mm	150
911.8195	Clip release Y-form, double width angled, 230 mm	150

Standard clip remover

- With wedge shaped end
- With lifting and wedge function
- Ideal for loosening panels without damage to the paintwork
- Special plastic



Part No.	L (mm)	B (mm)	Weight (kg)
911.8125	210.0	20.0	80

Trim removal wedge

- With wedge shaped end
- Narrow execution
- With 2 different levering angles
- Angled sides have a 90° and 30° angle
- Ideal for loosening panels without damage to the paintwork
- Special plastic



	L mm	B mm	Weight
911.8122	180.0	20.0	40

Double clip remover

- With wedge shaped end
- Very robust execution
- With 2 different lever angles at 75° and 30°
- Special plastic



	L mm	B mm	Weight
911.8123	200.0	30.0	70

Bumper trim removal wedge

- With wedge shaped end
- Wide execution
- With 90° angled side
- Ideal for loosening panels without damage to the paintwork
- Special plastic



	L mm	B mm	Weight
911.8121	160.0	60.0	80

Clip remover with pulling eye

- With wedge shaped end
- Pulling eye for removal
- With 90° angled side
- Ideal for loosening panels without damage to the paintwork
- Special plastic



	L mm	B mm	Weight
911.8124	180.0	30.0	70

Plastic lever wedge set

- Ideal for loosening miscellaneous cover parts
- Practical assortment of different wedge and clip removal tools
- Slim and robust design
- Ideal for avoiding paint damage and damage-free release of interior trims, panels, etc.
- For delicate work on fragile cover parts
- Special plastic



	Weight
911.8120 5 pcs Plastic lever wedge set	300

consists of:

	Weight
911.8121 Bumper trim removal wedge, 160 mm	80
911.8122 Trim removal wedge, 180 mm	40
911.8123 Double clip wedge, with wedge shaped end, 200 mm	70
911.8124 Clip lever, with wedge shaped end, 180 mm	70
911.8125 Standard clip wedge, with wedge shaped end, 210 mm	80

Dual clip remover, offset

- Flat shaped back
- Durable design
- With straight- and sharp chisel end
- Ideal for loosening panels without damage to the paintwork
- With hanging hole
- Special plastic



	L mm	B mm	Weight
911.8106	200.0	30.0	40

Dual clip remover, straight profile

- Flat shaped back
- Durable design due to straight profile
- Blunt chisel end
- Ideal for loosening panels without damage to the paintwork
- With hanging hole
- Special plastic



	L mm	B mm	Weight
911.8107	200.0	30.0	40

Double ended clip lever narrow

- Flat shaped back
- Narrow execution
- Wedge end tips pointed and chisel formed
- Ideal for loosening panels without damage to the paintwork
- With hanging hole
- Special plastic



	L mm	B mm	Weight
911.8110	200.0	15.0	20

Double ended pointed and rounded head lever

- Flat shaped back
- Flattened and flexible radius side
- Blunt chisel side
- Ideal for loosening clips
- With hanging hole
- Special plastic



	L mm	B mm	Weight
911.8108	200.0	25.0	20

Double ended sword and rounded head lever

- Flat oval on the front and back side
- Both ends chisel edged formed
- Flexible
- Ideal for loosening clips
- With hanging hole
- Special plastic



	L mm	B mm	Weight
911.8109	200.0	20.0	20

Adhesive weight remover with saw blade

- Ideal for protective disassembly of adhesive wheel weights on aluminium rims
- With flexible flange scraper and cutting edge
- Lever back flange chisel form, cutting side with teeth
- Special lever for the removal of wheel weights
- Also suitable for the removal of labels, adhesive and type plates
- Surfaces are not damaged
- Sharpened with a file
- Solvent-resistant
- Special plastic



	L mm	B mm	Radius R mm	Weight
911.8111	200.0	25.0	38.0	20

Interior panelling removal tool set

- Ideal for loosening miscellaneous cover parts
- Practical assortment of different wedge and clip removal tools
- Slim and robust design
- Ideal for avoiding paint damage and damage-free release of interior trims, panels, etc.
- For delicate work on fragile cover parts
- Special plastic



			📦
911.8105	6 pcs	Interior panelling removal tool set	280

consists of:

			📦
911.8106	Double ended-clip remover, offset	40	
911.8107	Dual-clip remover, straight profile, 200 mm	40	
911.8108	Double ended pointed and rounded head lever	20	
911.8109	Double ended sword and rounded head lever, 200 mm	20	
911.8110	Double ended-wedge lever, slim	20	
911.8111	Adhesive weight removal lever and cutting edge Length 200 mm, width 25 mm	20	

Plastic lever wedge set

- Ideal for loosening miscellaneous cover parts
- Practical assortment of different wedge and clip removal tools
- Slim and robust design
- Ideal for avoiding paint damage and damage-free release of interior trims, panels, etc.
- For delicate work on fragile cover parts
- Special plastic
- In a practical storage case



			📦
911.8205	11 pcs	Plastic lever wedge set	530

consists of:

			📦
911.8106	Double ended-clip remover, offset	40	
911.8107	Dual-clip remover, straight profile, 200 mm	40	
911.8108	Double ended pointed and rounded head lever	20	
911.8109	Double ended sword and rounded head lever, 200 mm	20	
911.8110	Double ended-wedge lever, slim	20	
911.8111	Adhesive weight removal lever and cutting edge Length 200 mm, width 25 mm	20	
911.8121	Bumper trim removal wedge, wide version, with wedge shaped end, 180 mm	80	
911.8122	Trim removal wedge, narrow version, with wedge shaped end, 180 mm	40	
911.8123	Double clip wedge, with wedge shaped end, 200 mm	70	
911.8124	Clip lever, with wedge shaped end, 180 mm	70	
911.8125	Standard clip wedge, with wedge shaped end, 210 mm	80	

Plastic wedge and glass scraper set

- Ideal for loosening miscellaneous cover parts
- Practical range of different wedge and glass scrapers
- Slim and robust design
- Ideal for avoiding paint damage and damage-free release of interior trims, panels, etc.
- For delicate work on fragile cover parts
- Special plastic



			📦
911.8210	4 pcs	Plastic wedge and glass scraper set	120

consists of:

			📦
911.8211	Glass scraper, straight, 175 mm	20	
911.8212	Glass scraper, angled, 175 mm	30	
911.8213	Wedge, cornered, 175 mm	30	
911.8214	Wedge, curved lip, 175 mm	30	

Moulding wedge with felt

- With felt trimming
- For the careful assembly by pressing in trim mouldings
- The fl t surface protects components
- Suitable for the aligning of car doors or to force them open
- Special plastic



L mm	B mm	📦	
911.8141	250.0	20.0	70

Plastic lever and beveled wedge

- The fl t surface protects components
- Ideally suited for working on trims, door panels, rubber seals etc.
- Special plastic



			📦
L mm	B mm		
911.8142	250.0	20.0	30

Trim plastic wedge

- Ideal for the aligning of car doors or to force them open
- The fl t surface protects components
- Suitable for working on trims, door panels, rubber seals etc.
- Special plastic



			📦
L mm	B mm		
911.8138	195.0	30.0	90
911.8139	195.0	60.0	150

Trim removal combination wedge

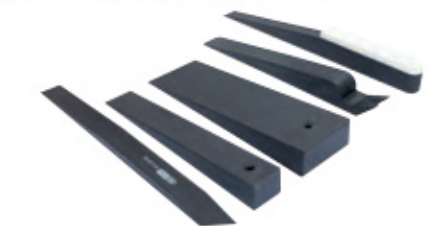
- Ideally suitable for the dismantling and assembly of trims
- Door mouldings, door accessories etc
- Swallow tail opening 45° angled
- The fl t surface protects components
- Optimal leverage with the short wedge and long lever
- Optimal usage for removal and refi ng trims and mouldings cutting edges on the ends
- Special plastic



			📦
L mm	B mm		
911.8140	210.0	26.0	90


Plastic lever wedge set

- Ideal for the aligning of car doors or to force them open
- The fl t surface protects components
- Suitable for working on trims, door panels, rubber seals etc.
- Impact resistant special plastic



			📦
911.8160	5 pcs	Plastic lever wedge set	430

consists of:

		
911.8138	Trim plastic wedge, L=195mm x B=30mm	90
911.8139	Trim plastic wedge, L=195mm x B=60mm	150
911.8140	Trim plastic wedge, L=210mm x B=26mm	90
911.8141	Moulding wedge with felt, L=250mm x B=20mm	70
911.8142	Plastic lever and beveled wedge, L=250mm x B=20mm	30

Removal wedge

- Ideally suited for the dismantling of sensitive components
- The flat surface protects damaging laquer
- Ideal for hard to access areas
- Special plastic




	L1 mm	L2 mm	L3 mm	B mm	
911.8119	600.0	340.0	200.0	30.0	340

STORAGE COMPARTMENTS

Windscreen table with rubber protective pads

- Ideally suited for holding the windscreen when removing, or removing adhesive material
- Four moveable rubber nipples hold the windscreen in place and prevent scratches
- Fully adjustable in width
- For nearly all windscreen sizes
- Foldable to save space during storage
- Robust construction
- Up to 80 kg capacity
- From zinc coated steel pipe




	L mm	H mm	Scissor up Ø mm	Rubber pad	
140.2225	1030.0	1040.0	125.0	140.2225-1	8.40

Windscreen holder

- Ideally suited to holding the windscreen when removing, or removing adhesive material
- Holding tube with non-slip, coated padding offer optimal grip and prevent scratches
- Fully adjustable in width
- For nearly all windscreen sizes
- Foldable to save space during storage
- Robust construction
- Up to 80 kg capacity
- From zinc coated steel pipe



	L mm	H mm	Part	
140.2226	1030.0	940.0	140.2226-1	6.60

Universal Telescopic-Multi-purpose trolley

- Ideally suited to bodywork restoration, in the painting area or for filling screens when removing, or applying adhesive material, etc.
- Holding tube with non-slip, coated padding offer optimal grip and prevent scratches
- The multi-talented universal use, since width and height are fully adjustable and lockable
- For nearly all windscreen sizes
- Can also be used as a work bench or for carrying parts
- Collapsible to save space during storage
- With 4 stable castors, 2 with locking brakes
- Simple handling
- Load capacity up to 100 kg
- Robust construction from square pipe




	B mm	H mm	
500.8100	257.0-1380.0	845.0-1320.0	23.50

Windscreen worktable with castors

- Ideally suited to holding the windscreen when removing, or removing adhesive material
- Holding tube with non-slip, coated padding offer optimal grip and prevent scratches
- For nearly all windscreen sizes
- Foldable to save space during storage
- With 4 stable castors, 2 with locking brakes
- Simple handling
- Load capacity up to 100 kg
- Robust construction from steel pipe




	L mm	H mm	Part	
140.2227	900.0	930.0	140.2228	8.00

Paint stand for wheel rims

- Ideally suited to fill g rims or wheels when grinding or painting
- Adjustable holding devices offer optimum grip and protect from scratches
- Multi-way adjustment: width, height and tilt
- For almost all sizes
- With four sturdy rollers, two of which have brakes
- Efficient, one-handed working
- Support rods and cone can be adjusted optimally
- Rims and wheels can be turned for optimum results
- No stopping work leading to a smoother finish
- Saves a lot of time when preparing for painting
- Better results
- Up to 90 kg capacity
- Robust construction from steel pipe



	L mm	B mm	H mm	
140.2222	950.0	900	1350.0-1950.0	19.00

Painting stands

- Ideally suited to fill g bonnets, tail gates, wings, bumpers and when grinding or painting
- Adjustable holding devices offer optimum grip and protect from scratches
- Multi-way adjustment: width, height and tilt
- For almost all sizes
- With 4 sturdy castors, 2 of which have brakes and steering
- Efficient, one-handed working
- No stopping work leading to a smoother finish
- Saves a lot of time when preparing for painting
- Better results
- Up to 35 kg capacity
- Robust construction from steel pipe



	L mm	B mm	H mm	kg
140.2254	1100.0	780.0	1500.0	17.50

Rotatable paint stands

- Ideally suited to fill g bonnets, tail gates, wings, bumpers and small parts when grinding or painting
- Adjustable holding devices offer optimum grip and protect from scratches
- Multi-way adjustment: width, height and tilt
- Can be turned 360° with foot lever
- For almost all sizes
- Includes lengthener which can be disassembled at any time
- With 6 universally adjustable holding arms
- Includes gun holder on one side
- With two sturdy wheels
- Efficient, one-handed working
- No stopping work leading to a smoother finish
- Saves a lot of time when preparing for painting
- Better results
- Up to 35 kg capacity
- Robust, galvanised construction



	L mm	B mm	H mm	kg
140.2384	1900.0	800.0	1000.0	17.00

Paper trolley with 2 shelves

- Ideally suited to masking painting
- Mobile paper dispenser with 2 shelves for up to 2 paper rolls
- Suitable for covering paper and covering sheets up to 45 cm
- Supplied with adjustable tape pressure rollers
- Includes gun holder on one side
- Problem-free and graded separation with use of a sharp blade
- With practical storage compartments
- With two sturdy wheels
- Includes handle for easy movement in the workshop
- Robust construction from steel pipe



	L mm	B mm	H mm	kg
140.2382	660.0	600.0	920.0	11.00

Paper trolley with 4 shelves

- Ideally suited to masking painting
- Mobile paper giver with 4 shelves for up to 4 paper rolls
- Suitable for covering paper and covering sheets up to 45 cm
- Two shelves for max. 30 cm and two shelves for max. 45 cm
- Supplied with adjustable tape pressure rollers
- Problem-free and graded separation with use of a sharp blade
- With two sturdy wheels
- Includes handle for easy movement in the workshop
- Robust construction from steel pipe



	L mm	B mm	H mm	kg
140.2383	580.0	560.0	1080.0	11.00

Paper trolley with 3 shelves

- Ideally suited to masking painting
- Mobile paper giver with 4 shelves for up to 6 paper rolls
- Suitable for covering paper and covering sheets up to 90 cm
- Supplied with adjustable tape pressure rollers
- Simple replacing of paper rolls
- Multi-adjustable for different lengths
- Includes gun holder on both sides
- With 4 sturdy, steerable castors
- Includes handle for easy movement in the workshop
- Robust construction from steel pipe



	L mm	B mm	H mm	kg
140.2350	1240.0	540	1130.0	29.00

Pallet cage trolley

- For universal use in the workshop
- Ideal for transporting body parts, screens, etc.
- With 4 steering castors
- Load capacity up to 80 kg
- Robust construction from steel pipe



	Length mm	Width mm	Height mm	kg
160.0260	900.0	600.0	1965.0	40.86

Workshop service trolley

- Made from robust sheet steel construction
- Non slip foam insert on the upper working surface
- Lower shelf with high retaining border
- 2 castor wheels 100 mm
- 2 castor wheels with brake 100 mm
- High level of stability



Technical data:

Total load capacity: 200 kg

	L mm	B mm	H mm	
890.0002	697.0	489.0	836.0	19.10

Workshop service trolley

- Extremely substantial plastic construction
- Without screws easily constructed
- Distance between the ground 30 cm
- 2 castor wheels 100 mm
- 2 castor wheels with brake 100 mm
- High level of stability
- Light profile eight
- Columns made out of anodised aluminum



Technical data:

Total load capacity: 200 kg

	L mm	B mm	H mm	
800.0020	860.0	480.0	1010.0	12.10

Workshop service trolley with lining

- Extremely substantial plastic construction
- Equipment lining
- Without screws easily constructed
- Distance between the ground 30 cm
- 2 castor wheels 100 mm
- 2 castor wheels with brake 100 mm
- High level of stability
- Light profile eight
- Columns made out of anodised aluminum



Technical data:

Total load capacity: 200 kg

	L mm	B mm	H mm	
800.0021	860.0	480.0	1010.0	12.10

Workshop service trolley with 2 drawers

- Extremely robust plastic construction
- Easily constructed without screws
- Two ball bearing drawer runner guides
- 2 castor wheels 100 mm
- 2 castor wheels with brake 100 mm
- High level of stability
- Light profile eight
- Columns made out of anodised aluminum



Technical data:

Drawer dimensions: H 85 x B 430 x T 520 mm

Total load capacity: 200 kg

Load capacity of each drawer: 35 kg

	L mm	B mm	H mm	
800.0030	860.0	480.0	1010.0	14.20

Workshop service trolley with 2 drawers and lining

- Extremely substantial plastic construction
- Without screws easily constructed
- Two ball bearing drawer runner guides
- 2 castor wheels 100 mm
- 2 castor wheels with brake 100 mm
- High level of stability
- Light profile eight
- Columns made out of anodised aluminum



Technical data:

Drawer dimensions: H 85 x B 430 x T 520 mm

Total load capacity: 200 kg

Load capacity of each drawer: 35 kg

	L mm	B mm	H mm	
800.0031	860.0	480.0	1010.0	15.00

GENERAL TOOLS

Contour gauge

- For quickly removing and transferring bodywork contours
- Precise and accurate work results
- Easy handling
- Side metal holder for optional attachment of second gauge
- Expansion of the working area to 500 mm
- with 250 mm/10" long scale/divided into mm/inches
- 45 mm insertion depth
- With 4 magnets on the reverse
- Distortion-resistant design
- Plastic

Application range: Body work/Model construction/Joiner/Tile



	H mm	T mm	L mm	
140.2147	100.0	20.0	280.0	421

Gap wedge

- For adjusting when installing bodywork parts
- Original size can be decreased with gauge beforehand by an undamaged side
- Also suitable for rapid comparison measurement
- With measuring scale
- With handle
- Aluminium



	Length mm	Measuring range mm	
150.1569	155.0	0,5 - 120,0	25

Pannel gap gauge set

- For adjusting and inserting car windscreens and body parts
- Adjustments on the body with revolving, ball bearing mounted construction
- The gap size gauge can be adjusted 3 dimensionally and can be positioned problem-free according to the required demands
- The 10 distance plates allow for a precise setting of the gap size
- Original size can be decreased with gauge beforehand by an undamaged side
- No damage or scratches on recently painted parts
- With reinforcement screw
- Plastic



		L mm	B mm	H mm	U
150.1570	3 pcs	110	20.0	45.0	100

Engine compartment and tail gate supports

- Ideal for working on the engine compartment or tail gate, e.g. when replacing the dampers
- Tail gate can be locked into any position required
- Fully adjustable
- With practical fastening mechanism
- Special steel



		Length mm	U
140.2199		650 - 1500	1.80



Mechanics stethoscope

- Very flexible
- Serves the acoustic test and evaluation of a component under load
- Quick and precise error detection from the sound
- With steel tip

Application range:
 Engine: Valves, bearings, piston pins
 Alternator: Bearing sounds
 Differential: Barrel sounds
 Bodywork: Creak and squeak sounds



	L mm	U
150.1645	1120.0	200

Mechanic's stethoscope, electronic

- Very flexible
- Serves the acoustic test and evaluation of a component under load
- Quick and precise error detection from the sound
- Includes 9 V block battery
- With steel tip

Application range:
 Engine: Valves, bearings, piston pins
 Alternator: Bearing sounds
 Differential: Barrel sounds
 Bodywork: Creak and squeak sounds



	Cable length mm	Length mm	U
150.1410	1160.0	190.0	100

Electronic professional stethoscope

- For the professional defect diagnosis
- Serves the acoustic test and judgment of a component under load
- Delivers fast, absolutely clear and unambiguous test results over sounds
- Contains 6 independent sensors that can be mounted for example on the vehicle floor or in the engine compartment for ease
- Simple coordination of the defect source through colour coded cable and colour table on the box
- In durable plastic storage case

Application range:
 Engine: Valves, bearings, piston pins
 Alternator: Bearing sounds
 Differential: Barrel sounds
 Bodywork: Creak and squeak sounds



		U
150.1695	18 pcs Electronic professional stethoscope	2.50

consists of:

		U
150.1695-1	Headset for 150.1695	350
150.1695-2	Amplifier for 150.1695	115
150.1695-3	Hand held stethoscope for 150.1695	165
150.1695-4	Velcro strap for 150.1695, 8 pcs	9
150.1695-5	Sensor for 150.1695	10
150.1695-6	Colour coded cable for 150.1695, 6 pcs	755

Ultrasound leak detector

- Acoustic locating of leaks on bodywork
- Receiver is passed externally along the bodywork
- Simplifies cause investigation for wind noise and water leaks
- In a practical storage case



		U
150.1690	Ultrasound leak detector	460

Rod thermometer

- Controls temperature of air streams through air channels
- Controls the water temperature
- With long and narrow measuring instruments
- Scale with °C and °F measurements



	L mm	Working range °C	Working range °F	Icon
150.1963	210.0	0 - 200	0 - 400	27

Digital rod thermometer

- Controls temperature of air streams through air channels
- Controls the water temperature
- With long, narrow measuring instruments
- Good readability
- Includes 9V block battery
- Includes hold function
- Includes LCD display



	Length mm	Working range °C	Icon
150.1968	125.5	-50 - 150	145



Layer thicknesses measuring instrument

- For fast measurement of coatings
- For coatings on aluminium, iron and non-ferrous metals
- Ideally suited to the disclosure of accident damage
- Digital display with lighting
- Automatic switch off
- One-handed operation
- Stable plastic housing
- With practical storage case



Technical data:

Readout: 3,1/2" LCD readout
 Operating settings: 0°C - 50°C (32°F - 50°F) < 75% air humidity
 Response time: 1 second
 Loading gage "Strength": 0-40 mils (0-1000 µm)
 Display accuracy: +/- 4 dgts up 0 to 7,8 mils
 +/- 10 dgts up 0 to 199 µm
 +/- (3% + 4 dgts) up 7,9 mils to 40 mils
 +/- (3% + 10 dgts) up 200 to 1000 µm

	H mm	B mm	T mm	Icon
150.3010	148.0	105.0	42.0	280

Heat blow gun set

- High-performance hot-air gun with two supply levels
- Seamless temperature regulation
- Adjustment wheel with marking for 6 temperature settings
- Stand for high up-right assembly
- Includes 4 different replacement nozzles

Application range: Removing paint, soldering pipes, shrinking PVS, welding and bending plastics, drying, thawing, etc.

Technical data:

Performance: 2000 Watt
 Amperage: 8A
 Operating voltage: 220/240 V (50 Hz)
 Temperature settings: 1=50°C/2=100°C/3=200°C/4=350°C/5=550°C/6=650°C
 Level 1: 200-300 l/min (max. 450°C)
 Level 2: 350-500 l/min (max. 650°C)



	Icon
960.1190	5 pcs Heat blow gun set 1.11

consists of:

	Icon
960.1191	Heat blow gun 670
960.1192	Wide nozzle 75 mm 20
960.1193	Refle tar nozzle 20
960.1194	Reduction nozzle 45 mm 20
960.1195	Reduction nozzle 14 mm 50

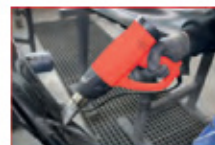
Digital heat blow gun set

- High-performance hot-air gun with two supply levels
- Digital seamless temperature regulation
- Includes jig for up-right assembly
- 10 blower levels
- Includes 4 different replacement nozzles
- LCD display

Application range: Removing colours, soldering pipes, shrinking PVS, welding and bending plastics, drying, thawing, etc.

Technical data:

Performance: 2000 Watt
 Amperage: 10A
 Operating voltage: 220/240 V (50 Hz)
 Temperature settings: 50-650°C
 Level 1: 200-300 l/min (max. 450°C)
 Level 2: 350-500 l/min (max. 650°C)



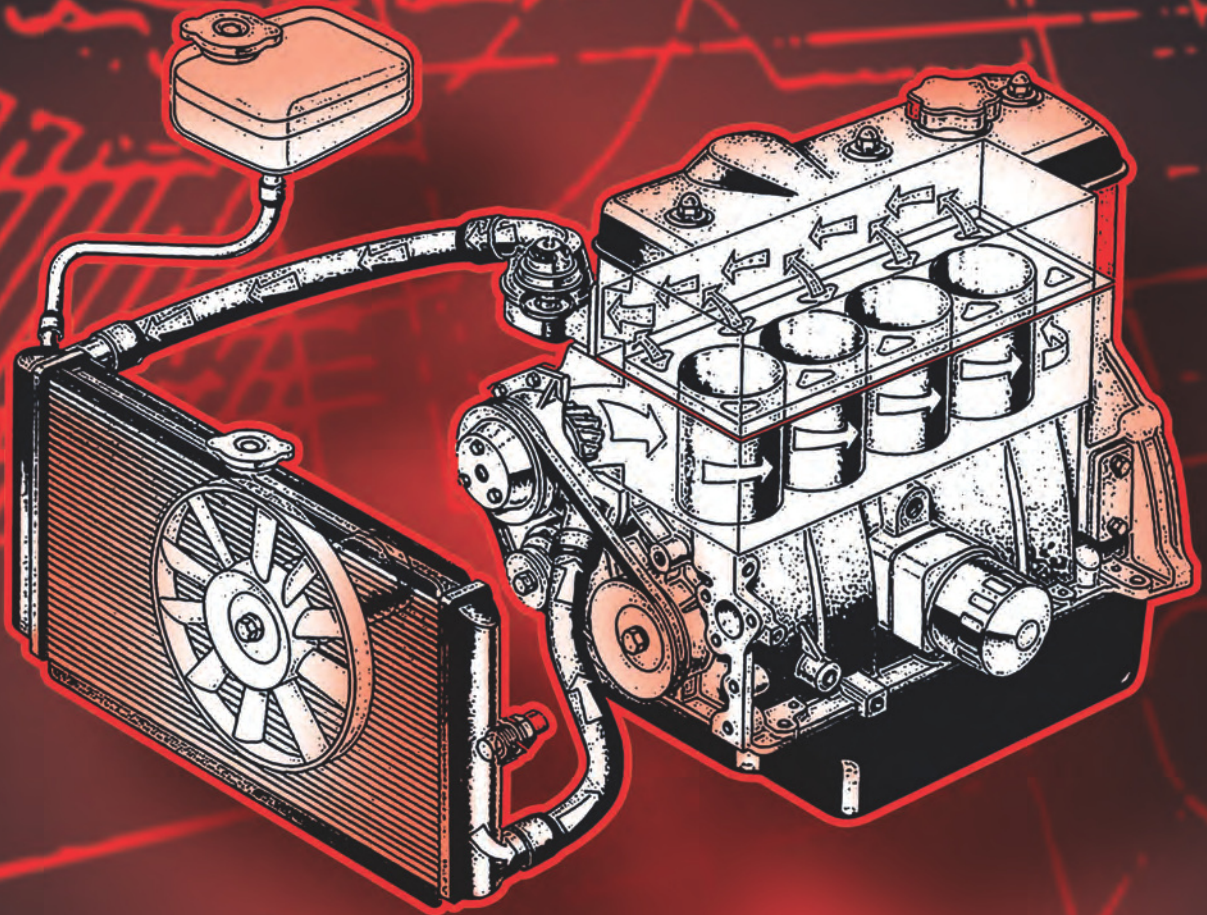
	Icon
960.1175	5 pcs Digital heat blow gun set 850

consists of:

	Icon
960.1176	Heat blow gun, digital 740
960.1192	Wide nozzle 75 mm 20
960.1193	Refle tar nozzle 20
960.1194	Reduction nozzle 45 mm 20
960.1195	Reduction nozzle 14 mm 50



ENGINE - ENGINE COOLING SYSTEM



Innovation is our mission!



	PAGE
	160
	160
COOLING SYSTEM VACUUM FILLING DEVICE	160 - 161
COOLING SYSTEM CONE TEST ADAPTER	161
PRESSURE TEST PUMPS	161
COOLER ADAPTER	162 - 164
COOLING SYSTEM DIAGNOSIS SYSTEM SET	164
CYLINDER HEAD LEAK TESTER	165
THERMAL SWITCH SOCKET	165
LOCKING SCREW TURNER	165
COUNTER HOLD TOOL	166 - 167
FROST PROTECTION AND COOLANT WATER TESTER	167 - 168
TEMPERATURE MEASURING DEVICE	168
HOSE CLAMP TOOL	168 - 172
HOSE CLAMP TOOLS	172 - 173
DRIP PANS	173
MEASURING BEAKER, JUG AND FUNNEL	174
TRANSFER PUMPS	174 - 175

WATER PUMP TEST

Water pump testing set

- Makes an effective display of the cooling fluid flow possible
- Not necessary to remove the water pump
- Test carried out on running engine
- Time-saving diagnosis



150.9020	8 pcs	Water pump testing set	520
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consists of:

	x		
150.9021	1	Measuring device (low pressure 0-15 psi)	192
150.9022	2	Dummy plug	2
150.9023	1	Rubber pipe sealant set, 2 parts	63
150.9025	1	6 mm plastic hose, 2 m long	30
150.9026	1	Hose connector with external thread	52
150.9027	1	Pipe plug	130

WATER PUMP TOOL

Holding wrench for water pump belt pulleys

- Ideal for locking and releasing during assembly and disassembly of water pump belt pulleys
- Easy to remove fixed screws
- Internal square drive allows for lengthening possibilities
- Chrome vanadium

Application range: Audi, Volkswagen, etc.



150.3026		L mm	490

Holding wrench for water pump belt pulleys for low-down water pumps

- Ideal for locking and releasing during assembly and disassembly of water pump belt pulleys
- Easy to remove fixed screws
- For low-down water pumps on engines with air condition
- Chrome vanadium

Application range: Audi, Volkswagen (engines with air condition), etc.



150.3028		L mm	560

Volkswagen water pump removal tool set

- Ideal for the quick and easy removal of the water pump or the water pump's gear on diesel engines
- Also suitable for turning the crank shaft to the TDC position as well as holding the fixing screws when removing
- Time saving
- Robust design
- Special steel

Application range: Volkswagen (Touareg 2.5 Litre straight 5 cylinder diesel engine (R5) > 2003 with engine codes: MKB, BAC, BLK, BPD, BPE), Volkswagen (Transporter Multivan T5 LT 2.5 Litre straight 5 cylinder diesel engine (R5) >2004 with engine codes MKB, AXD, AXE, BLJ, BNZ, BPC)



700.1900	3 pcs	Volkswagen water pump removal tool set	1.10
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consists of:

700.1901	Volkswagen water pump puller	333	
700.1902	Volkswagen crank shaft securing	105	
700.1903	Volkswagen water pump drive wheel puller	303	

Water pump fixing tool for Opel

- Ideal for quick and easy assembly and disassembly of water pumps
- Required to secure the water pump belt pulley
- Time saving
- Robust design
- Special steel

Application range: Opel Astra, Insignia, Signum, Omega, Speedster, GT, Vectra, Zafira, etc. with engine code: A 20 NHT, Z 20 NET, Z 20 NHH, Z 22 SE, Z 22 SE, Z 22 XE, Z 22 YH



700.1905	100,0	Water pump fixing tool for Opel	400
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COOLING SYSTEM VACUUM FILLING DEVICE

Cooling system vacuum filling valve

- Ideally suited to the filling and testing of the tightness of the cooling system
- Includes valves, connections and dial gauge
- With supporting chain to hang it up



150.1960		Cooling system vacuum filling valve	577
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Coolant system filling hose

- Ideally suited to filling the coolant system
- Includes quick coupling
- Clear
- With suction head base



150.1961		L mm	208

Vacuum cooling system filli g device

- Universally suitable for the filli g of the cooling system of current common vehicles
- Through production of a vacuum within the cooling system the new coolant becomes of an even density sucked into the system
- During the vacuum process the cooling system is tested simultaneously for density
- Bubble free filli g prevents air inclusions in the cooling system
- A cleaning of the cool system is unnecessary
- Universally suitable through conical rubber connection piece
- In durable plastic storage case

Please note: Filling device does not empty automatically the old coolant!



Technical data:

Manometer: bis max. -30 PSI / -1 Bar
 Air pressure: min. 550kPa - max. 690kPa
 Air consumption: max. 180l/min / 690kPa
 Low pressure: 0.85 bar at 690kPa

150.2070	4 pcs	Vacuum cooling system filli g device	1.88
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consists of:

150.2070-1	Refill Gu	1280
150.2070-28	Rubber cone small	60
150.2070-29	Rubber cone, large	65
150.2070-30	Tube 1,5m	200

COOLING SYSTEM CONE TEST ADAPTER

Cooling system cone test adapter

- For testing pressure and diagnosing leaks in the coolant system
- The pressure generated holds the matching rubber cone in the cooler or expansion tank opening
- Can be fi ted directly onto the cooler or expansion tank
- Secure fi
- Simple handling
- Can be used with manual vacuum pump or filli g device
- Robust design

Application range: Cars, transporters, etc.



	Ø mm	H mm	g
455.0136	17,0 - 31,0	180,0	62
455.0137	24,0 - 39,0	180,0	77
455.0138	34,0 - 50,0	180,0	110

Cooling system cone set 17.0 - 50.0 mm

- For testing pressure and diagnosing leaks in the coolant system
- The pressure generated holds the matching rubber cone in the cooler or expansion tank opening
- Can be fi ted directly onto the cooler or expansion tank
- Secure fi
- Simple handling
- Can be used with manual vacuum pump or filli g device
- Robust design

Application range: Cars, transporters, etc.



