

Sockets Hexagon Pro Torque®

mm	6.3mm □ 1/4"		10mm □ 3/8"		12.5mm □ 1/2"		20mm □ 3/4"	25mm □ 1"
	short	deep	short	deep	short	deep	short	short
3,5	2473							
4	2474	10504						
4,5	2475							
5	2476	10505						
5,5	2477	10503						
6	2478	10506						
7	2479	10507						
8	2480	10508		10528	2908	9355		
9	2481	10509			2909			
10	2482	10510	10610	10530	2910	10550		
11	2483	10511	10611	10531	2911	10551		
12	2484	10512	10612	10532	2912	10552		
13	2485	10513	10613	10533	2913	10553		
14	2486	10514	10614	10534	2914	10554		
15			10615	10535	2915	10555		
16			10616	10536	2916	10556		
17			10617	10537	2917	10557		
18			10618	10538	2918	10558		
19			10619	10539	2919	10559	3419	
20					2920	10560		
21					2921	10561	3421	
22					2922	10562	3422	
23							3423	
24					2924	10564	3424	
26					2926	10566	3426	
27			10627		2927	10567	3427	
28					2928	10568		
30					2930	10570	3430	
32					2932	10572	3432	
33							3433	
34					2934		3434	
35					2935		3435	
36					2936		3436	3736
38					9845	9846	3438	
41					2941		3441	3741
42							3442	
44							3444	
46					2946-1		3446	3746
48							3448	
50							3450	3750
55							3455	3755
60							1207-60	3760
65								3765
70								3770
75								3775
80								3780



Quick-Finder

Sockets

Quick-Finder

Sockets Hexagon Pro Torque® | Inch sizes

Inch	6.3mm □ 1/4"		12.5mm □ 1/2"	Inch	12.5mm □ 1/2"
	short	deep	short		short
5/32"	10650			1"	2787
3/16"	10651			1.1/16"	2784
7/32"	10652			1.1/8"	2788
1/4"	10653	10670		1.1/4"	2786
9/32"	10654				
5/16"	10655	10671			
11/32"	10656				
3/8"	10657	10672	2770		
7/16"	10658	10673	2771		
1/2"	10659	10674	2772		
9/16"			2773		
5/8"			2774		
11/16"			2775		
3/4"			2776		
13/16"			2777		
7/8"			2778		
15/16"			2779		



QF1

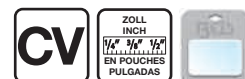
Sockets 12-point

	6.3mm  1/4"		12.5mm  1/2"		20mm  3/4"	
mm	short	deep	short	deep	short	
4	10774	10702				
4,5	10773					
5	10775	10704				
5,5	10772	10705				
6	10776	10706				
7	10777	10707				
8	10778	10708	10628	9356		
9	10779	10709	10629			
10	10780	10710	10630	10680		
11	10781	10711	10631	9357		
12	10782	10712	10632	10662		
13	10783	10713	10633	10681		
14	10784		10634	10664		
15			10635	10682		
16			10636	10683		
17			10637	10684		
18			10638	10685		
19			10639	10686	7419	
20			10640	9359		
21			10641	9360	7421	
22			10642	10687	7422	
23			10643			
24			10644	10688	7424	
26			10626	10663		
27			10645	9363	7427	
28			10625	10689		
30			10646		7430	
32			10647		7432	
34			10648		7434	
36			10649		7436	
38					7438	
41			10650-1		7441	
46			10651-1		7446	
50					7450	
55					7455	
60					7459	
65					7465	
70					7466	



Sockets 12-point | Inch sizes

	6.3mm  1/4"	
mm	short	
5/32"	10870	
3/16"	10871	
7/32"	10872	
1/4"	10873	
9/32"	10874	
5/16"	10875	
11/32"	10876	
3/8"	10877	
7/16"	10878	
15/32"	10879	
1/2"	10880	
9/16"	10881	



Sockets Super Lock

 mm	6.3mm $\square \frac{1}{4}$ "		10mm $\square \frac{3}{8}$ "		12.5mm $\square \frac{1}{2}$ "	
	short	deep	short	deep	short	deep
4	2344	2964				
4,5	2339					
5	2345	2965				
5,5	2343					
6	2346	2966	2366			
7	2347	2967	2367			
8	2348	2968	2368	2610	2408	10268
9	2349	2969	2369	2611	2409	
10	2350	2970	2370	2600	2410	10270
11	2351	2971	2371	2601	2411	10271
12	2352	2972	2372	2602	2412	10272
13	2353	2973	2373	2603	2413	2943
14	2354	2974	2374	2604	2414	2944
15			2375	2605	2415	2945
16			2376	2606	2416	2946
17			2377	2607	2417	2947
18			2378	2608	2418	2948
19			2379	2609	2419	2949
20			2380		2420	9358
21			2381		2421	2951
22			2382		2422	2952
23					2423	
24			2384		2424	9361
27					2427	9362
28					2428	2956
30					2430	
32					2432	



Quick-Finder

Sockets

Quick-Finder

Sockets Gear Lock

 mm	6.3mm $\square \frac{1}{4}$ "		10mm $\square \frac{3}{8}$ "		12.5mm $\square \frac{1}{2}$ "	
	short	deep	short	deep	short	deep
4	10104	10154				
4,5	10101					
5	10105	10155				
5,5	10102					
6	10106	10156				
7	10107	10157				
8	10108	10158			10208	
9	10109	10159			10209	
10	10110	10160	10310	10350	10210	
11	10111	10161	10311	10351	10211	
12	10112	10162	10312	10352	10212	
13	10113	10163	10313	10353	10213	
14	10114		10314	10354	10214	10254
15			10315	10355	10215	10255
16			10316		10216	10256
17			10317		10217	10257
18			10318		10218	10258
19			10319		10219	10259
20					10220	
21					10221	
22					10222	
24					10224	
27					10227	
30					10230	
32					10232	



QF3

Sockets E-Type

	6.3mm 	10mm 	12.5mm 	
mm	short	short	short	deep
E4	6404	2710		
E5	6405	2711		
E6	6406	2712		
E7	6407	2713		
E8	6408	2714		
E10	6430	6410	6460	6440
E11	6431	6411	6461	
E12		6412	6462	6442
E14		6414	6464	6444
E16		6416	6466	6446
E18		6417	6418	6448
E20		2715	6420	6450
E22			6422	
E24			6424	

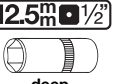
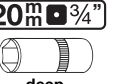


Impact Sockets Pro Torque®, hexagon

	12.5mm 	20mm 	25mm 		
mm	short	deep	short	deep	short
8	5205-8	7248			
10	5210	7210			
11	5211	7211			
12	5212	7212			
13	5213	7213			
14	5214	7214			
15	5215	7215			
16	5216	7216			
17	5217	7217	5617	5717	5500-17
18	5218	7218	5618	5718	
19	5219	7219	5619	5719	5500-19
21	5221	7221	5621	5721	5500-21
22	5222	7222	5622	5722	5500-22
24	5224	7224	5624	5724	5500-24
26			5626	5726	
27	5227	7227	5627	5727	5827 5500-27
30	5230	7230	5630	5730	5830 5500-30
32	5232	7232	5632	5732	5832 5500-32
33	5205-33		5633	5733	5833 5500-33
34	5205-34		5634	5734	5834 5500-34
35			5635		5835
36	5205-36	7236	5636	5736	5836 5500-36
38	5205-38		5638	5738	5838 5500-38
39					5839
40			5640		
41	5233		5641	5741	5841 5500-41
46			5646	5746	5846 5500-46
48			5648		
50			5650	5750	5850 5500-50
52	70012				
55			5655	5755	5855 5500-55
56					5856
60			5660	5760	5860 5500-60
65					5865 5500-65
70					5870 5500-70
75					5875 5500-75
80					5880 5500-80
85					5885 5500-85
90					5890 5500-90
95					5895 5500-95
100					5500-100
105					5905 5500-105
110					5910 5500-110
115					5915 5500-115
120					5920

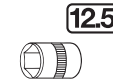
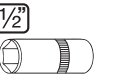
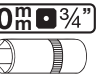


Impact Sockets 12-point

		
mm	deep	deep
17		5345
19		5346
21	5353	
24	5343	
27	5336	
28	5352	
30	5337	
32	5338	
33	5339	
34	5340	
35	5341	
36	5342	
38	5344	
39	5351	
46	5234	

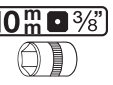
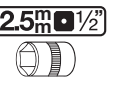
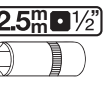
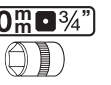


Impact Sockets E-Type

			
mm	short	deep	deep
E4			
E5			
E6			
E7			
E8			
E10	9779-10	5204-10	
E11		5204-11	
E12	9779-12	5204-12	
E14	9779-14	5204-14	
E16	9779-16	5204-16	
E18	9779-18	5204-18	5347
E20	9779-20	5204-20	5348
E22	9779-22	5204-22	
E24	9779-24	5204-24	5349
E26			5250-E26
E28			5250-E28
E30			5250-E30
E32			5250-E32



Special Socket / Screw Extractor

				
mm	short	short	deep	short
8		5269-8		
10	5270	5266-10		
11	5271	5266-11		
12	5272	5266-12		
13	5273	5266-13		
14	5274	5266-14		
15	5275	5266-15		
16	5276	5266-16		
17	5277	5266-17	5264-17	
18	5278			
19	5279	5266-19	5264-19	
21		5269-21	5264-21	
22		5268-22	5264-22	
24		5268-24		
27		5268-27		
32		5268-32		
36				5268-36
41				5268-41



Quick-Finder

Special Socket / Screw Extractor

Quick-Finder

QF5

Bit Sockets

CV		CV-S2		6.3mm □ 1/4"	10mm □ 3/8"	12.5mm □ 1/2"			20mm □ 3/4"					
		25 mm	38 mm	300 mm	48 mm	55 mm	70 mm	100 mm	140 mm	160 mm	200 mm	240 mm	800 mm	85 mm
Inch 	Internal hexagon	3/32"	2740											
		1/8"	2741		2720									
		5/32"	2742		2721									
		3/16"	2743		2722									
		7/32"	2744		2723	2732								
		1/4"	2745		2725	2733								
		9/32"	2746		2730	2734								
		5/16"	2747		2727	2735								
		3/8"	2748		2729	2736								
		15/32"				2737								
		9/16"					2738							
		5/8"					2751							
		11/16"					2752							
		13/16"					2753							
		3/4"					2754							
Metric 	Internal hexagon	1,5 mm	5152											
		2 mm	5153											
		2,5 mm	5154											
		3 mm	2497		2576									
		3,5 mm	5155											
		4 mm	2498		2577	4250		4259						
		5 mm	2499		2578	4251		4260	4270		4275	4215		
		5,5 mm	9466			9467								
		6 mm	2500		2579	4252		4261	4271		4276	4216		
		7 mm	2501		2580	4253		4262	4217		4277	5184-H7		
		8 mm	2502		2581	4254		4263	4272		4278	4218		
		9 mm			2583	4340		4268						
		10 mm	2161-10		2582	4255		4264	5184-H10		4279			
		11 mm						4266	5184-H11					
		12 mm	2161-12		2584	4256		4265	4273		4280			
		13 mm						4267	5184-H13					
		14 mm				4257	5052-14	4296	4274					5189-H14
		16 mm					5052-16							
		17 mm				5184-H17	5052-17							5189-H17
		18 mm					5052-18							
		19 mm				5184-H19	5052-19							5189-H19
		22 mm				5184-H22	4295							5189-H22
		24 mm				5184-H24								
	Internal hexagon with ball head	3 mm			5110									
		4 mm		9833	5111									
		5 mm			5112				4258-5	5184-HB5				
		5,5 mm			5113									
		6 mm			5114				4258-6					
		7 mm							4258-7					
		8 mm			5115				4258-8					
		10 mm							4258-10					
		12 mm							4258-12					
	Splines (for XZN)	M4	5105-M4											
		M5	5105-M5			4350		4359	4330		9350			
		M6	5105-M6			4351		4360	4331		9351			
		M7				4355			4432					
		M8	2503		5105-M8	4352		4361	4332		4334		4227	
		M9				4349		5184-M9	4333		9352			
		M10	2506			4353		4362	5184-M10		4335		4228	
		M12	2507		2587	4354		4363	5184-M12		4336		4229	
		M14				4344		4364	5184-M14		4337		4233	
		M16				4346								
		M17				5180-M17								
		M18				4347								
	Splines (for XZN) Tamperproof	M16				4356		4357						
		M18						4365						
	TS-Star Tamper-proof (for Torx)	TS 10	5184-TS10											
		TS 15	2355-TS15	5184-TS15										
		TS 20	2355-TS20	5184-TS20										
		TS 25	2355-TS25	5184-TS25										
		TS 27	2355-TS27	5184-TS27										
		TS 30	2355-TS30	5184-TS30										
		TS 40	2355-TS40	5184-TS40										
		TS 45		5184-TS45										
		TS 50	2355-TS50	5184-TS50										

Bit Sockets

CV		CV-S2	6.3mm □ 1/4"				10mm □ 3/8"		12.5mm □ 1/2"						20mm □ 3/4"				
			38 mm	75 mm	100 mm	400 mm	48 mm	100 mm	55 mm	100 mm	110 mm		120 mm	140 mm	200 mm	240 mm	300mm	80 mm	
	Plain Slot	4,0 mm	2493																
		5,5 mm	2494					2567											
		6,5 mm	2495																
		7,0 mm	2496					2568											
	PH	PH#0	2504																
		PH#1	2487					2553											
		PH#2	2488					2554											
		PH#3	2489					2556											
	PZ	PZ#0	2505																
		PZ#1	2490					2550											
		PZ#2	2491					2551											
		PZ#3	2492					2552											
	T-Star (for Torx)	T7	2557																
		T8	2589																
		T9	2588																
		T10	2590					2760											
		T15	2591					2541		4368	4468								
		T20	2592					2542		4369	4469								
		T25	2593					2543		4370	4470		9364	9365					
		T27	2594					2544		4367	4467		9348	9349					
		T30	2595			4202	2545		4371	4471		5184-T30	4479						
		T35	2565	2565-75					9627	9628									
		T40	2596				2546		4372	4472		5184-T40	4480						
		T45	2164-T45				2547		4373	4473		5184-T45	4481						
		T50	2164-T50				2548		4374	4474		5184-T50	4482						
		T55					2549		4375	4475		5184-T55	4483						
		T60					2761		4378	4476		5184-T60	4484					5189-T60	
		T70							4379	4477	5003	5184-T70	4485					5189-T70	
		T80																5189-T80	
		T90																5189-T90	
T100																5189-T100			
	T-Star Tamper-proof (for Torx)	T8	2356																
		T9	2364																
		T10	2357																
		T15	2358																
		T20	2359					2571											
		T25	2360					2572											
		T27	2361					2573											
		T30	2362		4203		2574									5184-TB30			
		T40	2363				2575		4326										
		T45	2165-T45				2597		4327										
		T50	2165-T50						4328										
		T55					2599		4329										
		T60							4376										
		T70							4377		5103-TB70								
T80								5184-TB80	5103-TB80										
T90									5103-TB90										
T100										5103-TB100									
	Spline (for Ribe)	M5							4150	4160									
		M6						4141	4151	4161									
		M7						4142	4152	4162		4234		5184-R7					
		M8						4143	4153	4163		4173	4183	5184-R8					
		M9							4154	5184-R9		4174	4184						
		M10.3							9353	9354		4179	4185						
		M10						4145	4155	4165		5184-R10	4189						
		M12							4156	4166	5010	4176	4186						
		M13							4157	4167	5007	4177	4187						
M14							4158	4168		4178	4188								

Bit Socket | T-Star for VAG polyDrive cylinder head bolts

CV		12.5mm 1/2"	168 mm
	T52	9386	
polyDrive			

Impact Bit Sockets

		42 mm	55 mm	12.5mm 1/2"	75 mm	100 mm	140 mm	20mm 3/4"	55 mm	CV	CRO MO	
	T20	5486-T20	5369	5480-T20	5469	5470						
	T25	5486-T25	5370	5480-T25	5470							
	T27	5486-T27	5367		5467							
	T30	5486-T30	5371	5480-T30								
	T40	5486-T40	5372	5480-T40								
	T45	5486-T45	5373	5480-T45					5545			
	T47		5378									
	T50	5486-T50	5374	5480-T50	5474				5550			
	T55	5486-T55	5375	5480-T55	5475				5555			
	T60	5486-T60		5480-T60					5560			
	T65								5565			
	T70	5486-T70		5480-T70					5570			
	T80	5486-T80		5480-T80					5580			
	T90								5590			
	T100								5600			
	5 mm	5485-5		5481-M5								
	6 mm	5485-6		5481-M6	4286							
	7 mm	5485-7		5481-M7								
	8 mm	5485-8		5481-M8								
	9 mm	5485-9										
	10 mm	5485-10		5481-M10								
	11 mm	5485-11										
	12 mm	5485-12		5481-M12					5054-12			
	13 mm	5485-13										
	14 mm	5485-14		5481-M14					5054-14			
	17 mm	5334-H17		5481-M17					5054-17			
	19 mm			5481-M19					5054-19			
	21 mm								5054-21			
	22 mm								5054-22			
	23 mm								5054-23			
	24 mm								5054-24			
	M 4	5487-M4		5482-M4								
	M 5	5487-M5		5482-M5								
	M 6	5487-M6		5482-M6								
	M 8	5487-M8		5482-M8	4358							
	M 9			5482-M9								
	M 10	5487-M10		5482-M10	4462							
	M 12	5381-M12		5482-M12		4463						
	M 14	5381-M14		5482-M14								
	M 16	5381-M16		5482-M16					5054-M16			
	M 18	5381-M18		5184-M18					5054-M18			
	M 24								5054-M24			
	M 5			5483-M5								
	M 6			5483-M6								
	M 7			5483-M7								
	M 8			5483-M8								
	M 9			5483-M9								
	M 10			5483-M10								
	M 12			5483-M12								
	M 13			5483-M13								
	M 14			5483-M14								

Bits

		6.3 ^m 1/4"		8 ^m 5/16"		10 ^m 3/8"		14 ^m	
		25 mm	50 mm	30 mm	30 mm	75 mm	100 mm	75 mm	
 T-Star (for Torx)	T7	8217							
	T8	8208							
	T9	8209							
	T10	8190		8160	4866	4566			
	T15	8191	4590	8161	4868	4568			
	T20	8192	4591	8167	4869	4569			
	T25	8193	4592	8162	4870	4570			
	T27	8194		8169	4867	4567			
	T30	8195	4593	8163	4871	4571			
	T35	4735							
	T40	8196		8164	4872	4572			
	T45	8197		8165	4873	4573			
	T50			8166	4874	4574			
	T55			8168	4875	4575			
 T-Star Tamperproof (for Torx)	T60			4456	4876	4598		4576	
	T70			4457				4581	
	T7	2436							
	T8	2437							
	T9	2438							
	T10	2439		4410	4610	4710			
	T15	2440		4415	4615				
	T20	2441		4420	4620				
	T25	2442		4425	4625				
	T27	2443		4427	4627	4727			
	T30	2444		4430	4630				
	T35	4736							
	T40	2445		4440	4640				
	T45			4445	4645				
 PH	T50			4450	4650				
	T55			4455	4655				
	T60			4460	4660				
	T70			4458	4670				
 PZ	PH # 1	8185							
	PH # 2	8186			4601				
	PH # 3	8187		4383	4602				
	PH # 4	8188		4384					
 Plain Slot	PZ # 1	8170	4596						
	PZ # 2	8172	4595						
	PZ # 3	8173	4597	4385					
	PZ # 4	8174		4386					
 Internal Hexagon	4,5 mm	8198							
	5,5 mm	8199							
	7 mm	8189							
	8 mm	8183		4380	4599				
	10 mm			4381	4600				
	12 mm			4382					
 Spline (for XZN)	3 mm	8176							
	4 mm	8177			4950	4959			
	5 mm	8178			4951	4960			
	6 mm	8179			4952	4961			
	7 mm	8182		4387	4953	4962			
	8 mm	8180		4388	4954	4963			
	10 mm	8181		4389	4955	4964			
	12 mm			4390	4956	4965			
 Spline (for Ribe)	14 mm			4391	4957	4966			
	M5				4850	4859			
	M6				4851	4860			
	M8				4852	4861			
	M10				4853	4862			
	M12				4854	4863			
	M14					4864			
	M5				4760		4770		
 Spline (for Ribe)	M6				4761		4771		
	M7				4762		4772		
	M8				4763		4773		
	M9				4764		4774		
	M10				4765		4775		
	M10,3						4776		
	M11				4766		4777		
	M12				4767		4778		
	M13				4768		4779		
	M14						4780		



Quick-Finder

Bits

Quick-Finder

QF9

Socket Adaptor

External	6.3m 1/4"	10m 3/8"	Internal 12.5m 1/2"	20m 3/4"	25m 1"	38m 1 1/2"
6.3m 1/4"		269				
Impact		171	9778			
10m 3/8"	271		270			
Impact	172		173			
12.5m 1/2"		280		274		
Impact		174		275		
20m 3/4"			272			
Impact			279		196	
25m 1"						
Impact				195		7468



Extension Bars

	6.3m 1/4"	10m 3/8"	12.5m 1/2"	12.5m 1/2"	20m 3/4"	25m 1"
	Wobble	Wobble	Wobble	Impact	Impact	
50 mm	2336	2232	296	233		
75 mm			294	242	236	192
100 mm	2335	2231				264 5651
125 mm			246	3120	234	193
150 mm	2338	2220	295	243		
200 mm	9842	9844			266	5652 372
250 mm		2219	244	3121	235	194
300 mm	2210					
375 mm				248		
380 mm	2314					
400 mm					268	374
450 mm	2319		247	3138		
500 mm	2211			249		
600 mm				3139		
610 mm		3132		3134		
750 mm				2121		



Sliding T-Bars

	6.3m 1/4"	10m 3/8"	12.5m 1/2"	20m 3/4"	25m 1"
	CV				
115 mm	276				
200 mm		277			
250 mm			273		
450 mm				263	
500 mm					
560 mm					375

Sliding T-Bars

	10m 3/8"	12.5m 1/2"	20m 3/4"	25m 1"
	CV			
250 mm	Repair Set	265	265-Repair	Repair Set
450 mm	9880	9880-REP	6851	
610 mm		267	267-Repair	
630 mm			283	283-1
1020 mm				376 377

Spanners | Combination Spanners

Metric							
	hot forged, Type A, ring end 15° offset	cold forged, Type A, ring end 15° offset	satin finish, Type A, ring end 15° offset	extra deep, mirror polished, Type A, ring end 15° offset	cold forged, Type B, deep offset	extra short, stubby Type	hot forged opening end 15° cranked burnished
4 mm		30554					
4,5 mm		30553					
5 mm		30552					
5,5 mm		30555					
6 mm	1056	30556	30506	1228-6	30106		34206
7 mm	1057	30557	30507	1228-7	30107		34207
8 mm	1058	30558	30508	1228-8	30108		34208
9 mm	1059	30559	30509	1228-9	30109		34209
10 mm	1060	30560	30510	1228-10	30110	30761	34210
11 mm	1061	30561	30511	1228-11	30111	30760	34211
12 mm	1062	30562	30512	1228-12	30112	30762	34212
13 mm	1063	30563	30513	1228-13	30113	30763	34213
14 mm	1064	30564	30514	1228-14	30114	30764	34214
15 mm	1065	30565	30515	1228-15	30115	30775	34215
16 mm	1066	30566	30516	1228-16	30116	30776	34216
17 mm	1067	30567	30517	1228-17	30117	30765	34217
18 mm	1068	30568	30518	1228-18	30118	30778	34218
19 mm	1069	30569	30519	1228-19	30119	30779	34219
20 mm	1070	30570	30520		30120		
21 mm	1071	30571	30521	1229-21	30121		34221
22 mm	1072	30572	30522	1229-22	30122		34222
23 mm		30573	30523		30123		34223
24 mm	1074	30574	30524	1229-24	30124		34224
25 mm	1075		30525		30125		34225
26 mm	1076		30526		30126		
27 mm	1077	30577	30527	1229-27	30127		34227
28 mm			30528		30128		
29 mm					30129		
30 mm	1080	30578	30530	1229-30	30130		34230
32 mm	1082	30579	30532	1229-32	30132		34232
34 mm		1084			30134		34234
36 mm		1086			30136		34236
38 mm		1088					34238
41 mm		1091			30141		34241
46 mm		1096			30146		34246
50 mm							34250
55 mm					30155		34255
60 mm		1100			30160		34260
65 mm							34265
70 mm							34270
75 mm							34275
80 mm							34280
85 mm							34285
90 mm							34290
95 mm							34295



Hot Forging

Traditional hot forging at temperatures of up to 1200° C.
Perfect formability and stability.



Cold Forging

A high quality steel mixture is formed "cold" without heating the steel externally.
This allows an even higher quality and very little dimension tolerances.

Spanners | Double Ring Spanner

QF Quick-Finder

Spanners

QF Quick-Finder

CV



hot forged,
Type A,
ring end
15° offset

ZOLL
INCH
1/4" 3/8" 1/2"
EN POUCHES
PULGADAS



cold forged,
Type A,
ring end
15° offset

ZOLL
INCH
1/4" 3/8" 1/2"
EN POUCHES
PULGADAS



cold forged
extra deep,
mirror polished,
straight shape



E-Type Ring Heads
hot forged
straight shape



deep offset
E-Type Ring Heads
hot forged



1/4"	30188			
5/16"	30189			
3/8"	30190			
7/16"	30191			
1/2"	30192			
9/16"	30193			
5/8"	30194			
11/16"	30195			
3/4"	30196			
13/16"	30197			
7/8"	30198			
15/16"	30199			
19/32"		30673		
25/32"		30675		
1"		30680		
1 1/32"		30681		
1 1/8"		30683		
1 1/4"		30685		
10x11 mm			1186-10x11	
12x14 mm			1186-12x14	
13x15 mm			1186-13x15	
16x18 mm			1186-16x18	
17x19 mm			1186-17x19	
21x23 mm			1186-21x23	
22x24 mm			1186-22x24	
E6xE8			2260	2281-6X8
E7xE11			2265	
E10xE12			2261	2281-10X12
E14xE18			2262	2281-14X18
E16xE22			2266	
E20xE24			2263	2281-20X24

Spanners | Double Ring and Double Open End Spanners

CV

							
Metric	DIN 838, hot forged, deep offset	DIN 838, cold forged, deep offset	C-Type, cold forged	S-Type, cold forged	extra flat, cold forged	DIN 3110, hot forged	DIN 3110, cold forged
5x5,5 mm							30605
6x7 mm	1214-6x7	30206			30330	1184-6x7	30606
8x9 mm	1214-8x9	30208			30331	1184-8x9	30608
8x10 mm			30721				
10x11 mm	1214-10x11	30210		30741	30332	1184-10x11	30610
10x13 mm		30211				1184-10x13	30613
11x13 mm			30722				
12x13 mm	1214-12x13	30212		30742	30333	1184-12x13	30612
13x17 mm		30213					
14x15 mm	1214-14x15	30214	30723	30743	30334	1184-14x15	30614
14x17 mm		30215					30611
16x17 mm	1214-16x17	30216		30744	30335	1184-16x17	30616
17x19 mm		30217	30724				30617
18x19 mm	1214-18x19	30218		30745	30336	1184-18x19	30618
19x22 mm		30223					30623
20x21 mm							
20x22 mm	1214-20x22	30220			30337	1184-20x22	30620
21x22 mm			30725				
21x23 mm	1214-21x23	30221				1184-21x23	30621
22x24 mm							30622
24x27 mm	1214-24x27	30224			30338	1184-24x27	30624
25x28 mm	1214-25x28					1184-25x28	30625
27x30 mm							30627
30x32 mm	1214-30x32	30230			30339	1184-30x32	30630
27x32 mm							30632
30x34 mm							30631
36x41 mm		30236				1184-36x41	30636
46x50 mm		30246					



Hot Forging

Traditional hot forging at temperatures of up to 1200° C.

Perfect formability and stability.



Cold Forging

A high quality steel mixture is formed "cold" without heating the steel externally.

This allows an even higher quality and very little dimension tolerances.



QF13

Quick-Finder

Double Ring / Open End Spanners

Quick-Finder



Workshop Trolley | 7 Drawers | with 215 Tools

- consisting of workshop trolley BGS 2001 incl. 3 tool trays, 3/3, made from high-resistance foam (dimensions 567 x 408 x 32 mm)
- Socket Set | 192 pcs. (BGS 4036)
- Combination Spanners and E-Type Spanners Assortment | 22 pcs. (BGS 4012)
- Beer, Chips and Peanuts | 9 pcs. | 9 pcs. (BGS 4190)
- Microfibre Cloth | 400 x 400 mm (BGS TUCH)

- Number of Drawers: 7
- Drawer pull-out: 100 %
- Drawer width: 569 mm
- Drawer depth: 409 mm
- Drawer height: 5 x 52 | 2 x 130 mm
- Width: 680 mm
- Height: 1000 mm
- Depth: 458 mm
- Weight: 78.7 kg

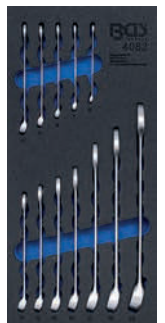
Item #
4104



Workshop Trolley | 7 Drawers | with 227 Tools

- consisting of workshop trolley BGS 2001 incl.
- 4 tool trays(1/3), dimensions 189 x 408 x 32 mm
- 1 tool tray (2/3), dimensions 378 x 408 x 32 mm
- 2 tool trays(3/3), dimensions 567 x 408 x 32 mm
- made from high-resistance foam
- Screwdriver Set T-Star (for Torx) | 6 pcs. (BGS 4078)
- Combination Spanner Set | 6 - 22 mm | 12 pcs. (BGS 4082)
- Stoning and Machinist's Hammer Set | 2 pcs. (BGS 4046)
- Pliers Set | 3 pcs. (BGS 4042)
- 12-piece Screwdriver Set (BGS 4122)
- Socket Set | 192 pcs. (BGS 4036)
- Beer, Chips and Peanuts | 9 pcs. (BGS 4190)

- Number of Drawers: 7
- Drawer pull-out: 100 %
- Drawer width: 569 mm
- Drawer depth: 409 mm
- Drawer height: 5 x 52 | 2 x 130 mm
- Width: 680 mm
- Height: 1000 mm
- Depth: 458 mm
- Weight: 83.5 kg



Workshop Trolley | 11 Drawers | empty

- heavy duty workshop finish
- wall thickness body: 1.2 mm
- wall thickness drawers: 0.8 mm
- heavy duty 125 mm ball bearing castors, thereof 2 castors lockable
- lockable through central lock
- each drawer individually secured, with safety lock
- 11 smooth running, ball bearing drawers:
 - drawer 1 - 10 drawer capacity: each 20 kg
 - 11th drawer capacity: 30 kg
- stable top shelf with 5 storage compartments, load capacity up to 50 kg
- max. capacity 230 kg
- side storage compartment: 78 x 370 x 75 mm (H x W x D)
- side mounted handle
- width: 724 mm
- height: 1033 mm
- depth: 470 mm
- weight: 79 kg
- number of drawers: 11
- drawer pull-out: 100%
- drawer width: 569 mm
- drawer depth: 409 mm
- drawer height: 10 x 54, 1 x 170 mm



Item #

4103

Workshop Trolley | 8 Drawers | empty

- high quality workshop type
- wall thickness body: 1.6 mm
- wall thickness drawers: 1.3 mm
- heavy duty 125 mm ball bearing castors, thereof 2 castors lockable
- lockable through central lock
- each drawer individually secured, with safety lock
- 8 smooth running, ball bearing drawers
- stable top plastic support with 8 storage compartments, load capacity up to 45 kg
- BGS Logo with red LEDs on the front panel, switch is inside the side panel
- side door individually lockable
- side storage with 2 trays e.g. for cans, tools or bottles and a tool board inside the door with hook holes for tools
- rear board individually lockable and extendable
- hook holes on the rear board for tools (10 hooks included), control panel with control device and bluetooth speaker with internal antenna incl. USB charging cable
- easy connection via bluetooth with mobile phone or other devices
- side mounted handle
- width: 752 mm
- height: 984 mm
- depth: 540 mm
- number of drawers: 8
- drawer width: 568 mm
- drawer depth: 409 mm
- drawer height: 7 x 58 | 1 x 139 mm
- drawer pull-out: 100%



Item #
4108

Tool Tray 1/3: Bit Socket Set | Internal Hexagon | 24 pcs.

12.5 mm 1/2"

- knurled
- 9 bit sockets, length 55 mm, 12.5 mm (1/2") drive, internal hexagon 5 - 6 - 7 - 8 - 10 - 12 - 14 - 17 - 19 mm
- 8 bit sockets, length 100 mm, 12.5 mm (1/2") drive, internal hexagon 5 - 6 - 7 - 8 - 10 - 11 - 12 - 13 mm
- 7 bit sockets, length 140 mm, 12.5 mm (1/2") drive, internal hexagon 5 - 6 - 7 - 8 - 10 - 12 - 14 mm



Item #	Description
4116	Tool Tray 1/3: Bit Socket Set Internal Hexagon 24 pcs.
4116-1	Tool Tray 1/3 empty for BGS 4116



Tool Tray 1/3: Bit Socket Set | T-Star (for Torx) | 26 pcs.

12.5 mm 1/2"

- knurled
- 10 bit sockets, 12.5 mm (1/2") drive, T-Star (for Torx) T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60 - T70, length 55 mm
- 10 bit sockets, 12.5 mm (1/2") drive, T-Star (for Torx) T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60 - T70, length 100 mm
- 6 bit sockets, 12.5 mm (1/2") drive, T-Star (for Torx) T40 - T45 - T50 - T55 - T60, length 100 mm



Item #	Description
4119	Tool Tray 1/3: Bit Socket Set T-Star (for Torx) 26 pcs.
4119-1	Tool Tray 1/3 empty for BGS 4119



Tool Tray 1/3: Bit Socket Set | Spline (for RIBE) | 25 pcs.

12.5 mm 1/2"

- knurled
- 9 bit sockets, length 55 mm, 12.5 mm (1/2") drive, Spline (for RIBE) M5 - M6 - M7 - M8 - M9 - M10 - M12 - M13 - M14
- 9 bit sockets, length 100 mm, 12.5 mm (1/2") drive, Spline (for RIBE) M5 - M6 - M7 - M8 - M9 - M10 - M12 - M13 - M14
- 7 bit sockets, length 140 mm, 12.5 mm (1/2") drive, Spline (for RIBE) M8 - M9 - M10 - M10,3 - M12 - M13 - M14



Item #	Description
4117	Tool Tray 1/3: Bit Socket Set Spline (for RIBE) 25 pcs.
4117-1	Tool Tray 1/3 empty for BGS 4117



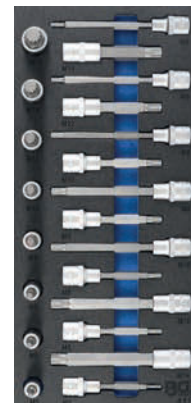
Tool Tray 1/3: Bit Socket Set | Spline (for XZN) | 22 pcs.

12.5 mm 1/2"

- knurled
- 8 bit sockets, length 55 mm, 12.5 mm (1/2") drive, Spline (for XZN) M5 - M6 - M8 - M9 - M10 - M12 - M14 - M16
- 7 bit sockets, length 100 mm, 12.5 mm (1/2") drive, Spline (for XZN) M5 - M6 - M8 - M9 - M10 - M12 - M14
- 7 bit sockets, length 140 mm, 12.5 mm (1/2") drive, Spline (for XZN) M5 - M6 - M8 - M9 - M10 - M12 - M14



Item #	Description
4118	Tool Tray 1/3: Bit Socket Set Spline (for XZN) 22 pcs.
4118-1	Tool Tray 1/3 empty for BGS 4118



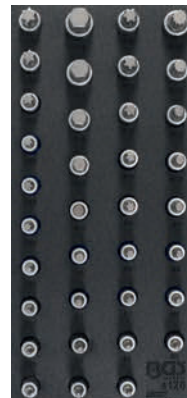
Tool Tray 1/3: Bit Socket Set | various profiles | 36 pcs.

12.5 mm 1/2"

- knurled
- 9 bit sockets, length 55 mm, 12.5 mm (1/2") drive, internal hexagon 5 - 6 - 7 - 8 - 10 - 12 - 14 - 17 - 19 mm
- 10 bit sockets, length 55 mm, 12.5 mm (1/2") drive, T-Star (for Torx) T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60 - T70
- 8 bit sockets, length 55 mm, 12.5 mm (1/2") drive, Spline (for XZN) M5 - M6 - M8 - M9 - M10 - M12 - M14 - M16
- 9 bit sockets, length 55 mm, 12.5 mm (1/2") drive, Spline (for RIBE) M5 - M6 - M7 - M8 - M9 - M10 - M12 - M14 - M16



Item #	Description
4120	Tool Tray 1/3: Bit Socket Set various profiles 36 pcs.
4120-1	Tool Tray 1/3 empty for BGS 4120



Tube Bender and Brake Line Clamps Set | 4.75 + 6 mm

- for clamping the old and new brake pipe during the bending process
- perfect for cable assembly
- allows exact reproduction of the old brake pipe
- parallel clamping and bending do not change the diameter of the line
- suitable for steel, copper and plastic coated brake lines
- for 4.75 mm (3/16") or 6 mm line diameter

scope of delivery:

- tube bending pliers, 4.75 + 6 mm (Art. 8229)
- brake line clamps set, 4 pcs. (Art. 9533-1)
- tool tray 1/3, empty, for item 9533 (Art. 9533-2)



Item #	Description
9533	Tool Tray 1/3: Tube Bender and Brake Line Clamps Set 4.75 + 6 mm
9533-1	Brake Line Clamps Set 4.75 mm (3/16") 4 pcs.
9533-2	Tool Tray 1/3 empty for BGS 9533



Tool Tray 3/3: Special Tools for Tyre Service | 18 pcs.

6.3  1/4 12.5  1/2

- 4 plastic scrapers: 19 - 22 - 25 - 38 mm
- 1 pliers for wheel balancing weights
- 1 thread retapper for tire valves
- 1 special socket for steel tire valves, 6.3 mm (1/4") drive
- 4 protective impact sockets with plastic sleeves, 12.5 mm (1/2") drive: 15 - 17 - 19 - 21 mm
- 2 valve core torque tools: 0.25 - 0.45 Nm
- 2 tire valve insert tools
- 1 tire valve replacing tool, flexible
- 1 workshop torque wrench, 40 - 200 nm, 12.5 mm (1/2") drive, ratcheting head, reversible, 48 teeth, accuracy: +- 4%, incl. test certificate
- 1 tire lever with plastic protection cover, 500 mm
- width: 567 mm
- height: 32 mm
- depth: 408 mm



Item #	Description
4035	Tool Tray 3/3: Special Tools for Tyre Service 18 pcs.
4035-1	Tool Tray 3/3 empty for BGS 4035

Tool Tray 2/3: Double Ring Spanner Set | 10 x 11 - 22 x 24 mm | 6 pcs.

- cold forged
- extra long
- straight type
- profile: 12-point
- surface finish: chrome plated, polished
- width: 378 mm
- height: 32 mm
- depth: 408mm

scope of delivery:

- double ring spanner, extra long, 10 x 11 mm, length: 290 mm, BGS 1186-10x11
- double ring spanner, extra long, 12 x 14 mm, length: 330 mm, BGS 1186-12x14
- double ring spanner, extra long, 13 x 15 mm, length: 370 mm, BGS 1186-13x15
- double ring spanner, extra long, 16 x 18 mm, length: 410 mm, BGS 1186-16x18
- double ring spanner, extra long, 17 x 19 mm, length: 410 mm, BGS 1186-17x19
- double ring spanner, extra long, 22 x 24 mm, length: 435 mm, BGS 1186-22x24
- tool tray 2/3, empty, BGS 4194-1



Item #	Description
4194-1	Tool Tray 2/3 empty for BGS 4194
4194	Tool Tray 2/3: Double Ring Spanner Set 10 x 11 - 22 x 24 mm 6 pcs.

Air Tools Holder | 15 kg

- suitable for impact wrenches, air inflators, blow guns, spray guns and other air tools
- with 3 individually lockable sideward fork openings
- easy to assemble on workbench or tool cabinet
- 4 drill holes for screws (not included in scope of delivery) for easy assembling
- rated load capacity: 15 kg



Item #
9578

Magnetic Holder | for Screwdrivers, Wrenches

- magnetic tool holder with 6 extra strong magnets and 18 hooks
- black powder coated
- suitable for workshop trolleys
- space saving, flat design
- load capacity max. 6 kg
- length: 230 mm
- width: 450 mm



Item #
9895

Magnetic Screwdriver Holder

- magnetic holder for max. 9 screwdrivers
- for 5 screwdrivers with blade-Ø up to 9.5 mm
- for 4 screwdrivers with blade-Ø up to 7.5 mm
- black powder coated
- suitable for workshop trolleys
- space saving
- load capacity max. 2 kg
- length: 240 mm
- width: 48 mm
- depth: 28 mm



Item #
67157

Socket Set / Tool Assortment | 67 pcs.