455.0135	3 pcs	Cooling system cone set 17.0 - 50.0 mm	265
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consists of:

455.0136	Cooling system cone test adapter, Ø 17.0-31.0 mm	62
455.0137	Cooling system cone test adapter, Ø 24.0-39.0 mm	77
455.0138	Cooling system cone test adapter, Ø 34.0-50.0 mm	110

Cooling system expander cone test adapter

- For testing pressure and diagnosing leaks in the coolant system
- Also suitable for filli g the cooling system alongside a filli g valve
- The pressure generated holds the matching rubber cone in the cooler or expansion tank opening
- Can be fi ted directly onto the cooler or expansion tank
- Secure fit due o expansion
- Removes need to purchase single adapters
- For nearly all vehicle manufacturers
- Simple handling
- Optimal use alongside KS Test pump 455.0111
- Robust design made from POM (polyoxmethylen)

Application range: Cars, transporters, etc.



	Ø mm	H mm	g
455.0141	17,0 - 37,0	170,0	252
455.0142	28,0 - 41,0	170,0	280
455.0143	37,0 - 50,0	170,0	320
455.0144	47,0 - 60,0	170,0	410

Cooling system expander cones test adapter set 17.0 - 60.0 mm

- For testing pressure and diagnosing leaks in the coolant system
- Also suitable for filli g the cooling system alongside a filli g valve
- The pressure generated holds the matching rubber cone in the cooler or expansion tank opening
- Can be fi ted directly onto the cooler or expansion tank
- Secure fit due o expansion
- Removes need to purchase single adapters
- For nearly all vehicle manufacturers
- Simple handling
- Optimal use alongside KS Test pump 455.0111
- Robust design made from POM (polyoxmethylen)

Application range: Cars, transporters, etc.



455.0140	4 pcs	Cooling system expander cones test adapter set 17.0 - 60.0 mm	1.50
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consists of:

455.0141	Cooling system adapter No.1, Ø17-37mm	252
455.0142	Cooling system adapter No.2, Ø28-41mm, stepped	280
455.0143	Cooling system adapter No.3, Ø37-50mm, stepped	320
455.0144	Cooling system adapter No.4, Ø47-60mm, stepped	410

PRESSURE TEST PUMPS

Hand pump with manometer

- Ideal for testing tightness in the coolant system and heating
- Measurement range from 0 bar 2.5
- With pressure-release valve
- Includes hose



150.1931	0 - 2.5	443
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Hand pump with manometer

- Ideal for testing tightness in the coolant system and heating
- Measurement range from 0 bar 2.5
- With pressure-release valve
- Manometer with protective rubber cap
- Robust design



455.0111	Hand pump with manometer	473
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COOLER ADAPTER

Cooling system test socket R123/R124

- Ideally suited to test the cooler cover
- Serves as an adapter between the hand pump and cooler cover
- Double connection
- Black



150.1932	Cooling system test socket R123/R124	42	

Cooling system test socket R123/R125

- Ideally suited to test the cooler cover
- Serves as an adapter between the hand pump and cooler cover
- Double connection
- Blue



150.1933	Cooling system test socket R123/R125	42	

Cooling system bayonet adapter, small

- Ideal for testing the coolant system
- With quick coupling
- Aluminium

Application range: Honda, Toyota, Suzuki, Mitsubishi, Chrysler, Acura, Lexus, etc.



150.1916	Cooling system bayonet adapter, small	60	

Cooling system bayonet adapter, medium

- Ideal for testing the coolant system
- With quick coupling
- Aluminium

Application range: Ford, Peugeot, Subaru, Chrysler, Acura, GM, Mitsubishi, Nissan, Mazda, Toyota, Infiniti, etc.



150.1917	Cooling system bayonet adapter, medium	80	

Cooling system bayonet adapter, large

- Ideal for testing the coolant system
- With quick coupling
- Aluminium

Application range: Mercedes (W123, W126, W124, W201, Unimog), GM (Buick), Jeep, etc.



150.1918	Cooling system bayonet adapter, large	110	

Coolant system adapter M 34 x 3.0

- Ideal for testing the coolant system
- With quick coupling
- External thread
- Violet
- Made from shock-resistant plastic

Application range: Toyota (RAV 4, Previa), etc.



150.1954	Coolant system adapter M 34 x 3.0	51	

Coolant system adapter M 42 x 2.5

- Ideal for testing the coolant system
- With quick coupling
- Internal thread
- Purple
- Made from shock-resistant plastic

Application range: Mercedes (A class, Sprinter >2009), etc.



150.1951	Coolant system adapter M 42 x 2.5	73	

Coolant system adapter M 42 x 3.0

- Ideal for testing the coolant system
- With quick coupling
- Internal thread
- Brown
- Made from shock-resistant plastic

Application range: Citroën, Fiat, Alfa Romeo, Mini, Peugeot, Jeep, Sterling, Renault, Saab, Volvo, etc.



150.1942	Coolant system adapter M 42 x 3.0	66	

Coolant system adapter M 45 x 3.0

- Ideal for testing the coolant system
- With quick coupling
- Internal thread
- Red
- Made from shock-resistant plastic

Application range: Audi, Volkswagen, etc.



150.1946	Coolant system adapter M 45 x 3.0	56	

Coolant system adapter M 48 x 4.0

- Ideal for testing the coolant system
- With quick coupling
- Internal thread
- Grey
- Made from shock-resistant plastic

Application range: BMW (3 series E36, E46, E90, 5 series E34, E39, 7er E32, E38), etc.



150.1945	Coolant system adapter M 48 x 4.0	80
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Coolant system adapter M 46 x 3.0

- Ideal for testing the coolant system
- With quick coupling
- Internal thread
- Turquoise
- Made from shock-resistant plastic

Application range: Seat (Alhambra), Volkswagen (Sharan 1.8 T and 2.8 L)



150.1953	Coolant system adapter M 46 x 3.0	64
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Coolant system adapter M 50 x 2.5

- Ideal for testing the coolant system
- With quick coupling
- Internal thread
- Green
- Made from shock-resistant plastic

Application range: Ford, Opel (Insignia, Corsa D), Jaguar, Land Rover, Ssangyoung, etc.



150.1947	Coolant system adapter M 50 x 2.5	86
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Coolant system adapter M 45 x 3.0

- Ideal for testing the coolant system
- With quick coupling
- Internal thread
- Moss green
- Made from shock-resistant plastic

Application range: BMW Mini >2008, PSA 2008-2010, etc.



150.1994	Coolant system adapter M 45 x 3.0	48
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Coolant system adapter M 48 x 2.5

- Ideal for testing the coolant system
- With quick coupling
- Internal thread
- Pink
- Made from shock-resistant plastic

Application range: Mazda (3), etc.



150.1950	Coolant system adapter M 48 x 2.5	75
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Coolant system adapter M 50 x 3.0

- Ideal for testing the coolant system
- With quick coupling
- Internal thread
- Light blue
- Made from shock-resistant plastic

Application range: BMW (5 series E60, F11, 6 series E63, E64, 7 series E65), etc.



150.1952	Coolant system adapter M 50 x 3.0	84
----------	-----------------------------------	----

Coolant system adapter M 46 x 3.0

- Ideal for testing the coolant system
- With quick coupling
- Internal thread
- White
- Made from shock-resistant plastic

Application range: Saab (Eco Power 9-3, 9-5)



150.1955	Coolant system adapter M 46 x 3.0	64
----------	-----------------------------------	----

Coolant system adapter M 50 x 2.5

- Ideal for testing the coolant system
- With quick coupling
- Internal thread
- Orange
- Made from shock-resistant plastic

Application range: Ford (Fiesta >1995, Focus >1998, Fusion >2006), Opel (Astra F and G, Corsa B, Tigra, Vectra), Porsche (911 >1999, Boxter >1997), Mercedes (ML-class, W163, W164), GM, Saab (900 1994-1998), Land Rover (Discovery 1989-2004), Range Rover 1988-1994, etc.



150.1941	Coolant system adapter M 50 x 2.5	62
----------	-----------------------------------	----

Coolant system adapter M 52 x 3.0

- Ideal for testing the coolant system
- With quick coupling
- Internal thread
- Yellow
- Made from shock-resistant plastic

Application range: Ford (Mondeo, C-Max >2003), etc.



150.1949	Coolant system adapter M 52 x 3.0	91
----------	-----------------------------------	----

Coolant system adapter M 52.5 x 3.0

- Ideal for testing the coolant system
- With quick coupling
- Internal thread
- Orange
- Made from shock-resistant plastic

Application range: Cadillac, Chevrolet, Fiat (Chroma), Ford, Isuzu, Mazda (6), Opel, Astra, Meriva, Zafira, Signum), Saab, Suzuki, etc.



150.1956	Coolant system adapter M 52.5 x 3.0	64
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Coolant system adapter M 58 x 3.0

- Ideal for testing the coolant system
- With quick coupling
- External thread
- Black
- Made from shock-resistant plastic

Application range: Volkswagen (Beetle, Golf, Sharan, Passat, T4, T5, Vento), etc.



150.1943	Coolant system adapter M 58 x 3.0	69
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Coolant system adapter M 60 x 4.0

- Ideal for testing the coolant system
- With quick coupling
- Internal thread
- Blue
- Made from shock-resistant plastic

Application range: Mercedes (C class, E class, S class), etc.



150.1948	Coolant system adapter M 60 x 4.0	90
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Coolant system adapter M 62 x 3.0

- Ideal for testing the coolant system
- With quick coupling
- External thread
- Black
- Made from shock-resistant plastic

Application range: Audi (A4, A5, A6), BMW, Volkswagen (Passat 1.9TDI, Golf 4 1.4FSI, Touran 1.4TSI), Škoda (Fabia 1.4), Porsche (Cayenne), etc.



150.1944	Coolant system adapter M 62 x 3.0	72
----------	-----------------------------------	----

COOLING SYSTEM DIAGNOSIS SYSTEM SET

Universal cooling system diagnostic service set

- Innovative and universal diagnosis device for testing the pressure in the cooling system as well as the pressure caps
- Suitable for almost all common vehicles with water-cooled engines thanks to the inflatable universal bladder sealing system
- Test cap with 6 special double-sided adapters
- Quickly find leaks in the cooling system, e.g. cylinder head seals, cooling unit, water pumps, hoses, etc.
- The pressure loss inspection is carried out via the manometer
- Quick and efficient use
- Measurement range from 0 bar to 2.5
- In durable plastic storage case

Application range: for almost 95% of all vehicle manufacturers



150.2065	12 pcs Universal cooling system diagnostic service set	2.30
----------	--	------

consists of:

150.2065-1	Adapter A, blue	66
150.2065-2	Adapter B, yellow	44
150.2065-3	Adapter C, green	58
150.2065-4	Adapter D, red	55
150.2065-5	Adapter E, orange	71
150.2065-6	Adapter F, grey	81
150.2066	Adapter, blue, small	30
150.2067	Adapter, red, small	25
150.2068	Adapter, black, small	40
150.2044	Pressure pump	2000
150.2065-01	Universal connection adapter	129
150.2065-07	Control valve	50

MASTER Cooling system diagnostic service set

- Ideal compilation set for testing the cooling system as well as the pressure caps
- With cooling system fill g valve
- Quickly find leaks in the cooling system, e.g. cylinder head seals, cooling unit, water pumps, hoses, etc.
- Suitable for all common vehicles with water-cooled engines, e.g. from Europe, Japan, USA, etc.
- The pressure loss inspection is carried out via the manometer
- Quick and efficient use
- Measurement range from 0 bar to 2.5
- Includes thermometer
- In durable plastic storage case

Application range: for almost all vehicle manufacturers



150.1930	25 pcs MASTER Cooling system diagnostic service set	5.41
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consists of:

		colour code	
150.1931	Hand pump with manometer		443
150.1960	Cooling system vacuum fill g valve		577
150.1961	Coolant system fill g hose		208
150.1932	Cooling system test socket R123/R124	●	42
150.1933	Cooling system test socket R123/R125	●	42
150.1916	Cooling system bayonet adapter, small		60
150.1917	Cooling system bayonet adapter, medium		80
150.1918	Cooling system bayonet adapter, large		110
150.1941	Coolant system adapter M 50 x 2.5	●	62
150.1942	Coolant system adapter M 42 x 3.0	●	66
150.1943	Coolant system adapter M 58 x 3.0	●	69
150.1944	Coolant system adapter M 62 x 3.0	●	72
150.1945	Coolant system adapter M 48 x 4.0	●	80
150.1946	Coolant system adapter M 45 x 3.0	●	56
150.1947	Coolant system adapter M 50 x 2.5	●	86
150.1948	Coolant system adapter M 60 x 4.0	●	90
150.1949	Coolant system adapter M 52 x 3.0	●	91
150.1950	Coolant system adapter M 48 x 2.5	●	75
150.1951	Coolant system adapter M 42 x 2.5	●	73
150.1952	Coolant system adapter M 50 x 3.0	●	84
150.1953	Coolant system adapter M 46 x 3.0	●	64
150.1954	Coolant system adapter M 34 x 3.0	●	51
150.1962	Rubber cone adaptor, 14-45 mm, L=75 mm		88
150.1963	Rod thermometer		27
150.1940	Wrench for adapter		50

CYLINDER HEAD LEAK TESTER

CO2 Cylinder head leak testing set

- For the locating of leaks on combustion engines
- Rational and dependable finding of cracks and leakages
- Potential CO2 content in the coolant solution is detected
- Ideally suited for the cylinder head, cylinder head seals and engine block
- Leakages are visible through discoloration of the test fluid
- For all current vehicles with water cooled engines (Gas, Diesel and Petrol)
- Automatic regenerating reaction fluid or multiple use
- In durable plastic storage case



				1
150.1910	8 pcs	CO2 Cylinder head leak testing set	1.43	

consists of:

		1
150.1911	Intake-squeeze bulb	30
150.1912	Two way brass valve	120
150.1913	Basic device with 2 Test chambers and cones	120
150.1914	Reaction fluid, 250 m	250
150.1915	Empty container, 250 ml (for required fluid)	30
150.1916	Bayonet Adaptor Gr 1	60
150.1917	Bayonet Adaptor Gr 2	80
150.1918	Bayonet Adaptor Gr 3	110

THERMAL SWITCH SOCKET

Thermal switch sensor socket

- Ideally suited to the assembly and disassembly of hard-to-reach thermal switches
- Also for thermal switches with long contact pins or plastic casings, as well as switches with cables
- Slotted design
- Internal square to DIN 3120/ISO 1174 with ball reception
- For manual operation
- Phosphate
- Chrome molybdenum

Application range: Opel Corsa B, Volkswagen models >2006, etc.



	mm	L mm	1
150.2123	29	90.0	500

Special socket wrench

- Open 6-point profil
- Suitable for assembling upper and side cables temperature sensors, thermal switches and other parts
- Also suitable for screwing in angled pipes
- Matt chrome
- Chrome vanadium



	mm	1
150.3810	10,0	19
150.3811	11,0	41
150.3812	12,0	49
150.3814	14,0	69
150.3817	17,0	108
150.3819	19,0	135

Special socket wrench set

- Open 6-point profil
- Suitable for assembling upper and side cables temperature sensors, thermal switches and other parts
- Also suitable for screwing in angled pipes
- Matt chrome
- Chrome vanadium
- Clip mounting



				1
150.3805	6 pcs	Special socket wrench set	460	

consists of:

		1
150.3810	Special socket wrench, 10 mm	19
150.3811	Special socket wrench, 11 mm	41
150.3812	Special socket wrench, 12 mm	49
150.3814	Special socket wrench, 14 mm	69
150.3817	Special socket wrench, 17 mm	108
150.3819	Special socket wrench, 19 mm	135

LOCKING SCREW TURNER

Exhaust locking screw turner with t-bar

- For damage-free screwing and unscrewing of the air vent locking screws on the cooler
- Special cross profil
- Universal use also for low height
- With t-bar
- Chrome plated and mirror polished
- Chrome vanadium

Application range: BMW



	Back thickness mm	stem Ø mm	Back height mm	Length mm	1
550.1686	1.3	12,0	13,0	90,0	87

Exhaust locking screw turner with t-bar

- For damage-free screwing and unscrewing of the air vent locking screws on the cooler
- Special cross profil
- Universal use also for low height
- With t-bar
- Chrome plated and mirror polished
- Chrome vanadium

Application range: BMW



	Back thickness mm	stem Ø mm	Back height mm	Length mm	1
550.1687	1.8	12,0	13,0	90,0	87

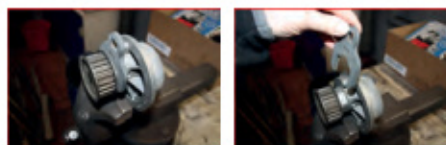


COUNTER HOLD TOOL

Counter hold wrench, 39.0 mm

- For turning the water pump
- To tighten / depressurize the drive belt
- Burnished
- Special steel

Application range: Opel/Vauxhall, GM OHC engines

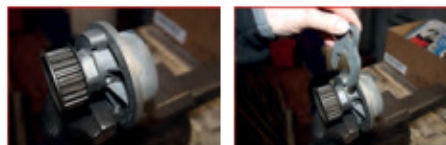


Part No.	mm	Length mm	Weight kg
516.1004	39	90.0	100

Counter hold wrench, 41.0 mm

- For turning the water pump
- To tighten / depressurize the drive belt
- Burnished
- Special steel

Application range: Opel/Vauxhall, GM OHC engines 1.2, 1.3, 1.4 and 1.6 l

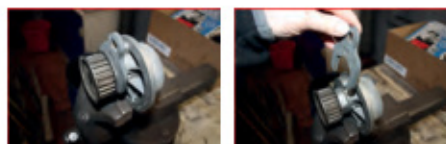


Part No.	mm	Length mm	Weight kg
516.1002	41	90.0	110

Counter hold wrench, 46.0 mm

- For turning the water pump
- To tighten / depressurize the drive belt
- Burnished
- Special steel

Application range: Suitable for Opel and GM OHC engines



Part No.	mm	Length mm	Weight kg
516.1001	46	90.0	120

Universal Visco ventilator wrench

- For removing the hubs and bleeding with viscous couplings
- Especially slim design
- Enables easy access
- PVC dipped handle
- Special steel

Application range: BMW, Ford, Opel, GM etc.

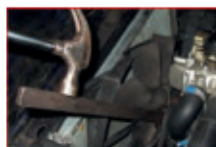


Part No.	mm	Suitable for	Weight kg
150.3022	32	for clamping the viscous coupling drive shaft on BMW, Ford	300
150.3027	36	For counter holding the Visco coupling drive shaft BMW, Ford, GM	340
150.3023	41	for twisting the water pump on Opel and GM	422
150.3024	46	for twisting the water pump on Opel and GM	405

Visco ventilator wrench

- Ideally suited to removing the hubs on ventilators with viscous coupling
- Especially slim design
- Allows for easy access
- With suspension hole
- Special steel

Application range: Mercedes engines M103 (6 cylinder), M104 (6 cylinder 4 valve), M119 (8 cylinder 4 valve), M120 (12 cylinder 4 valve)



Part No.	mm	Length mm	Weight kg
150.3301	65	400.0	472

Visco ventilator wrench

- Ideally suited to removing the hubs on ventilators with viscous coupling
- Especially slim design
- Allows for easy access
- Specially curved
- With suspension hole
- Special steel

Application range: Mercedes (engine: M 111.979, 112, 113, 119.985)



Part No.	Visco ventilator wrench	L mm	Weight kg
150.3008	Visco ventilator wrench	410.0	370

Holding wrench for Visco ventilator

- For counter holding the ventilation valve when disassembling the Visco ventilator
- Especially slim design
- Allows for easy access
- Special steel

Application range: BMW engine M10, M20, M21, M30, M50, M51, M52, M52TU, M54, M56, M70, M73, S14 and S38



Part No.	Length mm	Weight kg
150.3306	380.0	330

Ford fan hub wrench

- For the professional engine repair
- Simple assembly and disassembly of the Visco coupling rotor
- Makes it possible to secure the pulley wheel of the water pump and at the same time release the heating filer
- Special steel
- Very high degree of accuracy

Application range: Ford Transit (2001 - 2006)



Part No.	Pin hole mm	Weight kg
400.9014	69.0	133

Land Rover fan hub wrench set

- For counter holding the Visco coupling drive shaft
- Makes it possible to secure the pulley wheel of the water pump and at the same time release the heating filer
- Also suitable for the removal of the viscous connecting socket on the cooler ventilator
- Special steel

Application range: Land Rover Discovery II, Range Rover, Defender 1990-2006 with Td5 or V8 engines



Part No.	Weight kg
400.4175 2 pcs Landrover	18.29

consists of:

Part No.	Weight kg
400.0176 Holding wrench for Visco fan for Land Rover	1.05
400.0177 Visco fan wrench 36.0 mm for Land Rover	14.78

Mercedes belt disc wrench 8.0 mm

- Suitable for the installation and removal of the fan coupling and the belt disc
- Required when changing the water pump
- For hard-to-reach places
- With plastic-coated handle
- Chrome vanadium

Application range: Mercedes engines M102, M103, OM601, OM602, OM603, OM605, OM606



150.1303	2 pcs	Mercedes belt disc wrench 8.0 mm	460
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consists of:

150.1227	Special wrench with 8.0 mm hexagonal drive, 450 mm	440
150.1307	Bit with 8.0 mm hexagonal drive for internal hexagonal screws 8.0 mm	20

Mercedes compressor belt disc wrench 10.0 mm

- Suitable for releasing the screws on the compressor belt disc
- Required when changing the water pump
- For hard-to-reach places
- With plastic-coated handle
- Chrome vanadium

Application range: Mercedes engines M102, M103, OM601, OM602, OM603, OM605, OM606



150.1304	2 pcs	Mercedes compressor belt disc wrench 10.0 mm	460
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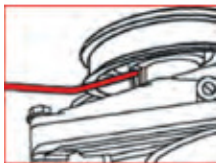
consists of:

150.1227	Special wrench with 8.0 mm hexagonal drive, 450 mm	440
150.1308	Bit with 8.0 mm hexagonal drive for internal hexagonal screws 10.0 mm	20

Ventilator coupling counter hold for Mercedes

- Ideally suited to securing the ventilator coupling
- Especially slim design
- Allows for easy access
- Especially curved for use
- Special steel

Application range: Mercedes (engine: M 103, 104)



150.3009	Ventilator coupling counter hold for Mercedes	L mm	105
		300.0	

Ventilator hub wrench set

- For counter holding the Visco coupling drive shaft
- Makes it possible to secure the water pump's belt pulley and release the heating ventilator at the same time
- Also suitable for the removal of the viscous connecting socket on the cooler ventilator
- Special steel
- In durable plastic storage case

Application range: BMW, Mercedes and Ford



150.3320	12 pcs	Ventilator hub wrench set	1.89
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consists of:

150.3008	Visco ventilator wrench	370
150.3009	Ventilator coupling counter hold for Mercedes Benz	105
150.3022	Viscous fan spanner, BMW, Ford, 32mm	300
150.3024	Viscous fan spanner, Opel, GM, 46mm	405
150.3027	Viscous fan spanner, BMW, Ford, GM, 36mm	340
150.3301	Visco ventilator wrench	472
150.3306	Holding wrench for Visco ventilator	330
150.3321	Adapter, short, Ø 20 mm	5
150.3322	Adapter, Ø 8 mm	22
150.3323	Adapter, Ø 10 mm	29
150.3324	1/2" Holding wrench	635
151.26025	BASIC key wrench, hex, short, 2,5mm	10

Pin-type face wrench set, seamlessly adjustable with interchangeable pins

- Universal application for common two-hole nuts
- With interchangeable pins
- Each double pin wrench is replacing 4 single key sizes
- Adjustable in diameter
- Phosphate finish
- Special steel
- In durable plastic storage case



150.3205	19 pcs	Pin-type face wrench set, seamlessly adjustable with interchangeable pins	1.56
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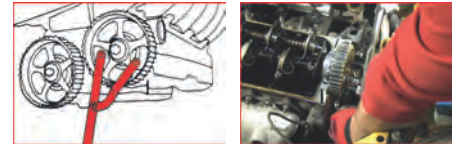
consists of:

150.3206	Pin-type face wrench, adjustable, length 263 mm	485
150.3207	Pin-type face wrench, adjustable, length 215 mm	293
150.3208	Pin-type face wrench, adjustable, length 161 mm	155
150.3209	Pin-type face wrench, adjustable, length 115 mm	57
150.3210	Pin pair, Ø 2.37 mm	2
150.3211	Pin pair, Ø 2.90 mm	2
150.3212	Pin pair, Ø 4.87 mm	5
150.3213	Pin pair, Ø 5.91 mm	7
150.3214	Pin pair, Ø 6.87 mm	13
150.3215	Pin pair, Ø 7.92 mm	15
150.3216	Pin pair, Ø 9.87 mm	28
150.3217	Pin pair, Ø 11.90 mm	37

Universal timing gear holder set

- Ideally suited for almost all vehicle types
- Universal usable tool for locking, turning and fastening for stepped timing belts
- The overall length of 520 mm guarantees an optimal lever for loosening the timing belts reinforcement screws
- Stepless adjustment of Ø 40 - 220 mm - pin height: 35 mm
- Includes 4 pairs of screw on plugs
- With plastic coated handle
- Special steel

Application range: Timing belt wheels on camshafts and Injection pumps bleeding of wheels and couplings etc.



150.3000	11 pcs	Universal timing gear holder set	2.20
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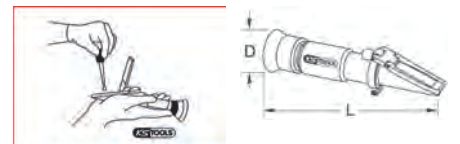
consists of:

150.3001	Loosening lever 520 mm, adjustable	1120
150.3002	Peg, Ø 6 - 10 mm	100
150.3003	Peg, Ø 8 - 11 mm	50
150.3004	Peg, Ø 10 - 12 mm	40
150.3005	Peg, Ø 11 - 16 mm	40
150.3006	Fixing nut for pegs, knurled	20

FROST PROTECTION AND COOLANT WATER TESTER

Refractometer - optical tester for battery fluid and antifreeze

- For the quick and accurate testing of acidity in the battery fluid and the antifreeze content
- Can also be used for coolant and windscreen wiper fluid
- Adjustable eye piece with rubber viewing rest
- With automatic temperature compensation (ATC)
- Also suitable in ambient temperatures of less than 10°C
- Reading correction function by means of bimetallic measurement
- High quality design made from aluminium
- Good readability due to defined dividing lines
- Recalibration possible
- Includes calibration screwdriver and pipette
- In practical plastic case



Technical data:

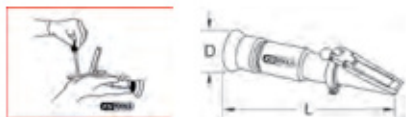
Battery acid:	acid density (measuring range 1.1 to 1.4 kg/l)
Coolant water Propylene:	temperature resistance (measuring range 0° to -50°C)
Coolant water Ethylene:	temperature resistance (measuring range 0° to -50°C)
Windscreen water:	antifreeze (measuring range 0° to -40° C)

550.1290	D mm	L mm	Glass face mm	Weight g
	40.0	149.0	40 x 13	630

Refractometer - optical tester for battery fluid , antifreeze and AdBlue® addit ives

- For the quick and accurate testing of the acidity of the battery fluid , the antifreeze content and the AdBlue® addit ives
- Can also be used for coolant and windscreen wiper fluid
- Adjustable eye piece with rubber viewing rest
- With automatic temperature compensation (ATC)
- Also suitable in ambient temperatures of less than 10 °C
- Reading correction function by means of bimetallic measurement
- High quality design made from aluminium
- Good readability due to defined d iving lines
- Recalibration possible
- Includes calibration screwdriver and pipette
- In practical plastic case

*AdBlue® is a registered trademark of the Verband der Automobilindustrie e.V (VDA).



Technical data:

Battery acid:	acid density (measuring range 1.1 to 1.3 kg/l)
Coolant water Propylene:	temperature resistance (measuring range -25° to 50° C)
Coolant water Ethylene:	temperature resistance (measuring range -25° to 50° C)
Windscreen water:	antifreeze (measuring range -10° to -40° C)
for AdBlue® addit ives (VRA):	urea content (measuring range 30% - 35%)

	D mm	L mm	Glass base mm	Weight
550.1285	40.0	160.0	40 x 13	480

Antifreeze tester

- For quick and precise testing of antifreeze
- For ethylene glycol/water mixture in the cooling circuit for passenger cars, commercial vehicles, etc.
- Also allows for a visual inspection for rust and other impurities
- Also suitable in ambient temperatures of less than 10 °C
- Easy to read with the pendulum display (up to -50 °C/-60 °F)
- High-quality design
- Plastic housing
- Easy to read



	Weight
550.1241	120

TEMPERATURE MEASURING DEVICE

Rod thermometer

- Controls temperature of air streams through air channels
- Controls the water temperature
- With long and narrow measuring instruments
- Scale with °C and °F measurements



	L mm	Working range	Measuring range	Weight
150.1963	210.0	0 - 200	0 - 400	27

Digital rod thermometer

- Controls temperature of air streams through air channels
- Controls the water temperature
- With long, narrow measuring instruments
- Good readability
- Includes 9V block battery
- Includes hold function
- Includes LCD display



	Length mm	Working range °C	Weight
150.1968	125.5	-50 - 150	145

Infrared thermometer

- Laser pistol for non contact temperature measurement
- Ideally suited for the automotive sector, industrial, and construction usage Chemical and foodstuffs industry
- Laser measuring beam with a red measuring point
- Illuminating Display
- LCD Digital display
- Automatic swithing off
- Includes 9V block battery
- Stable plastic housing

Application range: In turning motors, difficult to access places, fluid , under current line directions, in heating appliances, gas and, air-conditioning, coolant systems, brake discs aggressive chemicals and groceries



Technical data:

Switchable:	°C / °F
Working range:	-50° - 500 °C
Switching mode for spectral range:	0,85 - 0,90 - 0,95 µm
Power output max:	1mW
Power requirement:	9V block battery

	Weight
150.3040	250



HOSE CLAMP TOOL

ERGOTORQUE® sock et screwdriver

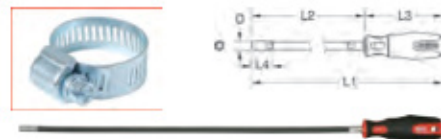
- 6 point
- Flexible
- Limited torque
- Double spiral shaft
- Plastic protective coating
- With hanging hole
- Chrome vanadium



	mm	D mm	L1 mm	L2 mm	L3 mm	L4 mm	Weight
911.1126	6	10.8	259.0	150.0	109.0	9.3	155
911.1127	7	11.7	259.0	150.0	109.0	10.0	155
911.1128	8	11.9	259.0	150.0	109.0	10.0	155
911.1125	10	12.5	279.0	170.0	109.0	14.3	170

ERGOTORQUEplus® sock et screwdriver, extra long

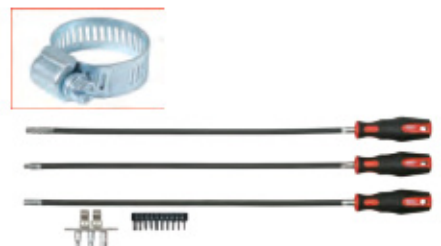
- 6 point
- Flexible
- Limited torque
- Double spiral shaft
- Plastic protective coating
- Two component handle
- With hanging hole
- Chrome vanadium



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

ERGOTORQUE® screwdriver set

- Flexible blade with double spiral shaft
- Limited torque
- Plastic protective coating
- Two component handle
- With hanging hole
- Contains also the most current 1/4" bits and sockets
- In display box



	Weight
911.1180	1.30

Quantity	Item	Weight
1 x	1/4"	
1 x	1/4"	
1 x	7 mm	
3 x	5 - 6 - 8 mm	
2 x	5.5 - 6.5 mm	
2 x	PH1 - PH2	
6 x	T10 - T15 - T20 - T25 - T27 - T30	

Hose clamp tension device

- For assembly and disassembly of hose clamps
- Easy to use
- Less space required
- Wear-resistant spindle drive
- Hand-wheel operation
- 6-point and 1/4" drive
- Chrome molybdenum



	Ø mm	Ø mm	Spindle width mm	Weight
115.0910	6-40	0-37	80	130
115.0911	6-65	0-62	105	160

Hose clamp gripping pliers

- Forged gripping jaws
- Serrated execution
- Size adjustment using the adjustment wheel
- Quick release lever
- Easy locking action
- For round and flat material
- Nickel plated
- Chrome vanadium



	Clamping range mm	L mm	Weight
115.1126	18-36	175.0	231
115.1127	18-54	230.0	420

Hose clamp gripping pliers set

- Forged gripping jaws
- Serrated execution
- Size adjustment using the adjustment wheel
- Quick release lever
- Easy locking action
- For round and flat material
- Nickel plated
- Chrome vanadium



	Clamping range mm	Weight
115.1125	2 pcs 175 - 230 mm	653

Hose clamp pliers

- Suitable for assembly and disassembly of spring clamps
- Optimal mounting due to special construction of jaws
- Includes locking mechanism and ratchet function
- PVC dipped handle
- Simple handling
- Special steel



	A mm	L mm	Weight
115.1181	0-55	260.0	380

Hose clamp pliers, angled

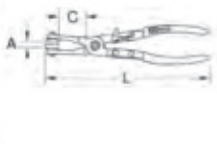
- Suitable for assembly and disassembly of spring clamps
- 90° angled
- Optimal mounting due to special construction of jaws
- With offset side attachment nuts
- Includes locking mechanism and ratchet function
- PVC dipped handle
- Simple handling
- Special steel