6.3  1/4

scope of delivery:

- BGS system case
- reversible ratchet, fine tooth, 6.3 mm (1/4"), length: 155 mm
 - curved type, satin chrome plated, 2-component handle
- spinner handle for bits, 6.3 mm (1/4"), length: 200 mm, 2-component handle, magnetic bit holder (BGS 217)
- extension bar, 6.3 mm (1/4"), length: 50 mm, satin chrome plated (BGS 2336)
- universal joint, 6.3 mm (1/4"), chrome plated (BGS 250)
- bit adaptor with retaining ball, 6.3 mm (1/4") drive, internal hexagon 6.3 mm (1/4"), satin chrome plated (BGS 8213)
- sockets, pro torque®, hexagon, 6.3 mm (1/4") drive, satin chrome plated, knurled: 4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm
- sockets, hexagon, pro torque®, deep, 6.3 mm (1/4") drive, satin chrome plated, matt, knurled: 9 - 10 - 11 - 12 - 13 mm
- bits, 6.3 mm (1/4") drive, length 25 mm:
 - slot SL 3 - 4 - 5 - 6 mm
 - cross slot PH1 - PH2 - PH3
 - cross slot PZ1 - PZ2 - PZ3
 - internal hexagon 3 - 4 - 5 - 6 mm
 - T-Star (for Torx) T10 - T15 - T20 - T25 - T27 - T30
- combination pliers, 175 mm, 2-component handles, nickel plated, matt (BGS 370)
- long nose pliers, straight, 200 mm, 2-component handles, nickel plated, matt (BGS 389)
- screwdriver, cross slot PH1, blade length 80 mm (BGS 4935)
- screwdriver, cross slot PH2, blade length 100 mm (BGS 4936)
- screwdriver, slot SL 4 mm, blade length 80 mm (BGS 4929)
- screwdriver, slot SL 5.5 mm, blade length 125 mm (BGS 4930)
- screwdriver, slot SL 6.5 mm, blade length 150 mm (BGS 4931)
- precision screwdriver set, 6 pcs. (BGS 9151)
 - black finished tips
 - 2-component anti-slip handles
- screwdrivers, slot SL: 2 - 3 - 4 mm
- screwdrivers, cross slot PH: PH00 - PH0 - PH1
- blade length: 75 mm
- surface finish: satin chrome plated
- water pump pliers, box-joint type, 240 mm (Art. 75111)
 - forged and hardened
 - black lacquered finish
 - polished jaws and joint
 - dip insulated handles
 - max. opening width 38 mm
- L-type wrench set, short, internal hexagon 1.5 - 10 mm, 9 pcs. (BGS 807)
 - short type
 - in foldable holder
 - sizes 1.5 - 2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10 mm
- machinist's hammer, hickory handle, DIN 1041, 300 g (BGS 52303)



Item #
2217



Impact Socket Set E-Star | 12.5 mm (1/2") Drive | E10 - E24 mm | 8 pcs.

12.5 1/2

- for both manual and impact wrenches
- can be fixed on impact wrench by pin and O-ring
- on socket rail
- 8 impact sockets, 12.5 mm (1/2") Drive, E-type: E10 - E12 - E14 - E16 - E18 - E20 - E22 - E24



Item #
9779



Protective Impact Socket Set | 12.5 mm (1/2") Drive | 17 / 19 / 21 / 22 mm | 4 pcs.

12.5 1/2

- for both manual and impact wrenches
- can be fixed on impact wrench by pin and O-ring
- plastic cover and plastic sleeve for protection of aluminium rims
- different surface colors help to indicate the right size
- 4 protective impact sockets, 12,5 mm (1/2") drive, length: 85 mm, 17 - 19 - 21 - 22 mm



Item #
9847



Socket Set, T-Star Plus (for Torx Plus) | 6.3 mm (1/4") Drive | 6EP - 12EP | 6 pcs.

6.3 1/4

- on socket rail
- T-Star Plus sockets, 6.3 mm (1/4") drive: 6EP - 7EP - 8EP - 10EP - 11EP - 12EP



Item #
9588



Socket Set, E-Type | 6.3 mm (1/4") Drive | E4 - E11 | 7 pcs.

6.3 1/4

- knurled
- on metal rail
- profile: E-type
- surface finish: satin chrome plated
- E-type socket, 6.3 mm (1/4") drive: E4, E5, E6, E7, E8, E10, E11



Item #
6402



Socket Set, Hexagon, extra deep | 10 mm (3/8 ") Drive | SW 8 - 14 mm | 5 pcs.

10  3/8

- suitable for nuts on extra long threaded bolts, for e.g. bumpers, rear lamps and door hinge fittings
- suitable for parking brake cable adjusters on VAG, Opel / Vauxhall, BMW and Ford
- drive profile: internal square
- drive profile size, metric: 10 mm
- drive profile size, inch: 3/8"
- output profile: hexagon
- length: 120 mm
- surface finish: chrome plated
- 5 sockets, hexagon, 8 - 10 - 12 - 13 - 14 mm

Item #
9863



Universal Joint Socket Set, Hexagon | 10 mm (3/8") Drive | 3/8" - 3/4" | Inch Sizes | 7 pcs.

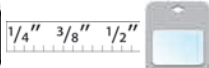
10  3/8

- on socket rail

scope of delivery:

- 7 universal joint sockets 3/8" - 7/16" - 1/2" - 9/16" - 5/8" - 11/16" - 3/4"

Item #
9501



Socket Set, T-Star Plus (for Torx Plus) | 10 mm (3/8") Drive | 10EP - 20EP | 7 pcs.

10  3/8

- on socket rail
- T-Star Plus sockets, 10 mm (3/8") drive: 10EP - 11EP - 12EP - 14EP - 16EP - 18EP - 20EP

Item #
9587



Screw and Nut Extractor Set | 10 mm (3/8") | Metric | 11 pcs.

10  3/8

- special sockets for loosening rounded off external hexagon screw heads and nut, sizes: 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 19 mm (also for tightening screws)
- drive profile: internal square
- drive profile size, metric: 10 mm
- drive profile size, inch: 3/8"
- surface finish: satin chrome plated

Item #
8383



Twist Socket Set (Spiral Profile) / Screw Extractor | 12.5 mm (1/2") Drive | 17 - 26 mm | 7 pcs. 12.5 1/2

- for loosening damaged screws and nuts
- suitable for impact wrenches
- the innovative spiral profile digs itself into the head of a damaged screw/ nut allowing to loosen it securely
- special twist sockets, 12.5 mm (1/2") drive: 17 - 18.5 - 20 - 21.5 - 23 - 24.5 - 26 mm
- surface finish: black burnished



Item #
5291



Tool Tray 1/6: Rim Lock Socket Set for Mercedes-Benz | 35 pcs.

- for installation and dismantling of Mercedes-Benz rim locks
- in workshop trolley tray
- 32 rim lock sockets to be used as OEM #301 - #302 - #303 - #304 - #305 - #306 - #307 - #308 - #309 - #310 - #311 - #312 - #313 - #314 - #315 - #316 - #317 - #318 - #319 - #320 - #321 - #322 - #323 - #324 - #325 - #326 - #327 - #328 - #329 - #330 - #331 - #332
- 1 socket to be used as holder
- 1 pin punch
- 1 wheel hub hook puller



Item #
9469



Tool Tray 1/6: Rim Lock Socket Set for Opel / Vauxhall (Version A) | 20 pcs.

- for installation and dismantling of Vauxhall rim locks (version A)
- in workshop trolley tray
- drive: 17 mm external hexagon
- 20 rim lock sockets in the sizes:
 - #101 - #102 - #103 - #104 - #105 - #106 - #107 - #108 - #109 - #110 -
 - #111 - #112 - #113 - #114 - #115 - #116 - #117 - #118 - #119 - #120



Item #
9556



Tool Tray 1/6: Rim Lock Socket Set for Opel / Vauxhall (Version B) | 20 pcs.

- for installation and dismantling of Vauxhall rim locks (version B)
- in workshop trolley tray
- drive: 17 mm external hexagon
- 20 rim lock sockets in the sizes:
 - #181 - #182 - #183 - #184 - #185 - #186 - #187 - #188 - #189 - #190 -
 - #191 - #192 - #193 - #194 - #195 - #196 - #197 - #198 - #199 - #200



Item #
9557



Tool Tray 1/6: Rim Lock Socket Set for Opel / Vauxhall (Version C) | 20 pcs.

- for installation and dismantling of Vauxhall rim locks (version c)
- in workshop trolley tray
- drive: 17 mm external hexagon
- 20 rim lock sockets in the sizes:
#121 - #122 - #123 - #124 - #125 - #126 - #127 - #128 - #129 - #130 -
#131 - #132 - #133 - #134 - #135 - #136 - #137 - #138 - #139 - #140

Item #	CV		1/6
9558			



Tool Tray 1/6: Rim Lock Socket Set for Opel / Vauxhall (Version D) | 7 pcs.

- for installation and dismantling of Vauxhall rim locks (version D)
- in workshop trolley tray
- drive: 17 mm external hexagon
- 7 rim lock sockets in the sizes:
#7461 - #7462 - #7463 - #7464 - #7465 - #7466 - #7467

Item #	CV		1/6
9559			



Tool Tray 1/6: Rim Lock Socket Set for Land Rover | 10 pcs.

- for installation and dismantling of Land Rover rim locks
- in workshop trolley tray
- drive: 17 mm external hexagon
- length: 37 mm
- 10 rim lock sockets in the sizes:
#A - #B - #C - #D - #E - #F - #G - #H - #I - #J

Item #	CV		1/6
9553			



Tool Tray 1/6: Rim Lock Socket Set for Volvo | 20 pcs.

- for installation and dismantling of Volvo rim locks
- in workshop trolley tray
- hex drive: 19 mm
- length: 42,5 mm
- 20 rim lock sockets in sizes:
#944L - #945L - #946L - #947L - #948L - #949L - #950L - #951L -
#952L - #953L - #065P - #071P - #072P - #076P - #079P - #121P -
#651P - #944P - #945P - #951P

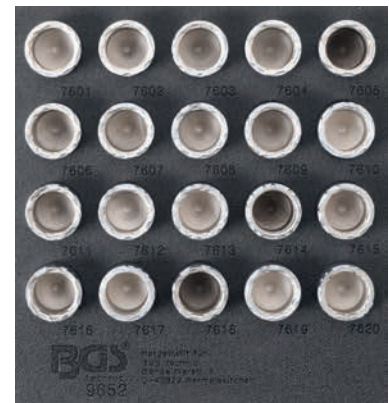
Item #	CV		1/6
9653			



Tool Tray 1/6: Rim Lock Socket Set for Volvo | 20 pcs.

- for installation and dismantling of Volvo rim locks
- in workshop trolley tray
- hex drive: 19 mm
- length: 36 mm
- 20 rim lock sockets in sizes:
 #7601 - #7602 - #7603 - #7604 - #7605 - #7606 - #7607 - #7608 -
 #7609 - #7610 - #7611 - #7612 - #7613 - #7614 - #7615 - #7616 -
 #7617 - #7618 - #7619 - #7620

Item #
9652



Tool Tray 1/6: Rim Lock Socket Set for VAG | 20 pcs.

- for mounting and dismantling of VAG rim locks
- rim lock dismantling sockets with 17 mm hexagon drive
- to be used as OEM T20213
- in workshop trolley tray
- 20 rim lock sockets in sizes:
 #541, #542, #543, #544, #545, #546, #547, #548, #549, #550, #551,
 #552, #553, #554, #555, #556, #557, #558, #559, #560

Item #
6659



Demo Block for Multi Socket

- for demonstration of benefits of Multi Socket, 10 mm (3/8") drive, 9 - 21 mm, BGS 2533 or Multi Socket, 12.5 mm (1/2") drive, 11 - 32 mm, BGS 2531

Item #
9635



Demo Block | for Gear Lock Sockets

- to demonstrate the multiple uses of the Gear Lock profile
- the supplied nut (19 mm) fits perfectly on all permanently installed screw heads: hexagonal, 12-point, inch, E-profile, square, multi-tooth and finished nuts with a damaged flank

Item #
56



Special Wheel Nut Socket | for Porsche 911 (991) | for Center Lock Wheel

20  3/4

- suitable for Porsche 911 models (991) with center lock nut (OEM 99136108190):
 - GT3 / GT3 RS / Turbo / Turbo S (as of 2010) / Carrera GTS (as of 2011)
- drive: 20 mm (3/4")
- material: aluminum alloy
- not suitable for impact wrenches



Item #
9769

Impact Sockets, Hexagon, deep | 20 mm (3/4") Drive

20  3/4

- for both manual and impact wrenches
- can be fixed on impact wrench by pin and O-ring
- profile: hexagon
- length: 100 mm
- surface finish: phosphated



Item #	Description
9812	Impact Socket, Hexagon, deep 20 mm (3/4") Drive 38 mm for FUSO / Mitsubishi
9813	Impact Socket, Hexagon, deep 20 mm (3/4") Drive 41 mm for FUSO / Mitsubishi



Bit and Socket Set | 6.3 mm (1/4") / 10 mm (3/8") Drive | 42 pcs.

10  3/8

scope of delivery:

- 1 electric drill adaptor, 50 mm, 6.3 mm (1/4") drive, external hexagon 6.3 mm (1/4")
- 1 magnetic bit holder, length 75mm
- 36 bits, external hexagon 6.3 mm (1/4") drive
 - 3 bits, cross slot PH2, length 50 mm
 - 1 bit, T-Star tamperproof (for Torx) T15, length 50 mm
 - 2 bits, T-Star tamperproof (for Torx) T20, length 50 mm
 - 2 bits, T-Star tamperproof (for Torx) T25, length 50 mm
 - 2 bits, square S2, length 50 mm
 - 1 bit, square S3, length 50 mm
 - 1 bit, slot SL 6 mm, length 50 mm
 - 1 bit, T-Star tamperproof (for Torx) T15, length 25 mm
 - 3 bits, T-Star tamperproof (for Torx) T20, length 25 mm
 - 3 bits, T-Star tamperproof (for Torx) T25, length 25 mm
 - 1 bit, T-Star tamperproof (for Torx) T30, length 25 mm
 - 3 bits, cross slot PH2, length 25 mm
 - 1 bit, internal hexagon 3 mm, length 25 mm
 - 1 bit, internal hexagon 4 mm, length 25 mm
 - 1 bit, internal hexagon 5 mm, length 25 mm
 - 1 bit, internal hexagon 6 mm, length 25 mm
 - 1 bit, internal hexagon 7 mm, length 25 mm
 - 1 bit, slot SL 6 mm, length 25 mm
 - 1 bit, slot SL 8 mm, length 25 mm
 - 2 bits, cross slot PH1, length 25 mm
 - 2 bits, cross slot PH2, length 25 mm
 - 2 bits, cross slot PH3, length 25 mm
- 4 sockets, hexagon, deep, 10 mm (3/8") drive, 8 - 9 - 10 - 12 mm



Item #
4810



Drill and Bit Set | 6.3 mm (1/4") Drive | 55 pcs.

scope of delivery:

- 1 automatic bit holder, length 70 mm
- 1 magnetic bit holder, length 77 mm
- 43 bits, external hexagon 6.3 mm (1/4") drive
 - 2 bits, cross slot PH2, length 50 mm
 - 1 bit, internal hexagon 5 mm, length 50 mm
 - 1 bit, internal hexagon 6 mm, length 50 mm
 - 2 bits, T-Star tamperproof (for Torx) T20, length 50 mm
 - 2 bits, T-Star tamperproof (for Torx) T25, length 50 mm
 - 1 bit, T-Star tamperproof (for Torx) T30, length 50 mm
 - 1 bit, slot SL 6 mm, length 50 mm
 - 1 bit, slot SL 8 mm, length 50 mm
 - 4 bits, slot SL 6 mm, length 25 mm
 - 4 bits, slot SL 8 mm, length 25 mm
 - 1 bit, internal hexagon 1.5 mm, length 25 mm
 - 2 bits, internal hexagon 2 mm, length 25 mm
 - 1 bit, internal hexagon 2.5 mm, length 25 mm
 - 2 bits, internal hexagon 3 mm, length 25 mm
 - 2 bits, internal hexagon 4 mm, length 25 mm
 - 1 bit, internal hexagon 5 mm, length 25 mm
 - 1 bit, internal hexagon 5.5 mm, length 25 mm
 - 1 bit, internal hexagon 6 mm, length 25 mm
 - 1 bit, internal hexagon 8 mm, length 25 mm
 - 4 bits, cross slot PH1, length 25 mm
 - 4 bits, cross slot PH2, length 25 mm
 - 4 bits, cross slot PH3, length 25 mm
- 3 impact sockets, for electric drills, 6 - 8 - 10 mm
- 7 HSS twist drills with hexagon drive, 6.3 mm (1/4") drive, Ø 1.0 - 1.5 - 2 - 2.5 - 3 - 3.2 - 5 mm



Item #	CV-S2
4811	

Bit Socket Set | 12.5 mm (1/2") Drive | TP-Star (for Torx Plus) TP20 - TP70 | 32 pcs. 12.5 1/2

- knurled
- with flat flanks compared to standard T-Star (for Torx)
- for Torx-Plus screws

scope of delivery:

- 10 bit sockets TP20 - TP25 - TP27 - TP30 - TP40 - TP45 - TP50 - TP55 - TP60 - TP70, length: 55 mm
- 10 bit sockets TP20 - TP25 - TP27 - TP30 - TP40 - TP45 - TP50 - TP55 - TP60 - TP70, length: 100 mm
- 6 bit sockets TP40 - TP45 - TP50 - TP55 - TP60 - TP70, length: 140 mm
- 6 bit sockets TP40 - TP45 - TP50 - TP55 - TP60 - TP70, length: 200 mm



Item #	CV-S2
5190	

Bit Socket Set | 12.5 mm (1/2") Drive | TPS-Star tamperproof (for Torx Plus) TPS20 - TPS70 | 32 pcs. 12.5 $\frac{1}{2}$

- knurled
- with flat flanks compared to standard T-Star (for Torx)
- for Torx-Plus screws with pin

scope of delivery:

- 10 bit sockets TPS20 - TPS25 - TPS27 - TPS30 - TPS40 - TPS45 - TPS50 - TPS55 - TPS60 - TPS70, length: 55 mm, tamperproof
- 10 bit sockets TPS20 - TPS25 - TPS27 - TPS30 - TPS40 - TPS45 - TPS50 - TPS55 - TPS60 - TPS70, length: 100 mm, tamperproof
- 6 bit sockets TPS40 - TPS45 - TPS50 - TPS55 - TPS60 - TPS70, length: 140 mm, tamperproof
- 6 bit sockets TPS40 - TPS45 - TPS50 - TPS55 - TPS60 - TPS70, length: 200 mm, tamperproof

Item #	CV-S2
5191	



Bit Socket Set | 10 mm (3/8") Drive | 4-point Profile (for MTS-Mortorq) MTS0 - MTS04 | 5 pcs. 10 $\frac{3}{8}$

- 10 mm (3/8") internal square drive with ball reception
- surface finish: satin chrome plated
- on metal rail
- 5 bit sockets, 4-point (for Mortorq), 10 mm (3/8") drive: #0, #1, #2, #3, #4

Item #	CV
9756	



Bit Socket Set | 6.3 mm (1/4") Drive | Internal Hexagon Tamperproof 2 - 7 mm | 8 pcs. 6.3 $\frac{1}{4}$

- knurled
- on socket rail
- surface finish: satin chrome plated
- 8 bit sockets, length: 38 mm, 6,3 mm (1/4") drive, internal hexagon tamperproof 2 - 2.5 - 3 - 4 - 5 - 5.5 - 6 - 7 mm

Item #	CV-S2
5156	

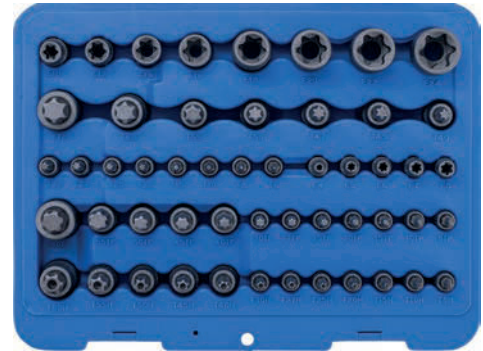


Bit Socket and Socket Set | E-Type / T-Star (for Torx) / T-Star tamperproof (for Torx) / TP-Star (for Torx Plus) | 52 pcs.

6.3 $\square$ 1/4 10 $\square$ 3/8 12.5 $\square$ 1/2

scope of delivery:

- 12 bit sockets, T-Star tamperproof (for Torx)
 - 6,3 mm (1/4") drive: T8 - T10 - T15 - T20 - T25 - T27 - T30
 - 10 mm (3/8") drive: T40 - T45 - T50 - T55
 - 12,5 mm (1/2") drive: T60
- 15 bit sockets, T-Star (for Torx):
 - 6,3 mm (1/4") drive: T6 - T8 - T10 - T15 - T20 - T25 - T27 - T30
 - 10 mm (3/8") drive: T40 - T45 - T47 - T50 - T55
 - 12,5 mm (1/2") drive: T60 - T70
- 12 bit sockets, TP-Star (for Torx Plus):
 - 6,3 mm (1/4") drive: TP8 - TP10 - TP15 - TP20 - TP25 - TP27 - TP30
 - 10 mm (3/8") drive: TP40 - TP45 - TP50 - TP55
 - 12,5 mm (1/2") drive: TP60
- 13 sockets, E-type:
 - 6,3 mm (1/4") drive: E4 - E5 - E6 - E7 - E8
 - 10 mm (3/8") drive: E10 - E12 - E14 - E16
 - 12,5 mm (1/2") drive: E18 - E20 - E22 - E24



Bit Socket | length 54 mm | 12.5 mm (1/2") Drive | for VAG Polydrive

12.5 $\square$ 1/2

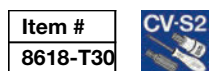
- special socket for loosening and tightening of camshaft adjusting screws on VAG 4-Cyl. injection engines (2.0 l direct injection engines)
- special spline profile
- to be used as OEM: T40080
- knurled
- size: M10
- length: 54 mm
- surface finish: satin chrome plated



Bit Socket | 6.3 mm (1/4") Drive | T-Star (for Torx) T30

6.3 $\square$ 1/4

- knurled
- ideal for working in tight spaces
- length: 130 mm
- surface finish: satin chrome plated



Reversible Ratchets | Fine Tooth

6.3  1/4 10  3/8 12.5  1/2

- straight type, "extra slim"
- fine toothed (72 tooth)
- with quick release
- anti-slip ergonomically shaped 2-component handle
- BGS 610: 6.3 mm (1/4"), length: 135 mm
- BGS 611: 10 mm (3/8"), length: 195 mm
- BGS 612: 12.5 mm (1/2"), length: 250 mm



Item #	Description
610	Reversible Ratchet Fine Tooth 6.3 mm (1/4")
611	Reversible Ratchet Fine Tooth 10 mm (3/8")
612	Reversible Ratchet Fine Tooth 12.5 mm (1/2")



Reversible Ratchets | Fine Tooth

6.3  1/4 10  3/8 12.5  1/2

- curved type
- fine toothed (90 tooth)
- with quick release
- anti-slip ergonomically formed 2-component handle
- BGS 600: 6.3 mm (1/4"), length: 155 mm
- BGS 601: 10 mm (3/8"), length: 205 mm
- BGS 602: 12.5 mm (1/2"), length: 255 mm



Item #	Description
600	Reversible Ratchet finely toothed 6.3 mm (1/4")
601	Reversible Ratchet Fine Tooth 10 mm (3/8")
602	Reversible Ratchet finely toothed 12.5 mm (1/2")
600-REPAIR	Repair Kit for Ratchet Head for BGS 600
601-REPAIR	Repair Kit for Ratchet Head for BGS 601
602-REPAIR	Repair Kit for Ratchet Head for BGS 602



Reversible Ratchet Set | Fine Tooth | 6.3 mm (1/4") - 10 mm (3/8") - 12.5 mm (1/2") | 3 pcs.

6.3 $\frac{1}{4}$ 10 $\frac{3}{8}$ 12.5 $\frac{1}{2}$

- curved type
- fine tooth with 72 teeth
- with quick release function
- anti-slip ergonomically shaped 2-component handle

scope of delivery:

- Reversible Ratchet | Fine Tooth | 6,3 mm (1/4"), length: 150 mm (BGS 618)
- Reversible Ratchet | Fine Tooth | 10 mm (3/8") , lenght: 200 mm (BGS 619)
- Reversible Ratchet | Fine Tooth | 12.5 mm (1/2"), lenght: 250 mm (BGS 620)



Item #	Description
621	Reversible Ratchet Set Fine Tooth 6.3 mm (1/4") - 10 mm (3/8") - 12.5 mm (1/2") 3 pcs.
618	Reversible Ratchet Fine Tooth 6.3 mm (1/4")
619	Reversible Ratchet Fine Tooth 10 mm (3/8")
620	Reversible Ratchet Fine Tooth 12.5 mm (1/2")
618-1	Ratchet Head Repair Kit for BGS 618
619-1	Ratchet Head Repair Kit for BGS 619
620-1	Ratchet Head Repair Kit for BGS 620



Reversible Ratchet | 20 mm (3/4") | 550 mm

20 $\frac{3}{4}$

- no. of teeth in ratchet head: 24
- with quick release

Item #
9765



Reversible Ratchet, extendable | 20 mm (3/4") | 600 - 985 mm

20 $\frac{3}{4}$

- forged steel type
- with extra wide handle
- max. capacity: 1400 Nm
- length adjustable in 8 steps 600 - 655 - 710 - 765 - 815 - 875 - 925 - 985 mm

Item #
213



Push-through Ratchet | 20 mm (3/4")

20  3/4

- length: 500 mm
- surface finish: satin chrome plated
- without square head

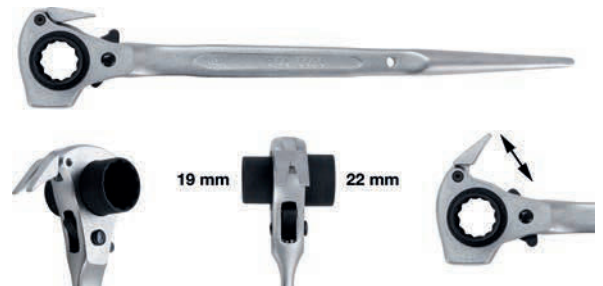


Item #	Description
9622	Push-through Ratchet 20 mm (3/4")
9623	Square Part external square 20 mm (3/4") for BGS 9622



Scaffolding Ratchet | 4-in1 | 19 x 22 mm

- reversible
- versatile 4-in-1 with four functions
- with forged hammer head
- with hinged nail iron on the head
- pointed handle
- sizes 19 and 22 mm
- versatile
- helps to avoid the change of tools through more functions
- no. of teeth in ratchet head: 28
- output profile: 12-point
- length: 312 mm



Bit Ratchet | extra long | 10 mm (3/8") | 240 mm

10  3/8

- fine tooth with 72 teeth
- for 10 mm bits
- anti-slip ergonomically shaped 2-component handles
- profile: internal hexagon
- drive profile size, metric: 10 mm
- drive profile size, inch: 3/8"
- length: 240 mm



Square Part | external square 12.5 mm (1/2") | for BGS 312

12.5  1/2

- suitable for BGS 312
- length: 43 mm



Electric Drill Adaptor Set | 6.3 mm (1/4") Drive | 3 pcs.

6.3 mm 1/4" 10 mm 3/8" 12.5 mm 1/2"

- for electric drill use
- 6.3 mm (1/4") external hexagon drive
- surface: sandblasted

scope of delivery:

- Electric drill adaptor, 65 mm, external square 6.3 mm (1/4") (BGS 9685-1)
- Electric drill adaptor, 65 mm, external square 10 mm (3/8") (BGS 9685-2)
- Electric drill adaptor, 72 mm, external square 12.5 mm (1/2") (BGS 9685-3)



Item #	Description
9685	Electric Drill Adaptor Set 6.3 mm (1/4") Drive 3 pcs.
9685-1	Electric Drill Adaptor 6.3 mm (1/4") Drive / 6.3 mm (1/4")
9685-2	Electric Drill Adaptor 6.3 mm (1/4") Drive / 10 mm (3/8")
9685-3	Electric Drill Adaptor 6.3 mm (1/4") Drive / 12.5 mm (1/2")



Torque Wrench Set | 6.3 mm (1/4") | 10 - 50 Nm | 10 pcs.

6.3 1/4

- with interchangeable heads
- reversible ratchet head with external square 6.3 mm (1/4")
- 8 open end spanner heads in following sizes: 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm
- no. of teeth in ratchet head: 48
- accuracy: +/- 4%, incl. test certificate
- torque range: 10 - 50 Nm
- fine scale: 0.5 Nm
- viewing window for torque value



Item #
2813



Torque Wrench | for 9 x 12 mm Insert Tools

- suitable for tightening screw connections with right-hand thread
- fits for insert tools with 9 x 12 mm outer square
- click signal when the set torque value is reached
- accuracy: +/- 4%
- fine scale: 0.5 Nm
- BGS 2809 torque: 10 - 50 Nm
- BGS 2810 torque: 20 - 100 Nm



Item #	Description
2809	Torque Wrench 10 - 50 Nm for 9 x 12 mm Insert Tools
2810	Torque Wrench 20 - 100 Nm for 9 x 12 mm Insert Tools

Torque Wrench | for 14 x 18 mm Insert Tools

- suitable for tightening screw connections with right-hand thread
- fits for insert tools with 14 x 18 mm outer square
- click signal when the set torque value is reached
- accuracy: +/- 4%
- fine scale: 1 Nm
- BGS 2809 torque: 20 - 100 Nm
- BGS 2810 torque: 60 - 340 Nm



Item #	Description
2811	Torque Wrench 40 - 200 Nm for 14 x 18 mm Insert Tools
2812	Torque Wrench 60 - 340 Nm for 14 x 18 mm Insert Tools

Reversible Insert Ratchet | Fine Tooth | Square Size 9 x 12 mm

- rectangular shaft
- square size: 9 x 12 mm
- with locking pin
- fine tooth with 72 teeth
- with quick release
- drive: square according to DIN 3120 | ISO 1174-1
- surface finish: satin chrome plated
- for use with torque wrench BGS 2809, BGS 2810



Item #	Description
2819	Reversible Insert Ratchet 6.3 mm (1/4") Square Size 9 x 12 mm
2820	Reversible Insert Ratchet 10 mm (3/8") Square Size 9 x 12 mm
2821	Reversible Insert Ratchet 12.5 mm (1/2") Square Size 9 x 12 mm



Open-End Push Fit Spanner | Square Size 9 x 12 mm

- rectangular shaft
- square size 9 x 12 mm
- with locking pin
- surface finish: satin chrome plated



Item #	Description
6900-7	Open-End Push Fit Spanner 7 mm Square Size 9 x 12 mm
6900-8	Open-End Push Fit Spanner 8 mm Square Size 9 x 12 mm
6900-9	Open-End Push Fit Spanner 9 mm Square Size 9 x 12 mm
6900-10	Open-End Push Fit Spanner 10 mm Square Size 9 x 12 mm
6900-11	Open-End Push Fit Spanner 11 mm Square Size 9 x 12 mm
6900-12	Open-End Push Fit Spanner 12 mm Square Size 9 x 12 mm
6900-13	Open-End Push Fit Spanner 13 mm Square Size 9 x 12 mm
6900-14	Open-End Push Fit Spanner 14 mm Square Size 9 x 12 mm
6900-15	Open-End Push Fit Spanner 15 mm Square Size 9 x 12 mm
6900-16	Open-End Push Fit Spanner 16 mm Square Size 9 x 12 mm
6900-17	Open-End Push Fit Spanner 17 mm Square Size 9 x 12 mm
6900-18	Open-End Push Fit Spanner 18 mm Square Size 9 x 12 mm
6900-19	Open-End Push Fit Spanner 19 mm Square Size 9 x 12 mm



Push Fit Ring Spanner | Square Size: 9 x 12 mm

- rectangular shaft
- square size: 9 x 12 mm
- with locking pin
- surface finish: satin chrome plated



Item #	Description		
6902-7	Push Fit Ring Spanner	7 mm	Square Size 9 x 12 mm
6902-8	Push Fit Ring Spanner	8 mm	Square Size 9 x 12 mm
6902-10	Push Fit Ring Spanner	10 mm	Square Size 9 x 12 mm
6902-11	Push Fit Ring Spanner	11 mm	Square Size 9 x 12 mm
6902-12	Push Fit Ring Spanner	12 mm	Square Size 9 x 12 mm
6902-13	Push Fit Ring Spanner	13 mm	Square Size 9 x 12 mm
6902-14	Push Fit Ring Spanner	14 mm	Square Size 9 x 12 mm
6902-15	Push Fit Ring Spanner	15 mm	Square Size 9 x 12 mm
6902-16	Push Fit Ring Spanner	16 mm	Square Size 9 x 12 mm
6902-17	Push Fit Ring Spanner	17 mm	Square Size 9 x 12 mm
6902-18	Push Fit Ring Spanner	18 mm	Square Size 9 x 12 mm
6902-19	Push Fit Ring Spanner	19 mm	Square Size 9 x 12 mm
6902-21	Push Fit Ring Spanner	21 mm	Square Size 9 x 12 mm
6902-22	Push Fit Ring Spanner	22 mm	Square Size 9 x 12 mm



Reversible Insert Ratchet | Square Size 14 x 18 mm

- rectangular shaft
- square size: 14 x 18 mm
- with locking pin
- with 48 teeth
- BGS 2822 with quick release
- drive: square according to DIN 3120 | ISO 1174-1
- surface finish: satin chrome plated
- for use with torque wrench BGS 2811, BGS 2812



Item #	Description		
2822	Plug-in Reversible Ratchet	12.5 mm (1/2")	Square Size 14 x 18 mm
2823	Reversible Insert Ratchet	20 mm (3/4")	Square Size 14 x 18 mm



Open-End Push Fit Spanner | Square Size 14 x 18 mm

- rectangular
- square size: 14 x 18 mm
- with locking pin
- surface finish: satin chrome plated



Item #	Description		
6901-13	Open-End Push Fit Spanner	13 mm	Square Size 14 x 18 mm
6901-14	Open-End Push Fit Spanner	14 mm	Square Size 14 x 18 mm
6901-15	Open-End Push Fit Spanner	15 mm	Square Size 14 x 18 mm
6901-16	Open-End Push Fit Spanner	16 mm	Square Size 14 x 18 mm
6901-17	Open-End Push Fit Spanner	17 mm	Square Size 14 x 18 mm
6901-18	Open-End Push Fit Spanner	18 mm	Square Size 14 x 18 mm
6901-19	Open-End Push Fit Spanner	19 mm	Square Size 14 x 18 mm
6901-21	Open-End Push Fit Spanner	21 mm	Square Size 14 x 18 mm
6901-24	Open-End Push Fit Spanner	24 mm	Square Size 14 x 18 mm
6901-27	Open-End Push Fit Spanner	27 mm	Square Size 14 x 18 mm
6901-30	Open-End Push Fit Spanner	30 mm	Square Size 14 x 18 mm
6901-32	Open-End Push Fit Spanner	32 mm	Square Size 14 x 18 mm
6901-34	Open-End Push Fit Spanner	34 mm	Square Size 14 x 18 mm
6901-36	Open-End Push Fit Spanner	36 mm	Square Size 14 x 18 mm
6901-38	Open-End Push Fit Spanner	38 mm	Square Size 14 x 18 mm
6901-41	Open-End Push Fit Spanner	41 mm	Square Size 14 x 18 mm



Push Fit Ring Spanner | Square Size 14 x 18 mm

- rectangular
- square size: 14 x 18 mm
- with locking pin
- profile: 12-point
- surface finish: satin chrome plated



Item #	Description		
6903-13	Push Fit Ring Spanner	13 mm	Square Size 14 x 18 mm
6903-14	Push Fit Ring Spanner	14 mm	Square Size 14 x 18 mm
6903-15	Push Fit Ring Spanner	15 mm	Square Size 14 x 18 mm
6903-16	Push Fit Ring Spanner	16 mm	Square Size 14 x 18 mm
6903-17	Push Fit Ring Spanner	17 mm	Square Size 14 x 18 mm
6903-18	Push Fit Ring Spanner	18 mm	Square Size 14 x 18 mm
6903-19	Push Fit Ring Spanner	19 mm	Square Size 14 x 18 mm
6903-21	Push Fit Ring Spanner	21 mm	Square Size 14 x 18 mm
6903-22	Push Fit Ring Spanner	22 mm	Square Size 14 x 18 mm
6903-24	Push Fit Ring Spanner	24 mm	Square Size 14 x 18 mm
6903-27	Push Fit Ring Spanner	27 mm	Square Size 14 x 18 mm
6903-30	Push Fit Ring Spanner	30 mm	Square Size 14 x 18 mm
6903-32	Push Fit Ring Spanner	32 mm	Square Size 14 x 18 mm
6903-34	Push Fit Ring Spanner	34 mm	Square Size 14 x 18 mm
6903-36	Push Fit Ring Spanner	36 mm	Square Size 14 x 18 mm
6903-41	Push Fit Ring Spanner	41 mm	Square Size 14 x 18 mm



Push Fit Ring Spanner | open Type | Square Size 9 x 12 mm

- rectangular shaft
- square size 9 x 12 mm
- with locking pin
- surface finish: satin chrome plated



Item #	Description				
6904-10	Push Fit Ring Spanner	open Type	10 mm	Square Size 9 x 12 mm	
6904-11	Push Fit Ring Spanner	open Type	11 mm	Square Size 9 x 12 mm	
6904-12	Push Fit Ring Spanner	open Type	12 mm	Square Size 9 x 12 mm	
6904-13	Push Fit Ring Spanner	open Type	13 mm	Square Size 9 x 12 mm	
6904-14	Push Fit Ring Spanner	open Type	14 mm	Square Size 9 x 12 mm	
6904-16	Push Fit Ring Spanner	open Type	16 mm	Square Size 9 x 12 mm	
6904-17	Push Fit Ring Spanner	open Type	17 mm	Square Size 9 x 12 mm	
6904-18	Push Fit Ring Spanner	open Type	18 mm	Square Size 9 x 12 mm	
6904-19	Push Fit Ring Spanner	open Type	19 mm	Square Size 9 x 12 mm	
6904-21	Push Fit Ring Spanner	open Type	21 mm	Square Size 9 x 12 mm	
6904-22	Push Fit Ring Spanner	open Type	22 mm	Square Size 9 x 12 mm	



Torque Wrench Set | 12.5 mm (1/2") | 40 - 200 Nm

- tire change service set
- ideal for wheel changing on most popular rims
- colour coded protective impact sockets suitable for manual and impact wrench operation
- incl. torque extension for pre-tightening wheel bolts and nuts with impact wrenches
- automatic tightening stop prevents damage to rims and screws

scope of delivery:

- torque wrench
 - ratcheting head, reversible, 48 teeth
 - suitable on screws with right hand thread
 - viewing window for torque value
 - resolution: +/- 4%, incl. test certificate
 - torque range: 40 - 200 Nm
 - fine scale: 0.5 Nm
 - length: 537 mm
- Protective Impact Socket | 12.5 mm (1/2") Drive | 17 mm (BGS 7201)
- Protective Impact Socket | 12.5 mm (1/2") Drive | 19 mm (BGS 7202)
- Protective Impact Socket | 12.5 mm (1/2") Drive | 21 mm (BGS 7203)
- Torsion Bar | 120 Nm | length: 195 mm (BGS 185-120), the tolerance when using the torsion bar is approx. 10% if using an impact wrench with 250Nm within 5 seconds



Item #
2818



Universal Deburring Tool

- 4 multi purpose blades for use on a variety of materials, e. g. steel, aluminium, brass, copper and plastic
- ideal tool for plumbers, mechanic engineers
- 4 lockable blades, following types:
 - blade for use on steel, aluminum and plastic
 - blade for use on brass and cast iron
 - blade for deburring from 1 to 10.4 mm
 - special blade for tool and die makers



Item #
6751



Aluminum Hammer | 500 g

- for damage-free mounting of parts
- length: 360 mm
- head diameter: 45 mm
- material: aluminum



Item #
894

Dead Blow Hammer | Hickory Handle | Ø 30 mm

- with nylon faces



Item #
1859-30

Aluminum / Plastic Hammer | extra long Head | 300 g

- with replaceable plastic head
- flat / crowned design
- does not damage other objects
- length: 310 mm
- head diameter: 30 mm
- total head length: 150 mm
- plastic tip length: 24 mm
- head weight: 300 g
- material: aluminum
- material handle: wood



Item #
6664

STI Short Machine Taps | HSS-G

- with straight groove
- suitable for regrooving right internal threads in already drilled holes

Item #	Description
1952-3	STI Short Machine Tap HSS-G M5 x 0.8
1953-3	STI Short Machine Tap HSS-G M6 x 1.0
9431-3	STI Short Machine Tap HSS-G M7 x 1.0
9427-3	STI Short Machine Tap HSS-G M8 x 1.0
1954-3	STI Short Machine Tap HSS-G M8 x 1.25
9435-3	STI Short Machine Tap HSS-G M9 x 1.25
1958-3	STI Short Machine Tap HSS-G M10 x 1.0
9428-3	STI Short Machine Tap HSS-G M10 x 1.25
1955-3	STI Short Machine Tap HSS-G M10 x 1.5
9436-3	STI Short Machine Tap HSS-G M11 x 1.5
9437-3	STI Short Machine Tap HSS-G M12 x 1.0
9429-3	STI Short Machine Tap HSS-G M12 x 1.5
1956-3	STI Short Machine Tap HSS-G M12 x 1.75
1957-3	STI Short Machine Tap HSS-G M14 x 1.25
9430-3	STI Short Machine Tap HSS-G M14 x 1.5
9432-3	STI Short Machine Tap HSS-G M16 x 1.5
9433-3	STI Short Machine Tap HSS-G M18 x 1.5
9434-3	STI Short Machine Tap HSS-G M20 x 1.5
9438-3	STI Short Machine Tap HSS-G M24 x 2.0



Tap Sets | Starter, Plug, Bottoming Tap | HSS-G | 3 pcs.