	A mm	L mm	Weight
115.1182	0-22	220.0	380

Hose clamp pliers, angled

- 45° angled head
- With variable jaws
- For difficult to reach clamps
- Includes locking mechanism
- With PVC dipped handle
- Chrome molybdenum



	A mm	C mm	L mm	Weight
115.1042	0-65	55.0	220.0	210

Hose clamp pliers, angled

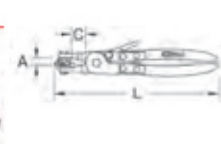
- 90° angled head
- With moveable jaws
- For difficult to reach spring clamps
- Includes locking mechanism
- With PVC dipped handle
- Chrome molybdenum



	Ø mm	A mm	L mm	Weight
115.1198	18-53	5-43	210.0	400

Universal hose clamp pliers

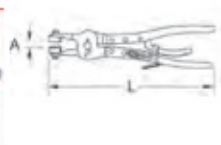
- Universal crown profile
- For difficult to reach clamps
- With PVC dipped handle
- Includes locking mechanism
- Versatile usage
- Chrome molybdenum



	A mm	C mm	L mm	Weight
115.1043	0-48.5	40.0	220.0	240

Hose clamp pliers

- Suitable for correct assembly and disassembly of spring clamps
- Turnable jaws
- Includes ratchet function
- Effortless opening and closing
- PVC dipped handle
- Special steel



	A mm	L mm	Weight
115.1167	15-56	275.0	400

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26

Hose clamp pliers

- PVC dipped handle
- For spring pipe clamps
- Includes locking mechanism and ratchet function
- Chrome molybdenum



	A mm	C mm	L mm	Weight
115.1046	0-45	37.0	220.0	230

Hose clamp pliers, angled

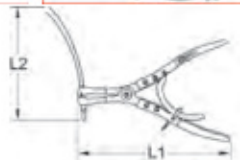
- Suitable for correct assembly and disassembly of spring clamps
- 110° angled
- Turnable jaws
- With locking device
- PVC dipped handle
- Special steel



	A mm	L mm	Weight
115.1173	6-58	250.0	400

Hose clamp pliers with double bowden cable

- PVC dipped handle
- For spring pipe clamps
- 600 mm bowden cable
- Adjustable length bowden cable
- Includes locking mechanism
- For difficult to reach clamps
- Special tool steel



	Ø mm	L1 mm	L2 mm	Weight
115.1065	0 - 70	270.0	600.0	115.1065-1 540

Hose clamp pliers, VAG

- Suitable for assembly or disassembly of spring clamps with reducing ends
- With PVC dipped handle
- With 600 mm Bowden cable
- Includes ratchet function, locking mechanism and loosening lever
- Internal spring
- For difficult to reach spring clamps
- Chrome molybdenum

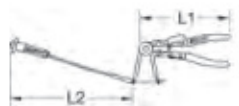
Application range: VAG 2.0 TDI engines (BKD), especially suitable for hard to reach lower coolant hose



	Ø mm	L1 mm	L2 mm	Weight
115.1169	0 - 60	260.0	600.0	500

Hose clamp pliers with bowden cable

- With PVC dipped handle
- For spring pipe clamps
- With 650 mm Bowden cable
- Includes ratchet function, locking mechanism and loosening lever
- Internal spring
- For difficult to reach spring clamps
- Chrome molybdenum

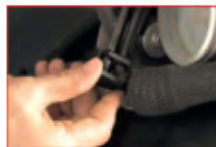


	Ø mm	L1 mm	L2 mm	Weight
115.1168	0 - 70	260.0	650.0	500

Hose clamp pliers with bowden cable

- Ideally suited for opening and closing hose clamps
- Suitable for hard to reach self-tensioning spring clamps
- With 590 mm strengthened Bowden cable
- Includes locking mechanism
- Internal spring
- The torsion of the pliers is reduced with strong clamps
- With quick change system for Bowden cable replacement
- 2 component handle
- Strengthened steel

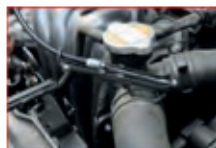
Application range: MUBEA and NORMA



	Ø mm	L1 mm	L2 mm	Weight
115.0901	15 - 54	260.0	730.0	115.0902 500

Hose clamp pliers with bowden cable

- For self-tensioning hose clamps
- With locking mechanism
- In particular for fuel lines, cooling and washing water hoses
- With 650 mm Bowden cable
- With fit attachment for spring clamps with fit adjoining ends
- Opening and closing the clamps without damage to the hose also in hard to reach places
- Self-opening
- With PVC dipped handle
- Special steel

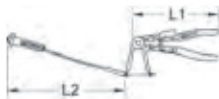


	Ø mm	L1 mm	L2 mm	Weight
115.1041	0 - 60	200.0	650.0	115.1041-1 470

Spring band clamp pliers with gooseneck

- For actuation of self tensioning spring band clamps
- For cooling and heating systems
- Semi rigid, plastic coated gooseneck
- Convenient one handed operation in deep regions
- Fixing of the clamp by micro teeth
- Ideal for confined space
- Working head with raised grippers and wide opening
- Working head with slide guide and retraction spring
- With two component handle
- Chrome molybdenum

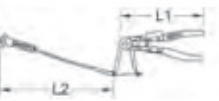
Application area: NORMA FBS, MUB FBS-STD, FBS-RSV, etc.



	Ø mm	L1 mm	L2 mm		Weight
115.1190	18-54	220.0	660.0	115.1190-1	620

Hose clamp pliers

- For the correct assembly and disassembly of spring clamps
- With 600 mm Bowden cable for hard to reach areas
- Step-less locking mechanism
- With quick-release lever
- Simple handling
- Special tool steel



	Ø mm	L1 mm	L2 mm	Weight
115.1189	0-50	210.0	600.0	330

Hose clamp pliers with swivel prism reception

- Suitable for the correct assembly and disassembly of Click, Click-R and Cobra clamps
- Also suitable for self-tensioning hose clamps with flat 3 pin h ends
- In particular for fuel lines, cooling and washing water hoses
- With swivel prism attachment
- Self-opening
- Surface nickel-plated
- Special steel

Application range: Volkswagen, Audi, Mercedes, Toyota etc.



	Clamping range mm	L mm	Weight
115.1188	8-18	210.0	200

Click hose clamp pliers, angled

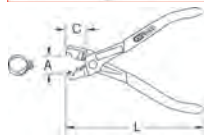
- Suitable for the correct assembly and disassembly of Click, Click-R and Cobra clamps
- Also suitable for self-tensioning hose clamps with flat 3 pin h ends
- 90° angled head
- Effortless opening and closing
- Forged bite jaws
- With PVC dipped handle
- Special steel



	A mm	L mm	Weight
115.1179	0-18	180.0	160

Click hose clamp pliers, forged

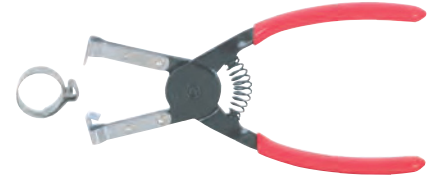
- Suitable for the correct assembly and disassembly of Click, Click-R and Cobra clamps
- Also suitable for self-tensioning hose clamps with flat 3 pin h ends
- Re-usable V2A-clamps
- With PVC dipped handle
- With self-opening mechanism
- Chrome molybdenum



	A mm	C mm	L mm	Weight
115.1045	0-38	25.0	180.0	215

Click hose clamp pliers

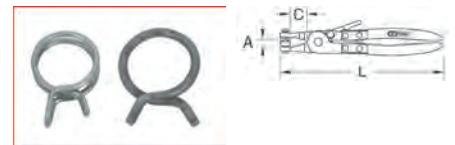
- Suitable for the correct assembly and disassembly of Click, Click-R and Cobra clamps
- Also suitable for self-tensioning hose clamps with flat 3 pin h ends
- With PVC dipped handle
- Self-opening
- Chrome molybdenum



	A mm	C mm	L mm	Weight
115.1040	0-25	40.0	160.0	120

Hose clamp pliers

- PVC dipped handle
- For spring pipe clamps
- Includes locking mechanism and ratchet function
- Chrome molybdenum



	A mm	C mm	L mm	Weight
115.1047	0-45	37.0	220.0	230

Automotive hose clamp pliers set

- Handle dip insulated
- Ideal for clamps low down in the engine
- Includes locking mechanism
- For self tensioning spring pipe clamps with 3 point mounting
- Self opening
- For opening and closing re/usable clic hose clamps, type Clic + Clic-R
- For difficult o reach clamps
- Special tool steel

Application area: For connecting and removing fuel, immersed ventilation, coolant, washer water and vacuum hoses, etc.

Application range: Volkswagen, Audi, Mercedes Benz, Toyota etc.



	Weight
115.1104 4 pcs Automotive hose clamp pliers set	1.12

consists of:

115.1045	Hose clamp pliers (click type), 180mm	215	
115.1042	Hose clamp pliers (recessed/slot), 220mm	210	
115.1187	Hose clamp pliers with prism, 8-18mm	189	
115.1065	Hose clamp pliers (dbl bowden cable), 600mm	540	

Automotive hose clamp pliers set

- PVC dipped handle
- For opening and closing of cobra hose clamps
- Swivel pressed jaws
- Includes locking mechanism and ratchet function
- Self opening mechanism
- For the dismantling and assembly of hose clamps
- Includes bowden cable
- Chrome molybdenum



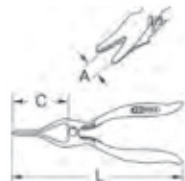
115.1055	7 pcs Automotive hose clamp pliers set	4.00	

consists of:

115.1041	Hose clamp pliers (bowden cable), 650mm	470	
115.1042	Hose clamp pliers (recessed/slot), 220mm	210	
115.1043	Hose clamp pliers (crown profile), 220mm	240	
115.1044	Hose pliers, 195mm	190	
115.1045	Hose clamp pliers (click type), 180mm	215	
115.1046	Hose clamp pliers (recessed/slot), 220mm	230	
115.1047	Hose clamp pliers (dbl cross slot), 220mm	230	

Fuel pipe pliers for compression coupling

- For correct opening of fuel pipe coupling
- Extra-fl t jaws ends
- No damage to the compression coupling, fuel pipes and fuel hoses
- Quick and easy separation of the fuel pipes and fuel hoses
- Self-closing
- With PVC dipped handle
- Special steel



	A mm	L mm	C mm	
115.1044	0-30	195.0	70.0	190

Hose release pliers

- Suitable for releasing secured cooling hoses
- Securing screw for adjusting jaws
- Gentle on materials
- Lower power usage
- Simple operation
- Plastic handle
- Special steel



	Length mm	Ø mm	
115.1199	180.0	15-54	180

HOSE CLAMP TOOLS

Hose clamp set

- For easy clamping of flexible hose parts from 10.0 mm (3/8") to 45.0 mm (1.3/4")
- Continuous flow rate regulation, sensitive flow rate regulation or complete flow rate stop
- The hose is crimped over a wide area against the sturdy steel cross, damage to the hose is therefore prevented
- With revolving clamp wing from metal
- Ideal for maintenance work with petrol, oil, water and radiator antifreeze
- Protects from drips from petrol, oil, water and radiator antifreeze
- Ideally suitably for passenger cars, transporters, MPVs, commercial vehicles, tractors, agricultural and construction machinery and industrial uses
- Temperature resistant up to 160 °
- Special steel



122.1200	4 pcs Hose clamp set	420

consists of:

122.1201	Hose clamp max. Ø 10 mm (3/8")	41
122.1202	Hose clamp max. Ø 15 mm (1/2")	46
122.1203	Hose clamp max. Ø 25 mm (1")	96
122.1204	Hose clamp max. Ø 45 mm (1.3/4")	237

Hose clamp pliers set

- For simple clamping of flexible hoses from 15.9 mm (5/8") up to 60.0 mm (2.3/8")
- For stopping the flow
- The hose is a broad area squeezed against the stable support surface, damaging the hose is avoided
- Variable adjustment with locking function
- Ideal for maintenance work with gasoline, oil, water and antifreeze
- Protects against leakage of fuel, oil, water and antifreeze
- Ideal for use in passenger cars, vans and large vans, commercial vehicles, tractors, agricultural machinery, construction machinery and industrial applications
- Heat resistant up to 160 ° C
- Plastic



115.5050	3 pcs Hose clamp pliers set	370	

consists of:

115.5052	Clamping pliers 150 mm for hoses up to Ø 15 mm	80
115.5053	Clamping pliers 180 mm for hoses up to Ø 30 mm	130
115.5054	Clamping pliers 250 mm for hoses up to Ø 60 mm	160

Hose clamp pliers set 90° angled

- For simple clamping of flexible hoses from 15.9 mm (5/8") up to 60.0 mm (2.3/8")
- Angled design for use in confined spaces
- For stopping the flow
- The hose is a broad area squeezed against the stable support surface, damaging the hose is avoided
- Variable adjustment with locking function
- Ideal for maintenance work with gasoline, oil, water and antifreeze
- Protects against leakage of fuel, oil, water and antifreeze
- Ideal for use in passenger cars, vans and large vans, commercial vehicles, tractors, agricultural machinery, construction machinery and industrial applications
- Heat resistant up to 160 ° C
- Plastic



115.5055	3 pcs Hose clamp pliers set 90° angled	370	

consists of:

115.5057	Hose clamp gripper 90°, Ø 15mm	55	
115.5058	Hose clamp gripper 90°, Ø 23mm	95	
115.5059	Hose clamp gripper 90°, Ø 35mm	130	

ALLinONE Hose clamp pliers set

- Simple sealing of pipe lines, 4.75 mm (3/16") to 14.0 mm (9/16")
- Rotary magazine with 4 slots for the corresponding pipe size
- Ideal for maintenance work with gasoline, oil, water and antifreeze
- Protects against ingress of moisture and dirt
- Ideal for use in passenger cars, vans and large vans, commercial vehicles, tractors, agricultural machinery, construction machinery and industrial applications
- Special plastic



		Ø mm	A mm	L mm	kg
122.1295	2 pcs	4.75-14	38.0	120.0	1.49

consists of:

122.1296	ALLinONE Fluidstopper Ø 4,75 - 14 mm	60	
122.1297	Replaceable plastic plugs for 122.1296 pipe stopper pliers	50	

DRIP PANS

Oil drain pan 7.5 litres

- With three carry handles
- Safe and clean pouring with the self-contained overflow edge and spout
- Ideally suited to collecting different fluid
- Suitable for oil, chemicals, petrol, acid and anti-freeze fluid
- Also suitable for cleaning parts
- Practical, quick and friendly to the environment
- Shock-proof



	Ø mm	H mm	kg
150.9359	385,0	130,0	620

Oil drain pan 8 litres

- With three carry handles
- Safe and clean pouring with the spout
- Ideally suited to collecting different fluid
- Suitable for oil, chemicals, petrol, acid and anti-freeze fluid
- Also suitable for cleaning parts
- Practical, quick and friendly to the environment
- Screwed connection with rubber seal for safe transport
- Shock-proof



	B mm	H mm	L mm	kg
150.9357	340.0	120.0	600.0	1.06

Oil drain pan 17 litres

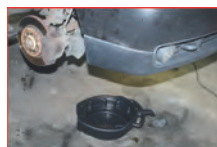
- With three carry handles
- Safe and clean pouring with the self-contained overflow edge and spout
- Ideally suited to collecting different fluid
- Suitable for oil, chemicals, petrol, acid and anti-freeze fluid
- Also suitable for cleaning parts
- Practical, quick and friendly to the environment
- Shock-proof



	Ø mm	H mm	kg
150.9360	445.0	145.0	1.16

Oil drain pan 17 litres

- With three carry handles
- Safe and clean pouring with the self-contained overflow edge and spout
- Ideally suited to collecting different fluid
- Suitable for oil, chemicals, petrol, acid and anti-freeze fluid
- Also suitable for cleaning parts
- Practical, quick and friendly to the environment
- Shock-proof



	Ø mm	H mm	kg
150.9361	445.0	145.0	1.16

Mobile oil drain pan, 30 litres, extra fl t with castors

- With three carry handles
- 12.0 cm high, extra fl t edges
- Safe and clean pouring with the closed contained and spout
- Ideally suited to collecting different fluid
- Suitable for oil, chemicals, petrol, acid and anti-freeze fluid
- Also suitable for cleaning parts
- With four steerable castors
- Practical, quick and friendly to the environment
- Includes removable sieve
- Screwed connection with rubber seal for safe transport
- Shock-proof



	B mm	H mm	L mm	kg
150.9354	600.0	120.0	850.0	5.60



Oil drain pan 55 litres, extra fl t

- With four carry handles
- 11.0 cm high, extra fl t edges
- Safe and clean pouring with the self-contained overflow edge and spout
- Ideally suited to collecting different fluid
- Suitable for oil, chemicals, petrol, acid and anti-freeze fluid
- Also suitable for cleaning parts
- Practical, quick and friendly to the environment
- Shock-proof
- Polyethylene



	L mm	B mm	H mm	kg
150.9358	1030.0	724.0	110.0	6.80

MEASURING BEAKER, JUG AND FUNNEL

Measuring cup set

- Configuration of practical measuring cup sizes
- Versatile application possibilities
- Transparent
- Break-proof
- Red primed scale division
- Resistant to oil, petrol and acid
- With handle and spout
- PE (polyethylene)

Scales: L/ml, cups, Oz, quart



Article No.	Quantity	Capacity	Weight (kg)
150.9205	3 pcs	250 - 500 - 1.000 ml	227

Oil can with flexible outlet spout

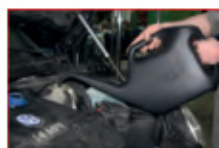
- For a wide range of uses
- Flexible, funnel-shaped spout allows for a clean drainage
- Suitable for oil, chemicals, petrol, acid, anti-freeze fluid and non-acidic fluid
- Break-resistant
- Steady
- Graduated scale
- With practical carry handle
- Special plastic



Article No.	Quantity	Spout	Weight (kg)
150.9234	1	150.9236	150
150.9235	2	150.9236	250

Water can

- For a wide range of uses
- Break-resistant
- With 2 carry handles
- Pouring spout enables clean emptying
- Suitable for water and coolant fluid
- Special plastic



Article No.	Quantity	Weight (kg)
150.9239	9	920

Funnel set

- Configuration of practical funnel sizes
- Versatile application possibilities
- Red
- Break-proof
- Resistant to oil, petrol and acid
- Grip strap for convenient use
- HDPE (high density polyethylene)



Article No.	Quantity	Dimensions	Weight (kg)
150.9240	5 pcs	Ø 50 - Ø 75 - Ø 95 - Ø 115 - Ø 150 mm	251

Universal funnel set

- Special flexible funnel for hard-to-reach places
- For a wide range of uses
- With bayonet connection and seal
- Direct connection to the oil fill opening
- No more lengthy and time-consuming pouring
- Includes clear hose with sealing plug on the end of the hose
- Bottle with handle for comfortable use
- Reduces loss and dirtying of oily engines
- Special plastic



Article No.	Quantity	Tube size	Spout	Ø mm	Tube length mm	Weight (kg)
150.9230	3 pcs	14x16	1	160	400	240



TRANSFER PUMPS

Mini transfer pump

- Ideal aid for transferring in emergencies
- Suitable for battery acid, fuels, oils and distilled water
- The hoses are attached to the balloon holder using supplied hose clamps
- Acid-resistant
- Special plastic



Article No.	Tube inner Ø mm	Tube length mm	Weight (kg)
150.1665	8.0	2 x 900	320

Transfer pump

- Ideal aid for easy transferring and pumping
- Suitable for battery acid, fuels, oils and distilled water
- Acid-resistant
- With high quality pump body and reinforced pump handle
- Special plastic



Article No.	Tube inner Ø mm	Tube length mm	Weight (kg)
150.1660	12.0	2 x 1.300	465

Syringe for fluid change 0.2 l

- Ideal tool for decanting, removing or dosing liquids to transmissions, power steering, hydraulics, engines, etc.
- Suitable for fuel oil, water and antifreeze
- Fine dosing
- Overflowing material can be pumped back problem-free
- Includes rubber hose
- Robust metallic design



	Tube inner Ø mm	Hose external Ø mm	Tube length mm	Housing length mm	Weight g	
150.1684	0.2	8	10	290	290	365

Syringe for fluid change 0.2 l

- Ideal tool for decanting, removing or dosing liquids to transmissions, engines (sic) power steering, hydraulics, engines, etc.
- Suitable for fuel oil, water and antifreeze
- Fine dosing
- Overflowing material can be pumped back problem-free
- Includes rubber hose with fill stop cap
- Robust PP design



	Tube inner Ø mm	Hose external Ø mm	Tube length mm	Housing length mm	Weight g	
150.9221	0.2	6	8	210	210	245

Syringe for fluid change 1.5 l

- Ideal tool for decanting, removing or dosing liquids to transmissions, engines (sic) power steering, hydraulics, engines, etc.
- Suitable for fuel oil, water and antifreeze
- Fine dosing
- Overflowing material can be pumped back problem-free
- Includes rubber hose with fill stop cap
- Robust PP design



	Tube inner Ø mm	Hose external Ø mm	Tube length mm	Housing length mm	Weight g	
150.9222	1.5	14	16	320	320	900

2 direction suction and filling hand pump

- Ideal for bleeding and filling of fluid
- With ball valve to select between suction and pressure
- Suck and press with every way
- Wear-resistant and temperature resistant
- For difficult to reach openings
- With 2 tubes
- Suction tube clear Ø I x E: 10x16 mm, length 600 mm
- Pressure tube fabric-reinforced Ø I x E: 16x21mm, length 600 mm
- For brake fluid, motor / transmission oil, petrol, diesel, fuel oils, spirit, petroleum, antifreeze etc.
- Robust aluminum piping

Application range: Vehicle/trucks workshops, land and construction machines, municipally and forestry technology, etc.



	Stroke mm	Content	L mm	Ø mm	Weight g
150.9255	208.0	256	808.0	40	662
150.9256	255.0	720	855.0	60	884

Dispense hand pump PVC, 1,000 ml with tube

- For the controlled bleeding and filling of fluid
- Exact dosage per scale
- High suction
- For difficult to reach openings
- For brake fluid, motor / transmission oil, petrol, diesel, fuel oils, spirit, petroleum, antifreeze etc.
- Fabric-reinforced PVC tube
- PVC cylinder

Application range: Vehicle/trucks workshops, land and construction machines, municipally and forestry technology, etc.



Technical data:
 Lift volume: 1,000 ml
 Stroke: 420.0 mm
 Scale division: 25 ml
 Connection thread: M15x1.5IG

	Ø mm	L mm	Weight g
150.9250	60	465.0	931

PVC Tube

- Fabric-reinforced
- For 150.9250



	L mm	Inner Ø mm	Outer Ø mm	Weight g
150.9253	600.0	10.0	16.0	110

PVC Tube with curved outlet pipe

- For difficult to reach openings
- With wing nut and sealing for locking
- With external thread M15 x 1.5
- Robust, curved aluminum piping
- Fabric-reinforced
- Ideal for use with KS dispense hand pump 150.9250

Application range: For brake fluid, motor / transmission oil, petrol, diesel, fuel oils, spirit, petroleum, antifreeze etc.



	L mm	Ø mm	Bend radius	Weight g
150.9252	750.0	10	120°	125

Metal pipe, flexible with outlet head

- For difficult to reach openings
- With wing nut and sealing for locking
- With external thread M15 x 1.5
- Durable, flexible steel pipe
- Ideal for use with KS dispense hand pump 150.9250

Application range: For brake fluid, motor / transmission oil, petrol, diesel, fuel oils, spirit, petroleum, antifreeze etc.



	L mm	Ø mm	Weight g
150.9251	250.0	10	82

ENGINE - HOSE CLAMP PLIERS



Innovation is
our mission!



	PAGE
SCREW HOSE CLAMPS	178
SPRING STRIP HOSE CLAMPS	178 - 181
CLICK AND COBRA HOSE CLAMPS	181 - 182
EARLESS HOSE CLAMPS	182
ONE EAR HOSE CLAMPS	182
TENSION BANDS	182 - 183
SPRING WIRE HOSE CLAMPS	183
FUEL PIPE CLAMP PLIERS	183
HOSE CLAMP PLIERS SETS	183 - 184
HOSE ASSEMBLY AND REMOVAL TOOLS	184

SCREW HOSE CLAMPS

ERGOTORQUE® sock et screwdriver

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



	Ø mm	D mm	L1 mm	L2 mm	L3 mm	L4 mm	Ø
911.1126	6	10.8	259.0	150.0	109.0	9.3	155
911.1127	7	11.7	259.0	150.0	109.0	10.0	155
911.1128	8	11.9	259.0	150.0	109.0	10.0	155
911.1125	10	12.5	279.0	170.0	109.0	14.3	170

ERGOTORQUEplus® sock et screwdriver, extra long

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



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

ERGOTORQUE® screwdriver set

- Flexible blade with double spiral shaft
- Limited torque
- Plastic protective coating
- Two component handle
- With hanging hole
- Contains also the most current 1/4" bits and sockets
- In display box



	Ø
911.1180	16 pcs ERGOTORQUE® screwdriver set 1.30
1 x	1/4"
1 x	1/4"

1 x		7 mm
3 x		5 - 6 - 8 mm
2 x		5.5 - 6.5 mm
2 x		PH1 - PH2
6 x		T10 - T15 - T20 - T25 - T27 - T30

SPRING STRIP HOSE CLAMPS

Hose clamp tension device

- For assembly and disassembly of hose clamps
- Easy to use
- Less space required
- Wear-resistant spindle drive
- Hand-wheel operation
- 6-point and 1/4" drive
- Chrome molybdenum



	Ø mm	Ø mm	Span with mm	Ø
115.0910	6-40	0-37	90	130
115.0911	6-65	0-62	105	160



Hose clamp gripping pliers

- Forged gripping jaws
- Serrated execution
- Size adjustment using the adjustment wheel
- Quick release lever
- Easy locking action
- For round and flat material
- Nickel plated
- Chrome vanadium



	Clamping range mm	L mm	Ø
115.1126	18-36	175.0	231
115.1127	18-54	230.0	420

Hose clamp gripping pliers set

- Forged gripping jaws
- Serrated execution
- Size adjustment using the adjustment wheel
- Quick release lever
- Easy locking action
- For round and flat material
- Nickel plated
- Chrome vanadium



	Ø
115.1125	2 pcs 175 - 230 mm 653

Hose clamp pliers with prism reception

- For self-tensioning hose clamps with flat pinch ends
- In particular for fuel lines, cooling and washing water hoses
- With prism attachment for spring clamps with flat adjoining ends
- Opening and closing the clamps without damage to the hose also in hard to reach places
- Self-opening
- Special steel

Application range: Audi, Mercedes, Toyota, Volkswagen etc.



	Clamping range mm	L mm	Ø
115.1187	8-18	195.0	189

Hose clamp pliers

- Suitable for assembly and disassembly of spring clamps
- Optimal mounting due to special construction of jaws
- Includes locking mechanism and ratchet function
- PVC dipped handle
- Simple handling
- Special steel



	A mm	L mm	Ø
115.1181	0-55	260.0	380

Hose clamp pliers, angled

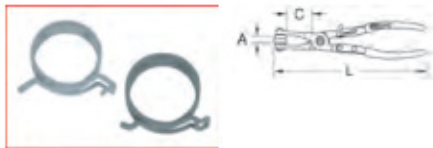
- Suitable for assembly and disassembly of spring clamps
- 90° angled
- Optimal mounting due to special construction of jaws
- With offset side attachment nuts
- Includes locking mechanism and ratchet function
- PVC dipped handle
- Simple handling
- Special steel



	A mm	L mm	W
115.1182	0-22	220.0	380

Hose clamp pliers, angled

- 45° angled head
- With variable jaws
- For difficult to reach clamps
- Includes locking mechanism
- With PVC dipped handle
- Chrome molybdenum



	A mm	C mm	L mm	W
115.1042	0-65	55.0	220.0	210

Hose clamp pliers, angled

- 90° angled head
- With moveable jaws
- For difficult to reach spring clamps
- Includes locking mechanism
- With PVC dipped handle
- Chrome molybdenum



	Ø mm	A mm	L mm	W
115.1198	18-53	5-43	210.0	400

Universal hose clamp pliers

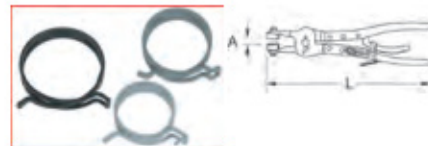
- Universal crown profile
- For difficult to reach clamps
- With PVC dipped handle
- Includes locking mechanism
- Versatile usage
- Chrome molybdenum



	A mm	C mm	L mm	W
115.1043	0-48.5	40.0	220.0	240

Hose clamp pliers

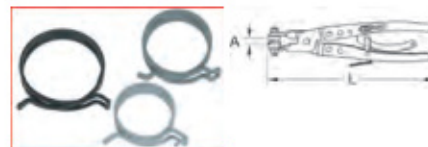
- Suitable for correct assembly and disassembly of spring clamps
- Turnable jaws
- Includes ratchet function
- Effortless opening and closing
- PVC dipped handle
- Special steel



	A mm	L mm	W
115.1167	15-56	275.0	400

Hose clamp pliers

- Suitable for correct assembly and disassembly of spring clamps
- Turnable jaws
- Includes locking mechanism and ratchet function
- PVC dipped handle
- Special steel



	A mm	L mm	W
115.1183	15-56	220.0	350

Hose clamp pliers

- PVC dipped handle
- For spring pipe clamps
- Includes locking mechanism and ratchet function
- Chrome molybdenum



	A mm	C mm	L mm	W
115.1046	0-45	37.0	220.0	230

Hose clamp pliers, angled

- Suitable for correct assembly and disassembly of spring clamps
- 110° angled
- Turnable jaws
- With locking device
- PVC dipped handle
- Special steel



	A mm	L mm	W
115.1173	6-58	250.0	400

Hose clamp pliers type MU1

- For secure and correct dismantling and assembly of clamps
- Suitable for fitting and eccentric clamps
- Includes locking mechanism and ratchet function
- For difficult to reach clamps
- For new type and hard to access steel band clamps
- Special tool steel Suitable for VAG



	A mm	L mm	W
115.1062	0-30	235.0	390

Hose clamp pliers type MU2

- For secure and correct dismantling and assembly of clamps
- Suitable for fitting and eccentric clamps
- Includes locking mechanism and ratchet function
- For difficult to reach clamps
- For new type and hard to access steel band clamps
- Special tool steel Suitable for VAG 2.0 TDI / MC: BKD, Volkswagen Passat from 2005, Touran, Golf V, Skoda Octavia, Audi A3 etc.



	A mm	L mm	Weight
115.1063	0-40	295.0	470

Hose clamp pliers type MU2

- Suitable for correct assembly and disassembly of spring clamps
- Ideal for deep seated spring clamps
- Turnable jaws
- Includes ratchet function
- PVC dipped handle
- Special steel



	A mm	L mm	Weight
115.1166	4-45	290.0	440

Hose clamp pliers type MU3

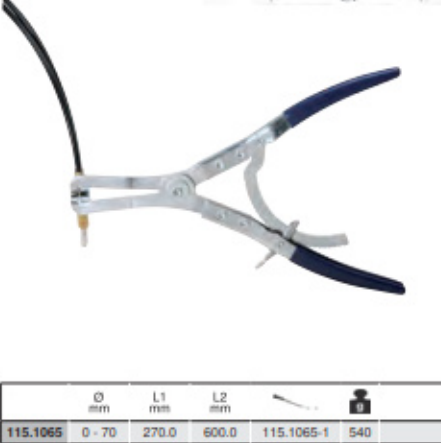
- For secure and correct dismantling and assembly of clamps
- Suitable for fitting and eccentric clamps
- With 600 mm bowden cable
- Adjustable length bowden cable
- Includes locking mechanism and ratchet function
- For difficult to reach clamps
- For new type and hard to access steel band clamps
- Special tool steel Suitable for VAG 2.0 TDI / MC: BKD, Volkswagen Passat from 2005, Touran, Golf V, Skoda Octavia, Audi A3.



	Ø mm	L1 mm	L2 mm	Weight
115.1064	0-50	240.0	600.0	540

Hose clamp pliers with double bowden cable

- PVC dipped handle
- For spring pipe clamps
- 600 mm bowden cable
- Adjustable length bowden cable
- Includes locking mechanism
- For difficult to reach clamps
- Special tool steel



	Ø mm	L1 mm	L2 mm	Weight
115.1065	0-70	270.0	600.0	540

Hose clamp pliers, VAG

- Suitable for assembly or disassembly of spring clamps with reducing ends
- With PVC dipped handle
- With 600 mm Bowden cable
- Includes ratchet function, locking mechanism and loosening lever
- Internal spring
- For difficult to reach spring clamps
- Chrome molybdenum

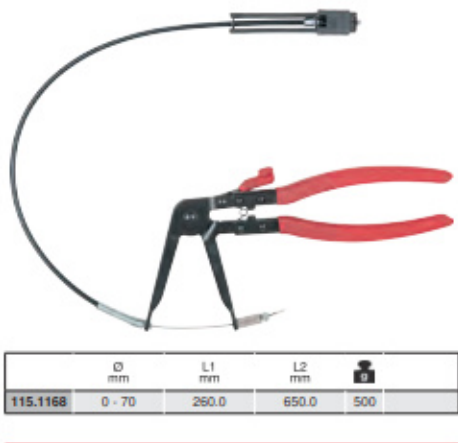
Application range: VAG 2.0 TDI engines (BKD), especially suitable for hard to reach lower coolant hose



	Ø mm	L1 mm	L2 mm	Weight
115.1169	0-60	260.0	600.0	500

Hose clamp pliers with bowden cable

- With PVC dipped handle
- For spring pipe clamps
- With 650 mm Bowden cable
- Includes ratchet function, locking mechanism and loosening lever
- Internal spring
- For difficult to reach spring clamps
- Chrome molybdenum



	Ø mm	L1 mm	L2 mm	Weight
115.1168	0-70	260.0	650.0	500

Hose clamp pliers with bowden cable

- Ideally suited for opening and closing hose clamps
- Suitable for hard to reach self-tensioning spring clamps
- With 590 mm strengthened Bowden cable
- Includes locking mechanism
- Internal spring
- The torsion of the pliers is reduced with strong clamps
- With quick change system for Bowden cable replacement
- 2 component handle
- Strengthened steel

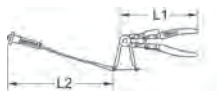
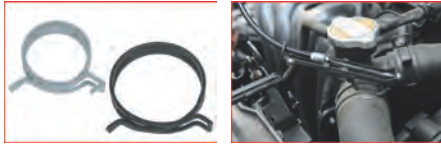
Application range: MUBEA and NORMA



	Ø mm	L1 mm	L2 mm	Weight
115.0901	15-54	260.0	730.0	500

Hose clamp pliers with bowden cable

- For self-tensioning hose clamps
- With locking mechanism
- In particular for fuel lines, cooling and washing water hoses
- With 650 mm Bowden cable
- With flat at achment for spring clamps with flat a joining ends
- Opening and closing the clamps without damage to the hose also in hard to reach places
- Self-opening
- With PVC dipped handle
- Special steel



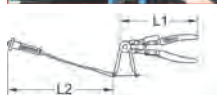
Ø mm	L1 mm	L2 mm	g		
115.1041	0 - 60	200.0	650.0	115.1041-1	470



Spring band clamp pliers with gooseneck

- For actuation of self tensioning spring band clamps
- For cooling and heating systems
- Semi rigid, plastic coated gooseneck
- Convenient one handed operation in deep regions
- Fixing of the clamp by micro teeth
- Ideal for confined space
- Working head with raised grippers and wide opening
- Working head with slide guide and retraction spring
- With two component handle
- Chrome molybdenum

Application area: NORMA FBS, MUB FBS-STD, FBS-RSV, etc.

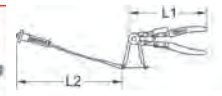
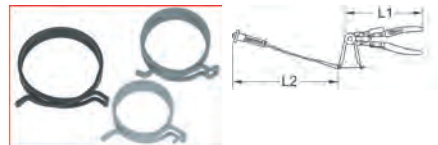


Ø mm	L1 mm	L2 mm	g		
115.1190	18-54	220.0	660.0	115.1190-1	620



Hose clamp pliers

- For the correct assembly and disassembly of spring clamps
- With 600 mm Bowden cable for hard to reach areas
- Step-less locking mechanism
- With quick-release lever
- Simple handling
- Special tool steel



Ø mm	L1 mm	L2 mm	g	
115.1189	0-50	210.0	600.0	330

CLICK AND COBRA HOSE CLAMPS

Hose clamp pliers with swivel prism reception

- Suitable for the correct assembly and disassembly of Click, Click-R and Cobra clamps
- Also suitable for self-tensioning hose clamps with flat 3 pin h ends
- In particular for fuel lines, cooling and washing water hoses
- With swivel prism attachment
- Self-opening
- Surface nickel-plated
- Special steel

Application range: Volkswagen, Audi, Mercedes, Toyota etc.



Clamping range mm	L mm	g	
115.1188	8-18	210.0	200

Click hose clamp pliers, angled

- Suitable for the correct assembly and disassembly of Click, Click-R and Cobra clamps
- Also suitable for self-tensioning hose clamps with flat 3 pin h ends
- 90° angled head
- Effortless opening and closing
- Forged bite jaws
- With PVC dipped handle
- Special steel



	A mm	L mm	g
115.1179	0-18	180.0	160

Click hose clamp pliers, forged

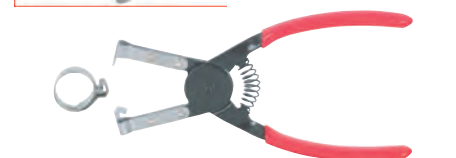
- Suitable for the correct assembly and disassembly of Click, Click-R and Cobra clamps
- Also suitable for self-tensioning hose clamps with flat 3 pin h ends
- Re-usable V2A-clamps
- With PVC dipped handle
- With self-opening mechanism
- Chrome molybdenum



	A mm	C mm	L mm	g
115.1045	0-38	25.0	180.0	215

Click hose clamp pliers

- Suitable for the correct assembly and disassembly of Click, Click-R and Cobra clamps
- Also suitable for self-tensioning hose clamps with flat 3 pin h ends
- With PVC dipped handle
- Self-opening
- Chrome molybdenum



	A mm	C mm	L mm	g
115.1040	0-25	40.0	160.0	120

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Hose clamp pliers

- With moveable jaws
- 45° angled head
- Suitable for the correct assembly and disassembly of Click, Click-R and Cobra clamps
- Also suitable for self-tensioning hose clamps with fl 1.3 pinch ends
- Suitable for narrow spaces
- Chrome molybdenum

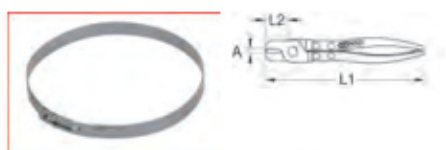


	A mm	C mm	L mm	Ø
115.1057	0-30	45.0	200.0	180

EARLESS HOSE CLAMPS

Hose clamp pliers, ear type

- Knurled handle
- To the dismantling and assembly of "ear type" hose clamp
- For connections on axle boots, coolers and fuel hoses
- Universal usage
- Chrome molybdenum



	A mm	L1 mm	L2 mm	Ø
115.1039	0-60	230.0	25.0	320

Hose clip pliers for earless hose bands

- With PVC dipped handle
- For working of earless clamps
- Also suitable for thermoplastic axle boots
- Uniform compressing of the ear piece
- No damage to the sleeve
- With lever translation
- Nickel-plated finish
- Chrome molybdenum

Application range: Axle boots for Audi, BMW, Chrysler, Ford, GM, Honda, Mazda, Mercedes, Nissan, Opel, Porsche, Volkswagen, etc.



	Ø mm	Length mm	Ø
115.1210	100	248.0	330

ONE EAR HOSE CLAMPS

Hose clamp pliers, ear type

- With PVC dipped handle
- For the fitting of ear clamps
- No sticking up of the ears during the press process
- Uniform compressing of the ear piece
- No damage to the sleeve
- Nickel-plated finish
- Chrome molybdenum

Application range: Axle boots, coolant and fuel hoses for Volkswagen, Audi, Opel, BMW, Mercedes, Honda, Nissan and Mazda



	A mm	L mm	Ø
115.1050	0-22	260.0	380

Hose clamp pliers

- With PVC dipped handle
- With 3/8" drive for use with a torque wrench
- For the fitting and clamping of ear clamps
- 1/2" 4-point recess in the handle for use with torque wrench
- Chrome molybdenum

Application range: Volkswagen, Opel, Seat, GM, Ford, Nissan, Mercedes, Mazda, Honda, Chrysler, BMW and Audi



	A mm	L mm	Ø
115.1053	0-17	240.0	540

Hose clamp pliers

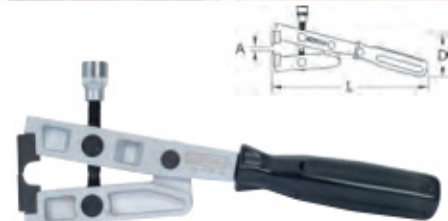
- Work side
- For compressing locking hose clips
- With PVC dipped handle
- Chrome vanadium



	L mm	Ø
115.1185	240.0	335

Hose clamp pliers for torque wrench

- Black plastic handle
- 3/8" drive for use with a torque wrench
- Enables clamping and/or compressing of the hose clamps
- Suitable for the stainless steel hose clamps on drive shafts
- Robust cast steel construction



	A mm	L mm	Ø
115.1056	0-45	270.0	880

TENSION BANDS

Stainless steel ball-lock cable ties

- Ideal for fastening axle boots, steering joints, etc.
- Adjustable as desired
- Stainless steel 304



	Length mm	Width mm	Content	Ø
115.1591	200.0	4.6	100	200
115.1592	250.0	4.6	100	300
115.1593	350.0	4.6	100	400
115.1594	500.0	4.6	100	500

Clamping and cutting tool for tubing bands

- Straps for attaching to CV joint boots
- Integrated clamping and cutting device
- Suitable for prefabricated and endless band clamps up to 9.5 mm
- Special steel



	L mm	Ø
115.1059	163.0	437

Plier for stainless steel ball-lock cable ties

- Ideal for working stainless steel cable binders
- Can be used up to a tape width of 12 mm
- Controlled tensioning and precise cutting off of the cable binder in a single step
- Tensile force is determined by the operator
- Suitable for steel, stainless steel and epoxy cable binder
- Special steel



	Length mm	Weight
115.1590	210.0	650

Hose strap cutter, angled

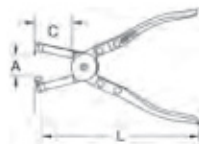
- To be sliced from earless hose clamps
- For connections on axle boots, coolers and fuel hoses
- Dipped covered handle
- Chrome vanadium



	L mm	Weight
115.1186	220.0	345

Hose strap cutter, angled

- For cutting off earless hose clamps
- 45° angled head
- For connections on axle boots, cooler and fuel hoses
- Damage-free opening of clamps and tubing bands
- Universal usage
- Nickel-plated finish



	A mm	C mm	L mm	Weight
115.1191	0 - 30,0	50,0	230,0	330

SPRING WIRE HOSE CLAMPS

Hose clamp pliers

- PVC dipped handle
- For spring pipe clamps
- Includes locking mechanism and ratchet function
- Chrome molybdenum



	A mm	C mm	L mm	Weight
115.1047	0-45	37,0	220,0	230

FUEL PIPE CLAMP PLIERS

Fuel pipe clamp with Bowden cable for quick coupling

- For correct unbolting of fuel pipe coupling
- With locking mechanism
- Especially for fuel pipe couplings on which the unbolting elements are reached from the side
- With 650 mm Bowden cable
- No damage to the compression coupling, fuel pipes and fuel hoses
- Quick and easy separation of the fuel pipes
- With PVC dipped handle
- Matt chrome
- Special tool steel

Application range: Audi, Chrysler, Fiat, Opel, Renault, Mercedes, Volkswagen etc.



	L1 mm	L2 mm	Weight
115.1060	230,0	670,0	420



HOSE CLAMP PLIERS SETS

Automotive hose clamp pliers set

- Handle dip insulated
- Ideal for clamps low down in the engine
- Includes locking mechanism
- For self tensioning spring pipe clamps with 3 point mounting
- Self opening
- For opening and closing re/usable clic hose clamps, type Clic + Clic-R
- For difficult to reach clamps
- Special tool steel

Application area: For connecting and removing fuel, immersed ventilation, coolant, washer water and vacuum hoses, etc.

Application range: Volkswagen, Audi, Mercedes Benz, Toyota etc.



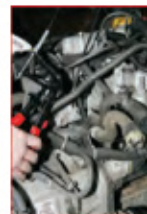
	Weight
115.1104 4 pcs Automotive hose clamp pliers set	1.12

consists of:

		Weight
115.1045	Hose clamp pliers (click type), 180mm	215
115.1042	Hose clamp pliers (recessed/slot), 220mm	210
115.1187	Hose clamp pliers with prism, 8-18mm	189
115.1069	Hose clamp pliers (dbl bowden cable), 600mm	540

Automotive hose clamp pliers set

- PVC dipped handle
- For opening and closing of cobra hose clamps
- Swivel pressed jaws
- Includes locking mechanism and ratchet function
- Self opening mechanism
- For the dismantling and assembly of hose clamps
- Includes bowden cable
- Chrome molybdenum



	Weight
115.1055 7 pcs Automotive hose clamp pliers set	4.00

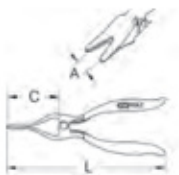
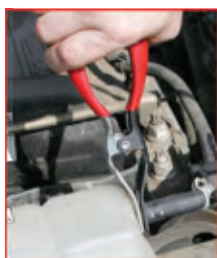
consists of:

115.1041	Hose clamp pliers (bowden cable), 650mm	470	
115.1042	Hose clamp pliers (recessed/slot), 220mm	210	
115.1043	Hose clamp pliers (crown profile), 220mm	240	
115.1044	Hose pliers, 195mm	190	
115.1045	Hose clamp pliers (click type), 180mm	215	
115.1046	Hose clamp pliers (recessed/slot), 220mm	230	
115.1047	Hose clamp pliers (dbl cross slot), 220mm	230	

HOSE ASSEMBLY AND REMOVAL TOOLS

Fuel pipe pliers for compression coupling

- For correct opening of fuel pipe coupling
- Extra-fl t jaws ends
- No damage to the compression coupling, fuel pipes and fuel hoses
- Quick and easy separation of the fuel pipes and fuel hoses
- Self-closing
- With PVC dipped handle
- Special steel



	A mm	L mm	C mm	
115.1044	0-30	195.0	70.0	190



Hose release pliers

- Suitable for releasing secured cooling hoses
- Securing screw for adjusting jaws
- Gentle on materials
- Lower power usage
- Simple operation
- Plastic handle
- Special steel



	Length mm	Ø mm	
115.1199	180.0	15-54	180

Hose clamp set

- For easy clamping of fl xible hose parts from 10.0 mm (3/8") to 45.0 mm (1.3/4")
- Continuous fl w rate regulation, sensitive fl w rate regulation or complete fl w rate stop
- The hose is crimped over a wide area against the sturdy steel cross, damage to the hose is therefore prevented
- With revolving clamp wing from metal
- Ideal for maintenance work with petrol, oil, water and radiator antifreeze
- Protects from drips from petrol, oil, water and radiator antifreeze
- Ideally suitable for passenger cars, transporters, MPVs, commercial vehicles, tractors, agricultural and construction machinery and industrial uses
- Temperature resistant up to 160 °
- Special steel



122.1200	4 pcs	Hose clamp set	420

consists of:

122.1201	Hose clamp max. Ø 10 mm (3/8")	41
122.1202	Hose clamp max. Ø 15 mm (1/2")	46
122.1203	Hose clamp max. Ø 25 mm (1")	96
122.1204	Hose clamp max. Ø 45 mm (1.3/4")	237

Hose clamp pliers set

- For simple clamping of fl xible for hoses from 15.9 mm (5/8") up to 60.0 mm (2.3/8")
- For stopping the fl w
- The hose is a broad area squeezed against the stable support surface, damaging the hose is avoided
- Variable adjustment with locking function
- Ideal for maintenance work with gasoline, oil, water and antifreeze
- Protects against leakage of fuel, oil, water and antifreeze
- Ideal for use in passenger cars, vans and large vans, commercial vehicles, tractors, agricultural machinery, construction machinery and industrial applications
- Heat resistant up to 160 ° C
- Plastic



115.5050	3 pcs	Hose clamp pliers set	370

consists of:

115.5052	Clamping pliers 150 mm for hoses up to Ø 15 mm	80
115.5053	Clamping pliers 180 mm for hoses up to Ø 30 mm	130
115.5054	Clamping pliers 250 mm for hoses up to Ø 60 mm	160

Hose clamp pliers set 90° angled

- For simple clamping of fl xible for hoses from 15.9 mm (5/8") up to 60.0 mm (2.3/8")
- Angled design for use in confined spa es
- For stopping the fl w
- The hose is a broad area squeezed against the stable support surface, damaging the hose is avoided
- Variable adjustment with locking function
- Ideal for maintenance work with gasoline, oil, water and antifreeze
- Protects against leakage of fuel, oil, water and antifreeze
- Ideal for use in passenger cars, vans and large vans, commercial vehicles, tractors, agricultural machinery, construction machinery and industrial applications
- Heat resistant up to 160 ° C
- Plastic



115.5055	3 pcs	Hose clamp pliers set 90° angled	370

consists of:

115.5057	Hose clamp gripper 90°, Ø 15mm	55
115.5058	Hose clamp gripper 90°, Ø 23mm	95
115.5059	Hose clamp gripper 90°, Ø 35mm	130

ALLinONE Hose clamp pliers set

- Simple sealing of pipe lines, 4.75 mm (3/16") to 14.0 mm (9/16")
- Rotary magazine with 4 slots for the corresponding pipe size
- Ideal for maintenance work with gasoline, oil, water and antifreeze
- Protects against ingress of moisture and dirt
- Ideal for use in passenger cars, vans and large vans, commercial vehicles, tractors, agricultural machinery, construction machinery and industrial applications
- Special plastic



	Ø mm	A mm	L mm		
122.1295	2 pcs	4,75-14	38.0	120.0	149

consists of:

	X	
122.1296	2 ALLinONE Fluidstopper Ø 4,75 - 14 mm	60
122.1297	1 Replaceable plastic plugs for 122.1296 pipe stopper pliers	50

KS TOOLS®

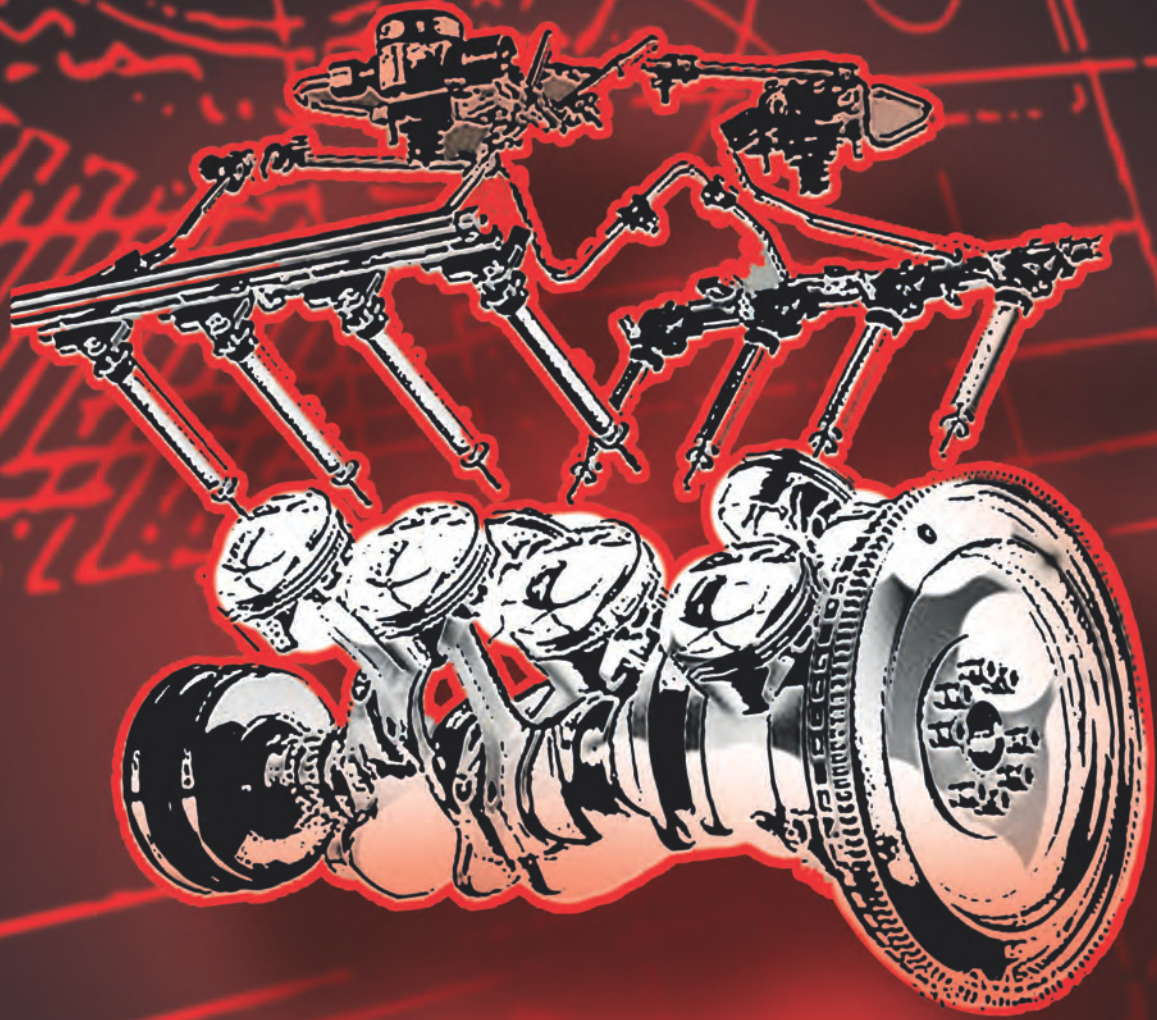
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Innovation is
our mission!



	PAGE
HOSE CLAMP TOOL	188 - 192
HOSE PINCH TOOL	192 - 193
FUEL PIPE CLAMP PLIERS	193 - 194
PIPE COUPLING UNLOCKING TOOL	194 - 195
PIPE WRENCH	195 - 196
INJECTOR NOZZLE TOOL	196 - 199
FUEL FILTER TOOL	199 - 200
TANK SENDER WRENCH	200 - 201
TEST DEVICE	201 - 203
TRANSFER PUMPS	203 - 204
FILLING DEVICE AND AIR VENT DEVICE	204

HOSE CLAMP TOOL

ERGOTORQUE® sock et screwdriver

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



	mm	D mm	L1 mm	L2 mm	L3 mm	L4 mm	kg
911.1126	6	10.8	259.0	150.0	109.0	9.3	155
911.1127	7	11.7	259.0	150.0	109.0	10.0	155
911.1128	8	11.9	259.0	150.0	109.0	10.0	155
911.1125	10	12.5	279.0	170.0	109.0	14.3	170

ERGOTORQUEplus® sock et screwdriver, extra long

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



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

ERGOTORQUE® screwdriver set

- Flexible blade with double spiral shaft
- Limited torque
- Plastic protective coating
- Two component handle
- With hanging hole
- Contains also the most current 1/4" bits and sockets
- In display box



	mm	kg
911.1180	16 pcs ERGOTORQUE® screwdriver set	1.30
1 x	1/4"	
1 x	1/4"	

1 x		7 mm
3 x		5 - 6 - 8 mm
2 x		5.5 - 6.5 mm
2 x		PH1 - PH2
6 x		T10 - T15 - T20 - T25 - T27 - T30

Hose clamp tension device

- For assembly and disassembly of hose clamps
- Easy to use
- Less space required
- Wear-resistant spindle drive
- Hand-wheel operation
- 6-point and 1/4" drive
- Chrome molybdenum



	D mm	Ø mm	Open width mm	kg
115.0910	6-40	0-37	80	130
115.0911	6-65	0-62	105	160



Hose clamp gripping pliers

- Forged gripping jaws
- Serrated execution
- Size adjustment using the adjustment wheel
- Quick release lever
- Easy locking action
- For round and flat material
- Nickel plated
- Chrome vanadium



	Clamping range mm	L mm	kg
115.1126	18-36	175.0	231
115.1127	18-54	230.0	420

Hose clamp gripping pliers set

- Forged gripping jaws
- Serrated execution
- Size adjustment using the adjustment wheel
- Quick release lever
- Easy locking action
- For round and flat material
- Nickel plated
- Chrome vanadium



115.1125	2 pcs	175 - 230 mm	653
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Hose clamp pliers with prism reception

- For self-tensioning hose clamps with flat pinch ends
- In particular for fuel lines, cooling and washing water hoses
- With prism attachment for spring clamps with flat adjoining ends
- Opening and closing the clamps without damage to the hose also in hard to reach places
- Self-opening
- Special steel

Application range: Audi, Mercedes, Toyota, Volkswagen etc.



	Clamping range mm	L mm	kg
115.1187	8-18	195.0	189

Hose clamp pliers

- Suitable for assembly and disassembly of spring clamps
- Optimal mounting due to special construction of jaws
- Includes locking mechanism and ratchet function
- PVC dipped handle
- Simple handling
- Special steel



	A mm	L mm	kg
115.1181	0-55	260.0	380

Hose clamp pliers, angled

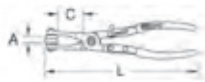
- Suitable for assembly and disassembly of spring clamps
- 90° angled
- Optimal mounting due to special construction of jaws
- With offset side attachment nuts
- Includes locking mechanism and ratchet function
- PVC dipped handle
- Simple handling
- Special steel



	A mm	L mm	W
115.1182	0-22	220.0	380

Hose clamp pliers, angled

- 45° angled head
- With variable jaws
- For diffi ult to reach clamps
- Includes locking mechanism
- With PVC dipped handle
- Chrome molybdenum



	A mm	C mm	L mm	W
115.1042	0-65	55.0	220.0	210

Hose clamp pliers, angled

- 90° angled head
- With moveable jaws
- For diffi ult to reach spring clamps
- Includes locking mechanism
- With PVC dipped handle
- Chrome molybdenum



	Ø mm	A mm	L mm	W
115.1198	18-53	5-43	210.0	400

Universal hose clamp pliers

- Universal crown profil
- For diffi ult to reach clamps
- With PVC dipped handle
- Includes locking mechanism
- Versatile usage
- Chrome molybdenum



	A mm	C mm	L mm	W
115.1043	0-48.5	40.0	220.0	240

Hose clamp pliers

- Suitable for correct assembly and disassembly of spring clamps
- Turnable jaws
- Includes ratchet function
- Effortless opening and closing
- PVC dipped handle
- Special steel



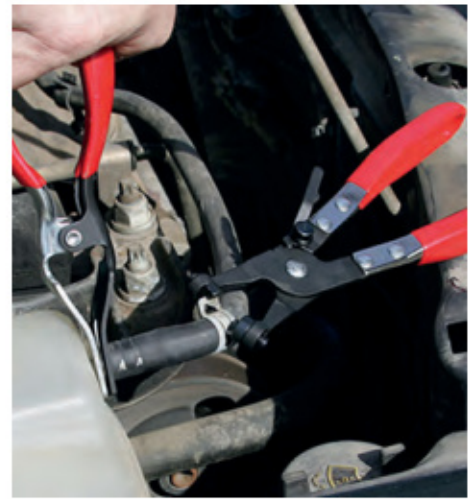
	A mm	L mm	W
115.1167	15-56	275.0	400

Hose clamp pliers

- PVC dipped handle
- For spring pipe clamps
- Includes locking mechanism and ratchet function
- Chrome molybdenum



	A mm	C mm	L mm	W
115.1046	0-45	37.0	220.0	230



Hose clamp pliers, angled

- Suitable for correct assembly and disassembly of spring clamps
- 110° angled
- Turnable jaws
- With locking device
- PVC dipped handle
- Special steel



	A mm	L mm	W
115.1173	6-56	250.0	400

Hose clamp pliers with double bowden cable

- PVC dipped handle
- For spring pipe clamps
- 600 mm bowden cable
- Adjustable length bowden cable
- Includes locking mechanism
- For diffi ult to reach clamps
- Special tool steel



	Ø mm	L1 mm	L2 mm	W
115.1065	0-70	270.0	600.0	115.1065-1 540

Hose clamp pliers, VAG

- Suitable for assembly or disassembly of spring clamps with reducing ends
- With PVC dipped handle
- With 600 mm Bowden cable
- Includes ratchet function, locking mechanism and loosening lever
- Internal spring
- For difficult to reach spring clamps
- Chrome molybdenum

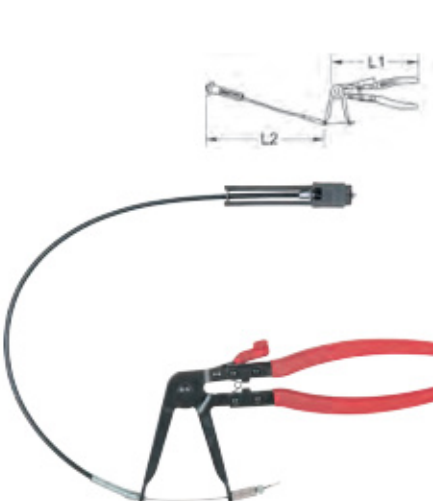
Application range: VAG 2.0 TDI engines (BKD), especially suitable for hard to reach lower coolant hose



	Ø mm	L1 mm	L2 mm	Weight
115.1169	0 - 60	260.0	600.0	500

Hose clamp pliers with bowden cable

- With PVC dipped handle
- For spring pipe clamps
- With 650 mm Bowden cable
- Includes ratchet function, locking mechanism and loosening lever
- Internal spring
- For difficult to reach spring clamps
- Chrome molybdenum

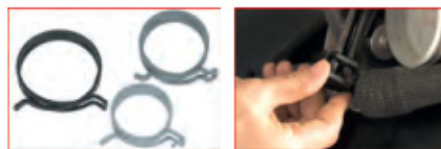


	Ø mm	L1 mm	L2 mm	Weight
115.1168	0 - 70	260.0	650.0	500

Hose clamp pliers with bowden cable

- Ideally suited for opening and closing hose clamps
- Suitable for hard to reach self-tensioning spring clamps
- With 590 mm strengthened Bowden cable
- Includes locking mechanism
- Internal spring
- The torsion of the pliers is reduced with strong clamps
- With quick change system for Bowden cable replacement
- 2 component handle
- Strengthened steel

Application range: MUBEA and NORMA



	Ø mm	L1 mm	L2 mm	Weight
115.0901	15 - 54	260.0	730.0	500

Hose clamp pliers with bowden cable

- For self-tensioning hose clamps
- With locking mechanism
- In particular for fuel lines, cooling and washing water hoses
- With 650 mm Bowden cable
- With 11 attachment for spring clamps with 11 adjoining ends
- Opening and closing the clamps without damage to the hose also in hard to reach places
- Self-opening
- With PVC dipped handle
- Special steel



	Ø mm	L1 mm	L2 mm	Weight
115.1041	0 - 60	200.0	650.0	470



Spring band clamp pliers with gooseneck

- For actuation of self tensioning spring band clamps
- For cooling and heating systems
- Semi rigid, plastic coated gooseneck
- Convenient one handed operation in deep regions
- Fixing of the clamp by micro teeth
- Ideal for confined spaces
- Working head with raised grippers and wide opening
- Working head with slide guide and retraction spring
- With two component handle
- Chrome molybdenum

Application area: NORMA FBS, MUB FBS-STD, FBS-RSV, etc.



	Ø mm	L1 mm	L2 mm	Weight
115.1190	18-54	220.0	660.0	620

Hose clamp pliers

- For the correct assembly and disassembly of spring clamps
- With 600 mm Bowden cable for hard to reach areas
- Step-less locking mechanism
- With quick-release lever
- Simple handling
- Special tool steel



	Ø mm	L1 mm	L2 mm	Weight
115.1189	0-50	210.0	600.0	330

Hose clamp pliers with swivel prism reception

- Suitable for the correct assembly and disassembly of Click, Click-R and Cobra clamps
- Also suitable for self-tensioning hose clamps with flat 3 pin h ends
- In particular for fuel lines, cooling and washing water hoses
- With swivel prism attachment
- Self-opening
- Surface nickel-plated
- Special steel

Application range: Volkswagen, Audi, Mercedes, Toyota etc.