- made of HSS-G steel
- includes starter, plug and bottoming tap
- for thread/incline:

- BGS 920: M3 x 0.5
- BGS 921: M4 x 0.7
- BGS 922: M5 x 0.8
- BGS 927: M14 x 2.0
- BGS 928: M16 x 2.0



Item #	Description
920	Tap Set Starter, Plug, Bottoming Tap HSS-G M3 x 0.5 3 pcs.
921	Tap Set Starter, Plug, Bottoming Tap HSS-G M4 x 0.7 3 pcs.
922	Tap Set Starter, Plug, Bottoming Tap HSS-G M5 x 0.8 3 pcs.
927	Tap Set Starter, Plug, Bottoming Tap HSS-G M14 x 2.0 3 pcs.
928	Tap Set Starter, Plug, Bottoming Tap HSS-G M16 x 2.0 3 pcs.



Universal Outside Thread Chaser | Ø 35 - 130 mm

- for regrooving and cleaning external threads on axle tubes, thrust rods, steering rods, etc.
- no need to use different taps
- quick thread insert changes possible
- can be attached to any undamaged thread position and regrooves the thread from this position
- no damage of the thread due to the soft holding guides
- suitable for metric and imperial right and left hand threads
- infinitely adjustable

scope of delivery:

- thread chaser
- regrooving insert (metric), for thread pitches 1.0 - 1.25 - 1.5 - 1.75 mm
- regrooving insert (metric), for thread pitches 2.0 - 2.5 - 3.0 - 3.5 mm
- regrooving insert (inch), for thread pitches 4 - 5 - 6 - 7
- regrooving insert (inch), for thread pitches 7.5 - 9 - 11 - 11.5
- regrooving insert (inch), for thread pitches 8 - 10 - 12 - 14
- regrooving insert (inch), for thread pitches 16 - 18 - 20 - 24



Item #
9816

Tap Adaptor Socket Set | 6,3 mm (1/4") / 10 mm (3/8") Drive | 8 pcs.

6.3 1/4 10 3/8

- internal square 1/4" (6.3 mm) and 3/8" (10 mm) drive
- works with a ratchet or sliding handle
- suitable for taps: 1.5 mm - 12 mm, 1/16" - 1/2" NF/NC
- with magnet for holding the tap
- ideal in tight places where a tap holder cannot be used
- on metal rail



Item #
9771



HSS Milling Cutter Set, extra short | 5 pcs.

- suitable for drilling and milling machines
- for grinding and shaping wood, plastic, aluminium, copper, etc.
- shaft diameter: 3 mm
- material: HSS steel
- max. drive speed.: 50.000 rpm
- shaft length: 23,5 mm
- 1 HSS milling cutter, spherical, shaft Ø 3 mm
- 2 HSS milling cutter, cylindrical, shaft Ø 3 mm
- 2 HSS milling cutter, conical, shaft Ø 3 mm



Item #
9596



Machinist's Files | Hand | 1st, 2nd, 3rd Cut | 150 - 200 mm

- DIN 7261
- form A
- 1st, 2nd, 3rd cut (coarse - middle - fine)
- rectangular file with pivot and cut on three sides
- labor saving file teeth
- universally applicable e.g. for surface machining, deburring etc.
- non-slip 2-component handle
- length: 150 - 200 mm (without handle)



Item #	Description			
6570	Machinist's File	Hand	1st Cut	150 mm
6571	Machinist's File	Hand	2nd Cut	150 mm
6572	Machinist's File	Hand	3rd Cut	150 mm
6550	Machinist's File	Hand	1st Cut	200 mm
6551	Machinist's File	Hand	2nd Cut	200 mm
6552	Machinist's File	Hand	3rd Cut	200 mm



Machinist's Files | Halfround | 1st, 2nd, 3rd Cut | 150 - 200 mm

- DIN 7261
- form E
- 1st, 2nd, 3rd cut (coarse - middle - fine)
- halfround files with pivot and cut on two sides
- labor saving file teeth
- universally applicable e.g. for surface machining, deburring etc.
- non-slip 2-component handle
- length: 150 - 200 mm (without handle)



Item #	Description			
6573	Machinist's File	Halfround	1st Cut	150 mm
6574	Machinist's File	Halfround	2nd Cut	150 mm
6575	Machinist's File	Halfround	3rd Cut	150 mm
6553	Machinist's File	Halfround	1st Cut	200 mm
6554	Machinist's File	Halfround	2nd Cut	200 mm
6555	Machinist's File	Halfround	3rd Cut	200 mm



Machinist's Files | Round | 1st, 2nd, 3rd Cut | 150 - 200 mm

- DIN 7261
- form F
- 1st, 2nd, 3rd cut (coarse - middle - fine)
- round files with framed cut
- labor saving file teeth
- universally applicable e.g. for surface machining, deburring etc.
- non-slip 2-component handle
- length: 150 - 200 mm (without handle)



Item #	Description				
6576	Machinist's File	Round	1st Cut	150 mm	
6577	Machinist's File	Round	2nd Cut	150 mm	
6578	Machinist's File	Round	3rd Cut	150 mm	
6556	Machinist's File	Round	1st Cut	200 mm	
6557	Machinist's File	Round	2nd Cut	200 mm	
6558	Machinist's File	Round	3rd Cut	200 mm	



Machinist's Files | Square | 1st, 2nd, 3rd Cut | 150 - 200 mm

- DIN 7261
- form D
- 1st, 2nd, 3rd cut (coarse - middle - fine)
- square files with cut on four sides
- labor-saving file teeth
- universally applicable e.g. for surface machining, deburring etc.
- non-slip 2-component handle
- length: 150 - 200 mm (without handle)



Item #	Description				
6579	Machinist's File	Square	1st Cut	150 mm	
6590	Machinist's File	Square	2nd Cut	150 mm	
6591	Machinist's File	Square	3rd Cut	150 mm	
6559	Machinist's File	Square	1st Cut	200 mm	
6560	Machinist's File	Square	2nd Cut	200 mm	
6561	Machinist's File	Square	3rd Cut	200 mm	



Machinist's Files | Triangular | 1st, 2nd, 3rd Cut | 150 - 200 mm

- DIN 7261
- form C
- 1st, 2nd, 3rd cut (coarse - middle - fine)
- triangle, cuspid files with cut on three sides
- labor-saving file teeth
- universally applicable e.g. for surface machining, deburring etc.
- non-slip 2-component handle
- length: 150 - 200 mm (without handle)



Item #	Description			
6592	Machinist's File	Triangular	1st Cut	150 mm
6593	Machinist's File	Triangular	2nd Cut	150 mm
6594	Machinist's File	Triangular	3rd Cut	150 mm
6562	Machinist's File	Triangular	1st Cut	200 mm
6563	Machinist's File	Triangular	2nd Cut	200 mm
6564	Machinist's File	Triangular	3rd Cut	200 mm



Steel Brushes | 6.3 mm (1/4") Drive | 3 pcs.

- for cleaning and deburring cylinders, bushings, pipes, etc.
- also for use on electric and air powered drills

Item #	Description			
3078-8-S	Steel Brush	8 mm	6.3 mm (1/4") Drive	3 pcs.
3078-9-S	Steel Brush	9 mm	6.3 mm (1/4") Drive	3 pcs.
3078-10-S	Steel Brush	10 mm	6.3 mm (1/4") Drive	3 pcs.
3078-11-S	Steel Brush	11 mm	6.3 mm (1/4") Drive	3 pcs.
3078-12-S	Steel Brush	12 mm	6.3 mm (1/4") Drive	3 pcs.
3078-13-S	Steel Brush	13 mm	6.3 mm (1/4") Drive	3 pcs.
3078-14-S	Steel Brush	14 mm	6.3 mm (1/4") Drive	3 pcs.
3078-15-S	Steel Brush	15 mm	6.3 mm (1/4") Drive	3 pcs.
3078-16-S	Steel Brush	16 mm	6.3 mm (1/4") Drive	3 pcs.
3078-17-S	Steel Brush	17 mm	6.3 mm (1/4") Drive	3 pcs.
3078-18-S	Steel Brush	18 mm	6.3 mm (1/4") Drive	3 pcs.
3078-19-S	Steel Brush	19 mm	6.3 mm (1/4") Drive	3 pcs.



Brass Brushes | 6.3 mm (1/4") Drive | 3 pcs.

- for cleaning and deburring cylinders, bushings, pipes, etc.
- also for use on electric and air powered drills

Item #	Description			
3078-8-M	Brass Brush	8 mm	6.3 mm (1/4") Drive	3 pcs.
3078-9-M	Brass Brush	9 mm	6.3 mm (1/4") Drive	3 pcs.
3078-10-M	Brass Brush	10 mm	6.3 mm (1/4") Drive	3 pcs.
3078-11-M	Brass Brush	11 mm	6.3 mm (1/4") Drive	3 pcs.
3078-12-M	Brass Brush	12 mm	6.3 mm (1/4") Drive	3 pcs.
3078-13-M	Brass Brush	13 mm	6.3 mm (1/4") Drive	3 pcs.
3078-14-M	Brass Brush	14 mm	6.3 mm (1/4") Drive	3 pcs.
3078-15-M	Brass Brush	15 mm	6.3 mm (1/4") Drive	3 pcs.
3078-16-M	Brass Brush	16 mm	6.3 mm (1/4") Drive	3 pcs.
3078-17-M	Brass Brush	17 mm	6.3 mm (1/4") Drive	3 pcs.
3078-18-M	Brass Brush	18 mm	6.3 mm (1/4") Drive	3 pcs.
3078-19-M	Brass Brush	19 mm	6.3 mm (1/4") Drive	3 pcs.



Hand Tools

Nylon Brushes | 6.3 mm (1/4") Drive | 3 pcs.

- for cleaning and deburring cylinders, bushings, pipes, etc.
- also for use on electric and air powered drills

Item #	Description			
3078-8-N	Nylon Brush	8 mm	6.3 mm (1/4") Drive	3 pcs.
3078-9-N	Nylon Brush	9 mm	6.3 mm (1/4") Drive	3 pcs.
3078-10-N	Nylon Brush	10 mm	6.3 mm (1/4") Drive	3 pcs.
3078-11-N	Nylon Brush	11 mm	6.3 mm (1/4") Drive	3 pcs.
3078-12-N	Nylon Brush	12 mm	6.3 mm (1/4") Drive	3 pcs.
3078-13-N	Nylon Brush	13 mm	6.3 mm (1/4") Drive	3 pcs.
3078-14-N	Nylon Brush	14 mm	6.3 mm (1/4") Drive	3 pcs.
3078-15-N	Nylon Brush	15 mm	6.3 mm (1/4") Drive	3 pcs.
3078-16-N	Nylon Brush	16 mm	6.3 mm (1/4") Drive	3 pcs.
3078-17-N	Nylon Brush	17 mm	6.3 mm (1/4") Drive	3 pcs.
3078-18-N	Nylon Brush	18 mm	6.3 mm (1/4") Drive	3 pcs.
3078-19-N	Nylon Brush	19 mm	6.3 mm (1/4") Drive	3 pcs.



Handle | for Bits, Brushes, etc. | internal Hexagon 6.3 mm (1/4")

- 6.3 mm (1/4") drive
- quick lock
- suitable for brush set (BGS 3078)
- can be used with all bits 6.3 mm (1/4")



Item #
3078-2



Extension | for Bits, Brushes, etc. | internal Hexagon 6.3 mm (1/4") Drive | 150 mm

- length: 150 mm
- suitable for brush set (BGS 3078)
- can be used with all bits 6.3 mm (1/4")

Item #
3078-3



Battery Pole and Clamp Cleaning Brush | 85 mm

- for removing contact corrosion and acid deposits on battery terminals and pole terminals
- suitable for interior and exterior cleaning
- external brush Ø 23 mm
- internal brush Ø 20 mm
- material: metal bristles - housing: plastic

Item #
6742



Drill Chuck Adaptor | 1/2" x 20 UNF | for SDS chuck

- for SDS chuck
- 1/2" x 20 UNF
- also suitable for drill chuck Art. 9937

Item #
9766



Angled Drill Head with Keyless Chuck

- suitable for drills & bits with 6,3 mm (1/4") shaft
- for drilling and screwing at 90° angles in hard-to-reach places
- ideal for narrow work areas or angles
- ball bearing guide
- extra heavy and stable design
- 3 bits PH1 - PH2 - PZ1 included
- 6.3 mm (1/4") drive
- length: 155 mm
- head length: 31 mm

Item #
9758



Quick Release Nut | for Angle Grinder | M14

- for quick and toolless changing
- to be used only with cutting and grinding discs
- for standard angle grinders with M14 spindle thread
- usable with disc diameters up to 230 mm and disc thickness up to max. 6 mm
- material: tool steel

Item #
9549



HSS Twist Drill Set | Core Hole Sizes | Ø 2.5 - 10.2 mm | 7 pcs.

- pointed angle: 135° cross cut
- milled
- 7 twist drills with core hole sizes 2.5 - 3.3 - 4.2 - 5.0 - 6.8 - 8.5 - 10.2 mm

Item #
9580



Step Drill and Twist Drill Set | Ø 4 - 12 / 4 - 20 mm | 2 - 5 mm | 10 pcs.

- material: HSS steel
- step drill Ø 4-12 mm
- step drill Ø 4-20 mm
- 2 twist drills 2 mm
- 2 twist drills 3 mm
- 2 twist drills 4 mm
- 2 twist drills 5 mm

Item #
1686



Blind Rivet Drill Set | HSS | 2.4 - 6.4 mm | 15 pcs.

- milled
- pointed angle: 135° cross cut
- suitable for rivet holes, screw holes, thin sheet metal holes in body and metal construction

scope of delivery:

- 2 blind rivet drills 2.4 mm
- 3 blind rivet drills 3.2 mm
- 5 blind rivet drills 4.0 mm
- 4 blind rivet drills 4.8 mm
- 1 blind rivet drills 6.4 mm

Item #
2097



Inner Bearing Puller

- for disassembling of pilot bearings (guide bearing of gearbox input shaft)
- inner width (outrigger): 74 mm
- total width: 94 mm
- threaded bolt M12, length 180 mm
- hexagon nut, 19 mm
- BGS 9462: clamping width: 15 - 31 mm, max. bearing width: up to 19,1 mm
- BGS 9463: clamping width: 24 - 51 mm, max. bearing width: up to 25,4 mm



Item #	Description
9462	Inner Bearing Puller for Ø 15 - 31 mm
9463	Inner Bearing Puller for Ø 24 - 51 mm

Drift Punch / Center Punch Set | 120 mm | 1 - 5 mm | 6 pcs.

- hardened, coloured shaft
- regrindable tip
- 10 mm octagonal shaft
- in plastic holder

scope of delivery:

- drift punch, 120 mm, 8-pt, Ø 1 mm (DIN 6458D)
- drift punch, 120 mm, 8-pt, Ø 2 mm (DIN 6458D)
- drift punch, 120 mm, 8-pt, Ø 3 mm (DIN 6458D)
- drift punch, 120 mm, 8-pt, Ø 4 mm (DIN 6458D)
- drift punch, 120 mm, 8-pt, Ø 5 mm (DIN 6458D)
- center punch 120 mm, 8-pt, Ø 4 mm (DIN 7250)



Item #	Description
9409	Drift Punch / Center Punch Set 120 mm 1 - 5 mm 6 pcs.
9409-1	Drift Punch DIN 6458D 120 mm Ø 1 mm
9409-2	Drift Punch DIN 6458D 120 mm Ø 2 mm
9409-3	Drift Punch DIN 6458D 120 mm Ø 3 mm
9409-4	Drift Punch DIN 6458D 120 mm Ø 4 mm
9409-5	Drift Punch DIN 6458D 120 mm Ø 5 mm
9409-6	Center Punch DIN 7250 4 x 10 x 120 mm



Crimping Pliers Set | hydraulic | 16 - 400 mm²

- for crimping of aluminum and copper tube connectors and terminals on cables with large cross-section
- professional hexagon pressing
- prevents high transition resistance
- automatically adjusting pressure
- crimping range (aluminum): 35 - 300 mm²
- crimping range (copper): 16 - 400 mm²
- max. pressure: 16 t
- max. stroke: 24 mm

scope of delivery:

- crimping tool
- 12 interchangeable crimping jaws for wire cross section: 16, 25, 35, 50, 70, 95, 120, 150, 185, 240, 300, 400 mm²



Item #
9573

Connector Assortment | Superseal 1.5 | 350 pcs.

- for repairing of existing cabling and for new wiring with Superseal 1.5 splash water protected and dustproof connectors
- 50 green F1.0 wire seals for outer diameter 1.2 - 1.8 mm
- 50 yellow F1.4 wire seals for outer diameter 1.6 - 2.4 mm
- 50 male terminals for cable cross section 0.3 - 0.5 mm²
- 50 female terminals for cable cross section 0.3 - 0.5 mm²
- 50 male terminals for cable cross section 0.85 - 1.25 mm²
- 50 female terminals for cable cross section 0.85 - 1.25 mm²
- 6 male housings (1 pole)
- 6 female housings (1 pole)
- 6 male housings (2 pole)
- 6 female housings (2 pole)
- 4 male housings (3 pole)
- 4 female housings (3 pole)
- 4 male housings (4 pole)
- 4 female housings (4 pole)
- 3 male housings (5 pole)
- 3 female housings (5 pole)
- 2 male housings (6 pole)
- 2 female housings (6 pole)
- wire seal material: silicone, seal outer diameter: 6.1 mm
- terminal material: brass
- housing material: PA66+GF
- temperature range: -40°C to 120°C



Item #
9634

Nut Riveter | M3 - M8 | 7 pcs.