	Clamping range mm	L mm	g
115.1188	8-18	210.0	200

Click hose clamp pliers, angled

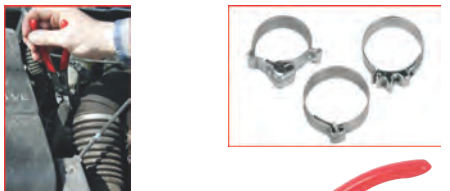
- Suitable for the correct assembly and disassembly of Click, Click-R and Cobra clamps
- Also suitable for self-tensioning hose clamps with flat 3 pin h ends
- 90° angled head
- Effortless opening and closing
- Forged bite jaws
- With PVC dipped handle
- Special steel



	A mm	L mm	g
115.1179	0-18	180.0	160

Click hose clamp pliers, forged

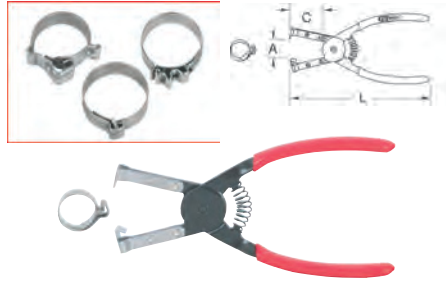
- Suitable for the correct assembly and disassembly of Click, Click-R and Cobra clamps
- Also suitable for self-tensioning hose clamps with flat 3 pin h ends
- Re-usable V2A-clamps
- With PVC dipped handle
- With self-opening mechanism
- Chrome molybdenum



	A mm	C mm	L mm	g
115.1045	0-38	25.0	180.0	215

Click hose clamp pliers

- Suitable for the correct assembly and disassembly of Click, Click-R and Cobra clamps
- Also suitable for self-tensioning hose clamps with flat 3 pin h ends
- With PVC dipped handle
- Self-opening
- Chrome molybdenum



	A mm	C mm	L mm	g
115.1040	0-25	40.0	160.0	120

Hose clamp pliers

- With moveable jaws
- 45° angled head
- Suitable for the correct assembly and disassembly of Click, Click-R and Cobra clamps
- Also suitable for self-tensioning hose clamps with flat 3 pin h ends
- Suitable for narrow spaces
- Chrome molybdenum

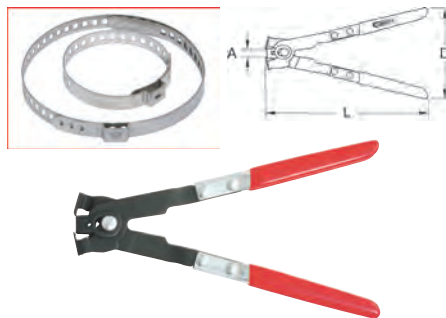


	A mm	C mm	L mm	g
115.1057	0-30	45.0	200.0	180

Hose clamp pliers, ear type

- With PVC dipped handle
- For the fitting of ear clamps
- No sticking up of the ears during the press process
- Uniform compressing of the ear piece
- No damage to the sleeve
- Nickel-plated finish
- Chrome molybdenum

Application range: Axle boots, coolant and fuel hoses for Volkswagen, Audi, Opel, BMW, Mercedes, Honda, Nissan and Mazda

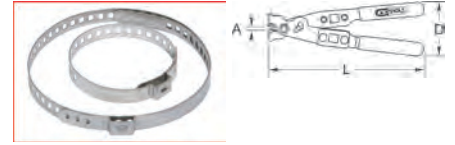


	A mm	L mm	g
115.1050	0-22	260.0	380

Hose clamp pliers

- With PVC dipped handle
- With 3/8" drive for use with a torque wrench
- For the fitting and clamping of ear clamps
- 1/2" 4-point recess in the handle for use with torque wrench
- Chrome molybdenum

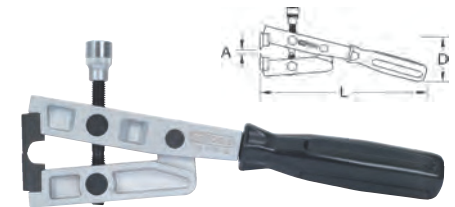
Application range: Volkswagen, Opel, Seat, GM, Ford, Nissan, Mercedes, Mazda, Honda, Chrysler, BMW and Audi



	A mm	L mm	g
115.1053	0-17	240.0	540

Hose clamp pliers for torque wrench

- Black plastic handle
- 3/8" drive for use with a torque wrench
- Enables clamping and/or compressing of the hose clamps
- Suitable for the stainless steel hose clamps on drive shafts
- Robust cast steel construction



	A mm	L mm	g
115.1056	0-45	270.0	880

Hose clamp pliers

- PVC dipped handle
- For spring pipe clamps
- Includes locking mechanism and ratchet function
- Chrome molybdenum



	A mm	C mm	L mm	g
115.1047	0-45	37.0	220.0	230

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Fuel pipe clamp with Bowden cable for quick coupling

- For correct unbolting of fuel pipe coupling
- With locking mechanism
- Especially for fuel pipe couplings on which the unbolting elements are reached from the side
- With 650 mm Bowden cable
- No damage to the compression coupling, fuel pipes and fuel hoses
- Quick and easy separation of the fuel pipes
- With PVC dipped handle
- Matt chrome
- Special tool steel

Application range: Audi, Chrysler, Fiat, Opel, Renault, Mercedes, Volkswagen etc.



	Ø mm	L1 mm	L2 mm	115.1058	420
115.1060	0-20	230.0	670.0	115.1058	420

Automotive hose clamp pliers set

- Handle dip insulated
- Ideal for clamps low down in the engine
- Includes locking mechanism
- For self tensioning spring pipe clamps with 3 point mounting
- Self opening
- For opening and closing re/useable clic hose clamps, type Clic + Clic-R
- For difficult to reach clamps
- Special tool steel

Application area: For connecting and removing fuel, immersed ventilation, coolant, washer water and vacuum hoses, etc.

Application range: Volkswagen, Audi, Mercedes Benz, Toyota etc.



	115.1104	4 pcs	Automotive hose clamp pliers set	1.12
	115.1104	4 pcs	Automotive hose clamp pliers set	1.12

consists of:

115.1045	Hose clamp pliers (click type), 180mm	215		
115.1042	Hose clamp pliers (recessed/slot), 220mm	210		
115.1187	Hose clamp pliers with prism, 8-18mm	189		
115.1065	Hose clamp pliers (dbl bowden cable), 600mm	540		

Automotive hose clamp pliers set

- PVC dipped handle
- For opening and closing of cobra hose clamps
- Swivel pressed jaws
- Includes locking mechanism and ratchet function
- Self opening mechanism
- For the dismantling and assembly of hose clamps
- Includes bowden cable
- Chrome molybdenum



	115.1055	7 pcs	Automotive hose clamp pliers set	4.00
	115.1055	7 pcs	Automotive hose clamp pliers set	4.00

consists of:

115.1041	Hose clamp pliers (bowden cable), 650mm	470		
115.1042	Hose clamp pliers (recessed/slot), 220mm	210		
115.1043	Hose clamp pliers (crown profile), 220mm	240		
115.1044	Hose pliers, 195mm	190		
115.1045	Hose clamp pliers (click type), 180mm	215		
115.1046	Hose clamp pliers (recessed/slot), 220mm	230		
115.1047	Hose clamp pliers (dbl cross slot), 220mm	230		

Fuel pipe pliers for compression coupling

- For correct opening of fuel pipe coupling
- Extra-fl t jaws ends
- No damage to the compression coupling, fuel pipes and fuel hoses
- Quick and easy separation of the fuel pipes and fuel hoses
- Self-closing
- With PVC dipped handle
- Special steel



	A mm	L mm	C mm	115.1044
115.1044	0-30	195.0	70.0	190

HOSE PINCH TOOL

Hose clamp set

- For easy clamping of flexible hose parts from 10.0 mm (3/8") to 45.0 mm (1.3/4")
- Continuous flow rate regulation, sensitive flow rate regulation or complete flow rate stop
- The hose is crimped over a wide area against the sturdy steel cross, damage to the hose is therefore prevented
- With revolving clamp wing from metal
- Ideal for maintenance work with petrol, oil, water and radiator antifreeze
- Protects from drips from petrol, oil, water and radiator antifreeze
- Ideally suitable for passenger cars, transporters, MPVs, commercial vehicles, tractors, agricultural and construction machinery and industrial uses
- Temperature resistant up to 160 °C
- Special steel



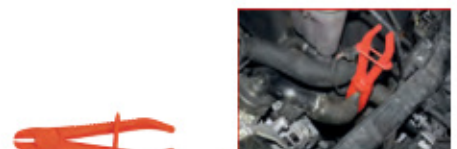
	122.1200	4 pcs	Hose clamp set	420
	122.1200	4 pcs	Hose clamp set	420

consists of:

122.1201	Hose clamp max. Ø 10 mm (3/8")	41		
122.1202	Hose clamp max. Ø 15 mm (1/2")	46		
122.1203	Hose clamp max. Ø 25 mm (1")	96		
122.1204	Hose clamp max. Ø 45 mm (1.3/4")	237		

Hose clamp pliers set

- For simple clamping of flexible hoses for hoses from 15.9 mm (5/8") up to 60.0 mm (2.3/8")
- For stopping the flow
- The hose is a broad area squeezed against the stable support surface, damaging the hose is avoided
- Variable adjustment with locking function
- Ideal for maintenance work with gasoline, oil, water and antifreeze
- Protects against leakage of fuel, oil, water and antifreeze
- Ideal for use in passenger cars, vans and large vans, commercial vehicles, tractors, agricultural machinery, construction machinery and industrial applications
- Heat resistant up to 160 °C
- Plastic



	115.5050	3 pcs	Hose clamp pliers set	370
	115.5050	3 pcs	Hose clamp pliers set	370

consists of:

115.5052	Clamping pliers 150 mm for hoses up to Ø 15 mm	80		
115.5053	Clamping pliers 180 mm for hoses up to Ø 30 mm	130		
115.5054	Clamping pliers 250 mm for hoses up to Ø 60 mm	160		

Hose clamp pliers set 90° angled

- For simple clamping of flexible for hoses from 15.9 mm (5/8") up to 60.0 mm (2.3/8")
- Angled design for use in confined spaces
- For stopping the flow
- The hose is a broad area squeezed against the stable support surface, damaging the hose is avoided
- Variable adjustment with locking function
- Ideal for maintenance work with gasoline, oil, water and antifreeze
- Protects against leakage of fuel, oil, water and antifreeze
- Ideal for use in passenger cars, vans and large vans, commercial vehicles, tractors, agricultural machinery, construction machinery and industrial applications
- Heat resistant up to 160 ° C
- Plastic



Part No.	Quantity	Description	Weight (g)
115.5055	3 pcs	Hose clamp pliers set 90° angled	370

consists of:

Part No.	Description	Weight (g)
115.5057	Hose clamp gripper 90°, Ø 15mm	55
115.5058	Hose clamp gripper 90°, Ø 23mm	95
115.5059	Hose clamp gripper 90°, Ø 35mm	130

ALLinONE Hose clamp pliers set

- Simple sealing of pipe lines, 4.75 mm (3/16") to 14.0 mm (9/16")
- Rotary magazine with 4 slots for the corresponding pipe size
- Ideal for maintenance work with gasoline, oil, water and antifreeze
- Protects against ingress of moisture and dirt
- Ideal for use in passenger cars, vans and large vans, commercial vehicles, tractors, agricultural machinery, construction machinery and industrial applications
- Special plastic



Part No.	Quantity	Ø mm	A mm	L mm	Weight (g)
122.1295	2 pcs	4,75-14	38,0	120,0	149

consists of:

Part No.	Quantity	Description	Weight (g)
122.1296	2	ALLinONE Fluidstopper Ø 4,75 - 14 mm	60
122.1297	1	Replaceable plastic plugs for 122.1296 pipe stopper pliers	50

FUEL PIPE CLAMP PLIERS

Fuel pipe pliers for quick coupling

- For correct unbolting of fuel pipe coupling
- Especially for fuel pipe couplings on which the unbolting elements are reached from the side
- No damage to the compression coupling, fuel pipes and fuel hoses
- Quick and easy separation of the fuel pipes
- For universal pipe coupling diameter
- Self-opening
- Special steel



Part No.	Length mm	Weight (g)
115.1184	124,0	45

Fuel pipe pliers for quick coupling

- For correct unbolting of fuel pipe coupling
- No damage to the compression coupling, fuel pipes and fuel hoses
- Quick and easy separation of the fuel pipes
- Curved design
- With two component handle
- Matt chrome
- Special steel

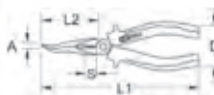


Part No.	L mm	Weight (g)
115.1008	210,0	200

Fuel pipe pliers

- Two component handle
- Cranked execution
- Integrated cutting edge
- For loosening and tightening on fuel lines that are difficult to reach
- No damage to the overflow pipe
- Matt chrome
- Chrome vanadium

Ideally usable in security ring at fuel directions and change valve on BMW motorcycles with 2 valve technology Suitable e.g. for Volkswagen/Audi, Mercedes Benz, Ford, Opel, Peugeot, Volvo, Daihatsu, Mazda and Toyota.



Part No.	A mm	L1 mm	L2 mm	S mm	Weight (g)
115.1067	0-75	200,0	75,0	15,0	220

Return hose pliers

- Angled design
- With integrated cutting edge
- For attaching and pulling out of pipes on low sunken nozzles
- No damage to the overflow pipe
- With two component handle
- Matt chrome
- Chrome vanadium

Application range: Audi, Mercedes, Volkswagen, etc.



Part No.	Ø mm	A mm	L mm	Weight (g)
115.2112	7,0	0-68	190,0	220

Fuel pipe pliers for quick coupling

- For correct unbolting and bolting of fuel pipe coupling
- With the special tip pliers the interlock can be moved forward (locked) and backwards (unlocked)
- No damage to the compression coupling, fuel pipes and fuel hoses
- Quick and easy separation of the fuel pipes
- Curved design
- With two component handle
- Matt chrome
- Special steel



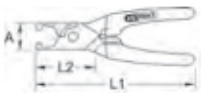
Part No.	Ø mm	L mm	Weight (g)
115.0900	0-105	230,0	310



Fuel pipe pliers for quick coupling

- For correct unbolting of fuel pipe coupling
- Especially for fuel pipe couplings on which the unbolting elements are reached from the side
- No damage to the compression coupling, fuel pipes and fuel hoses
- Quick and easy separation of the fuel pipes
- With PVC dipped handle
- Matt chrome
- Special tool steel

Application range: Audi, Chrysler, Fiat, Opel, Renault, Mercedes, Volkswagen, etc.

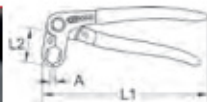


	A mm	L1 mm	L2 mm	Weight
115.1094	0-30	160.0	50.0	220



Fuel pipe pliers for quick coupling

- For correct unbolting of fuel pipe coupling
- No damage to the compression coupling, fuel pipes and fuel hoses
- Quick and easy separation of the fuel pipes
- Angled design for use also in confined spaces
- With PVC dipped handle
- Painted black
- Aluminium

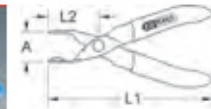


	A mm	L1 mm	L2 mm	Weight
115.1099	0-24	220.0	39.0	290

Universal fuel pipe pliers for compression coupling

- For correct opening of fuel pipe coupling
- Extra fl t jaws ends
- No damage to the compression coupling, fuel pipes and fuel hoses
- Quick and easy separation of the fuel pipes and fuel hoses
- Self-closing
- With PVC dipped handle
- Special steel

Application range: Audi, Citroën, Fiat, Ford, Mercedes, Peugeot, Renault, Volkswagen, etc.

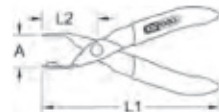


	Ø mm	A mm	L1 mm	L2 mm	Weight
115.1091	8,0	20,0	120,0	35,0	80
115.1092	10,0	22,0	120,0	35,0	80

Opel/GM fuel pliers for compression coupling

- For correct opening of fuel pipe coupling
- Extra fl t jaws ends
- With two noses 6.5 mm x 6.0 mm
- No damage to the compression coupling, fuel pipes and fuel hoses
- Quick and easy separation of the fuel pipes and fuel hoses
- Self-closing
- With PVC dipped handle
- Special steel

Application range: Opel/GM, Chevrolet, Buick, Pontiac



	A mm	L1 mm	L2 mm	Weight
115.1093	22,0	120,0	35,0	80

Fuel pipe pliers set

- For correct opening of fuel pipe coupling
- Extra fl t jaws ends
- No damage to the compression coupling, fuel pipes and fuel hoses
- Quick and easy separation of the fuel pipes and fuel hoses
- Self-closing
- With PVC dipped handle
- Special steel

Application range: Audi, Citroën, Fiat, Ford, GM, Mercedes, Opel, Peugeot, Renault, Volkswagen, etc.



	Weight
115.1090 3 pcs Fuel pipe pliers set	310

consists of:

	Weight
115.1091 Fuel pipe connection Pliers Ø 8 mm, blue	80
115.1092 Fuel pipe connection Pliers Ø 10 mm, green	80
115.1093 Fuel pipe connection Pliers GM-Opel, red	80

PIPE COUPLING UNLOCKING TOOL

Pipe connection release clip set for CLIC spring closing pipe coupling

- For the assembly and disassembly of hard to open CLIC spring closure pipe coupling for fuel, air-conditioning, air and hydraulic pipes
- No damage to the compression coupling, fuel pipes and fuel hoses
- Quick and easy separation of the pipes
- Ideally suited to passenger cars, transporters and MPVs
- Suitable for metric couplings
- Special plastic

Application range: Mitsubishi, Honda, Volvo, Nissan



	Ø mm	Weight
115.1095 6 pcs	6 - 8 - 10 - 12 - 15 - 16	60

Pipe connection release clip set for CLIC spring closing pipe coupling

- For the assembly and disassembly of hard to open CLIC spring closure pipe coupling for fuel, air-conditioning, air and hydraulic pipes
- No damage to the compression coupling, fuel pipes and fuel hoses
- Quick and easy separation of the pipes
- Ideally suited to passenger cars, transporters, MPVs, commercial vehicles, tractors, agricultural and construction machinery
- For almost all pipe connections on European, Asian and American vehicle types
- Suitable for metric and imperial couplings
- Special plastic

Application range: Chrysler, Ford, GM, Daihatsu, Honda, Mercedes, Mitsubishi, Nissan, Opel, Saab, Scania, Volvo, Volkswagen, etc.



		Ø mm	Weight
115.1089	7 pcs	6,35 (1/4") - 7,9 (5/16") - 9,5 (3/8") - 12,7 (1/2") - 15,9 (5/8") - 19,0 (3/4") - 22,2 (7/8")	90

consists of:

		Weight
115.1261	Unlocking clip, 1/4"	1
115.1262	Unlocking clip, 5/16"	1
115.1263	Unlocking clip, 3/8"	1
115.1264	Unlocking clip, 1/2"	5
115.1265	Unlocking clip, 5/8"	7
115.1266	Unlocking clip, 3/4"	8
115.1267	Unlocking clip, 7/8"	9

Disassembly tool set for CLIC spring closure pipe coupling

- For the disassembly of hard to open CLIC spring closure pipe coupling for fuel, air-conditioning, air and hydraulic pipes
- No damage to the compression coupling, fuel pipes and fuel hoses
- Quick and easy separation of the pipes
- Ideally suited to passenger cars, transporters, MPVs, commercial vehicles, tractors, agricultural and construction machinery
- For almost all pipe connections on European, Asian and American vehicle types
- Suitable for metric and imperial couplings
- Aluminium

Application range: Chrysler, Ford, GM, Daihatsu, Honda, Mercedes, Mitsubishi, Nissan, Opel, Saab, Scania, Volvo, Volkswagen, etc.



		Ø mm	Weight
115.1285	6 pcs	7,9 (5/16") - 9,5 (3/8") - 12,7 (1/2") - 15,9 (5/8") - 19,0 (3/4") - 22,2 (7/8")	250

consists of:

		Weight
115.1274	Unlocking-Ring, 5/16", aluminum gold, oil and fuel lines, etc	35
115.1275	Unlocking-Ring, 3/8", aluminum blue, oil and fuel lines, etc	36
115.1276	Unlocking-Ring, 1/2", aluminum yellow, oil and fuel lines, etc	36
115.1277	Unlocking-Ring, 5/8", aluminum green, oil and fuel lines, etc	41
115.1278	Unlocking-Ring, 3/4", aluminum black, oil and fuel lines, etc	42
115.1279	Unlocking-Ring, 7/8", aluminum red, oil and fuel lines, etc	43
115.1282	Replacement-Rubber ring-Set, 6- pcs for Unlocking-Rings	1

MASTER pipe connector release clip set for CLIC spring clamp pipe coupling

- For the assembly and disassembly of hard to open CLIC spring closure pipe coupling for fuel, air-conditioning, air and hydraulic pipes
- No damage to the compression coupling, fuel pipes and fuel hoses
- Quick and easy separation of the fuel pipes
- Ideally suited to passenger cars, transporters, MPVs, commercial vehicles, tractors, agricultural and construction machinery
- For almost all pipe connections on European, Asian and American vehicle types
- Suitable for metric and imperial couplings
- Special plastic

Application range: Air-conditioning, fuel and air lines as well as hydraulics lines



		Weight
115.1260	22 pcs MASTER pipe connector release clip set for CLIC spring clamp pipe coupling	1.00

consists of:

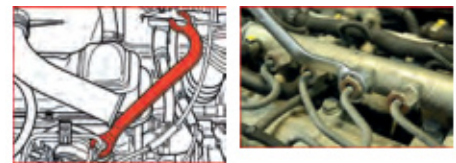
		Weight
115.1261	Unlocking clip 1/4", plastic white, for air conditioning and fuel lines	1
115.1262	Unlocking clip 5/16", plastic white, for air conditioning and fuel lines	1
115.1263	Unlocking clip 3/8", plastic white, for air conditioning and fuel lines	1
115.1264	Unlocking clip 1/2", plastic white, for air conditioning and fuel lines	5
115.1265	Unlocking clip 5/8", plastic white, for air conditioning and fuel lines	7
115.1266	Unlocking clip 3/4", plastic white, for air conditioning and fuel lines	8
115.1267	Unlocking clip 7/8", plastic white, for air conditioning and fuel lines	9
115.1268	Unlocking clip open 5/16", steel black, hydraulic lines	37
115.1269	Barrel-Unlocking with spring, red 3/4", Air conditioning lines 3/8" Nominal size: 6er	12
115.1270	Barrel-Unlocking with spring, blue 1/2", Air conditioning lines 3/8" Nominal size: 8er	13
115.1271	Barrel-Unlocking with spring, black 5/8", Air conditioning lines 3/8" Nominal size: 10	12
115.1272	Barrel-Unlocking with spring, white 3/4", Air conditioning lines 3/8" Nominal size: 12	12
115.1273	Double Unlocking Ring, 5/16"x3/8", for use on air conditioning lines	54
115.1274	Unlocking-Ring, 5/16", aluminum gold, oil and fuel lines, etc	35
115.1275	Unlocking-Ring, 3/8", aluminum blue, oil and fuel lines, etc	36
115.1276	Unlocking-Ring, 1/2", aluminum yellow, oil and fuel lines, etc	36
115.1277	Unlocking-Ring, 5/8", aluminum green, oil and fuel lines, etc	41
115.1278	Unlocking-Ring, 3/4", aluminum black, oil and fuel lines, etc	42
115.1279	Unlocking-Ring, 7/8", aluminum red, oil and fuel lines, etc	43
115.1280	Lever-Release open 5/16", Steel black	84
115.1281	Fork plug-Unlocking, metal black	15
115.1282	Replacement-Rubber ring-Set, 6- pcs for Unlocking-Rings	1

PIPE WRENCH

Double open ring injection spanner

- Special length and design
- For the assembly and disassembly of hard-to-reach injection pipes
- Makes possible simple and time-saving work
- Wrench has single-sided head
- Open 12-point
- Matt finish
- Chrome vanadium

Application range: Audi, Volkswagen, Škoda, etc. e.g. for 1.6 l 4 cyl., 2.0 l 5 cyl., 2.4 l 6 cyl. diesel engines

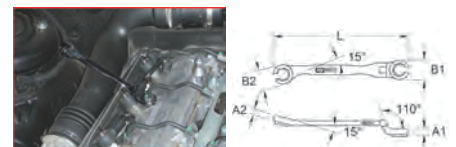


	Weight	mm	L mm	Weight
517.0057	17x17	220.0	140	

CHROMEplus® open double ring spanner, with flexible joint

- Special length and design
- For the assembly and disassembly of hard-to-reach injection, fuel and hydraulic pipes
- Makes simple and time-saving work possible
- Ring 15° angled
- Opening 15° cranked
- with joint
- Open 6-point
- Chrome plated and mirror polished
- Chrome vanadium

Application range: Audi, Volkswagen, Škoda, Opel, etc.



	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	Weight
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
518.0391	22	16.0	16.0	37.0	37.0	218.0	300
518.0392	24	16.0	16.0	40.0	40.0	235.0	372
518.0393	27	17.0	17.0	45.0	45.0	270.0	433

CHROMEplus® open double ring spanner set, with flexible joint

- Special length and design
- For the assembly and disassembly of hard-to-reach injection, fuel and hydraulic pipes
- Makes simple and time-saving work possible
- Ring 15° angled
- Opening 15° cranked
- with joint
- Open 6-point
- Chrome plated and mirror polished
- Chrome vanadium

Application range: Audi, Volkswagen, Škoda, Opel, etc.



518.0350	3 pcs	10 - 11 - 12 mm	220
518.0360	5 pcs	8 - 9 - 10 - 11 - 12 mm	345
518.0370	3 pcs	14 - 17 - 19 mm	610



T-handle box wrench

- 6 point
- T-handle
- Matt finish
- Chrome vanadium



		L mm	B mm	
517.1181	8,0	300,0	200,0	310
517.1182	9,0	300,0	200,0	300
517.1183	10,0	300,0	200,0	310
517.1184	11,0	300,0	200,0	320
517.1185	12,0	300,0	200,0	320
517.1186	13,0	300,0	200,0	330
517.1187	14,0	300,0	200,0	310

T-handle box wrench set

- 6 point
- T-handle
- Matt finish
- Chrome vanadium



517.1180	7 pcs	2.50

consists of:

517.1181	T-handle box wrench, 8mm	310
517.1182	T-handle box wrench, 9mm	300
517.1183	T-handle box wrench, 10mm	310
517.1184	T-handle box wrench, 11mm	320
517.1185	T-handle box wrench, 12mm	320
517.1186	T-handle box wrench, 13mm	330
517.1187	T-handle box wrench, 14mm	310

Injector pipe wrench

- 12-point
- For screw fitting to injection pipes
- Chrome plated and mirror polished
- Chrome vanadium

Application range: Mercedes 100, 130, 314, 360, 360h, 352A, 346/355, 401, 402, 403, 407h, 615, 616, 617

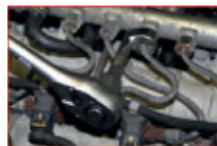


		Length mm	
152.1401	17,0	80,0	150

Open box head spanner

- 12-point
- Internal square drive to DIN 3120/ISO 1174 with ball reception
- Special length and design
- For almost all common vehicle types
- For the assembly and disassembly of hard-to-reach injection pipes
- Makes possible simple and time-saving work
- With opening
- Special steel

Application range: Audi, BMW, Chrysler, Ford Opel, Mercedes, etc.

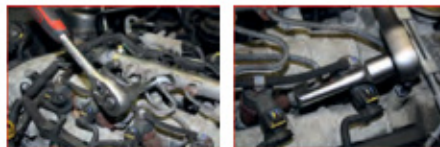


		L mm	
913.1211	12	100,0	122
913.1212	14	100,0	129
913.1213	16	100,0	146
913.1214	17	100,0	140
913.1215	18	100,0	145
913.1216	19	100,0	147

Open box head spanner set

- 12-point
- Internal square drive to DIN 3120/ISO 1174 with ball reception
- Special length and design
- For almost all common vehicle types
- For the assembly and disassembly of hard-to-reach injection pipes
- Makes possible simple and time-saving work
- With opening
- Special steel
- In durable plastic storage case

Application range: Audi, BMW, Chrysler, Ford Opel, Mercedes, etc.



913.1210	6 pcs	1.13

consists of:

913.1211	Open box head spanner, 10mm	122
913.1212	Open box head spanner, 14mm	129
913.1213	Open box head spanner, 16mm	146
913.1214	Open box head spanner, 17mm	140
913.1215	Open box head spanner, 18mm	145
913.1216	Open box head spanner, 19mm	147

INJECTOR NOZZLE TOOL

Injector-socket

- 12-point
- Ideal for assembly and disassembly of injectors
- Internal square to DIN 3120/ISO 1174 with ball reception
- For manual operation
- Matt finish
- Chrome vanadium

Application range: Volkswagen Polo 1.3 l Diesel-Motor, Nissan Terrano TD 25, 27 from 1988



		D1 mm	D2 mm	L mm	
150.2311	22	31,0	25,0	85,0	170

Injector-socket

- 12-point
- Ideal for assembly and disassembly of injectors
- Internal square to DIN 3120/ISO 1174 with ball reception
- For manual operation
- Matt finish
- Chrome vanadium

Application range: for diesel engines Volkswagen, Audi, Mercedes, Opel, Ford, Peugeot, Volvo, Toyota, Mazda, Nissan, Mitsubishi, Daihatsu, etc.



	mm	D1 mm	D2 mm	L mm	kg
150.2312	27	37.0	30.0	85.0	260

Injector-socket

- 6-point
- Ideal for assembly and disassembly of injectors
- Internal square to DIN 3120/ISO 1174 with ball reception
- For manual operation
- Matt finish
- Chrome vanadium

Application range: for diesel engines Volkswagen, Audi, Mercedes, Opel, Ford, Peugeot, Volvo, Toyota, Mazda, Nissan, Mitsubishi, Daihatsu, etc.



	mm	D1 mm	D2 mm	L mm	kg
150.2314	27	35.3	36.7	110.0	260

Injector-socket

- 6-point
- Ideal for assembly and disassembly of injectors
- With side window and opening for connection to nozzle head (E-connection)
- Internal square to DIN 3120/ISO 1174 with ball reception
- For manual operation
- Burnished
- Special steel

Application range: PSA, Ford, Toyota



	mm	Ø mm	mm	L mm	kg
150.2391	25	37,0	22,0	100,0	300

Injector-socket

- 6-point
- Ideal for assembly and disassembly of injectors
- With side window and opening for connection to nozzle head (E-connection)
- Internal square to DIN 3120/ISO 1174 with ball reception
- For manual operation
- Burnished
- Special steel

Application range: 2.0 l DW 10 HDI engines, etc.



	mm	Ø mm	mm	L mm	kg
150.2307	27	38,0	22,0	100,0	280

Injector-socket

- 6-point
- Ideal for assembly and disassembly of injectors
- With side window and opening for connection to nozzle head (E-connection)
- Internal square to DIN 3120/ISO 1174 with ball reception
- For manual operation
- Burnished
- Special steel

Application range: DCI and HDI engines, etc.



	mm	Ø mm	mm	L mm	kg
150.2308	29	42,0	22,0	100,0	340

Injector-socket

- 6-point
- Ideal for assembly and disassembly of injectors
- With side window and opening for connection to nozzle head (E-connection)
- Internal square to DIN 3120/ISO 1174 with ball reception
- For manual operation
- Burnished
- Special steel

Application range: Renault, Nissan, 1.9 l F9Q engines, etc.



	mm	Ø mm	mm	L mm	kg
150.2309	30	43,0	22,0	100,0	360

Injector-socket set

- 6-point
- Ideal for assembly and disassembly of injectors
- With side window and opening for connection to nozzle head (E-connection)
- Internal square to DIN 3120/ISO 1174 with ball reception
- For manual operation
- Burnished
- Special steel
- In durable plastic storage case



	mm	kg
150.2310	4 pcs. Injector-socket set	1.56

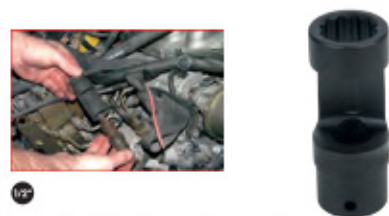
consists of:

	kg
150.2391 1/2" injector-socket, 25,0 mm	300
150.2307 1/2" injector-socket, 27,0 mm	280
150.2308 1/2" injector-socket, 29,0 mm	340
150.2309 1/2" injector-socket, 30,0 mm	360

Injector-socket

- 12-point
- Ideal for assembly and disassembly of injectors
- Internal square to DIN 3120/ISO 1174 with ball reception
- With a side window for guiding the cable of the motion sensor and the return pipe
- For manual operation
- Phosphate
- Chrome molybdenum

Application range: Ford Mondeo from 10/2000 - 02/2007, 2.0 DI, -TDCI, -TDDI, 2.2 TDCI; Ford Transit from 01.2000 - 05/2006, 2.0 DI, -TDCI and 2.4 DI, -TDCI



	mm	D1 mm	D2 mm	L mm	kg
150.9541	21	32,0	34,0	90,0	300

Injector-socket

- 12-point
- Ideal for assembly and disassembly of injectors
- Internal square to DIN 3120/ISO 1174 with ball reception
- With a side window for guiding the cable of the motion sensor and the return pipe
- For manual operation
- Burnished
- Special steel

Application range: Alfa Romeo, Chrysler, Rover, MAN 2.5TD



	mm	D1 mm	D2 mm	L mm	kg
150.2322	28	40,0	33,0	78,0	280

Diesel injector socket

- 6 point
- Special socket key for dismantling and assembly of injectors
- Correct easy and damage free usage
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Ideally suited for commercial vehicles, light commercial, SUV, etc
- Black, tempered surface
- Special steel

Application range: Mercedes Benz, Motor 604 / 605 / 606



1/2"

	mm	L mm	kg
455.0034	22	110.0	250

Diesel injector socket

- 12 point
- Special socket key for dismantling and assembly of injectors
- Correct easy and damage free usage
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Ideally suited for commercial vehicles, light commercial, SUV, etc
- Black, tempered surface
- Special steel

Application range: Mercedes Benz Actros, Motor 457 / 541 / 542, Ford Maverik 2,7 TDI, Nissan Terrano TD 2,5L / 2,7L, Opel Corsa 1,5D / 1,7 TD, Isuzu



1/2"

	mm	L mm	kg
455.0033	22	80.0	250

Diesel injector socket

- 12 point
- Special socket key for dismantling and assembly of injectors
- Correct easy and damage free usage
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Ideally suited for commercial vehicles, light commercial, SUV, etc
- Black, tempered surface
- Special steel

Application range: Suitable for diesel engines from Fiat, Ford, Mercedes Benz and Volkswagen (vans and passenger cars), MAN 2,5 TD



1/2"

	mm	L mm	kg
455.0032	27	78.0	250

Diesel injector socket

- 12 point
- Special socket key for dismantling and assembly of injectors
- Correct easy and damage free usage
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Ideally suited for commercial vehicles, light commercial, SUV, etc
- Black, tempered surface
- Special steel

Application range: MAN 6 cylinder in line D 0226, Chrysler Voyager, Jeep Cherokee, Opel Frontera VM 41 B, Rover, Landrover Discovery Motor VM 2.5L TD



1/2"

	mm	L mm	kg
455.0031	28	78.0	250

Diesel injector socket set

- Special socket key for dismantling and assembly of injectors
- Correct easy and damage free usage
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Ideally suited for commercial vehicles, light commercial, SUV, etc
- Black, tempered surface
- Special steel
- In durable plastic storage case

Application range: MAN, Mercedes Benz Transporter and commercial vehicles, Opel, Fiat, Volkswagen, Ford, Nissan, etc.



1/4"

	kg
455.0030 4 pcs Diesel injector socket set	1.10

consists of:

	kg
455.0031 1/2" Diesel injector socket 12 point, 28mm	250
455.0032 1/2" Diesel injector socket 12 point, 27mm	250
455.0033 1/2" Diesel injector socket 12 point, 22mm	250
455.0034 1/2" Diesel injector socket 6 point, 22mm	250

Injector-socket with bore hole

- Hexagon socket with bore hole
- Ideal for assembly and disassembly of Common Rail couplings
- Internal square to DIN 3120/ISO 1174 with ball reception
- For manual operation
- Chrome plated and mirror polished
- Chrome vanadium

Application range: Bosch injectors in DCI and HDI engines, etc.



1/2"

	mm	D mm	L mm	T mm	kg
152.1057	10	22.0	75.0	35.0	100

Injector socket

- 6-point
- Ideal for assembly and disassembly of injectors
- With side window and opening for connection to nozzle head (E-connection)
- Internal square to DIN 3120/ISO 1174 with ball reception
- External drive hexagonal socket 22.0 mm
- For manual operation
- Burnished
- Special steel

Application range: PSA, Ford, Toyota



1/2"

	mm	Ø mm	Max length mm	kg
152.1195	25.0	37.0	100.0	270

Injector socket

- 6-point
- Ideal for assembly and disassembly of injectors
- With side window and opening for connection to nozzle head (E-connection)
- Internal square to DIN 3120/ISO 1174 with ball reception
- External drive hexagonal socket 22.0 mm
- For manual operation
- Burnished
- Special steel

Application range: 2.0 I DW 10 HDI engines, etc.



1/2"

	mm	Ø mm	Max length mm	kg
152.1196	27.0	38.0	100.0	270

Injector socket

- 6-point
- Ideal for assembly and disassembly of injectors
- With side window and opening for connection to nozzle head (E-connection)
- Internal square to DIN 3120/ISO 1174 with ball reception
- Opened design
- For damage-free assembly and disassembly
- Tempered surface
- Special steel

Application range: Mercedes A- and B-Class, Fiat 1.3MJ



1/2"	mm	Ø mm	Tool length mm	Weight
152.1058	29,0	42,0	78,0	274

Injector socket

- 6-point
- Ideal for assembly and disassembly of injectors
- With side window and opening for connection to nozzle head (E-connection)
- Internal square to DIN 3120/ISO 1174 with ball reception
- External drive hexagonal socket 22.0 mm
- For manual operation
- Burnished
- Special steel

Application range: Mercedes A- and B-Class, Fiat 1.3MJ



1/2"	mm	Ø mm	Tool length mm	Weight
152.1197	29,0	42,0	100,0	342

Injector socket

- 6-point
- Ideal for assembly and disassembly of injectors
- With side window and opening for connection to nozzle head (E-connection)
- Internal square to DIN 3120/ISO 1174 with ball reception
- External drive hexagonal socket 22.0 mm
- For manual operation
- Burnished
- Special steel

Application range: Renault, Nissan, 1.9 l F9Q engines, etc.



1/2"	mm	Ø mm	Tool length mm	Weight
152.1198	30,0	43,0	100,0	358

FUEL FILTER TOOL

Diesel fil er bit socket

- Ideal for releasing and tightening of fuel, coolant and central reinforcement screws
- Also suitable for brass injector inserts
- Makes simple and time-saving work possible
- Ideal length for pump injector engines
- Hexagon socket
- In accordance with DIN 7422
- Internal square drive to DIN 3120/ISO 1174 with ball reception
- Matt finish
- Chrome vanadium

Application range: Audi, Seat, Škoda and Volkswagen



1/2"	mm	L mm	Weight
911.1961	11,0	100,0	100
911.1963	13,0	100,0	100

Fuel fil er wrench for 2.0/2.2 HDI engines

- Special for 2.0/2.2 HDI
- Ideal for releasing and fastening diesel fil ers
- Makes simple and time-saving work possible
- Internal square drive to DIN 3120/ISO 1174
- Matt finish
- Chrome vanadium

Application range: Citroën, Ford, Fiat, Lancia, Land Rover, Mitsubishi, Peugeot, Volvo, etc.



1/2"	mm	L mm	Weight
150.3195	27	42,0	140

Fuel fil er removal tool for JTD engines

- Ideal for releasing and fastening fuel fil er covers
- Necessary for the removal and installation of the fuel fil er cover when changing the fuel fil er insert
- Makes precise torque installation possible
- Prevents damage to the fuel fil er housing and the mounting ring
- Makes simple and time-saving work possible
- Internal square drive to DIN 3120/ISO 1174
- Matt finish
- Chrome vanadium

Application range: Alfa Romeo, Chevrolet, Citroën, Fiat, Lancia, Peugeot, Saab, Suzuki, Opel



1/2"	Weight
150.3113	2 pcs Fuel fil er removal tool for JTD engines 548

consists of:

Part No.	Description	Weight
150.3114	1/2" diesel fil er case wrench	223
150.3124	Diesel fil er clamping device	322

Fuel fil er wrench for Volvo 2.4D/2.4D5 engines

- Ideal for releasing and fastening fuel fil er covers
- Necessary for the removal and installation of the fuel fil er cover when changing the fuel fil er insert
- Makes precise torque installation possible
- Prevents damage to the fuel fil er housing and the mounting ring
- Makes simple and time-saving work possible
- Internal square drive to DIN 3120/ISO 1174
- Matt finish
- Chrome vanadium

Application range: Volvo (e.g. S60, S80, V70, XC70, XC90 with 2.4D and 2.4D5 engines)



1/2"	Ø mm	Weight
150.3121	82,0	200

Fuel fil er wrench for PSA HDI engines

- Ideal for releasing and fastening fuel fil er covers
- Necessary for the removal and installation of the fuel fil er cover when changing the fuel fil er insert
- Makes precise torque installation possible
- Prevents damage to the fuel fil er housing and the mounting ring
- Makes simple and time-saving work possible
- Internal square drive to DIN 3120/ISO 1174
- Matt finish
- Chrome vanadium

Application range: Citroën, Peugeot, Renault, etc.



1/2"	Ø mm	Weight
150.3122	109,0	245

Wrench for VAG fuel pumps

- Ideally suited to assembly and disassembly of fuel pumps
- Internal square in accordance with DIN 3120/ISO 1174
- Special profil
- Aluminium

Application range: Audi, Seat, Skoda, Volkswagen



1/2"	Ø mm	Length mm	Weight
150.3179	100	390,0	700

Oil filler wrench Ø 109.0 mm / 6 grooves

- For the quick and professional installation and dismantling of the oil filler cover when changing the oil filler insert
- Use according to the manufacturer's specification for torque
- Suitable for left and right side operation
- Internal square drive to DIN 3120 - ISO 1174
- For manual operation
- Painted surface

Application range: Fiat, Alfa Romeo, Lancia, Opel, etc. with 1,3L, 1,9L and 2,4L diesel engines



	Grooves	Ø mm	Weight
150.9383	6	109	380

Fuel filler wrench for Mercedes CDI engines

- Ideal for releasing and fastening fuel filler covers
- Necessary for the removal and installation of the fuel filler cover when changing the fuel filler insert
- Makes precise torque installation possible
- Prevents damage to the fuel filler housing and the mounting ring
- Makes simple and time-saving work possible
- Internal square drive to DIN 3120/ISO 1174
- Matt finish
- Chrome vanadium

Application range: Mercedes CDI engines



	Height mm	Length mm	Weight
150.3134	70.0	112.0	240

Fuel filler wrench for PSA HDI engines

- Ideal for releasing and fastening fuel filler covers
- Necessary for the removal and installation of the fuel filler cover when changing the fuel filler insert
- Makes precise torque installation possible
- Prevents damage to the fuel filler housing and the mounting ring
- Makes simple and time-saving work possible
- Internal square drive to DIN 3120/ISO 1174
- Matt finish
- Chrome vanadium

Application range: Citroën, Peugeot, Renault, etc.



	Grooves	Ø mm	Weight
150.9398	8	109.0	480

Universal fuel filler pliers with flexible jaws

- Ideally suited to releasing and tightening the fuel filler cover on hard-to-reach fillers
- Necessary for the removal and installation of the fuel filler cover when changing the fuel filler insert
- Multi-adjustable, two-stage pliers opening makes a large working area possible
- Double-sided 90° jaws, adjustable in 4 positions (45° steps)
- Retaining claws on the jaws prevent slipping when changing the filler
- Prevents damage to the fuel filler housing and the mounting ring
- Makes simple and time-saving work possible
- With PVC dipped handle
- Phosphate
- Chrome vanadium



	Ø mm	Length mm	Weight
150.3129	57,0-120,0	325,0	640

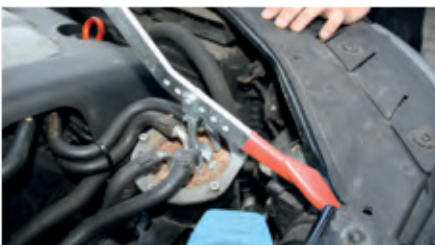
Fuel filler removal bar for UFI fillers

- Ideal for releasing and fastening UFI fuel filler covers
- Necessary for the removal and installation of the fuel filler cover when changing the fuel filler insert
- Multi-adjustable, six-stage lever adjustment opening makes a large working area possible
- Flexible rotary magazine adapter with diverse attachments for corresponding use
- Prevents damage to the fuel filler housing and the mounting ring
- Prevents leakages which may cause engine damage when coming into contact with the timing belt
- Makes simple and time-saving work possible
- Matt finish
- With PVC handle and anchor
- Special tool steel

Application range: Audi, Seat, Škoda and Volkswagen (2.0 TDI CR)



	Length mm	Span mm	Weight
150.3126	420.0	150.3127	480



TANK SENDER WRENCH

2-jaw universal fuel gauge sender unit key

- With 6 point drive
- Ideal for releasing and tightening the fuel filler locking ring from the tank sender to the fuel tank
- Makes simple and time-saving work possible
- Adjustable
- Chrome plated and mirror polished
- Chrome vanadium



	mm	Ø mm	Weight
150.9384	24	80,0 - 120,0	400
150.9385	24	110,0 - 170,0	460

2-jaw fuel sender unit key set

- With 6 point drive
- Ideal for releasing and tightening the fuel filler locking ring from the tank sender to the fuel tank
- Makes simple and time-saving work possible
- Adjustable
- Chrome plated and mirror polished
- Chrome vanadium



	Weight
150.9387 2 pcs. 2-jaw fuel sender unit key set	900

consists of:

		Weight
150.9384	Fuel gauge sender unit key small, adjustable, 80-120 mm	400
150.9385	Fuel gauge sender unit key 2 arm, adjustable, capacity 110 - 170 mm	460

3-jaw universal fuel gauge sender unit key

- With 6 point drive
- Ideal for releasing and tightening the fuel filler locking ring from the tank sender to the fuel tank
- Makes simple and time-saving work possible
- Adjustable
- Chrome plated and mirror polished
- Chrome vanadium



	mm	Ø mm	Weight
150.9386	24	75,0-160,0	570

3-jaw fuel gauge and pump sender collar wrench

- With 6 point drive
- Ideal for releasing and tightening the fuel filler locking ring from the tank sender to the fuel tank
- Makes simple and time-saving work possible
- No damage to the ring by the tool
- Makes work in tight gaps possible
- Less space required
- Quick adjustments
- Special steel tool

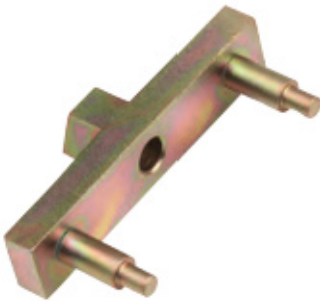


	mm	Ø mm	kg
150.9388	16	87,0 - 170,0	960

Fuel sender wrench for Mercedes W210

- With two pins
- With 6 point drive
- Ideal for releasing and tightening the fuel filler locking ring from the tank sender to the fuel tank on the Mercedes W210 (E Class)
- Makes simple and time-saving work possible
- Special tool steel

Application range: Mercedes W210 (E Class)

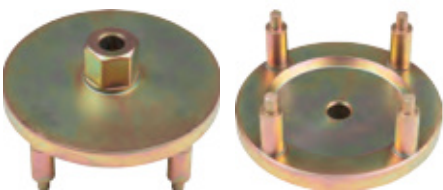


	mm	L mm	kg
150.9389	17	80,0	120

Fuel sender wrench for Mercedes W202

- With 6 point drive
- Ideal for releasing and tightening the fuel filler locking ring from the tank sender to the fuel tank on the Mercedes W202 (C Class)
- Makes simple and time-saving work possible
- With four pins
- Special tool steel

Application range: Mercedes W202 (C Class)



	mm	Ø mm	kg
150.9399	24	108	820

TEST DEVICE

Compression test set

- For quick and exact compression pressure testing of petrol engines
- Includes shock-proof precision manometer diameter 75.00 mm
- Suitable for 14 mm and 18 mm spark plug threads
- Very flexible tube for hard-to-reach places
- Display: psi; kg/cm²
- Universal usage



	kg
152.2067 2 pcs Compression test set	440

consists of:

	kg
152.2068 Compression manometer 0-20 bar	320
152.2069 Adapter	40

Compression tester set, digital

- For quick and exact compression pressure testing of petrol and diesel engines
- Quick and compact coupling to all adapters
- Includes shock-proof precision manometer diameter 75.00 mm 0 - 20 bar
- Very flexible tube for hard-to-reach places
- Display: bar, psi
- Includes 1x 9 V block battery as standard
- Universal usage
- In durable plastic storage case



	kg
152.2030 7 pcs Compression tester set, digital	1.10

consists of:

	kg
152.2031 Compression manometer 0-20 bar	240
152.2032 Adapter M 10 x 1.0	10
152.2033 Adapter M 12 x 1.25	10
152.2034 Adapter M 14 x 1.25	12
152.2036 Hose, l = 450 mm	120
152.2037 Pressure pipe with rubber cap, straight	120
152.2038 Pressure pipe with rubber cap, angled	120

Compression pressure test set for diesel engines

- Important tool for engine diagnosis
- For identifying wear and leaks on piston rings
- Compression pressure test up to 70 bar (1000 psi) possible
- Quick coupling in either straight or angled set up
- Due to the variety of the adapter further applications such as car, wagon, ship and agricultural petrol and diesel engines
- For a long life in daily workshop use
- In durable plastic storage case

Application range: Alfa Romeo, BMW, Chrysler, Daewoo, Fiat, Ford, Hyundai, Isuzu, Land Rover, Mazda, Mercedes, Mitsubishi, Nissan, Opel, PSA, Renault, Saab, Suzuki, Toyota, VAG, Vauxhall, Volvo, etc.



	kg
150.3660 36 pcs Compression pressure test set for diesel engines	4.22

consists of:

Type	kg
150.3661 Manometer with hose, 0-1000 psi, Ø 70 mm	550
150.3662 #1 Glow plugs adapter, M 12 x 1.25 with external thread, length 47 mm	26
150.3663 #2 Glow plugs adapter, M 12 x 1.25 with external thread, length 55 mm	29
150.3664 #3 Glow plugs adapter, M 12 x 1.25 with external thread, length 87 mm	46
150.3665 #4 Injector adapter, M 10 x 1.25 with external thread, length 70 mm	27
150.3666 #5 Injector adapter, M 10 x 1.25 with external thread, length 57 mm	23
150.3667 #6 Injector adapter, M 10 x 1.25 with external thread, length 70 mm	28
150.3668 #7 Injector adapter, M 10 x 1.25 with external thread, length 82 mm	32
150.3669 #8 Injector adapter, M 10 x 1.25 with external thread, length 170 mm	66
150.3670 #9 Glow plugs adapter, M 10 x 1.25 with external thread, length 120 mm	42
150.3671 #10 Injector adapter, M 10 x 1.25 with external thread, length 132 mm	47
150.3672 #11 Glow plugs adapter, M 10 x 1.25 with external thread, length 70 mm	27
150.3673 #12 Glow plugs adapter, M 10 x 1.0 with external thread, length 83 mm	29
150.3674 #13 Glow plugs adapter, M 10 x 1.0 with external thread, length 74 mm	26
150.3675 #15 Glow plugs adapter, M 10 x 1.0 with external thread, length 75 mm	27
150.3676 #16 Glow plugs adapter, M 10 x 1.0 with external thread, length 99 mm	34
150.3677 #17 Glow plugs adapter, M 10 x 1.0 with external thread, length 108 mm	37
150.3678 #18 Glow plugs adapter, M 10 x 1.0 with external thread, length 75 mm	26
150.3679 #19 Glow plugs adapter, M 10 x 1.0 with external thread, length 135 mm	53
150.3680 #20 Glow plugs adapter, M 10 x 1.0 with external thread, length 175 mm	66
150.3681 #21 Glow plugs adapter, M 8 x 1.0 with external thread, length 120 mm	36
150.3682 #26 Injector adapter, length 133 mm	78
150.3683 #27 Injector adapter, M 22 x 1.5, length 92 mm	174
150.3684 #28 Injector adapter, M 24 x 1.5, length 80 mm	151
150.3685 #29 Injector adapter, M 20 x 1.5, length 65 mm	85
150.3686 #30 Injector adapter, M 24 x 2.0, length 72 mm	167
150.3687 #31 Injector adapter with seal, Ø 14 mm	100
150.3688 #32 Injector adapter with seal, Ø 6 mm	97
150.3689 #33 Injector adapter with seal, Ø 17 mm	41
150.3690 #34 Injector adapter with seal, Ø 14 mm	76
150.3691 #35 Injector adapter with seal, Ø 7 mm	38
150.3692 #36 Pressure tube	201
150.3693 #37 Small bridges	38
150.3694 #38 Medium bridges	65
150.3695 #39 Large bridges	88
150.3696 B Angle piece	44

Cylinder leak detector tester set

- For diagnosis of compression pressure loss
- Suitable for analysing inlet and outlet valves, piston rings or cylinder liner, cylinder head or head seal
- Better alternative for compression measurement
- Universal usage
- Integrated pressure reducer
- Necessary working pressure: 1.0 bar
- For use on engines at operating temperature
- In durable plastic storage case

Test results:

Outlet valves not tight:

Air rises in exhaust, manifold and cylinder head on the outlet side

Inlet valves not tight:

Air rises in intake, on cylinder head on the inlet side

Piston rings, pistons, cylinder bore damaged:

Air rises on the crankcase breather or on the dipstick

Cylinder head seal defective:

Air rises in the adjacent cylinder, spark plug bore

Cylinder head seal defective or tear in cylinder head

Air rises or bubble formation in the cooling system or reservoir



			1
150.1780	9 pcs	Cylinder leak detector tester set	2.30

consists of:

			1
150.1781	Test device with dual display: input pressure 0-7 bar + pressure loss display 0-100%	570	
150.1782	Hose 14/18 mm	132	
150.1783	House with adaptor	108	
150.1784	Adaptor M10 x 1.0 mm	280	
150.1785	Adaptor M12 x 1.25 mm	310	
150.1786	Adaptor M14 x 1.25 mm	330	
150.1787	Adaptor M14 x 1.25 mm, long design	550	
150.1788	Spark plug adaptor M12 x 1.25 mm	251	
150.1789	Spark plug adaptor M14 x 1.25 mm	255	

Low fuel pressure diagnosis set

- Ideal for the quick and easy testing of low pressure circuit (fill w pressure and return pressure measurement)
- Quick to find leaks
- Fits all common vehicles
- The pressure loss inspection is carried out via the manometer
- Quick and efficient use
- For the diagnosis of the following basic tests: the supply of fuel from the tank, air bubbles in the fuel system, impurities in the fuel
- In durable plastic storage case

Application range: Commercial vehicles, transporters and MPVs



			1
150.1845	14 pcs	Low fuel pressure diagnosis set	4.00

consists of:

			1
			X
150.1846	2	Adaptor hose Ø 6.0 mm, 2 m long	320
150.1847	1	Manometer 1.0-5.0 bar incl. connection nipple and safety cover	140
150.1848	1	Manometer 1.0-15.0 bar incl. connection nipple and safety cover	140
150.1849	1	T-piece SAE 8 x 20 mm (red)	100
150.1851	1	T-piece SAE 9.5 x 20 mm (grey)	100
150.1852	1	T-piece SAE 10 x 20 mm (green)	120
150.1853	1	T-piece SAE 10 x 30 mm (blue)	120
150.1854	1	T-piece NG8 Type 246 (white)	100
150.1855	1	T-piece Ø 6.0 mm (brown)	60
150.1856	1	T-piece Ø 8.0 mm (orange)	60
150.1857	1	T-piece Ø 10.0 mm (purple)	60
150.1858	1	T-piece 11.8 x 25 mm (light blue)	140
150.1859	1	T-piece SAE 8 x 30 mm (yellow)	100

Fuel system testing and cleaning set

- Makes possible quick, simple and correct operation of the engine, without using the tank filled to the vehicle
- Suitable for diagnosing faults between the tank and high-pressure tank, fuel filter, etc.
- Ideal for fuel systems to release soiling and gunk in the injection system with an exact mix of fuel/cleaning agent
- In durable plastic storage case

Application range: Universally suitable for all vehicles with a naturally aspirated engine



			1
150.1860	43 pcs	Fuel system testing and cleaning set	8.00

consists of:

			1
			X
150.1861	1	10 litre container	1000
150.1861	1	Hand pump with male coupling	280
150.1862	2	Adapter hose Ø 8.0 mm, 4 m long	650
150.1864	1	Adapter set 3 part SAE 8 x 20 mm (red)	120
150.1865	1	Adapter set 3 part SAE 8 x 30 mm (yellow)	120
150.1866	1	Adapter set 3 part SAE 9.5 x 20 mm (grey)	120
150.1867	1	Adapter set 3 part SAE 10 x 20 mm (green)	120
150.1868	1	Adapter set 3 part SAE 10 x 30 mm (blue)	160
150.1869	1	Adapter set 3 part NG8 Type 246 (white)	120
150.1870	1	Adapter set 3 part Ø 6.0 mm (light blue)	200
150.1871	1	Adapter set 3 part Ø 8.0 mm (pink)	180
150.1872	1	Adapter set 3 part Ø 10.0 mm (purple)	100
150.1873	1	Adapter set 3 part 11.8 x 25 mm (brown)	80
150.1874	1	Adapter set 3 part NG12 Type 246 (orange)	100
150.1875	1	Adapter set 3 part Ø 12.0 mm (black)	140
150.2324	2	Double-sided adapter 3/8", short	36
150.2323	1	Double-sided quick coupling 3/8"	74

Common rail injector test assortment with 8 measurement pipes

- Professional test assortment to the misdiagnosis through measurement of the return stroke quantities of high pressure injectors
- Measurement of up to 8 high pressures Injectors simultaneously possible
- Ideal supplement to the engine diagnosis device
- Diesel suitable silicone tubes
- Tube end with coupling and original adapter for safe connection
- Double sealed brass connections in the test tube
- Stable acrylic test block with filli g line scale
- Precise measurement result through 25 ml volumetric capacity in the test tube
- In durable plastic storage case

Application range: Mercedes, BMW, Ford, Renault, Opel, Vauxhall, Toyota, Nissan, Citroen, Volvo, Peugeot etc.



			1
150.1580	65 pcs	Common rail injector test assortment with 8 measurement pipes	3.16

consists of:

			1
			X
150.1581	1	Acrylic-Block	800
150.1582	8	Silicone tube 5.2 x 8.8 x 600 mm	40
150.1584	8	Adapter to acrylic block with O ring	24
150.1594	8	Adaptor for Bosch	10
150.1595	8	Adaptor for Siemens	10
150.1596	8	Adaptor for Denso	10
150.1597	8	Adaptor for Delphi	10
150.1598	8	Double nipple Adaptor for Bosch	30
150.1599	8	Fast fastener coupling	30



Master fuel injection system pressure test set for petrol engines

- Ideal for quick and reliable pressure testing on all common injection systems of petrol engines
- For simple testing of fuel pumps, system pressure sensors and tightness
- Suitable for mechanical and electrical petrol injection systems
- For almost all common, European, Asian and American vehicle types
- Includes shock-proof, large precision manometer Ø 100.0 mm, 0 - 10 bar with rubber cover
- Includes shock-proof, small precision manometer Ø 75.00 mm, 0 - 1 bar especially for the central injection with rubber cover
- Compact quick couplings to all adapters and hoses
- Replacement washers (20 pieces) are available in the set
- In durable plastic storage case

Application range / injection systems: Bosch K-Jetronic, Bosch L/LH-Jetronic, Bosch Motronic, Bosch Motronic-Jetronic, MPFI, TBI, Eci, MPI, EFI, EGI, PGM-Fi, DIGIFANT 1/2, CIS-Digital, Weber CFI, Spi, Singlepoint, Multipoint, Multec SPI, EFI, Simtec EFI, 1-Tec, Magent Marelli G5/G6 Mono, Weber-Marelli 1AW, CFI, Volkswagen 1AW, R Electronc etc.



X	Type	g
150.2325	42 pcs Master fuel injection system pressure test set for petrol engines	4.00

consists of:

X	Type	g
150.2326	1 A Manometer Ø 100.0 mm, 0 - 10 bar with 1/4" quick coupling	360
150.2327	1 B Manometer Ø 75.0 mm, 0 - 1 bar with 1/4" quick coupling	202
150.2328	2 GA Adapter piece M14x1.5 internal thread and 1/4" hose connection	41
150.2329	2 GT Adapter piece M16x1.5 internal thread and 1/4" hose connection	39
150.2340	1 GS Double-sided adapter piece 5/8"x18 internal thread	28
150.2341	2 GV Adapter piece 5/8"x1.8 external thread and 1/4" hose connection	26
150.2342	2 GU Adapter piece M16x1.5 external thread and 1/4" hose connection with sealant ring	48
150.2343	2 GB Adapter piece M14x1.5 external thread and 1/4" hose connection with sealant ring	39
150.2344	1 GC Connection adapter piece M14x1.5 external thread and 16 mm hexagon with sealant ring	37
150.2345	1 AE Adapter piece (long) M8x1.0 external thread and 1/4" hose connection with sealant ring	70
150.2346	1 AB Dual adapter piece M16x1.5 internal and external thread and 3/8" hose connection	65
150.2347	1 AA Dual adapter piece M14x1.5 internal and external thread and 3/8" hose connection	65
150.2348	1 AI Adapter piece M10x1.0 external thread and 1/4" hose connection with sealant ring	35
150.2349	1 AJ Adapter piece M10x1.0 internal thread and 1/4" hose connection	21
150.2360	1 HO Hollow bolt M8x1.0 and 1/4" hose connection	22
150.2361	1 HN Hollow bolt M6x1.0 and 1/4" hose connection	19
150.2362	1 G Manometer connection hose with 1/4" hose connection with valve for Bosch CSI and GM TBI systems	110
150.2363	1 W Manometer connection hose with 1/4" hose connection for Ford EFI systems	324
150.2364	1 F Manometer connection hose with 1/4" hose connection for universal use with 3/8" and 5/16" high-pressure hose connections	160

consists of:

X	Type	g
150.2365	1 C Adapter hose for small Schrader valve 5/16"x32 UNF internal thread and 1/4" hose connection	95
150.2366	1 D Manometer connection hose with 1/4" hose connection including pressure release valve, transparent hose	110
150.2367	1 E Adapter hose for standard Schrader valve 7/16"x20 UNF internal thread and 1/4" hose connection	116
150.2368	1 X Manometer 5/16" quick coupling connection hose with 1/4" hose connection for Ford EFI systems	40
150.2369	1 XA Manometer 5/16" quick coupling connecting hose with 1/4" hose connection for GM TBI systems	55
150.2650	2 AM Adapter piece M8x1.0 external thread and 1/4" hose connection with sealant ring	13
150.2651	2 AK Adapter piece M12x1.5 internal thread and 1/4" hose connection	24
150.2652	1 AL Adapter piece M8x1.0 internal thread and 1/4" hose connection	22
150.2653	1 AC Dual adapter piece M14x1.25 internal and external thread and 1/4" hose connection	63
150.2654	1 AG Adapter piece (long) M8x1.0 internal thread and 1/4" hose connection	64
150.2655	1 HA Adapter piece (long) for 1/4", 3/8", 1/2" hoses and 1/4" hose connection	51
150.2656	1 HE Hollow bolt M14x1.5 and 1/4" hose connection	28
150.2657	1 HR Hollow bolt M12x1.5 and 1/4" hose connection	38
150.2658	1 HO Hollow bolt M12x1.25 and 1/4" hose connection	33
150.2659	1 HP Hollow bolt M10x1.0 and 1/4" hose connection	29
150.2661	1 Replacement sealant ring packet 20 Pieces	10

Diesel injector test device set 0-600 bar

- Table device for the testing of diesel injectors for opening pressure, density and jet shape
- During testing the fluid is injected back in to the storage tank with spray guard
- Fluid container volume 330 cm³
- Piston displacement 35 cm³
- Bolted precision manometer Ø 100.0 mm with protective rubber parts 0-600 bar
- Includes two high pressure pipe adapters
- Device body made from sturdy metal cast
- Test container from shock-proof and diesel resistant plastic with fine filter
- Feet (118 mm x 97 mm) with four bore holes for sturdy mounting onto work bench

For testing the following methods:

- Jet free or blocked
- Opening pressure
- Jet nozzle pattern/nebulisation
- Clasp drip behaviour
- Acoustic inspection (chattering)
- Density of the pressure tube between injection pump and nozzle

Application range:
M14 x 1.5 universal
M12 x 1.25 VAG TDI engines



H mm	g
455.0120	345.0 2.90

consists of:

X	Type	g
455.0121	Connection pipe M14 x M14, 210 mm	80
455.0122	Connection pipe M14 x M12, 210 mm	72
455.0123	Diesel injector test device 0-600 bar	2700

Oil pressure testing equipment

- For the diagnosis of leaks in the oil system
- Compact quick coupling to all adapters
- Includes shock-proof precision manometer diameter 75.00 mm 0 - 10 bar
- Very flexible tube for hard-to-reach places
- Replacement washers are available in the set
- Universal usage
- In durable plastic storage case



X	Type	g
150.1920	12 pcs Oil pressure testing equipment	1.89

X	Type	g
150.1921	Manometer with tube, 10 bar	594
150.1922	90° Adaptor angled	44
150.1920-1	Screw adaptor no 1, R1/8"	23
150.1920-10	Screw adaptor no 10, M18 x 1.5	34
150.1920-2	Screw adaptor no 2, 1/8" x 27 NPT	24
150.1920-3	Screw adaptor no 3, 1/4" x 18 NPT	33
150.1920-4	Screw adaptor no 4, 3/8" x 20 UNF	23
150.1920-5	Screw adaptor no 5, 1/2" x 20 UNF	27
150.1920-6	Screw adaptor no 6, M10 x 1.0	24
150.1920-7	Screw adaptor no 7, M12 x 1.5	24
150.1920-8	Screw adaptor no 8, M14 x 1.5	29
150.1920-9	Screw adaptor no 9, M16 x 1.5	33

TRANSFER PUMPS

Mini transfer pump

- Ideal aid for transferring in emergencies
- Suitable for battery acid, fuels, oils and distilled water
- The hoses are attached to the balloon holder using supplied hose clamps
- Acid-resistant
- Special plastic



Tube inner Ø mm	Tube length mm	g
150.1665	8.0 2 x 900	320

Transfer pump

- Ideal aid for easy transferring and pumping
- Suitable for battery acid, fuels, oils and distilled water
- Acid-resistant
- With high quality pump body and reinforced pump handle
- Special plastic



	Tube inner Ø mm	Tube length mm	Weight kg
150.1660	12.0	2 x 1.300	465

FILLING DEVICE AND AIR VENT DEVICE

Diesel air venting / pre-filling set

- Makes the air venting of many diesel fuel systems possible



	Weight kg
150.9030 7 pcs Diesel air venting / pre-fill g set	700

consists of:

	Weight kg
150.9031 Hose with pump	250
150.9032 Connection piece PSA, 8 mm	50
150.9033 Connection piece PSA, 10 mm	24
150.9034 Connection piece Ford	52
150.9035 Connection piece Renault, GM, Fiat, large	66
150.9036 Connection piece Renault, GM, Fiat, small	48
150.9037 Connection piece GM	53

Diesel filling and air venting device for diesel fuel systems

- Ideal for clean, quick and simple air venting and filling of diesel filler in the pre-installed state
- Suitable for all diesel vehicles and also direct injectors
- Can be used when changing filler, on tanks that have been run empty, on tanks with incorrect fuel inside
- Applicable in pre-installed state - eliminates inconvenient filling out of the vehicle
- Connection carried out on the diesel engine inlet to the engine
- Using a pneumatic connection and actuation of the hand lever a vacuum is created in the diesel filler filling and exhaust device (Venturi effect) therefore sucking out fuel
- Includes universal suitable silicone hose assortment Ø 8-9.5-12 mm
- With high-quality pump housing and strengthened pump head
- The suction hose is resistant to diesel and brake fluid
- With quick coupling system for easy hose exchange
- Polyethylene

Application range: Audi/Volkswagen pump nozzle engines, Diesel direct injectors such as e.g. Mercedes CDI engines, Ford, Opel, BMW, PSA HDI engines, Fiat, etc.