- for rivet nuts M3 - M4 - M5 - M6 - M8
- two lever arms with ergonomic handles for two-hand operation with immaculate transmission of power
- 1 riveter
- 1 connecting nut with rivet nut holder M3 for drill hole diameter Ø 5.0 mm
- 1 connecting nut with rivet nut holder M4 for drill hole diameter Ø 6.0 mm
- 1 connecting nut with rivet nut holder M5 for drill hole diameter Ø 7.0 mm
- 1 connecting nut with rivet nut holder M6 for drill hole diameter Ø 9.0 mm
- 1 connecting nut with rivet nut holder M8 for drill hole diameter Ø 11.0 mm
- 1 installation wrench for nosepiece / mandrel pairs



Item #
404

Rivet Nut Attachment | M6 / M8 / M10

- converts any drill into a rivet gun
- works with standard electric drills (reversible, torque 50 - 100 Nm)
- with mounting key
- with threaded mandrels and nosepieces in M6 - M8 - M10

Item #
9655



Hose Stripping Pliers | Locking Type | 202 mm

- for easy separating of hose connections with firm grip on the line
- jaws for 4.8 mm (3/16"), 6.4 mm (1/4") und 9.5 mm (3/8") pipes
- suitable for hoses connected on smooth pipes on which pulling with drag force is not possible
- with jaw lock
- extra flat version for working in areas with limited spaces
- special jaw lock for secure gripping
- dip insulated handles
- hardness: 43-47 HRC
- width: 94 mm

Item #
9737



Hose Clamp Pliers | 0 - 40 mm | 440 mm

- for working in hard-to-reach places
- opening width min.: 0 mm
- opening width max.: 40 mm
- dip coated handles
- with ratchet locking mechanism

Item #
6675



Hose Clamp Pliers | with interchangeable Bowden Cables | 635 - 670 mm

- for mounting and disassembly of different flexible belt clamps from 0 - 75 mm
- for use even in narrow spaces with interchangeable bowden cables
- special design for easy and quick change of the tensioning head unit for different hose clamps
- surface finish: burnished

scope of delivery:

- hose clamp pliers with bowden cable
- 670 mm bowden cable with clamp head for standard hose clamps, opening range 3 to 52 mm
- 635 mm bowden cable with clamp head for Clic-R type hose clamps, opening range 0 to 24 mm
- 670 mm bowden cable with dual side clamp head for spring type & truck hose clamps, opening range 0 to 75 mm



Item #
9815



Circlip Pliers Set | 250 mm | 4 pcs.

- for loosening an and fastening of snap rings
- dip insulated handles with non-slip surface
- packed in a solid wallet

scope of delivery:

- circlip pliers, angled, for outside circlips, 250 mm, opening width max. 36 mm
- circlip pliers, angled, for inside circlips, 250 mm, opening width max. 31 mm
- circlip pliers, straight, for inside circlips, 250 mm, opening width max. 39 mm
- circlip pliers, straight, for outside circlips, 250 mm, opening width max. 39 mm



Item #
652

Circlip Pliers | angled | for outside Circlips

- for loosening an and fastening of snap rings
- dip insulated handles with non-slip surface
- surface finish: nickel plated

BGS 450-1

- pliers tip Ø 1.5 mm
- opening width max. 36 mm
- length: 150 mm

BGS 447-1

- pliers tip Ø 2.0 mm
- opening width max. 30 mm
- length: 175 mm

BGS 650-1

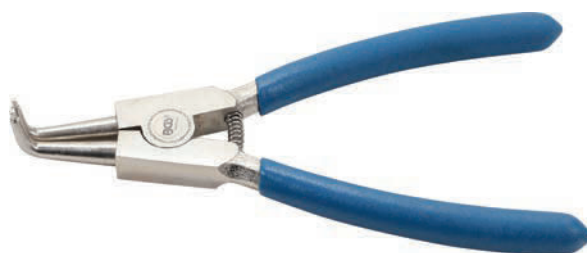
- pliers tip Ø 2.4 mm
- opening width max. 36 mm
- length: 225 mm

BGS 651-1

- pliers tip Ø 3.2 mm
- opening width max. 39 mm
- length: 250 mm

BGS 652-1

- pliers tip Ø 2.4 mm
- opening width max. 36 mm
- length: 300 mm



Item #	Description			
450-1	Circlip Pliers	angled	for outside Circlips	150 mm
447-1	Circlip Pliers	angled	for outside Circlips	175 mm
650-1	Circlip Pliers	angled	for outside Circlips	225 mm
652-1	Circlip Pliers	angled	for outside Circlips	250 mm
651-1	Circlip Pliers	angled	for outside Circlips	300 mm

Circlip Pliers | angled | for inside Circlips

- for loosening an and fastening of snap rings
- dip insulated handles with non-slip surface
- pliers tip Ø 2.0 mm
- opening width max. 30 mm
- surface finish: nickel plated

BGS 450-4

- pliers tip Ø 1.5 mm
- opening width max. 31 mm
- length: 150 mm

BGS 447-4

- pliers tip Ø 2.0 mm
- opening width max. 30 mm
- length: 175 mm

BGS 650-4

- pliers tip Ø 2.4 mm
- opening width max. 31 mm
- length: 225 mm

BGS 652-4

- pliers tip Ø 2.4 mm
- opening width max. 31 mm
- length: 250 mm

BGS 651-4

- pliers tip Ø 3.2 mm
- opening width max. 59 mm
- length: 300 mm



Item #	Description
450-4	Circlip Pliers angled for inside Circlips 150 mm
447-4	Circlip Pliers angled for inside Circlips 175 mm
650-4	Circlip Pliers angled for inside Circlips 225 mm
652-4	Circlip Pliers angled for inside Circlips 250 mm
651-4	Circlip Pliers angled for inside Circlips 300 mm

Circlip Pliers | straight | for inside Circlips

- for loosening an and fastening of snap rings
- dip insulated handles with non-slip surface
- surface finish: nickel plated

BGS 450-2

- pliers tip Ø 1.5 mm
- opening width max. 36 mm
- length: 150 mm

BGS 447-2

- pliers tip Ø 2.0 mm
- opening width max. 38 mm
- length: 175 mm

BGS 650-2

- pliers tip Ø 2.4 mm
- opening width max. 36 mm
- length: 225 mm

BGS 652-2

- pliers tip Ø 2.4 mm
- opening width max. 36 mm
- length: 250 mm

BGS 651-2

- pliers tip Ø 3.2 mm
- opening width max. 68 mm
- length: 300 mm



Item #	Description		
450-2	Circlip Pliers	straight	for inside Circlips 150 mm
447-2	Circlip Pliers	straight	for inside Circlips 175 mm
650-2	Circlip Pliers	straight	for inside Circlips 225 mm
652-2	Circlip Pliers	straight	for inside Circlips 250 mm
651-2	Circlip Pliers	straight	for inside Circlips 300 mm

Circlip Pliers | straight | for outside Circlips

- for loosening an and fastening of snap rings
- dip insulated handles with non-slip surface
- pliers tip Ø 2.0 mm
- 39 mm
- surface finish: nickel plated

BGS 450-3

- pliers tip Ø 1.5 mm
- opening width max. 39 mm
- length: 150 mm

BGS 447-3

- pliers tip Ø 2.0 mm
- opening width max. 39 mm
- length: 175 mm

BGS 650-3

- pliers tip Ø 2.4 mm
- opening width max. 39 mm
- length: 225 mm

BGS 652-3

- pliers tip Ø 2.4 mm
- opening width max. 39 mm
- length: 250 mm

BGS 651-3

- pliers tip Ø 3.2 mm
- opening width max. 48 mm
- length: 300 mm



Item #	Description
450-3	Circlip Pliers straight for outside Circlips 150 mm
447-3	Circlip Pliers straight for outside Circlips 175 mm
650-3	Circlip Pliers straight for outside Circlips 225 mm
652-3	Circlip Pliers straight for outside Circlips 250 mm
651-3	Circlip Pliers straight for outside Circlips 300 mm

Circlip Pliers | angled | 500 mm

- for loosening and fastening of snap rings
- heavy-duty type
- with ratchet locking mechanism
- dip insulated handles with non-slip surface
- pliers tip Ø 3.5 mm
- opening width min. 165 mm
- opening width max. 300 mm
- surface finish: nickel plated
- BGS 6738: for inside circlips
- BGS 6739: for outside circlips



Item #	Description
6738	Circlip Pliers angled for inside Circlips 500 mm
6739	Circlip Pliers angled for outside Circlips 500 mm

Circlip Pliers | straight | 500 mm

- for loosening an and fastening of snap rings
- heavy-duty type
- dip insulated handles with non-slip surface
- with ratchet locking mechanism
- pliers tip Ø 3.5 mm
- opening width min. 165 mm
- opening width max. 300 mm
- surface finish: nickel plated
- BGS 6736: for outside circlips
- BGS 6737: for inside circlips

Item #	Description
6736	Circlip Pliers straight for outside Circlips 500 mm
6737	Circlip Pliers straight for inside Circlips 500 mm



Water Pump Pliers | Box-Joint Type | 150 mm

- safety handles
- forged and hardened
- black lacquered finish
- polished jaws and joint
- handles dip insulated
- max. opening width 25 mm

Item #	
75109	 



Water Pump Pliers Set | Locking Type | 175 / 300 / 400 mm | 3 pcs.

- safety handles
- forged and hardened
- black lacquered finish
- polished jaws and joint
- handles dip insulated
- packed in a wallet
- the opening width is locked and can be unlocked for adjustments by a push button
- Water Pump Pliers, Locking Type, 175 mm, max. opening width 32 mm (Art. 9541)
- Water Pump Pliers, Locking Type, 240 mm, max. opening width 36 mm (Art. 9542)
- Water Pump Pliers, Locking Type, 300 mm, max. opening width 52 mm (Art. 9543)



Item #	Description
9545	Water Pump Pliers Set Locking Type 175 / 240 / 300 mm 3 pcs.
9541	Water Pump Pliers Locking Type 175 mm
9542	Water Pump Pliers Locking Type 240 mm
9543	Water Pump Pliers Locking Type 300 mm
9544	Water Pump Pliers Locking Type 400 mm



L-Type Wrench Set | extra long | internal Hexagon / internal Hexagon with Ball Head 1.5 - 10 mm | 13 pcs.

- long side with ball point
- in foldable holder

scope of delivery:

- L-type wrench internal hexagon / internal hexagon with ball point 1.5 mm, length (short side): 16 mm, blade length (long side): 89 mm
- L-type wrench internal hexagon / internal hexagon with ball point 2 mm, length (short side): 18 mm, blade length (long side): 100 mm
- L-type wrench internal hexagon / internal hexagon with ball point 2.5 mm, length (short side): 20 mm, blade length (long side): 112 mm
- L-type wrench internal hexagon / internal hexagon with ball point 3 mm, length (short side): 23 mm, blade length (long side): 126 mm
- L-type wrench internal hexagon / internal hexagon with ball point 4 mm, length (short side): 24 mm, blade length (long side): 140 mm
- L-type wrench internal hexagon / internal hexagon with ball point 4.5 mm, length (short side): 31 mm, blade length (long side): 155 mm
- L-type wrench internal hexagon / internal hexagon with ball point 5 mm, length (short side): 32 mm, blade length (long side): 160 mm
- L-type wrench internal hexagon / internal hexagon with ball point 5.5 mm, length (short side): 35 mm, blade length (long side): 174 mm
- L-type wrench internal hexagon / internal hexagon with ball point 6 mm, length (short side): 38 mm, blade length (long side): 182 mm
- L-type wrench internal hexagon / internal hexagon with ball point 7 mm, length (short side): 40 mm, blade length (long side): 193 mm
- L-type wrench internal hexagon / internal hexagon with ball point 8 mm, length (short side): 44 mm, blade length (long side): 200 mm
- L-type wrench internal hexagon / internal hexagon with ball point 9 mm, length (short side): 47 mm, blade length (long side): 215 mm
- L-type wrench internal hexagon / internal hexagon with ball point 10 mm, length (short side): 50 mm, blade length (long side): 230 mm



Item #
9799



L-Type Wrench Set | extra long | Inch Sizes | internal Hexagon / internal Hexagon with Ball Head 0.05" - 3/8" | 13 pcs.

- long side with ball point
- in foldable holder
- inch sizes

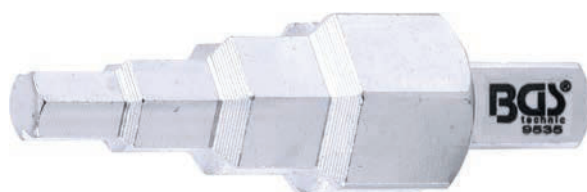
scope of delivery:

- L-type wrench internal hexagon / internal hexagon with ball point 0.5", blade length (short side): 16 mm, blade length (long side): 80 mm
- L-type wrench internal hexagon / internal hexagon with ball point 1/16", blade length (short side): 17 mm, blade length (long side): 90 mm
- L-type wrench internal hexagon / internal hexagon with ball point 5/64", blade length (short side): 18 mm, blade length (long side): 100 mm
- L-type wrench internal hexagon / internal hexagon with ball point 3/32", blade length (short side): 20 mm, blade length (long side): 112 mm
- L-type wrench internal hexagon / internal hexagon with ball point 7/64", blade length (short side): 22 mm, blade length (long side): 115 mm
- L-type wrench internal hexagon / internal hexagon with ball point 1/8", blade length (short side): 23 mm, blade length (long side): 126 mm
- L-type wrench internal hexagon / internal hexagon with ball point 9/64", blade length (short side): 25 mm, blade length (long side): 132 mm
- L-type wrench internal hexagon / internal hexagon with ball point 5/32", blade length (short side): 26 mm, blade length (long side): 140 mm
- L-type wrench internal hexagon / internal hexagon with ball point 3/16", blade length (short side): 29 mm, blade length (long side): 163 mm
- L-type wrench internal hexagon / internal hexagon with ball point 7/32", blade length (short side): 34 mm, blade length (long side): 167 mm
- L-type wrench internal hexagon / internal hexagon with ball point 1/4", blade length (short side): 37 mm, blade length (long side): 182 mm
- L-type wrench internal hexagon / internal hexagon with ball point 5/16", blade length (short side): 41 mm, blade length (long side): 205 mm
- L-type wrench internal hexagon / internal hexagon with ball point 3/8", blade length (short side): 45 mm, blade length (long side): 230 mm



Radiator Spud Wrench | 12.5 mm (1/2") Drive | 4 steps

- 10 mm (3/8") - 12.5 mm (1/2") - 20 mm (3/4") - 25 mm (1")
- suitable for ratchet BGS 312



Universal Switchboard Key

- for opening and closing technical locks of switchboards control devices, a/c, ventilation, access panels, service doors
- also for opening service doors of street lights, garbage cans etc.
- for industry, handcraft, town councils, energy suppliers, public services, DIY, sanitary, building, janitors and many more
- internal square: 6 - 8 mm
- internal spread: 8 - 9 mm
- two-way key bit: 3 - 5 mm
- dimensions: 72 x 72 mm
- weight 52 g



Item #
9803



Gasket Scraper | angled | 155 mm

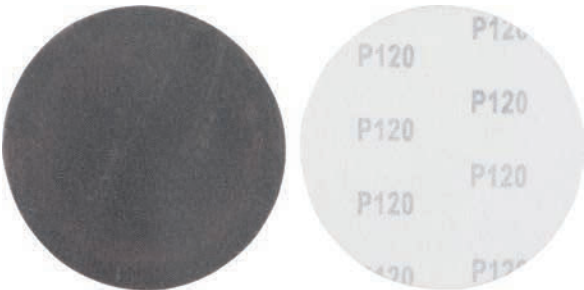
- for cleaning cylinder heads / valve covers and carburetor cover gaskets
- extra-long design for hard to reach areas
- scraper blade made of metal, width 15 mm
- angled blade head, approx. 50°
- handle type: 2 component handle
- total lenght: 275 mm



Item #	Description
6665	Gasket Scraper angled 155 mm
6665-1	Spare Blades Set for BGS 6665 5 pcs.

Sanding Pads Set | Grain Size 120 | Silicone Carbide | 10 pcs.

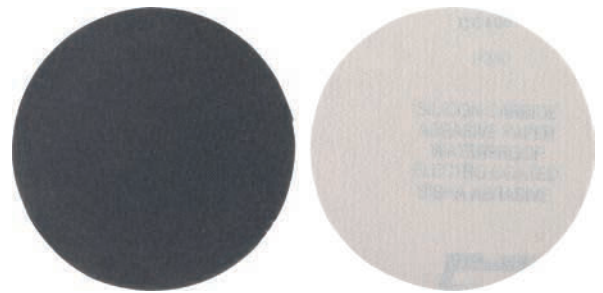
- suitable for cylindrical grinders, eccentric grinders, angle grinders
- diameter: 125 mm
- pads are held by a hook-and-loop system
- suitable for metal/wood



Item #
42025

Sanding Pads Set | Grain Size 240, fine | Silicone Carbide | 10 pcs.

- suitable for cylindrical grinders, eccentric grinders, angle grinders
- diameter: 125 mm
- pads are held by a hook-and-loop system
- suitable for metal/wood



Item #
42026

Sanding Pads Set | Grain Size 60 | Aluminium Oxide | 10 pcs.

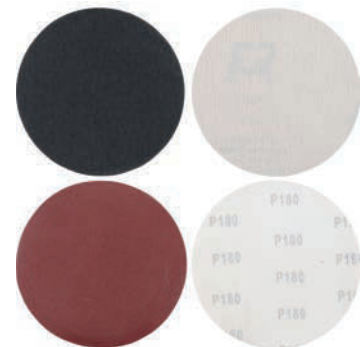
- suitable for cylindrical grinders, eccentric grinders, angle grinders
- outer diameter: 125 mm
- bore diameter: 22 mm
- suitable for metal



Item #	Description
42027	Sanding Pads Set Grain Size 60 Aluminium Oxide 10 pcs.
42028	Sanding Pads Set Grain Size 100 Aluminium Oxide 10 pcs.

Sanding Pads Set | for Drywall Sanders | Silicone Carbide / Aluminium Oxide | 10 pcs.

- diameter: 150 mm
- pads are held by a hook-and-loop system
- suitable for metal/wood



Item #	Description
42031	Sanding Pads Set for Drywall Sanders Grain Size 100 Silicone Carbide 10 pcs.
42032	Sanding Pads Set for Drywall Sanders Grain Size 180 Silicone Carbide 10 pcs.
42016	Sanding Pads Set for Drywall Sanders Grain Size 100 Aluminium Oxide 10 pcs.
42015	Sanding Pads Set for Drywall Sanders Grain Size 180 Aluminium Oxide 10 pcs.

Foil Eraser | Ø 90 mm

- use with electric drills
- for the removal of adhesive residues, etc. from metallic surfaces
- drive shaft: 6 mm, length: 18 mm
- incl. adaptor 5/16" x 24 to 6.0 mm shaft diameter, length: 40 mm
- max. 4000 rpm
- diameter: 90 mm
- thickness: 15 mm



Item #
3999-1

Foil Eraser | WAVE-Design | Ø 88 mm

- use with electric drills
- for the removal of adhesive residues, etc. from metallic surfaces
- drive shaft: 6 mm, length: 18 mm
- incl. adaptor 5/16" x 24 to 6.0 mm shaft diameter, length: 40 mm
- max. 4000 rpm
- diameter: 88 mm
- thickness: 15 mm



Item #
6654

Magnetiser / Demagnetiser

- for magnetising screwdriver tips, tools and small ferruginous parts
- screws and other small ferruginous parts stick on the tool smoothly after magnetizing
- uncomplicated recovery of magnetic effect with multiple moves



Item #
9560



VDE Pliers / Screwdriver Set | 12 pcs.

- 2-component anti-slip handles
- insulated according to DIN EN 60900
- VDE screwdrivers with suspension hole
- in zipper hanging bag
- 1 Voltage tester | 120 - 250 V | Blade Length 140 mm (BGS 725)
- 1 VDE Screwdriver | Slot SL 3 mm | Blade Length 75 mm (BGS 4925)
- 1 VDE Screwdriver | Slot SL 4 mm | Blade Length 100 mm (BGS 4924)
- 1 VDE Screwdriver | Slot SL 5.5 mm | Blade Length 125 mm (BGS 4940)
- 1 VDE Screwdriver | Slot SL 6.5 mm | Blade Length 150 mm (BGS 4941)
- 1 VDE Screwdriver | Cross Slot PH0 | Blade Length 75 mm (BGS 4942)
- 1 VDE Screwdriver | Cross Slot PH1 | Blade Length 80 mm (BGS 4926)
- 1 VDE Screwdriver | Cross Slot PH2 | Blade Length 100 mm (BGS 4927)
- 1 VDE Combination Pliers | 180 mm (BGS 7150)
- 1 VDE Side Cutter | 160 mm (BGS 7154)
- 1 VDE Long Nose Pliers | 160 mm (BGS 7151)
- 1 VDE Long Nose Pliers | 200 mm (BGS 7152)



Item #
7140



Combination Spanners | SAE

- DIN 3113-B
- cold forged
- matt chrome plated
- ring end 15° angled
- profile ring end: 12-point



Item #	Description
30680	Combination Spanner SAE 1"
30681	Combination Spanner SAE 1 1/32"
30683	Combination Spanner SAE 1 1/8"
30685	Combination Spanner SAE 1 1/4"



Combination Spanner Set | Open End with Ratchet Function | 8 - 21 mm | 13 pcs.