Technical data:

Work pressure:	6-10 bar
Capacity:	1.8 l
Max. fill w rate:	180 l/min

	H mm	Weight kg
150.9355 11 pcs	300.0	1.60

consists of:

	Weight kg
150.9356 Diesel fill er fill g and exhaust base device	885
150.9355-1 PU hose 8.0 x 12.0 mm x 1.5 mm	125
150.9355-2 Quick coupling adapter PU hose 8.0 x 12.0 mm x 1.5 m	20
150.9355-3 PU hose 6.5 x 9.5 mm x 1.5 mm	83
150.9355-4 Quick coupling adapter for PU hose 6.5 x 9.5 mm x 1.5 m	20
150.9355-5 PU hose 4.0 x 8.0 mm x 1.5 mm	73
150.9355-6 Quick coupling adapter for PU hose 4.0 x 8.0 mm x 1.5 m	8
150.9355-7 Silicone hose 8.0 x 12.0 mm x 15 cm	23
150.9355-8 Silicone hose 6.0 x 9.0 mm x 15 cm	14
150.9355-9 Suspension chain	31
150.9355-24 Sealant ring (between container and head)	7

Vacuum fluid extractor suction pump 9.5 litre

- Ideal for quick, clean and simple suction, intake and emptying of fluid
- Suitable for engine oil, transmission oil, hydraulic oil, brake fluid, water, etc.
- For pneumatic use with a compressor or manual use with the integrated hand pump
- Select a suitable probe and suck easily using the vacuum principle
- Suction process automatically stopped when housing is full, preventing fluids from spilling over
- With integrated pressure relief valve for more safety
- With high-quality pump housing and strengthened pump head
- Includes 4 probes for different uses
- Ideally suited to hard-to-reach places thanks to the included, long suction hose
- The suction hose is resistant to petrol and oil
- Polyethylene

Application range: Passenger cars, transporters and MPVs, commercial vehicles, tractors, agricultural and construction machinery, industrial uses



Technical data:

Work pressure:	5-11.5 bar
Capacity:	9.5 l
Operating temperature:	+0°C to +55°C
Filling tube length:	1.5 m
Max. fill w rate:	125 l/min

	Weight kg
160.0790 5 pcs Vacuum fluid extractor suction pump 9.5 litre	5.00

consists of:

	Weight kg
160.0791 Vacuum fluid extractor suction pump 9.5 litre	3708
160.0792 Adaptor and tube 4x8mm x1,5m	200
160.0793 Main probe 7.8 x 9.8 mm x 1 m	200
160.0794 Probe 5.3 x 6.7 mm x 1 m	200
160.0795 Probe 3.5 x 4.5 mm x 1 m	200



A PICTURE IS WORTH A THOUSAND WORDS...

TOOL



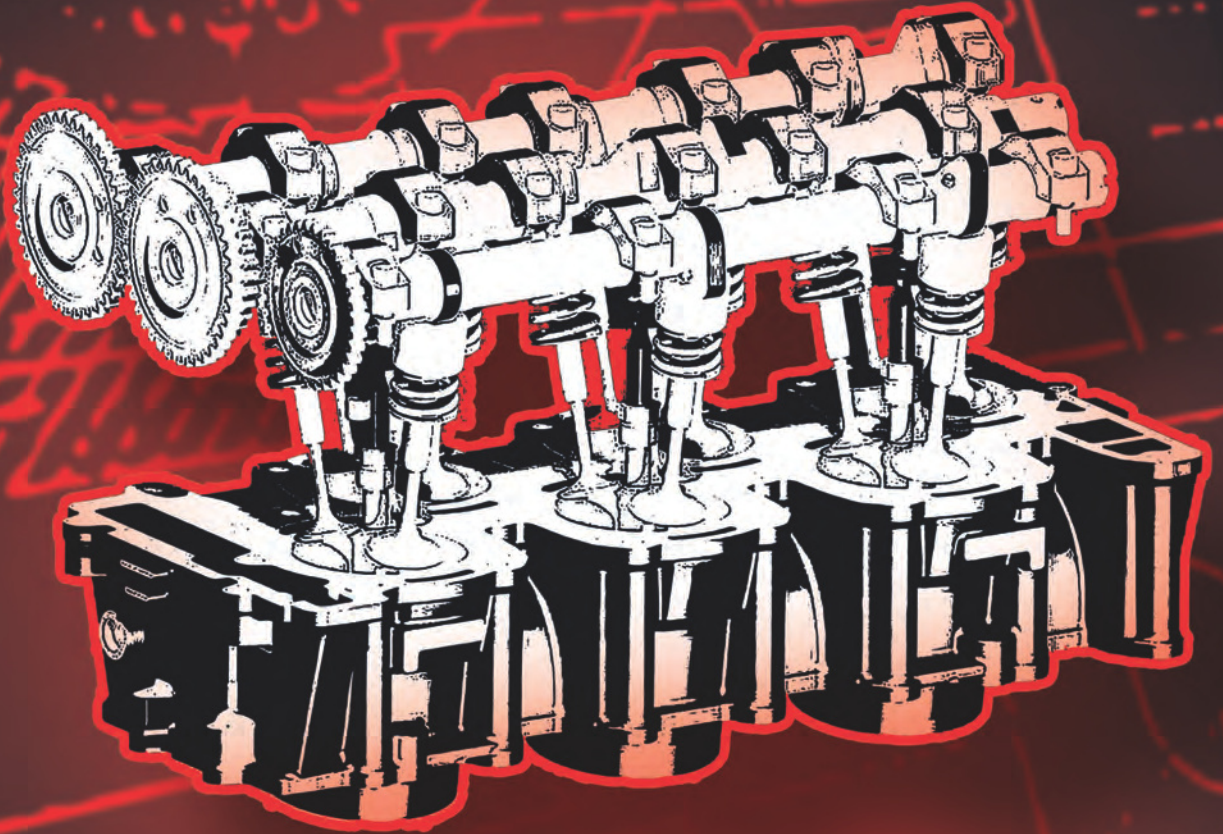
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	PAGE
TOOLS FOR ENGINE BLOCK SCREWS	208 - 209
TOOLS FOR CYLINDER BLOCK SCREWS	209 - 212
VIBRATION DAMPER TOOLS	213
SERVICE STANDS AND PARTS STATIONS	213
SLIDE RAIL BOLTS EXTRACTION TOOLS	213
GUIDE SLEEVES INTERNAL EXTRACTOR	213
EXTRACTION TOOL AND SPIRAL PROFILE SOCKETS	213 - 216
NUT SPLITTER	216 - 217
THREAD BORING TOOL AND BORE JIGS	217
CRANK SHAFT FACING TOOLS	218
VALVE GAUGES	218
VALVE PNEUMATIC ADAPTER	218
VALVE RETAINER AND VALVE SPRING TENSIONER	218 - 220
VALVE SHALT SEALING TOOLS	220 - 221
GASKET SCRAPER	221 - 222
SEALING RING TOOLS	222 - 223
VALVE SEAT CUTTER	224
VALVE CUTTER	224
VALVE WEDGE ASSEMBLY	224
VALVE ADJUSTMENT TOOLS	224 - 225
PISTON RING TOOLS	225
CYLINDER LINER TOOLS	225
CYLINDER HON DEVICES	226
TEST AND MEASURING TOOLS	226 - 228

TOOLS FOR ENGINE BLOCK SCREWS

VAG Engine support socket set, extra short

- 12-point
- For the assembly and removal of the aluminium engine support (hard to reach sites)
- Ideal for timing belt change
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Extra-short design
- For manual operation
- Matt finish
- Chrome vanadium

Application range: For timing belt change on Volkswagen Golf IV, Audi, Skoda, Seat etc.



911.1295	2 pcs	VAG Engine support socket set, extra short	110

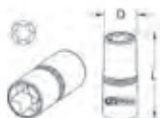
consists of:

911.1293	12-point socket, 16.0 mm, L=30 mm	40	
911.1294	12-point socket, 16.0 mm, L=47.5 mm	67	

TX-E socket for Mercedes, extra-short

- TX-E
- Ideally suited for various engine screws
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Extra-short design
- For manual operation
- Matt finish
- Chrome vanadium

Application range: Engine screws (e.g. various supports, housing cover, etc.) on Mercedes diesel engines 642, 651 and petrol engines 276, 278, 271



911.1288	E12	D mm: 22.0 L mm: 25.0	40

VAG Bit socket for hexagon screws, extra long

- Hexagon socket with ball head
- For releasing and tightening the TDC sensor
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Extra-long design
- For manual operation
- Matt finish
- Chrome vanadium

Application range: VAG models from 2005, 4-cylinder 2.0l diesel engines



911.1598	4.0	D mm: 11.0 L mm: 300.0	80

Bit socket for five star tamperproof screws

- Five star bit, tamperproof
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Matt finish
- Chrome vanadium

Application range: Control devices, alternator, air quantity meter, exterior mirror, insertion pumps for pump-line-nozzle system, door lock fastening screw for Volkswagen, Audi, Ford, Mercedes, Rover, Seat, Skoda, Volvo etc.



	D	D mm	L mm	T mm	Q
911.1471	TS8	12.0	25.0	5.0	10
911.1471	TS10	12.0	25.0	6.0	10
911.1472	TS15	12.0	25.0	6.0	10
911.1473	TS20	12.0	25.0	7.0	10
911.1474	TS25	12.0	25.0	7.0	10
911.1475	TS27	12.0	25.0	8.0	10
911.1476	TS30	12.0	25.0	8.0	10
911.1477	TS40	12.0	25.0	9.0	10

Bit socket set for tamperproof five star screws

- Five star bit, tamperproof
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- For manual operation
- Matt finish
- Chrome vanadium
- Includes storage rail

Application range: Control devices, alternator, air quantity meter, exterior mirror, insertion pumps for pump-line-nozzle system, door lock fastening screw for Volkswagen, Audi, Ford, Mercedes, Rover, Seat, Skoda, Volvo etc.



911.1470	7 pcs	TS10 - TS15 - TS20 - TS25 - TS27 - TS30 - TS40	160

CLASSIC Bit for tamperproof five star bits

- Five star bit, tamperproof
- With external hexagon drive to DIN 3126 / ISO 1173 - C 6.3
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Nickel plated
- Special steel

Application range: Control devices, alternator, air quantity meter, exterior mirror, insertion pumps for pump-line-nozzle system, door lock fastening screw for Volkswagen, Audi, Ford, Mercedes, Rover, Seat, Skoda, Volvo etc.



	L mm	Count	Q
911.3101	TS10	30.0	1 5
911.3102	TS15	30.0	1 5
911.3103	TS20	30.0	1 5
911.3104	TS25	30.0	1 6
911.3105	TS27	30.0	1 6
911.3106	TS30	30.0	1 6
911.3107	TS40	30.0	1 8

CLASSIC Bit set for tamperproof five star screws

- Five star bit, tamperproof
- With external hexagon drive to DIN 3126 / ISO 1173 - C 6.3
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Nickel plated
- Special steel

Application range: Control devices, alternator, air quantity meter, exterior mirror, insertion pumps for pump-line-nozzle system, door lock fastening screw for Volkswagen, Audi, Ford, Mercedes, Rover, Seat, Skoda, Volvo etc.



911.1480	8 pcs	TS10 - TS15 - TS20 - TS25 - TS27 - TS30 - TS40	50

Five star profile tamperproof key wrench set

- Long design
- Bore hole at the short and long end
- Continuous hardened
- Matt chrome
- Special steel

Application range: Control devices, alternator, air quantity meter, exterior mirror, insertion pumps for pump-line-nozzle system, door lock fastening screw for Volkswagen, Audi, Ford, Mercedes, Rover, Seat, Skoda, Volvo etc.



151.2470	9 pcs	TS10 - TS15 - TS20 - TS25 - TS27 - TS30 - TS40 - TS45 - TS50	330

ERGOTORQUE® screwdriver for TX screws, long

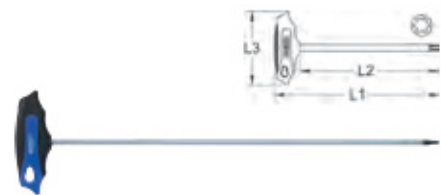
- One component handle
- Optimal power transmission
- With hanging hole
- Hardened blade
- Chrome finish with burnished tips
- Blade made of chrome vanadium



	L1 mm	L2 mm	L3 mm	Q	
911.1670	T15	330.0	250.0	80.0	60
911.1671	T20	343.0	250.0	93.0	60
911.1672	T25	345.0	250.0	95.0	70
911.1673	T30	360.0	250.0	110.0	70

ERGOTORQUEplus® T-handle TX key wrench, long

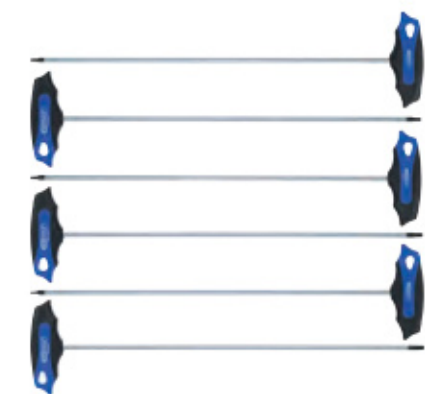
- Extra long execution
- With two component handle
- Continuous hardened
- Tip burnished
- Chrome plated and mirror polished
- Special steel



		L1 mm	L2 mm	L3 mm	Wt kg
158.8051	T10	403.0	373.0	80.0	30
158.8052	T15	403.0	373.0	80.0	30
158.8053	T20	403.0	373.0	100.0	40
158.8054	T25	408.0	373.0	100.0	40
158.8055	T27	408.0	373.0	100.0	40
158.8056	T30	408.0	373.0	100.0	45

ERGOTORQUEplus® T-handle TX key wrench set

- Extra long execution
- With two component handle
- Continuous hardened
- Tip burnished
- Chrome plated and mirror polished
- Special steel

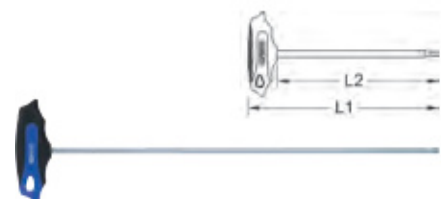


		Wt kg
158.8050	6 pcs. T10 - T15 - T20 - T25 - T27 - T30	375

ERGOTORQUEplus® T handle RIBE profile xtra long

- Extra-long design
- With 2 component handle
- Continuous hardened
- Chrome plated and mirror polished
- Special steel

Application range: e.g. valve cover and spark plug cover for Alfa Romeo, Fiat, Lancia etc.



		L1 mm	L2 mm	Wt kg
158.5121	M4	280.0	250.0	100
158.5122	M5	280.0	250.0	100
158.5123	M6	280.0	250.0	100
158.5124	M7	280.0	250.0	130
158.5125	M8	280.0	250.0	145
158.5126	M9	280.0	250.0	145
158.5127	M10	290.0	250.0	316

TOOLS FOR CYLINDER BLOCK SCREWS

ERGOTORQUE® precision torque wrench with rotary mushroom ratchet head

- Actuation accuracy: $\pm 3\%$ tolerance of the set scale value
- Precise reading accuracy for a minimum 5.000 tightening cycles
- For controlled fastening in clockwise and counter clockwise directions
- Torque setting by pulling out and pushing in the slide in knob at the end of the handle
- The direction of rotation (clockwise and counter clockwise) can be changed by simply rotating the square drive piece
- Double scale in N·m and lb·ft divisions for precise adjustment
- Includes micrometer scale in N·m divisions for precise and fine adjustment
- Large vision panel, precise adjustment using a magnifying glass
- An audible and palpable signal when the desired torque value is achieved
- Exact gearing 30 teeth ratchet mechanism
- Torque setting is quick and easy using the locking knob in the handle end
- Secure locking function within the handle
- Two component handle with a soft zone, is ergonomic in design and comfortable in the hand
- Square drive adaptor to DIN 3120 - ISO 1174 with ball lock
- Individually marked with serial number unique product identification
- Includes test certificate in accordance with DIN EN ISO 6789:2003 national standard

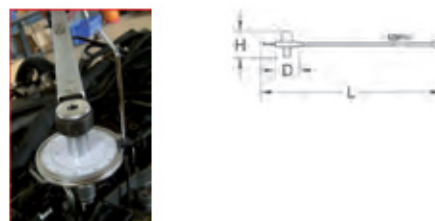


1/4" 3/8" 1/2" 3/4" T

	N·m	Division N·m	lb·ft	L mm	D mm	H mm	Wt kg
516.1412	1/4"	1-25	0.10	0,8 - 18	289.0	35.0	18.0
516.1422	3/8"	5-50	0.25	4 - 37	350.0	45.0	23.0
516.1432	1/2"	10-100	0.50	8 - 75	412.0	45.0	23.0

Rotary angle disc

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



	Arm	Flank	D mm	H mm	L mm	Wt kg
516.1195	1/2"	1/2"	magnet	2"	67.0	63.0
516.1196	1/2"	1/2"	claw	2"	67.0	63.0

Cylinder head bit socket for TX screws, extra-long

- TX
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long execution
- Press fitted nickel plated insert bit
- For manual operation
- Matt finish
- Chrome vanadium



		D mm	L mm	T mm	Wt kg
911.1937	T40	22	140.0	72.0	125
911.1938	T45	22	140.0	72.0	125
911.1939	T50	22	140.0	72.0	125
911.1940	T55	22	140.0	72.0	125

Cylinder head bit socket for TX screws, long

- TX
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long design
- With press fitted nickel plated insert bit
- For manual operation
- Matt finish
- Chrome vanadium

Application range: e.g. Ford 1.8l Diesel (Turbo), Fiesta, Escort, Sierra and Mazda 121 >1996



		D mm	L mm	T mm	Wt kg
911.1517	T70	22.0	110.0	72.0	120

Cylinder head bit socket for spline (XZN®) screws, long

- Spline (XZN®)
- For loosening and tightening cylinder head screws
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long design
- With press fitted nickel plated insert bit
- For manual operation
- Matt finish
- Chrome vanadium

Application range: e.g. cylinder head screws on Toyota Corolla 1.4L Yaris 1.0l and VM diesel engines (e.g. Chrysler), Volkswagen, Audi, Opel etc.



		D mm	L mm	T mm	Wt kg
911.1350	M5	22.0	110.0	72.0	107
911.1351	M6	22.0	110.0	72.0	109
911.1352	M8	22.0	110.0	72.0	109
911.1359	M9	22.0	110.0	72.0	112
911.1353	M10	22.0	110.0	72.0	112
911.1354	M12	22.0	110.0	72.0	138
911.1355	M14	22.0	110.0	72.0	179
911.1356	M16	22.0	110.0	72.0	250

Cylinder head bit socket for spline (XZN®) screws, extra-long

- Spline (XZN®)
- For loosening and tightening cylinder head screws
- This length allows deep seated and difficult to access cylinder head screws to be removed and inserted without problem
- Internal square in accordance with DIN 3121 / ISO 1174
- Extra-long design
- With press fitted nickel plated insert bit
- For manual operation
- Matt finish
- Chrome vanadium

Application range: Japanese cars with petrol engines, e.g. Daihatsu, Toyota etc.



		D mm	L mm	Weight
911.1394	M9	22.0	140.0	72

Cylinder head impact bit socket for RIBE® screws, extra-long

- For RIBE® screws
- Internal square drive to DIN 3121 / ISO 1174
- Extra long execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum



		D mm	L mm	Weight
911.1395	M9 / M10	25.0	128.0	110

Cylinder head impact bit socket for RIBE® screws, extra-long

- RIBE®
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Extra-long design
- With press fitted nickel plated insert bit
- For manual operation
- Matt finish
- Chrome vanadium

Application range: Polydrive cylinder head screws for VAG



		Ø mm	L mm	Weight
515.1281	M10	22.0	165.0	160

Cylinder head bit socket for RIBE® screws, long

- For tamperproof RIBE® profil
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long execution
- Press fitted nickel plated insert bit
- For manual operation
- Matt finish
- Chrome vanadium



		D mm	L mm	T mm	Weight
911.3951	M5	22.0	110.0	72.0	120
911.3952	M6	22.0	110.0	72.0	120
911.3953	M7	22.0	110.0	72.0	120
911.3954	M8	22.0	110.0	72.0	120
911.3955	M9	22.0	110.0	72.0	130
911.3956	M10	22.0	110.0	72.0	130
911.3957	M12	22.0	110.0	72.0	150
911.3958	M13	22.0	110.0	72.0	180
911.3959	M14	22.0	110.0	72.0	180

Cylinder head bit socket set for RIBE® screws, long

- For RIBE® screws
- RIBE® profile or tamperproof screws
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long design
- With press fitted insert bit
- For manual operation
- Matt finish
- Chrome vanadium
- Includes storage rail

Application range: Fiat Bravo, Brava, Alfa Romeo, Lancia Dedra, Tipo, Tempra, diesel engines 1.9 – 2.5l; Opel 1.9l DTH (Fiat-Motor), Audi, Seat, Škoda, Volkswagen etc.



		Weight
911.1630	9 pcs M5 - M6 - M7 - M8 - M9 - M10 - M12 - M13 - M14	1.24

Cylinder head surface drive socket, long

- Special profile (Surface-Drive)
- For loosening and tightening cylinder head screws
- Internal square in accordance with DIN 3121 / ISO 1174
- Long design
- For machinery usage
- Phosphate
- Chrome molybdenum

Application range: PSA (all new engines >2005)



		Ø mm	D mm	L mm	Weight
515.1277		13.0	20.5	77.0	120

Cylinder head 12-point socket, long

- 12-point
- For loosening and tightening cylinder head screws
- Internal square in accordance with DIN 3121 / ISO 1174
- Long design
- For machinery usage
- Phosphate
- Chrome molybdenum

Application range: Honda, Mitsubishi, Toyota, Suzuki



		Ø mm	D mm	L mm	Weight
515.1276		10.0	15.5	130.0	225

Cylinder head TX-E socket, long

- TX-E
- For loosening and tightening TX-E cylinder head screws
- With incorporated retaining ball for accurate removing of the bolt
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long design
- For manual operation
- Matt finish
- Chrome vanadium

Application range: M 42 1.8l, 4 cylinder engine with four-valve technology 318is from 1989, M50 2.0l, 2.5l, 6 cylinder with four-valve technology 5 series from 1991, Audi V6 engine, Opel, Mercedes CDI engines etc.



		L mm	Weight
911.4451	E10	150.0	260
911.4452	E12	150.0	260
911.4453	E14	150.0	260
911.4454	E16	150.0	260
911.4455	E18	150.0	260
911.4456	E20	150.0	260

Cylinder head TX-E socket set, long

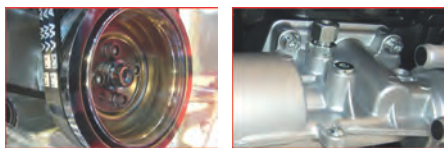
- TX E
- For loosening and tightening TX E cylinder head screws
- With incorporated retaining ball for accurate removing of the bolt
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long execution
- For manual operation
- Matt finish
- Chrome vanadium
- In durable plastic storage case



		Weight
911.4450	6 pcs E10 - E12 - E14 - E16 - E18 - E20	1.90

Cylinder head 12-point impact socket set, short

- 12 point
- Internal square drive to DIN 3121 / ISO 1174
- Short execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum
- In durable plastic case



515.0950	10 pcs	8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 mm	1,65
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Cylinder head 12-point impact socket set, long

- 12 point
- Internal square drive to DIN 3121 / ISO 1174
- Short execution
- For machinery usage
- Phosphate finish
- Chrome molybdenum
- In durable plastic case



515.0900	13 pcs	10 - 12 - 13 - 14 - 15 - 16 - 17 - 19 - 20 - 21 - 22 - 23 - 24 mm	2,80
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Cylinder head bit socket set for TX PLUS screws

- Ideal set compilation for TX and TX PLUS screws
- With external hexagon drive to DIN 3126 / ISO 1173 Form C 6,3 and C 8
- Can be used by hand or with an electric screwdriver
- Ideally suited for fittings in trade and industry
- Reinforced execution
- Nickel plated
- Special steel
- In durable plastic storage box

Applications for TX PLUS:

Opel (Corsa) / Volkswagen Passat / Fiat 1,3 / 1,4 / Toyota / Nissan / Renault / Subaru / GM / Ford etc.
e.g.: flywheel / timing belt housing cover / general engine / transmission

Applications for TX PLUS:

Volkswagen, Mercedes Benz (passenger car+HGV Actros/Atego), Audi, Bosch, MAN, Ford, Opel, John Deere, etc.
e.g.: plug-in pumps of pump-line-nozzle systems, air mass meters, EWS3 immobiliser controller / injection pumps / alternators, etc.



911.3120	22 pcs	TX PLUS socket set	432
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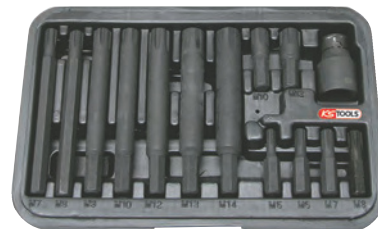
consists of:

911.3101	1/4" CLASSIC bit for fi e star, bore hole, TS10	5
911.3102	1/4" CLASSIC bit for fi e star, bore hole, TS15	5
911.3103	1/4" CLASSIC bit for fi e star, bore hole, TS20	5
911.3104	1/4" CLASSIC bit for fi e star, bore hole, TS25	6
911.3106	1/4" CLASSIC bit for fi e star, bore hole, TS30	6
911.3240	1/4" CLASSIC TX PLUS bit, 30 mm, IP10	5
911.3241	1/4" CLASSIC TX PLUS bit, 30 mm, IP15	6
911.3242	1/4" CLASSIC TX PLUS bit, 30 mm, IP20	5
911.3243	1/4" CLASSIC TX PLUS bit, 30 mm, IP25	5
911.3244	1/4" CLASSIC TX PLUS bit, 30 mm, IP30	5
911.3260	10mm CLASSIC TX PLUS bit, 30 mm, IP40	13
911.3261	10mm CLASSIC TX PLUS bit, 30 mm, IP45	14
911.3262	10mm CLASSIC TX PLUS bit, 30 mm, IP50	16
911.3263	10 mm CLASSIC TX PLUS bit, IP55	20
911.3264	10 mm CLASSIC TX PLUS bit, IP60	25
911.4327	1/4" bit adaptor socket, with clamping ring	10
911.4311	3/8" bit adaptor socket, for bits 10 mm	30
911.3121	10 mm CLASSIC bit for fi e star, bore hole, TS40	10
911.3122	10 mm CLASSIC bit for fi e star, bore hole, TS45	11
911.3123	10 mm CLASSIC bit for fi e star, bore hole, TS50	11
911.3124	10 mm CLASSIC bit for fi e star, bore hole, TS55	13
911.3125	10 mm CLASSIC bit for fi e star, bore hole, TS60	22



Cylinder head impact bit socket set for RIBE® screws

- Ideal set compilation for RIBE® screws
- External hexagon drive to DIN 3126 / ISO 1173 form C 8
- Can be used by hand, electric screwdriver and impact drivers
- Ideally suited for fittings in trade and industry
- Reinforced execution
- Precise arrangement of the popular 5/16" RIBE® bits
- Phosphate finish
- Special steel
- In durable plastic storage case

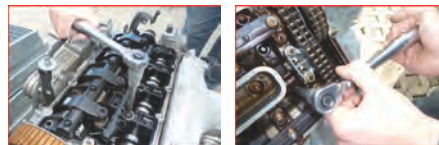


911.4306	14 pcs	CLASSIC Bit set	820
1 x		1/2"	
6 x		M5 - M6 - M7 - M8 - M10 - M12	
7 x		M7 - M8 - M9 - M10 - M12 - M13 - M14	

Cylinder head bolt socket set

- Range of all current inserts for cylinder head screws
- Correct and quick engine repair
- Chrome vanadium
- In durable plastic storage case

Application range: Audi, Seat, Škoda, Volkswagen from 1996, Mercedes 6/8/12 cylinder engines, Opel, Ford, Japanese models, Renault, Opel (V6) and BMW from 1990



911.4460	11 pcs	Cylinder head bolt socket set	1,51
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consists of:

911.4452	1/2" TX-E-socket, long, E12	260
911.4453	1/2" TX-E-socket, long, E14	260
911.1940	1/2" bit socket TX, T55, 140 mm	125
911.1942	1/2" bit socket TX, T70, 140 mm	125
911.1359	1/2" bit socket XZN, M9, 110 mm	112
911.1970	1/2" bit socket XZN, M10, 140 mm	125
911.1972	1/2" bit socket XZN, M12, 140 mm	125
911.1995	1/2" bit socket for RIBE® screws, M12, 110 mm	175
911.1996	1/2" bit socket for RIBE® screws, M13, 110 mm	175
911.1997	1/2" bit socket for RIBE® screws, M14, 110 mm	175
911.1395	1/2" impact bit socket for RIBE screws, XL	110

Cylinder head screws socket wrench set

- Matt finish
- Chrome vanadium
- In durable plastic storage case

Application range: Cylinder head screws, air quantity meter, oil drain plugs, gearbox oil, airbag, brake saddle, etc.



1/4" 1/2"

			9
911.4500	38 pcs	Automotive bit socket set	6.50

consists of:

			9
911.1701	1/4" Bit socket fire star tamperproof, TS10	10	
911.1702	1/4" Bit socket fire star tamperproof, TS15	10	
911.1703	1/4" Bit socket fire star tamperproof, TS20	10	
911.1704	1/4" Bit socket fire star tamperproof, TS25	10	
911.1705	1/4" Bit socket fire star tamperproof, TS27	10	
911.1706	1/4" Bit socket fire star tamperproof, TS30	10	
911.1707	1/4" Bit socket fire star tamperproof, TS40	10	
911.1708	1/4" Bit socket fire star tamperproof, TS45	10	
911.1709	1/4" Bit socket fire star tamperproof, TS50	10	
911.1314	1/2" Bit socket hexagon, short, 14mm	120	
911.1317	1/2" Bit socket hexagon, short, 17mm	150	
911.1319	1/2" Bit socket hexagon, short, 19mm	200	
911.1322	1/2" Bit socket hexagon, short, 22mm	200	
911.1324	1/2" Bit socket hexagon, short, 24mm	200	
911.1348	1/2" Bit socket spline (XZN) tamperproof, M16, 55 mm	140	
911.0954	1/2" Impact bit socket for spline (XZN) screws, 75mm, M18	146	
911.1925	1/2" Bit socket RIBE, M9, 110mm	112	
911.1359	1/2" Bit socket spline (XZN), M9, 110 mm	112	
911.1356	1/2" Bit socket spline (XZN), M16, 110 mm	250	
911.1632	1/2" Bit socket TX tamperproof T80 long	125	
911.1960	1/2" Bit socket hexagon, 10mm, 140mm	90	
911.1961	1/2" Bit socket hexagon, long, 11mm	100	
911.1963	1/2" Bit socket hexagon, long, 13mm	100	
911.1937	1/2" Bit socket TX, T40, 140mm	125	
911.1938	1/2" Exhaust regulation valve socket for Opel, 140mm, T45	125	
911.1939	1/2" Bit socket TX, T50, 140mm	125	
911.1940	1/2" Bit socket TX, T55, 140mm	125	
911.1941	1/2" Bit socket TX, T60, 140mm	125	
911.1942	1/2" Bit socket TX, T70, 140mm	125	

consists of:

			9
911.1970	1/2" Bit socket spline (XZN), M10, 140 mm	125	
911.1972	1/2" Bit socket spline (XZN), M12, 140 mm	125	
911.1974	1/2" Bit socket spline (XZN), M14, 140 mm	125	
911.1685	Ball head hex bit socket, 1/2", 5x160mm	125	
911.1327-240	Hexagonal bit socket, 1/2", 7x240mm	185	
911.1993	1/2" Bit socket RIBE, M7, 240mm	175	
911.1994	1/2" Bit socket RIBE, M8, 240 mm	175	
911.1980	1/2" Bit socket RIBE, M10, 140mm	194	
911.1624-300	Bit socket TX tamperproof, 1/2", T30, 300mm	125	

Cylinder head bit socket set for RIBE® scr ews

- Ideal configuration for the most common RIBE® cylinder head screws
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Short and long design
- With press fitted insert bit
- For manual operation
- Matt finish
- Chrome vanadium
- In durable plastic storage case

Application range: Fiat, Alfa Romeo, Lancia, Opel, Audi, Seat, Skoda, Volkswagen etc.



1/2"

			9
911.4530	32 pcs	RIBE® bit socket set	5.46

consists of:

			9
911.4511	Bit socket for RIBE® scr ews, M5, length 55 mm	32	
911.4512	Bit socket for RIBE® scr ews, M6, length 55 mm	34	
911.4513	Bit socket for RIBE® scr ews, M7, length 55 mm	35	
911.4514	Bit socket for RIBE® scr ews, M8, length 55 mm	35	
911.4515	Bit socket for RIBE® scr ews, M9, length 55 mm	36	
911.4516	Bit socket for RIBE® scr ews, M10, length 55 mm	37	
911.4517	Bit socket for RIBE® scr ews, M12, length 55 mm	39	
911.4518	Bit socket for RIBE® scr ews, M13, length 55 mm	39	
911.4519	Bit socket for RIBE® scr ews, M14, length 55 mm	40	
911.1921	1/2" bit socket for RIBE® scr ews, M5, 110 mm	108	
911.1922	1/2" bit socket for RIBE® scr ews, M6, 110 mm	108	
911.1923	1/2" bit socket for RIBE® scr ews, M7, 110 mm	109	
911.1924	1/2" bit socket for RIBE® scr ews, M8, 110 mm	109	
911.1925	1/2" bit socket for RIBE® scr ews, M9, 110 mm	112	
911.1926	1/2" bit socket for RIBE® scr ews, M10, 110 mm	112	
911.1995	1/2" bit socket for RIBE® scr ews, M12, 110 mm	175	
911.1996	1/2" bit socket for RIBE® scr ews, M13, 110 mm	175	
911.1997	1/2" bit socket for RIBE® scr ews, M14, 110 mm	175	

consists of:

			9
911.4521	Bit socket for RIBE® scr ews, M8, length 140 mm	130	
911.4522	Bit socket for RIBE® scr ews, M9, length 140 mm	131	
911.1980	1/2" bit socket for RIBE® scr ews, M10, 240 mm	194	
911.4506	Bit socket for RIBE® scr ews, M10.3, length 140 mm	132	
911.4523	Bit socket for RIBE® scr ews, M12, length 140 mm	163	
911.4524	Bit socket for RIBE® scr ews, M13, length 140 mm	202	
911.4525	Bit socket for RIBE® scr ews, M14, length 140 mm	205	
911.4508	Bit socket for RIBE® scr ews, M8, length 200 mm	175	
911.4526	Bit socket for RIBE® scr ews, M9, length 200 mm	175	
911.4509	Bit socket for RIBE® scr ews, M10, length 200 mm	175	
911.4507	Bit socket for RIBE® scr ews, M10.3, length 200 mm	175	
911.4528	Bit socket for RIBE® scr ews, M12, length 200 mm	220	
911.4529	Bit socket for RIBE® scr ews, M13, length 200 mm	280	
911.4531	Bit socket for RIBE® scr ews, M14, length 200 mm	285	

Cylinder head bit socket set for Spline (XZN®) scr ews

- Vielzahl (XZN®)
- Ideal for the most common cylinder head screws
- Matt finish
- Chrome vanadium
- In durable plastic storage case



1/2"

			9
911.1635	26 pcs	XZN® socket set	4.46

consists of:

			9
911.1340	1/2" bit socket XZN, M5, 55 mm	80	
911.1341	1/2" bit socket XZN, M6, 55 mm	80	
911.1342	1/2" bit socket XZN, M8, 55 mm	90	
911.1313	1/2" bit socket XZN, M9, 55 mm	95	
911.1343	1/2" bit socket XZN, M10, 55 mm	100	
911.1344	1/2" bit socket XZN, M12, 55 mm	100	
911.1345	1/2" bit socket XZN, M14, 55 mm	110	
911.1346	1/2" bit socket XZN, M16, 55 mm	140	
911.1350	1/2" bit socket XZN, M5, 110 mm	107	
911.1351	1/2" bit socket XZN, M6, 110 mm	109	
911.1352	1/2" bit socket XZN, M8, 110 mm	109	
911.1359	1/2" bit socket XZN, M9, 110 mm	112	
911.1353	1/2" bit socket XZN, M10, 110 mm	112	
911.1354	1/2" bit socket XZN, M12, 110 mm	138	
911.1355	1/2" bit socket XZN, M14, 110 mm	179	
911.1391	1/2" Bit socket XZN®, M5 , length 140 mm	67	
911.1392	1/2" Bit socket for XZN®, M6, length 140 mm	68	
911.1393	1/2" Bit socket for XZN®, M8, length 140 mm	71	
911.1394	1/2" Bit socket XZN®, M9 , length 140 mm	72	
911.1970	1/2" bit socket XZN, M10, 140 mm	125	
911.1972	1/2" bit socket XZN, M12, 140 mm	125	
911.1974	1/2" bit socket XZN, M14, 140 mm	125	
911.1593	1/2" Bit socket XZN®, M8 , length 200 mm	70	
911.1594	1/2" Bit socket for XZN® scr ews, M10, 200 mm	71	
911.1596	1/2" Bit socket XZN®, M12 , length 200 mm	110	
911.1597	1/2" Bit socket XZN®, M14 , length 200 mm	160	

VIBRATION DAMPER TOOLS

BMW Vibration damper holding screw set

- For clamping the crank shaft when loosening and tightening the crankshaft central screw
- Prevents slipping whilst holding
- With replaceable and tight-fit guide sleeves (Ø 57.0 / 59.5 / 60.5 mm)
- Minimal force required thanks to extra-long lever
- Matt finish
- Chrome vanadium

Application range: When working on the timing drive of BMW M47 TU / TU2 engines with old and new vibration damper design



911.1720	5 pcs	BMW Vibration damper holding screw set	4.60
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consists of:

911.1721	Extension pipe, 1000 mm	1900
911.1722	Vibration damper holding wrench insert, 22.0 mm	1400
911.1723	Guide sleeve, Ø 57.0 mm	380
911.1724	Guide sleeve, Ø 59.5 mm	440
911.1725	Guide sleeve, Ø 60.5 mm	480

VAG pulley wheel counter hold wrench

- For the professional engine repair
- Simple assembly and disassembly of the crank shaft pulley wheel or vibration dampers
- Special profile allows for counter holding when releasing or securing the crank shaft central screw
- The handle can be lengthened via the 3/4" internal square
- Very high degree of accuracy

Application range: VAG group vehicles with 2.4 engines, in particular Volkswagen T2, T3, T4 Transporter, LT, Golf, Passat and Audi (engine code: AAB, AJA, ADG, ABL, 1X, 1Y, 1W, 1V, CS, CW, KY, JR, JX, JD, JP, 1Z, AAT, AEL, AAZ, AHU, AFN, AEY, AVG, ALE, AFF, AHH, ACV, AHY, AJT, AUF, AXG, AXL, AYC)

Please carry out an up-to-date cross reference test for the specific vehicle on www.timingtools.de

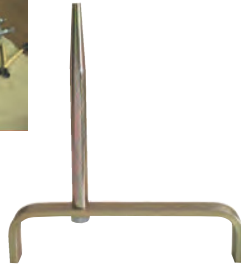


400.9042	VAG	714
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SERVICE STANDS AND PARTS STATIONS

Cylinder head service pillar

- Suitable for all current cylinder heads
- Especially for engines with horizontal camshafts
- Damage free working on the cylinder head
- Special steel



150.1170	Cylinder head service pillar	4.20
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Parts storage for cylinder head components

- Ideal organisational aid for the systematic storage of small parts from the cylinder head
- Suitable for all cylinder heads
- No-loss work on cylinder heads
- Made from rugged plastic



	L mm	B mm	H mm	kg
150.1173	404.0	450.0	230.0	1.70

SLIDE RAIL BOLTS EXTRACTION TOOLS

Puller set for slide rail bolts

- Allows simple removal for chain slide rail bolts
- For repair without cooler removal
- Includes tension bolts and adapter screw
- Special steel

Application range: for chain slide rail bolts for Mercedes, BMW etc.



700.1135	5 pcs	Puller set for slide rail bolts	580
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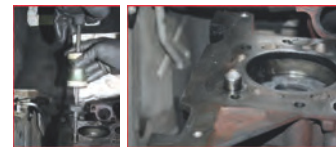
consists of:

700.1136	Basic pullers	520
700.1137	Tension bolts M8 x 30 mm	5
700.1138	Tension bolts M6 x 60 mm	20
700.1139	Tension bolts M8 x 60 mm	20
700.1141	Adapter disk	15

GUIDE SLEEVES INTERNAL EXTRACTOR

Guide sleeves internal puller set for engines and gearboxes

- Damage-free removal and insertion of guide sleeves on engines and gearboxes
- Prevents damage to the guide sleeves from possible use of pliers or a hammer
- Centring shaft
- Enormous time and cost saving
- Universal usage
- Special steel
- In durable plastic storage case



700.1520	7 pcs	Guide sleeves internal puller set for engines and gearboxes	2.40
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consists of:

700.1521	Impact hammer M8x1,25	1320
700.1522	Collet for internal Ø 5 mm	80
700.1523	Collet for internal Ø 6 mm	80
700.1524	Collet for internal Ø 7 mm	80
700.1525	Collet for internal Ø 8 mm	80
700.1526	Collet for internal Ø 9 mm	80
700.1527	Collet for internal Ø 10 mm	80

EXTRACTION TOOL AND SPIRAL PROFILE SOCKETS

Epoxy metal Quicksteel

- Optimal adhesive power
- Enables durable repair
- Mechanical preparation after the curing possible
- Firmly set after 15 minutes
- Cures after 60 minutes completely
- Also suitable for use under water
- Temperature resistant up to 260
- Approx three years use duration
- Resistant to oil, diesel, petrol and battery acid

Application range: Metal, glass, plastic, ceramics, wood, concrete optical fiber reinforced plastic, etc.



500.1015	Epoxy metal Quicksteel	80
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Screw grab screw assistance

- Increases the static friction by up to 400%
- Residue free washes off and non-toxic
- Immediate effect without waiting
- Applicable for all screw heads
- Unlimited storage

Application range: In rounded turned screw heads



Contents		
500.1010	15 ml	250

Stud bolt puller

- For screwing in or extracting out stud bolts
- Clockwise and anticlockwise clamping function
- Also suitable for extra long stud bolts
- Special steel



	Ø mm	max N·m	●	📏
670.0231	5 - 15	120	19 mm	360
670.0232	10 - 19	120	19 mm	400
670.0233	18 - 28	120	19 mm	450

Stud bolt puller

- For screwing in or extracting out stud bolts
- Clockwise and anticlockwise clamping function
- Also suitable for extra long stud bolts
- Special steel



	Ø mm	max N·m	●	📏
670.0241	5 - 20	120	19 mm	400

Stud bolt puller

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- External drive hexagon socket 21 mm
- Right and left hand clamping function
- Safe clamping due to 3 rollers
- Stud screws can be screwed in or out without using counter nuts on the bolt
- Also for extra long studs that will go through the through socket
- Chrome plated and mirror polished
- Chrome vanadium



		📏
152.1005	M5	150
152.1006	M6	160
152.1007	M7	160
152.1008	M8	170
152.1010	M10	180
152.1012	M12	200
152.1014	M14	200
152.1016	M16	303
152.1018	M18	838
152.1002	M20	818
152.1003	M22	748
152.1004	M24	728
152.1029	M30	1677

Screw bolt puller set

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- External drive hexagon socket 13.0 mm
- Right and left hand clamping function
- Safe clamping due to 3 rollers
- Stud screws can be screwed in or out without using counter nuts on the bolt
- Also for extra long studs that will go through the through socket
- Chrome plated and mirror polished
- Chrome vanadium
- In durable plastic storage case



	📏
152.1100	4 pcs M5 - M8 - M10 - M12

Screw bolt puller set

- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- External drive hexagon socket 21 mm
- Right and left hand clamping function
- Safe clamping due to 3 rollers
- Stud screws can be screwed in or out without using counter nuts on the bolt
- Also for extra long studs that will go through the through socket
- Chrome plated and mirror polished
- Chrome vanadium
- In durable plastic case



		📏
152.1101	7 pcs M5 - M6 - M7 - M8 - M10 - M12 - M14	1.50

Spiral extractor

- Extra-short design
- With external drive hexagonal socket 13.0 mm
- Slightly conical tapered spiral
- Can also be used for broken screws and stud bolts
- Counter effect motion guarantees easy extraction
- Special steel

Application range: Hexagon head, brakes + Water pumps, Spline drives etc.



	D	L mm	📏
150.1371	1/8"	36.0	20
150.1373	3/16"	36.0	20
150.1375	1/4"	36.0	20
150.1379	3/8"	36.0	20
150.1381	1/2"	36.0	20
150.1386	3 mm	36.0	20
150.1387	4 mm	36.0	20
150.1388	5 mm	36.0	20
150.1389	5.5 mm	36.0	30
150.1390	6 mm	36.0	30
150.1391	8 mm	36.0	30
150.1392	10 mm	36.0	30
150.1393	11 mm	36.0	30
150.1394	12 mm	36.0	40
150.1395	14 mm	36.0	40

Captive bolt extractor set

- Extra short execution
- With hexagon drive SW 13
- Slightly conical tapered spiral
- Applicable also for dismantled screws and stand bolt
- Counter effect motion guarantees easy extraction
- Special steel
- In durable plastic storage case

Application range: Hexagon head, brakes + water pumps, spline drives etc.



150.1385	15 pcs	Captive bolt extractor set	360
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consists of:

150.1371	Extractor 1/8"	20	
150.1373	Extractor 3/16"	20	
150.1375	Extractor 1/4"	20	
150.1379	Extractor 3/8"	20	
150.1381	Extractor 1/2"	20	
150.1386	Extractor 3 mm	20	
150.1387	Extractor 4 mm	20	
150.1388	Extractor 5 mm	20	
150.1389	Extractor 5.5 mm	30	
150.1390	Extractor 6 mm	30	
150.1391	Extractor 8 mm	30	
150.1392	Extractor 10 mm	30	
150.1393	Extractor 11 mm	30	
150.1394	Extractor 12 mm	40	
150.1395	Extractor 14 mm	40	

Stud bolt extraction and insertion tool set

- For screwing in or extracting out stud bolts
- With external hexagonal socket drive 17.0 mm and 19.0 mm
- Very fl t compact and compact design
- Clockwise and anticlockwise clamping function
- Also suitable for extra-long stud bolts
- Special steel
- In durable plastic storage case



670.0255	12 pcs	Stud bolt extraction and insertion tool set	544
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consists of:

670.0256	Expansion sleeve, 2 pcs. M10 x 1,5	60	
670.0257	Expansion sleeve, 2 pcs. M10 x 1,25	60	
670.0258	Expansion sleeve, 2 pcs. M8 x 1,25	40	
670.0259	Expansion sleeve, 2 pcs. M6 x 1,0	60	
670.0263	Mounting sleeve, M10 x 1,5	40	
670.0264	Mounting sleeve, M10 x 1,25	40	
670.0266	Mounting sleeve, M8 x 1,25	40	
670.0267	Mounting sleeve, M6 x 1,0	40	

Screw extractor set

- For screws from M3 - M18
- Enable the loosening of screws and bolts with turned off heads
- Conical tapered spiral
- In durable plastic storage case



150.1330	6 pcs	M3-M6 - M6-M8 - M8-M11 - M11-M14 - M14-M18 - M18-M24	64
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Spiral profile socket set

- Very fl t compact and robust execution
- Rejuvenating special profile with aggressive spiral nut
- Bites firmly to give a firm connection between stuck nut and head
- Can be used with a socket or ring spanner
- Phosphate finish
- Chrome molybdenum



		mm	
913.3881	M8	16,0	10
913.3882	M10	16,0	10
913.3883	M11	18,0	10
913.3884	M12	19,0	10
913.3885	M13	19,0	20
913.3886	M14	21,0	20
913.3887	M15	23,0	20
913.3888	M16	24,0	30
913.3889	M17	26,0	40
913.3890	M19	27,0	40

Spiral profile socket nut set

- For loosening and unscrewing of fixed bolt and nuts with damaged "round turned" threads or heads
- Special, left handed cutting edge thread with 6 conical reducing cutting edges
- Very fl t compact and robust execution
- The drive can be used alternatively with a socket ring or combination spanner
- In durable plastic case



913.3880	10 pcs	M8 - M10 - M11 - M12 - M13 - M14 - M15 - M16 - M17 - M19	300
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Spiral profile impact socket

- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Rejuvenating special profile with aggressive spiral nut
- For turning off of screws with rounded or turned heads
- Bites firmly to give a firm connection between stuck nut and head
- Phosphate finish
- Chrome molybdenum



	mm	D mm	L mm	
913.1473	6,0	17,0	32,0	40
913.1408	8,0	17,0	32,0	40
913.1410	10,0	17,0	32,0	40
913.1470	11,0	17,0	32,0	40
913.1412	12,0	17,0	32,0	40
913.1413	13,0	19,0	32,0	40

Spiral profile socket set

- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Rejuvenating special profile with aggressive spiral nut
- For turning off of screws with rounded or turned heads
- Bites firmly to give a firm connection between stuck nut and head
- Phosphate finish
- Chrome molybdenum
- Includes storage rail



913.1450	4 pcs	Spiral profile socket set	200
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Spiral profile impact socket

- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Rejuvenating special profile with aggressive spiral nut
- For turning off of screws with rounded or turned heads
- Bites firmly to give a firm connection between stuck nut and head
- Phosphate finish
- Chrome molybdenum



	mm	D mm	L mm	
913.3860	10,0	15,0	34,0	30
913.3861	11,0	16,0	34,0	30
913.3862	12,0	18,0	34,0	40
913.3863	13,0	18,5	34,0	40
913.3864	14,0	20,5	34,0	40
913.3865	15,0	22,0	34,0	60
913.3866	16,0	22,5	34,0	60
913.3867	17,0	24,5	34,0	70
913.3868	18,0	26,0	34,0	80
913.3869	19,0	27,0	34,0	80

Spiral profile i pact socket

- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Rejuvenating special profile with aggressive spiral nut
- For turning off of screws with rounded or turned heads
- Bites firmly to give a firm connection between stuck nut and head
- Phosphate finish
- Chrome molybdenum



	mm	L mm	Ø
913.1469	12,0	34,0	40
913.1468	13,0	34,0	50
913.1467	14,0	34,0	70
913.1466	15,0	34,0	70
913.1465	17,0	34,0	70
913.1464	19,0	34,0	90
913.1249	19,0	50,0	90
913.1250	20,0	50,0	110
913.1463	21,0	34,0	90
913.1252	22,0	50,0	120
913.1253	23,0	50,0	130
913.1462	24,0	34,0	110
913.1255	25,0	50,0	150
913.1461	27,0	34,0	110



Spiral profile socket set

- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Rejuvenating special profile with aggressive spiral nut
- For turning off of screws with rounded or turned heads
- Bites firmly to give a firm connection between stuck nut and head
- Phosphate finish
- Chrome molybdenum



	mm	L mm	Ø	
913.3850	4 pcs		Spiral profile socket set	200

consists of:

	mm	L mm	Ø	
913.3858	3/8"		Spiral profile socket, 8 mm	30
913.3860	3/8"		Spiral profile socket, 10 mm	30
913.3862	3/8"		Spiral profile socket, 12 mm	40
913.3863	3/8"		Spiral profile socket, 13 mm	40

Spiral profile i pact socket set

- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Rejuvenating special profile with aggressive spiral nut
- For turning off of screws with rounded or turned heads
- Bites firmly to give a firm connection between stuck nut and head
- Drive out pin
- Phosphate finish
- Chrome molybdenum
- In durable plastic case



	mm	L mm	Ø	
913.3855	10 pcs		Spiral profile i pact socket set	660

consists of:

	mm	L mm	Ø	
913.3860	3/8"		Spiral profile socket, 10 mm	30
913.3861	3/8"		Spiral profile socket, 11 mm	30
913.3862	3/8"		Spiral profile socket, 12 mm	40
913.3863	3/8"		Spiral profile socket, 13 mm	40
913.3864	3/8"		Spiral profile socket, 14 mm	40
913.3865	3/8"		Spiral profile socket, 15 mm	60
913.3866	3/8"		Spiral profile socket, 16 mm	60
913.3867	3/8"		Spiral profile socket, 17 mm	70
913.3869	3/8"		Spiral profile socket, 19 mm	80
913.3870			Burr arbor	30

Spiral profile i pact socket set

- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Rejuvenating special profile with aggressive spiral nut
- For turning off of screws with rounded or turned heads
- Bites firmly to give a firm connection between stuck nut and head
- Drive out pin
- Phosphate finish
- Chrome molybdenum
- In durable plastic case



	mm	L mm	Ø	
913.1460	15 pcs		Spiral profile i pact socket set	1.10

8 x		1/2": 13 - 14 - 15 - 17 - 19 - 21 - 24 - 27 mm
5 x		1/4": 6 - 8 - 10 - 11 - 12 mm
2 x		1/4"

NUT SPLITTER

Mechanical nut splitter

- For the splitting of seized or over tightened bolts without damage to the bolt thread
- Suitable for nuts to a tensile strength class 6
- Special steel



	mm	L mm	Height of head mm	for nut	Ø
700.1181	12,0	76,0	9 mm	9-12 mm	90
700.1182	14,0	93,0	11 mm	12-16 mm	170
700.1183	19,0	124,0	16 mm	16-22 mm	380
700.1184	21,0	150,0	18 mm	22-27 mm	660

Mechanical nut splitter set

- For the splitting of seized or over tightened bolts without damage to the bolt thread
- Suitable for nuts to a tensile strength class 6
- Special steel



	mm	L mm	Ø	
700.1180	4 pcs		Mechanical nut splitter set	1.58

consists of:

	mm	L mm	Ø	
700.1181			Nut splitter 9 - 12 mm, drive 12 mm	90
700.1182			Nut splitter 12 - 16 mm, drive 14 mm	170
700.1183			Nut splitter 16 - 22 mm, drive 19 mm	380
700.1184			Nut splitter 22 - 27 mm, drive 21 mm	660

Hydraulic nut splitter

- Small execution
- Suitable for nuts to a tensile strength class 10
- Work pressure max. 5 t
- Especially suitable for narrow hard to access areas



	mm	D	L mm	Ø
700.1150	7-21	M4 - M14	210,0	700

Hydraulic nut splitter set

- Large execution
- Suitable for nuts to a tensile strength class 10
- Work pressure max. 13 t
- In durable plastic storage case



700.1160	4 pcs	22 - 36 mm; M14 - M24	3.80
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consists of:

700.1161	Replacement chisel large	100
700.1162	Replacement plate large	100
700.1163	Nut splitter	3600
151.2073	Hexagon key 3/8" for replacement plate large	110

Hydraulic nut splitter set

- For the splitting of seized or over tightened bolts without damage to the bolt thread
- Working range from 7.0 - 36.0 mm
- Inductively hardened cutting edge
- Suitable for nuts to a tensile strength class 10
- Requires light expenditure of energy
- Special steel



700.1170	7 pcs	Hydraulic nut splitter set	5.00
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consists of:

700.1150	Hydraulic nut splitter 7.0 - 21.0 mm	700
700.1163	Nut splitter	3600
700.1151	Replacement chisel small	50
700.1152	Replacement plate small	50
700.1161	Replacement chisel large	100
700.1162	Replacement plate large	100
151.2073	Hexagon key 3/8" for replacement plate large	110

THREAD BORING TOOL AND BORE JIGS

Stud extractor set

- Set contents for extensive applications
- For removing of threaded bolts, studding and screws
- No damage of the thread
- Only negligible enlarging of the threaded bolt through special profile extractor pin
- For screws and bolts M5 - M16
- Special steel
- In durable plastic storage case



150.1305	25 pcs	Stud extractor set	650
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extractor:

	Size mm	Ø mm	Ø	Thread	L mm	Extractor pin incl. thrust bolt	g
150.0521	1	3,2	1/8"	M5 - M6	60,0	150.0511S	150
150.0522	2	4,8	3/16"	M7 - M8	70,0	150.0512S	180
150.0523	3	6,4	1/4"	M9 - M10	78,0	150.0513S	230
150.0524	4	8,0	5/16"	M12	83,0	150.0514S	300
150.0525	5	8,7	11/32"	M14 - M16	94,0	150.0515S	350

extractor nut:

	Size mm	Pin dim	mm	L mm	g
150.0511	1	1	10,0	16,0	130
150.0512	2	2	11,0	16,0	230
150.0513	3	3	13,0	16,0	350
150.0514	4	4	14,0	16,0	470
150.0515	5	5	17,0	16,0	590

drill:

	Ø mm	Ø	Drill bush	L mm	g
150.1305-21	3,2	1/8"	1 - 4	65,0	20
150.1305-22	4,8	3/16"	5 - 7	86,0	20
150.1305-23	6,4	1/4"	8	101,0	20
150.1305-24	8,0	5/16"	9	117,0	20
150.1305-25	8,7	11/32"	10	125,0	20

bushes:

	Size mm	Ø1 mm	Ø2 mm	Ø3 mm	Ø4 mm	Ø3	Ø4	L mm	g
150.0501	1	6,0	5,0	4,0	3,2	5/32"	1/8"	30,0	3
150.0502	2	8,0	6,0	4,8	3,2	3/16"	1/8"	30,0	8
150.0503	3	9,0	7,0	4,8	3,2	3/16"	1/8"	30,0	10
150.0504	4	10,0	8,0	4,8	3,2	3/16"	1/8"	30,0	14
150.0505	5	10,0	8,0	6,0	4,8	9/32"	3/16"	30,0	12
150.0506	6	11,0	9,0	7,0	4,8	9/32"	3/16"	30,0	14
150.0507	7	12,0	10,0	7,0	4,8	9/32"	3/16"	30,0	18
150.0508	8	13,0	11,0	7,0	4,8	9/32"	3/16"	30,0	22
150.0509	9	13,0	11,0	9,0	6,5		1/4"	30,0	17
150.0510	10	14,0	12,0	9,5	6,5	3/8"	1/4"	30,0	21

Cylinder head bore jig set

- Permits the quick and accurate boring out of broken or torn out stud screws on cylinder heads or exhaust flanges directly on the vehicle
- Universal usage
- High time savings of up to 4 hours
- Cylinder head does not need to be removed
- Straight boring out of old screw
- In durable plastic storage case

Application range: Can be used universally on cylinder heads or exhaust flanges with bolt threads M8 and M10



150.7040	28 pcs	Cylinder head bore jig set	1.36
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consists of:

	x		g
150.7030	1	Drilling template	120
150.7031	3	Centring pin, conical	40
150.7032	3	Guide sleeve, Ø 8.0 mm	20
150.7033	3	Guide sleeve, Ø 10.0 mm	20
150.7034	2	Hexagon collar nut, M8	12
150.7035	2	Hexagon collar nut, M10	18
150.7036	1	Drill bush with cylinder pin, 4.0 mm	35
150.7037	1	Drill bush with cylinder pin, 6.5 mm	30
150.7038	1	Drill bush with cylinder pin, 8.5 mm	25
150.7039	1	Guide sleeve, M8	60
150.7041	1	Guide sleeve, M10	60
150.7042	1	Drilling stop with cylinder screws, 4.0 mm	40
150.7043	1	Drilling stop with cylinder screws, 6.5 mm	40
150.7044	1	Drilling stop with cylinder screws, 8.5 mm	40
150.7045	1	Hexagonal key socket wrench, 2 mm	8
150.7046	1	Hexagonal key socket wrench, 4 mm	13
150.7047	1	Hexagonal key socket wrench, 5 mm	22
150.7048	1	Special spiral drill, Ø 4.0 mm	14
150.7049	1	Special spiral drill, Ø 6.5 mm	23
150.7050	1	Special spiral drill, Ø 8.5 mm	28



CRANK SHAFT FACING TOOLS

Face milling attachment for crank shaft mating surfaces

- Precise repair of damaged mating surfaces on the front of the crank shaft
- Prevents repeated loosening of the toothed belt wheel by reworking the mating surfaces
- Accurately guided mill using the centring pin
- Front is reworked precisely on angles and planes
- Correct seat of the new toothed belt wheel

Application range: Audi, Volkswagen, Ford, Seat, Škoda 1.9l diesel engines, 5-cylinder engines (engine code: e.g. ACV, AHY), 4-cylinder engines with crank shaft thread M16x1.5 engine code AGR, Volkswagen 5-cylinder engine code ACV from engine number 048 995 and AAB from engine number 424 606



150.7010	4 pcs	Face milling attachment for crank shaft mating surfaces	385
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consists of:

150.7011	Face milling cutter, Ø 35.0 mm	150
150.7012	Cleaning brush	11
150.7013	Special socket	65
150.7014	Centring bolts, M14 x 1.5 x 73 mm	50

VALVE GAUGES

Feeler gauge

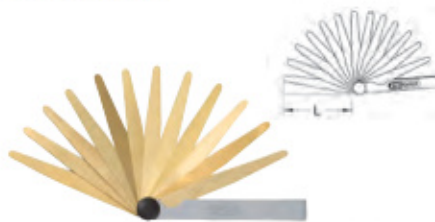
- For the testing of intervals, contact distances, etc.
- Feeler gauge conical tapered
- Fixing nut
- Leaves individually marked with size
- Blades made out of hardened spring steel



Tool part	L mm	Measuring range mm	Weight
300.0600	20	100.0	88

Antimagnetic brass feeler gauge

- For the testing of intervals, contact distances, etc.
- Feeler gauge conical tapered
- Fixing nut
- Leaves individually marked with size
- Blades made of brass



Tool part	Measuring range mm	L mm	Weight
300.0611	8	0,05-0,1-0,15-0,2-0,25-0,3-0,4-0,5	100.0 55
300.0612	13	0,05-0,1-0,15-0,2-0,25-0,3-0,4-0,5-0,6-0,7-0,8-0,9-1,0	100.0 70
300.0613	20	0,05-0,1-0,15-0,2-0,25-0,3-0,35-0,4-0,45-0,5-0,55-0,6-0,65-0,7-0,75-0,8-0,85-0,9-0,95-1,0	100.0 85

Piston tolerance gauge

- For the testing of intervals, contact distances, etc.
- Feeler gauge cylindrical
- Blades fan shaped on a ring
- Leaves individually marked with size
- Blades made out of hardened spring steel



Tool part	Measuring range mm	L mm	Weight
300.0614	8	0,05-0,1-0,15-0,2-0,25-0,3-0,4-0,5	150.0 30
300.0617	8	0,05-0,1-0,15-0,2-0,25-0,3-0,4-0,5	200.0 50
300.0615	13	0,05-0,1-0,15-0,2-0,25-0,3-0,4-0,5-0,6-0,7-0,8-0,9-1,0	150.0 80
300.0618	13	0,05-0,1-0,15-0,2-0,25-0,3-0,4-0,5-0,6-0,7-0,8-0,9-1,0	200.0 150
300.0616	20	0,05-0,1-0,15-0,2-0,25-0,3-0,35-0,4-0,45-0,5-0,55-0,6-0,65-0,7-0,75-0,8-0,85-0,9-0,95-1,0	150.0 150

VALVE PNEUMATIC ADAPTER

Valve pneumatic adapter

- For holding up the installed valves when removing and fitting the valve fixing wedges on the cylinder head
- Suitable for spark plug thread M14 x 1.25 and M18 x 1.5
- Ideal when replacing the valve shaft seals without removing the cylinder head
- With 13 mm hexagon pneumatic connection and rubber rings for sealing
- Special steel



Length mm	Weight
515.1002	140.0 240

Valve pneumatic adapter, flexible

- For holding up the installed valves when removing and fitting the valve fixing wedges on the cylinder head
- Can be used universally in place of the spark plugs or glow plugs
- Ideal when replacing the valve shaft seals without removing the cylinder head
- For hard to reach spark plugs and glow plugs too
- Can also be used as an adapter for pressure loss testing
- Flexible reinforced hose



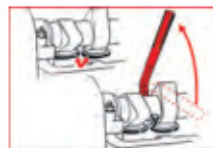
Length mm	Weight
515.1043	M12 x 1,25 250.0 150
515.1041	M14 x 1,25 250.0 150
515.1042	M10 x 1,25 250.0 150

VALVE RETAINER AND VALVE SPRING TENSIONER

Tappet retainer

- Required for valve adjustment
- For retaining the tappet
- Functional area additionally surface hardened
- Phosphate
- Chrome vanadium

Application range: all 4 / 5 / 6-cylinder engines with tappet



Length mm	Weight
150.0909	245.0 220

Valve retainer

- For the suppression of the cup valve stem for the removal of the valve platelets
- Special steel

Application range: Opel-Diesel 1.5 D + 1.7 DT-Isuzu Renault 1.7 Diesel, Engines F2N + F3N + F8Q z.B. Clio, R19, R21, R9, Super 5 Volvo Diesel 340, 440, 460 + 480 Engines B 172K + B 18KD, Mazda 323 S - 1.7 TD



Length mm	Weight
150.1211	145.0 445