- cold forged spanners
- matt chrome plated
- open end with special profile: "Ratchet Function"
- ring end 15° angled
- profile ring end: 12-point
- packed in a tetron wallet
- combination spanners, open Ends with ratchet function: 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 mm

Item #
8914



Slogging Ring Spanners

- heavy duty type
- hot forged
- DIN 7444
- profile: 12-point
- surface finish: black burnished



Item #	Description
35124	Slogging Ring Spanner 24 mm
35127	Slogging Ring Spanner 27 mm
35130	Slogging Ring Spanner 30 mm
35132	Slogging Ring Spanner 32 mm
35134	Slogging Ring Spanner 34 mm
35136	Slogging Ring Spanner 36 mm
35138	Slogging Ring Spanner 38 mm
35141	Slogging Ring Spanner 41 mm
35146	Slogging Ring Spanner 46 mm
35150	Slogging Ring Spanner 50 mm
35155	Slogging Ring Spanner 55 mm
35160	Slogging Ring Spanner 60 mm
35165	Slogging Ring Spanner 65 mm
35170	Slogging Ring Spanner 70 mm
35175	Slogging Ring Spanner 75 mm
35180	Slogging Ring Spanner 80 mm



Slogging Ring Spanners | E-Type (for Torx) | with 2 Striking Faces

20  3/4

- for Torx screws on brake calliper screw connections on front axles and trailing axles of commercial vehicles
- use of the wrench for assembly and disassembly of the brake calliper screw connections makes disassembly of the steering tie lever unnecessary
- can be used with a torque wrench in accordance with the manufacturer's specifications
- 20 mm (3/4") drive
- E18 (Art. 35318)
 - suitable for **MAN** TGL TGM
- E20 (Art. 35320)
 - suitable for **MAN** TGL TGM
- E24 (Art. 35324) suitable for:
 - suitable for **MAN** TGA TGS TGX
 - suitable for **MERCEDES-BENZ** Atego 970-976 - trucks with air suspension / brake calliper screw connections on the rear axle



Item #	Description
35318	Slogging Ring Spanner E-Type (for Torx) with 2 Striking Faces E18
35320	Slogging Ring Spanner E-Type (for Torx) with 2 Striking Faces E20
35324	Slogging Ring Spanner E-Type (for Torx) with 2 Striking Faces E24



Hand Tools

Slogging Ring Spanner | 12-point | with 2 Striking Faces

20  3/4

- for brake calliper fittings on commercial vehicles
- can be used with a torque wrench in accordance with the manufacturer's specifications
- 20 mm (3/4") drive
- BGS 35334: 24 mm, suitable for **SAF**-brake calliper on **MERCEDES-BENZ** Atego und Actros
- BGS 35336: 26 mm, suitable for DAF - XF95 / XF105 / XF



Item #	Description
35334	Slogging Ring Spanner 12-point with 2 Striking Faces 24 mm
35336	Slogging Ring Spanner 12-point with 2 Striking Faces 26 mm



Slogging Open End Spanners

- heavy duty type
- hot forged
- DIN 133
- surface finish: black burnished



Item #	Description
35230	Slogging Open End Spanner 30 mm
35232	Slogging Open End Spanner 32 mm
35236	Slogging Open End Spanner 36 mm
35241	Slogging Open End Spanner 41 mm
35246	Slogging Open End Spanner 46 mm
35250	Slogging Open End Spanner 50 mm
35255	Slogging Open End Spanner 55 mm
35260	Slogging Open End Spanner 60 mm
35265	Slogging Open End Spanner 65 mm
35270	Slogging Open End Spanner 70 mm
35275	Slogging Open End Spanner 75 mm
35280	Slogging Open End Spanner 80 mm
35285	Slogging Open End Spanner 85 mm
35290	Slogging Open End Spanner 90 mm
35295	Slogging Open End Spanner 95 mm



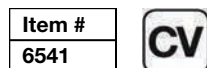
Pipe Wrench | open Type | 8-in-1 | 8 - 19 mm

- flexible swivel range allows working in small areas
- suitable for pipes and other tube fittings
- drive: hexagon, open (slotted)
- sizes: 8 - 10 - 11 - 12 - 13 - 14 - 17 - 19 mm



Ratchet Combination Wrench Set | 8 - 19 mm | 12 pcs.

- 72 teeth
- surface finish: satin chrome plated
- ratchet combination wrenches: 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm



Ratchet Combination Wrench Set | 8 - 19 mm | 8 pcs.

- 72 teeth
- surface finish: satin chrome plated
- ratchet combination wrenches: 8 - 10 - 12 - 13 - 14 - 15 - 17 - 19 mm

Item #
6540



Ratchet Combination Wrench Set | 8 - 32 mm | 13 pcs.

- 72 teeth
- surface finish: satin chrome plated
- ratchet combination wrenches: 8 - 10 - 12 - 13 - 14 - 17 - 19 - 21 - 22 - 24 - 27 - 30 - 32 mm

Item #
6542



Ratchet Combination Wrench

- 72 teeth
- output profile: 12-point
- surface finish: satin chrome plated



Item #	Description
6508	Ratchet Combination Wrench 8 mm
6509	Ratchet Combination Wrench 9 mm
6510	Ratchet Combination Wrench 10 mm
6511	Ratchet Combination Wrench 11 mm
6512	Ratchet Combination Wrench 12 mm
6513	Ratchet Combination Wrench 13 mm
6514	Ratchet Combination Wrench 14 mm
6515	Ratchet Combination Wrench 15 mm
6516	Ratchet Combination Wrench 16 mm
6517	Ratchet Combination Wrench 17 mm
6518	Ratchet Combination Wrench 18 mm
6519	Ratchet Combination Wrench 19 mm
6521	Ratchet Combination Wrench 21 mm
6522	Ratchet Combination Wrench 22 mm
6524	Ratchet Combination Wrench 24 mm
6527	Ratchet Combination Wrench 27 mm
6530	Ratchet Combination Wrench 30 mm
6532	Ratchet Combination Wrench 32 mm



Ratchet Wrench | adjustable

- ratchet is continuously adjustable up to 180° offset
- 72 teeth
- jaw 15°
- profile: 12-point
- surface finish: satin chrome plated



Item #	Description
6708	Ratchet Combination Wrench adjustable 8 mm
6709	Ratchet Combination Wrench adjustable 9 mm
6710	Ratchet Combination Wrench adjustable 10 mm
6711	Ratchet Combination Wrench adjustable 11 mm
6712	Ratchet Combination Wrench adjustable 12 mm
6713	Ratchet Combination Wrench adjustable 13 mm
6714	Ratchet Combination Wrench adjustable 14 mm
6715	Ratchet Combination Wrench adjustable 15 mm
6716	Ratchet Combination Wrench adjustable 16 mm
6717	Ratchet Combination Wrench adjustable 17 mm
6718	Ratchet Combination Wrench adjustable 18 mm
6719	Ratchet Combination Wrench adjustable 19 mm



Ratchet Combination Wrench | reversible

- 72 teeth
- jaw 15°
- ring side offset at 15°
- profile: 12-point
- surface finish: satin chrome plated



Item #	Description
6608	Ratchet Combination Wrench reversible 8 mm
6609	Ratchet Combination Wrench reversible 9 mm
6610	Ratchet Combination Wrench reversible 10 mm
6611	Ratchet Combination Wrench reversible 11 mm
6612	Ratchet Combination Wrench reversible 12 mm
6613	Ratchet Combination Wrench reversible 13 mm
6614	Ratchet Combination Wrench reversible 14 mm
6615	Ratchet Combination Wrench reversible 15 mm
6616	Ratchet Combination Wrench reversible 16 mm
6617	Ratchet Combination Wrench reversible 17 mm
6618	Ratchet Combination Wrench reversible 18 mm
6619	Ratchet Combination Wrench reversible 19 mm



Bench Vice Jaw Protector | plastic | 100 mm | 2 pcs.

- allows gentle clamping of sensitive workpieces such as aluminium, copper, etc.
- with magnetic stripe for holding the jaw protector on bench vice
- horizontally and vertically V-shaped profile

Item #
9796



Countersinks | DIN 335 - C - HSS

- cutting direction: right-hand cutting
- countersink angle: 90°
- shank: cylindrical shank
- thinning: shape C
- edges: 3
- material: HSS steel

Item #	Description
1997-4	Countersink HSS DIN 335 Form C Ø 12.4 mm
1997-5	Countersink HSS DIN 335 Form C Ø 16.5 mm
1997-6	Countersink HSS DIN 335 Form C Ø 20.5 mm



Nylon Belt Pouch

- particularly convenient for storing frequently required tools
- 7 compartments in different sizes
- hammer loop
- belt loop on the back

Item #
3319



Empty Case for 1/6 BGS Tool Trays

- for easy transport and spotlessly clean storage of tool trays
- suitable for 1/6 tool trays
- inner dimensions: 189 x 204 x 32 mm

Item #	
BOX16	 1/6



Empty Case for 1/3 BGS Tool Trays

- for easy transport and spotlessly clean storage of tool trays
- suitable for 1/3 tool trays
- with embedded, lagged handle
- inner dimensions: 189 x 408 x 32 mm

Item #	
BOX13	 1/3



Empty Case for 2/3 BGS Tool Trays

- for easy transport and spotlessly clean storage of tool trays
- suitable for 2/3 tool trays
- with embedded, lagged handle
- inner dimensions: 378 x 408 x 32 mm

Item #
BOX26



Face Pin Wrench Set | adjustable | Ø 2.5 - 9 mm

- face pin wrench, length: 245 mm
- carbon steel, hardened, zinc-plated
- with 4 exchangeable pins - only one wrench needed for all standard pins
- pin diameters: 2.5 - 4 / 3 - 5 / 6 - 8 / 7 - 9 mm
- max. opening width 102 mm
- double open end spanner 10 x 11 mm
- in plastic case

Item #
9602



Suction and Air Blow Gun | reversible | 9 pcs.

- applicable for sucking up dirt and dust particles into the collection bag as well as for blowing surfaces clean
- especially for difficult to access areas
- with one-hand reversing switch
- robust plastic housing
- interchangeable brush attachments:
 - tube attachment (round), Ø 28.5 mm, length 200 mm
 - tube attachment (flat), 14.5 mm x 32.5 mm, length 190 mm
 - telescope attachment, flexible, length 300 - 900 mm
 - nozzle attachment, Ø 8.5 mm, length 83 mm
- suction power: 9 cmHg (vacuum)
- air consumption: 96 L/min
- operating pressure: 6.3 Bar
- compressed air connection: 6.3 mm (1/4")
- recommended internal hose diameter: 10 mm (3/8")
- noise level (suction mode): LpA = 90 dB(A)
- noise level (blow gun mode): LpA = 100 dB(A)
- dimensions (pistol): 150 x 160 x 44 mm



Item #
3292

CV Boot Air Assembly Tool | 20 - 110 mm

- suitable for universally applicable and original vehicle axle collars
- with 8 sturdy spreader arms
- the arms are spread open by compressed air
- spreading width: 20-110 mm
- operating pressure: 5-8 bar (72-116 PSI)
- max. pressure: 8 bar (116 PSI)
- compressed air inlet: 6.3 mm (1/4")
- material: polyamide 6 with 30% glass fiber (PA 6 GF30)
- weight: 2.2 kg



Item #
9825

Air Impact Wrench | angled | 12.5 mm (1/2") | 550 Nm

12.5 mm 1/2"

- compact design with a device length of only 69 mm, allows use in places with limited space
- length (incl. square drive): 88 mm
- ring switch allows one-handed switching of the rotation direction
- adjustable torque in 3 steps for clockwise rotation
- low weight and low vibration for fatigue-free working
- jumbo hammer allows loosening of hard-to-loosen screw connections
- non-slip handle
- air outlet direction is adjustable at the handle
- impact mechanism: jumbo hammer
- square drive: 12.5 mm (1/2")
- free speed: 8500 rpm
- working torque: 27 - 231 Nm
- max. torque (clockwise): 325 Nm
- max. loosening torque (counterclockwise): 550 Nm
- air consumption: 113 L/min
- working pressure: 6.3 bar (90 PSI)
- air inlet: 6.3 mm (1/4")
- recommended hose-Ø: 10 mm (3/8")
- sound pressure level: LpA: 87.9 dB (A)
- sound power level: LwA: 98.9 dB (A)
- vibration level: ahd = 9.96 m/s² / K = 2.10 m/s²
- weight: 1.16 kg



Item #

6684

Retractable Air Hose Reel | Automatic | 12 m + 2 m

- with automatic reel stop, can be unlocked by briefly pulling the hose
- swivel holder
- for wall mounting, with mounting bracket
- max pressure: 20 bar (300 psi)
- hose material: pvc fabric
- outside diameter: 18 mm
- internal diameter: 12 mm
- compressed air connection: 6.3 mm (1/4")
- max. operating pressure: 20 bar
- connecting hose length: 2 m
- hose length: 12 m



Item #

3323

Die Grinder | extra short | 120 mm

- heavy and robust air die grinder for universal use - for contour grinding, cutting, polishing, shaping, deflashing and keying
- easy and handy to use
- extra short
- straight type
- 6 mm chuck
- length: 120 mm
- compressed air inlet: 6.3 mm (1/4")
- weight: 340 g
- working pressure: 6.2 bar
- idle speed: 25000 rpm
- air consumption: 68 l/min
- sound pressure level: $L_pA = 88 \text{ dB(A)}$
- sound power level: $L_wA = 99 \text{ dB(A)}$
- vibration level: $a_{hd} = 1.82 \text{ m/s}^2$ | $K = 0.68 \text{ m/s}^2$

Item #
9656



Die Grinder | extra short | 90° angle | 126 mm

- heavy and robust air die grinder for universal use - for contour grinding, cutting, polishing, shaping, deflashing and keying
- easy and handy to use
- extra short
- angled type
- 6 mm chuck
- length: 126 mm
- compressed air inlet : 6.3 mm (1/4")
- weight: 475 g
- working pressure: 6.2 bar
- idle speed: 18000 rpm
- air consumption: 79,6 l/min
- sound pressure level: $L_pA = 89 \text{ dB(A)}$
- sound power level: $L_wA = 103 \text{ dB(A)}$
- vibration level: $a_{hd} = 4.3 \text{ m/s}^2$ | $K = 0.92 \text{ m/s}^2$

Item #
9657



Cordless Grease Gun | 18 V | 2.0 Ah

- with rechargeable battery for mobile working - ideal for cars and machines, perfect equipment for all service teams
- max. operating pressure: 551 bar (8000 psi)
- grease output: 85 g/min @ 69 bar (1000 psi)
- grease reservoir capacity: 411g
- grease hose length: 700 mm
- operating temperature range: -18C° to +50C°
- operating current: 4 A
- battery: 18 V, 2000 mAh, Li-ion
- charger input: 90 - 230 V~, 50 - 60 Hz, 45W
- charger output: 7.2 - 18 V, 1500 mA
- charging time: 1 hour
- weight: 3150g

scope of delivery:

- cordless grease gun
- charger for grease gun
- battery, 18 V, 2000 mAh, Li-ion



Item #	Description
3175	Cordless Grease Gun 18 V 2.0 Ah
3175-1	Replacement Battery Li-Ion 18 V / 2.0 Ah
3175-2	Flexible Delivery Tube 700 mm for Grease Gun BGS 3175
3175-3	Charger for Grease Gun BGS 3175

Repair Staples | 100 pcs.

- suitable for plastic repair set BGS 873



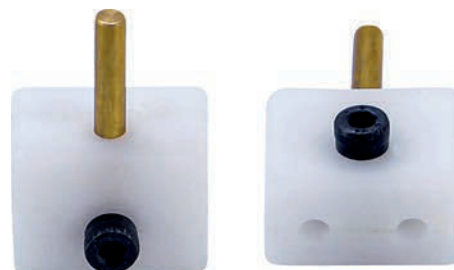
Item #	Description
873-4	Repair Staples L-Type Ø 0.6 mm 100 pcs.
873-5	Repair Staples L-Type Ø 0.8 mm 100 pcs.
873-6	Repair Staples W-Type Ø 0.6 mm 100 pcs.
873-7	Repair Staples W-Type Ø 0.8 mm 100 pcs.
873-8	Repair Staples V-Type Ø 0.6 mm 100 pcs.



Spacer | for BGS 868, 873

- for regulating the melting depth of the repair brackets in the plastic
- prevents pushing through the workpiece during melting

Item #
6707



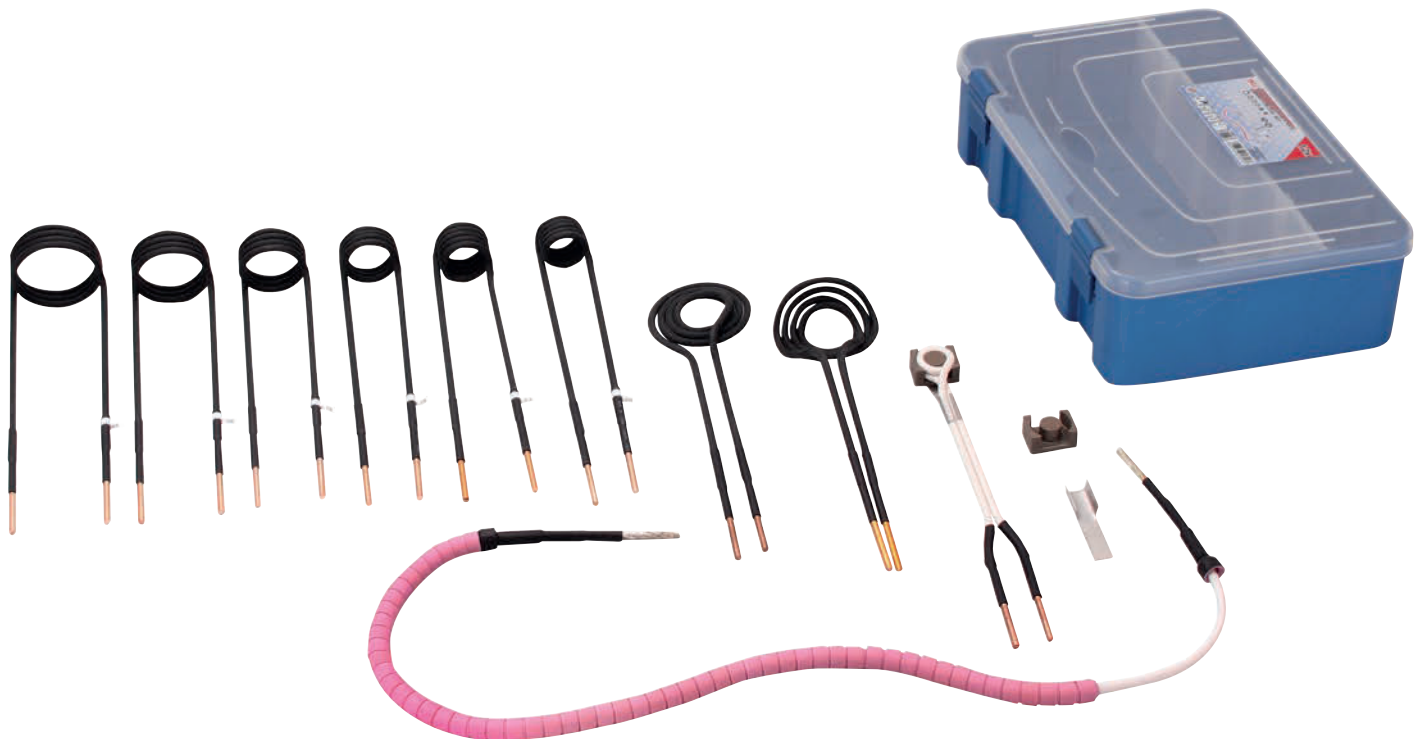
Induction Coil Set for Induction Heater | for BGS 2169 | 12 pcs.

- for heating screws, nuts, shafts, etc.
- suitable for induction heater BGS 2169

scope of delivery:

- 1 Induction Coil | flat (BGS 2169-5)
- 1 Induction Coil | for Tie Rods (BGS 2169-10)
- 1 Induction Coil | for small surfaces (BGS 2169-9)
- 1 Ferrite Core for BGS 2169-9
- 1 Retaining Spring for BGS 2169-9
- 1 Induction Coil | with ceramic protection (BGS 2169-8)
- 1 Induction Coil | 20 mm | angled 90°
- 1 Induction Coil | 23 mm | angled 90°
- 1 Induction Coil | 26 mm | angled 90°
- 1 Induction Coil | 32 mm | angled 90° (BGS 2169-1-32)
- 1 Induction Coil | 38 mm | angled 90° (BGS 2169-1-38)
- 1 Induction Coil | 45 mm | angled 90° (BGS 2169-1-45)

Item #
2169-11



Impact Socket, Hexagon / 12-point | for Ducati Wheel Fixings | 12,5 mm (1/2") Drive | 30 / 55 mm 12.5 1/2

- double size socket with 55 mm 12-point and 30 mm hexagon
- for removing both rear and front wheel fixings
- suitable for overtightened or seized wheel fixings

suitable for the following Ducati models:

- Superbike 1098, 1198, 1199, Panigale, Streetfighter 1098, Multistrada 1200 and Diavel
- for both manual and impact wrenches
- Material: alloyed SCM440 steel



Item #
6658



Groove Nut Socket for Wheel Hubs | external pins | for Mercedes-Benz, Nissan, Opel, Renault, VW 20 3/4

- for loosening the groove nut on rear wheel hubs
- suitable for following vehicles:
 - Volkswagen Crafter/LT, Opel/Vauxhall Movano, Renault Master, Nissan Interstar, Mercedes-Benz Sprinter (with twin wheel) rear axle 741.130,-131,-413,-414,-416,-420,-422,-453,-454,-455,-429
- to be used as OEM VW T50017, Opel/Vauxhall CH50112, Mercedes-Benz 906589000700
- drive profile: Internal square
- drive profile size, metric: 20 mm
- drive profile size, inch: 3/4"
- length: 74 mm

Item #
9617



Axle Nut Socket | 12-Point | for Mercedes-Benz | 95 mm

- suitable for hand and impact wrench operation
- designed for high tightening and release torques
- for Mercedes-Benz trailer axle nut
- wrench size: 95 mm
- drive profile: external hexagon
- drive profile size: 36 mm
- profile: 12-point
- length: 155 mm
- external diameter: 125 mm

Item #
6704



Tool Tray 1/6: Crankshaft Rotating Tool | for Iveco

- to rotate the crankshaft when setting the engine or doing other repairs
- to be positioned in the flywheel housing and engages into sprocket of the flywheel

suitable for models:

- Euro Cargo, Cargo 150E27R PR, FPR, 320E27T, PT Euro Tech, Eurostar
- engine identification: 8360.46/F3A/F3B

scope of delivery:

- crankshaft rotating tool, to be used as OEM 99360321

Item #
9686



Injector Puller | for Volvo Trucks FM12 / FM440 / FH500

- for removing injector nozzle units
- especially suitable for firmly burned and overheated injector units



Item #
9860

Tool Tray 1/3: Clutch Aligning Tool Set | for Trucks | 6 pcs.

- for centering of the clutch disc
- required when replacing truck single and double clutch discs

scope of delivery:

- centering mandrel (for clutch disc), 42 - 52 mm
- centering mandrel (for clutch disc), 36 - 45 mm
- centering sleeve (for pilot bearing), 30 mm
- centering sleeve (for pilot bearing), 27 mm
- centering sleeve (for pilot bearing), 25 mm
- centering sleeve (for pilot bearing), 20 mm
- replacement O-rings

Item #
6667



Double Flaring Tool Kit with Pipe Cutter | 10 pcs.

- special tool for creating single D-type flares, double E-type flares (SAE) and double F-type flares
- suitable for pipes with wall thickness up to 1 mm
- 1 pipe clamp
- 1 spreader
- 1 pipe cutter
- 7 dies 1/4" - 1/2" - 4,75 - 5 - 6 - 8 - 10 mm

Item #
3058



Tube Bender and Brake Line Clamps Set | 4.75 + 6 mm

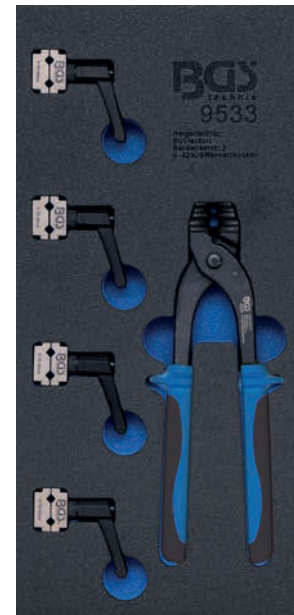
- for clamping the old and new brake pipe during the bending process
- perfect for cable assembly
- allows exact reproduction of the old brake pipe
- parallel clamping and bending do not change the diameter of the line
- suitable for steel, copper and plastic coated brake lines
- for 4.75 mm (3/16") or 6 mm line diameter

scope of delivery:

- tube bending pliers, 4.75 + 6 mm (Art. 8229)
- brake line clamps set, 4 pcs. (Art. 9533-1)
- tool tray 1/3, empty, for item 9533 (Art. 9533-2)



Item #	Description
9533-2	Tool Tray 1/3 empty for BGS 9533
9533	Tool Tray 1/3: Tube Bender and Brake Line Clamps Set 4.75 + 6 mm
9533-1	Brake Line Clamps Set 4.75 mm (3/16") 4 pcs.



Tool Tray 1/6: Flaring Tool | SAE and DIN 4.75 / 5 / 6 mm

- for creating DIN F type flarings on brake pipes with a diameter of 4.75 - 5 - 6 mm
- can also be used on installed brake lines
- 2-component handle
- base with 2-component handle and claws, with visual bore
- punch (DIN F) 4.75 mm
- punch (DIN F) 5 and 6 mm
- positioning bolt
- flaring grease

Item #
9838



Tool Tray 1/6: Flaring Tool | DIN 4.75 mm (3/16")

- for easy and fast flaring of 4.75 mm (3/16") brake pipes, according to DIN F
- can also be used on installed brake lines
- 2-component handle
- incl. combination spanner 10 mm, combination spanner 17 mm and flaring grease

Item #
6683



Brake Bleeder Wrench Set | N-Type | 7 - 11 mm | 5 pcs.

- suitable brake for bleeder screws, also in small areas
- special shape
- ring head cranked and offset
- for bleeding the brakes without dismantling the wheels
- brake bleeder wrench, N-Type, 7 mm
- brake bleeder wrench, N-Type, 8 mm
- brake bleeder wrench, N-Type, 9 mm
- brake bleeder wrench, N-Type, 10 mm
- brake bleeder wrench, N-Type, 11 mm

Item #
9633



Brake Bleeder Wrench Set | 7 - 8 - 9 - 10 - 11 - 12 mm | 7 pcs.

- for easy bleeding of hydraulic clutch systems and brake systems without removing the wheels
- allows one-person bleeding
- consists of 6 brake bleeding wrenches, 22-point, sizes: 7 - 8 - 9 - 10 - 11 - 12 mm
- 120 cm silicone hose with non-return valve
- suitable for universal bleeder nipples

Item #
66516



Fuel Pipe Wrench | flexible | 11 mm

10 3/8

- required when disassembling / assembling injection nozzles
- for screw connections on fuel lines
- bendable, flexible up to 45°
- compact design for use in confined spaces
- max. torque: 30 Nm
- drive profile size, metric: 10 mm
- drive profile size, inch: 3/8"
- wrench size: 11 mm
- surface finish: black phosphated

Item #
6741



Brake Calliper Socket | 10-point | for VAG and Porsche | 15 mm

- for assembling and disassembling of brake callipers
- for fitting of multi piston brake callipers
- suitable for following models: Audi Q7, S8, Porsche Macan, Cayenne, Cayman
- size 10 mm
- 10-pt.
- 10 mm (3/8") drive
- length 30 mm

Item #
9629



Brake Calliper Socket | 10-point | for VAG and Porsche | 20 mm

12.5 1/2

- for assembling and disassembling of brake callipers
- for fitting of multi piston brake callipers
- suitable for following models: Audi Q7, S8, Porsche Macan, Cayenne, Cayman
- size 20 mm
- 10-pt.
- 12.5 mm (1/2") drive
- length 30 mm

Item #
9631



Tool Tray 1/3: Brake Piston Reset Tool | with Ratchet Function | 7 pcs.

- for damage-free resetting of brake pistons
- allows centered, tilt-free resetting
- no damage to seals, pistons and cylinders
- required for maintenance and brake pad replacement
- suitable for almost all vehicle types with 1 up to 8 floating pistons and fixed callipers without integrated handbrake function
- spindle ratchet mechanism (reversible) reduces the effort
- solid construction with hardened resetting plates
- two additional resetting plates with magnet for easy installation on reset tool
- plastic handle
- working range from 40 - 68 mm / 49 - 77 mm
- length: 270 mm

scope of delivery:

- brake piston reset tool, basic unit with ratchet function, reversible
- resetting plate set 116 x 60 mm
- resetting plate set 147 x 60 mm
- resetting plate set 176 x 60 mm

Item #
6680



Cable Installation Tool Set | 5 pcs.

- multifunctional tool set for professional cable installation
- to install cables and automotive wiring harness easily
- suitable for laying tracks in most of the vehicles
- cable installation tool, inflexible, blade length 145 mm, head with hook and drill hole to install and enforce cables
- cable installation tool, inflexible, blade length 395 mm, head with hook and drill hole to install and enforce cables
- cable installation tool, flexible, loop length 1020 mm, head with hook and drill hole to install cables
- cable installation tool with loop head, blade length 85 mm, to cross cables
- piercing awl, 100 mm, to cross under carpet, rubber seals and many more
- the cable is subsequently pulled in through the handle and through the piercing screw
- handle length: 98 mm



Item #
9495



Tool Tray 2/3: Radio Removal Tool Set | 52 pcs.

- for the assembly of radios and GPS systems, for most car types and brands:
- Blaupunkt, Becker, Grundig, Clarion, Kenwood, Sony
- original radios in Porsche models
- original radios in Mercedes-Benz models
- original radio in Audi models
- original radio in Ford models
- original radio in BMW und Opel models
- original radio in VW models
- original radio in Skoda models
- original radio in Fiat Bravo, Brava models

Item #
9144



Terminal Tool Kit | universal | 3 pcs.

- for a damage-free and professional unlocking of connector pins
- suitable for terminals in e. g. BMW, Chrysler, Fiat, Ford, MAN, Mazda, Mercedes-Benz, Opel, PSA, Renault, Saab, VAG, etc.
- safety cap with special design for safe use and storage
- unlocking tip made of steel

scope of delivery:

- cable release tool for flat contact plugs and flat pin-in sleeves, suitable for terminals from AMP Tyco JPT, AMP Tyco JT, AMP Tyco SPT, AMP Tyco ST, plug width 2.8 mm, 4.8 mm, 5.8 mm and 6.3 mm
- cable release tool for round contact plugs and round pin-in sleeves, suitable for terminals from AMP Tyco CI2, AMP Tyco Mate-N-Lok, GHW RAM, GHW RSA2, plug diameter 1.5 mm and 3.5 mm
- cable release tool for flat contact plugs and flat pin-in sleeves, suitable for terminals from AMP Tyco MT I, AMP Tyco MT II, plug width 1.6 mm



Item #
9807

Cylinder Head Temperature Sensor Socket | 15 mm | for Ford 1.8 / 2.0 / 2.3 / 2.4 / 3.2 Diesel 12.5 $\square$ 1/2

- suitable for Ford diesel engines Lynx and Puma (2002 - 2007), built in e.g. Mondeo, Focus, Transit and Fiesta
- to be used as OEM 303-680
- drive profile: Internal square
- drive profile size, inch: 1/2"
- drive profile size, metric: 12.5 mm
- output profile: 12-point
- wrench size: 15 mm
- length: 40 mm
- surface finish: black phosphated



Item #
6677



Lambda Sensor Tester & Simulator

- for testing heated and non-heated O2 sensors with 1 to 4 cables
- LED indicator indicates the O2 sensor signal
- simulates O2 sensor signal rich or lean, to test the ECU response
- suitable for engines with zirconium and titanium O2 sensors
- the tester identifies the connected cable, mass, heater or ECU voltage (if available)
- cable piercing clip for easy connection
- low battery indicator
- sealed switches for workshop environment
- durable ABS housing
- battery: 9V, 6F22 or equivalent, alkaline (included)
- operating environment: -10°C to 50°C /



Item #
9454

Short Circuit & Cable Detector

- is used to detect / track cables and checking for short and open circuits
- a signal is fed into the circuit to be tested via the transmitter unit; this signal is detected by the receiver probe along side the cable and emitted by the receiver as an acoustic signal
- suitable for 12 & 24 volts DC vehicle electrics
- receiver sensitivity adjustable

scope of delivery:

- transmitter unit with test cables
- receiver unit with flexible probe



Item #
6644

Differential Groove Nut Key | external Pins | for Mercedes-Benz 72 mm

- for removing and installing the differential
- made to withstand high fastening and loosening torque
- number of studs: 6
- drive profil: external hexagon
- drive profile size, metric: 32 mm
- wrench size: 72 mm

suitable for the following models:

- Mercedes-Benz Citaro, EvoBus



Item #
9861

Differential Flange & Insert Nut Tool Set | for BMW E70, E82, E90, E91, E92, E93

- for removing and installing the drive shaft nut
- allows inserting of the rear differential O-Ring
- suitable for BMW vehicles with rear and four wheel drive

scope of delivery:

- open end spanner 50 mm, to be used as OEM 33 5 040, BMW E70, E88, E90, E91, E92
- flange holding tool, to be used as OEM 23 0 020, BMW E70, E82, E88, E90, E91, E92, etc.
- multi-point ring spanner 65 mm, to be used as OEM 33 5 050, BMW E70, E82, E90, E91, E92, E93
- multi-point socket 34T, to be used as OEM 3 35 060, BMW E70, E82, E90, E91, E92, E93
- seal ring drift, to be used as OEM 3 35 080, BMW differential: HAG 215 Sp, HAG 220kom, HAG 225kom, HAG type G



Item #
9859

Spring Strut Sockets | for VAG

10 3/8

- for disassembling suspension struts on VAG cars
- for counterholding the securing nut on the spring strut
- for repair work in the spring area, e. g. coil springs, shock absorbers, spring struts, etc.
- double-sided usage for 6-point and 8-point nuts
- with flexible head
- surface finish: satin chrome plated
- extension bar, 80 mm
- BGS 9826: special socket, 6-point and 8-point, 13 mm, 10 mm (3/8") drive
- BGS 9827: special socket, 6-point and 8-point, 14 mm, 10 mm (3/8") drive



Item #	Description
9826	Spring Strut Socket 13 mm for VAG
9827	Spring Strut Socket 14 mm for VAG

Ball Joint Tool Set | with C-Frame

- to replace ball joints, universal joints, brake anchor bolts
- suitable for SUVs, vans and other vehicles with large parts

scope of delivery:

- step washer plate with large bore
- step washer plate with small bore
- C-frame with spindle
- sleeve, inner diameter: 44.4 mm, outer diameter: 50.8 mm, length: 45 mm
- sleeve, inner diameter: 56.6 mm, outer diameter: 63.4 mm, length: 45 mm
- sleeve, inner diameter: 69 mm, outer diameter: 76.1 mm, length: 56 mm



Item #

8263

Mounting Lever for DSG Gearbox | for VAG

- used to operate the enaging lever during dismantling and mounting of the mechatronic unit on 7 speed dual clutch gearboxes 0AM

suitable for following models:

- VW Golf 2004>, Golf 2009>, Audi A3 2004>, Eos 2006, Passat 2006>, Passat CC 2009>
- to be used as OEM T10407



Item #

9537



Clutch Aligning Tool Set | 11 pcs.

- for centering of the clutch disc

Scope of Delivery:

- 8 centering bushes (crankshaft bore / pilot bearing)
- diameters: 12.1 - 14.2 - 15.1 - 16.1 - 17.1 - 18.0 - 19.0 - 20.1 mm
- 3 clutch disc centering pins
- diameters: 14.9 - 19.7 mm; 19.8 - 27.2 mm ; 22.8 - 36.0 mm



Item #

9572

Flywheel Blocking Tool | for Honda, Ford, Mitsubishi, Toyota

- for locking flywheels of manual geaboxes when loosening and tightening, clutch discs on automatic gearboxes etc.
- suitable for engines in e.g. Honda, Ford, Mitsubishi Toyota, etc.



Item #
9649

Clutch Retaining Bolt for DSG Gearbox | for VAG (02E)

- for installing and adjusting dual clutches on VAG DSG 6-speed direct shift gearbox
- suitable for gearboxes with code 02E
- to be used as OEM T10303



Item #
9640

Clutch Centering Mandrel Set | for BMW

- for centering the clutch disc while installing an already pretensioned self adjusting clutch (SAC)
- suitable for BMW clutches
- clutch centering mandrel, outer diameter 15 x 23.0 mm, incl. bolt M8 x 1.25 x length 65 mm
- clutch centering mandrel, outer diameter 15 x 26.5 mm, incl. bolt M8 x 1.25 x length 65 mm
- clutch centering mandrel, outer diameter 15 x 28.0 mm, incl. bolt M8 x 1.25 x length 65 mm
- clutch centering mandrel, outer diameter 15 x 32.5 mm, incl. bolt M8 x 1.25 x length 65 mm
- clutch centering mandrel, outer diameter 15 x 34.0 mm, incl. bolt M8 x 1.25 x length 65 mm
- centering sleeve, inner diameter 15 mm, outer diameter 32.5 mm, incl. bolt M5 x 0.8 x length 54 mm



Item #
6670

Intake Manifold / Intake Pipe Release Tool | for VAG | 2 pcs.

- for the professional and non-destructive release of quick couplings on the intake manifold
- prevents damage to the suction pipes or connections
- allows easy and quick disconnection

suitable for e. g. the following models:

- VW Golf (2013-), Audi A3 (2013-), Seat Leon (2013-), Skoda Octavia (2013-) with 4 cyl. injection engine 1.2l / 1.4l direct injection, turbocharger
- to use used as OEM T10527

Item #
6731



Drop Arm Puller | for Land Rover | 57.5 mm

- for pulling off the drop arm from steering box on Land Rover Defender
- also suitable for drop arms which are difficult to remove due to corrosion
- protects steering box and shaft seal
- drive: external hexagon 24 mm



Item #
9525

Rear Axle Tracking Adjustment Tool | for MINI

12.5 □ 1/2

- for adjusting the rear toe angle on MINI models of 1st generation (2002-2006)
- to be used as OEM 32 4 200
- drive profile: Internal square
- drive profile size, inch 1/2"
- drive profile size, metric 12.5 mm

Item #
9904



Wheel Hub Grinder | Aluminum Bell with Steel Core | Inner-Ø 80 mm

12.5 □ 1/2

- suitable for quick and easy removal of dirt and rust from wheel hubs and brake discs with wheel bolt support
- quick and rust-proof cleaning of contact surfaces
- prevents the falsification of the wheel bolt tightening torque through corrosion
- interchangeable and long-live grinding wheels
- grinding wheel is fixed on aluminum sleeve with hook and loop tape and synthetic felt
- suitable for impact wrenches, 12.5 mm (1/2") drive
- 1 aluminum bell with steel core
- 1 grinding wheel, inner-Ø 80 mm, outer-Ø 150 mm



Item #	Description
9746	Wheel Hub Grinder Aluminum Bell with Steel Core Inner-Ø 80 mm
9747	Grinding Wheel Set for BGS 9746 3 pcs.
9748	Hook and Loop Tape for BGS 9746 2 pcs.

Wheel Hub Rim Hole Grinder | Outer-Ø 110 mm

- grinder for wheel hub rim hole
- bristles made from nylon fiber with silicon carbide and diamond abrasive grain
- variation of speed (r.p.m.) influences hardness and aggressivity of the abrasive brush
- 1 wheel hub rim hole grinder
- 1 adapter for electric drill



Item #
9749

Wheel Hub Grinder Set | for Studs and Wheel Nut Bolts | 14 pcs.

- for quick and easy cleaning of the contact surface from rust and dirt
- for use on wheel hubs and brake discs and wheel hubs with stud bolts, e. g. on Ford, Porsche, Volvo, etc.
- reduces sparking
- low dust development due to open-pore abrasive and cup-shaped sanding pad
- wear-resistant - maximum service life (approx. 50 vehicles per wheel)
- can be used with drills and cordless screwdrivers (maximum speed 3.000 rpm)

scope of delivery:

- 1 grinding wheel with round drive shaft Ø 6.3 mm (1/4 ") for electric drills / adaptors
- 3 replacement hook and loop pads with self-adhesive back
- 5 coarse-grained cleaning discs, outer diameter 40 mm
- 5 fine-grained cleaning discs, outer diameter 40 mm, inner diameter 16.5 mm



Item #
9736



Tire Change Service Set | 7 pcs.

12.5 1/2

- can be used for wheel changing on most popular rims

scope of delivery:

- Cordless Impact Wrench | 520 Nm | max. 2.000 rpm | 18 V (BGS 9919)
 - for loosening and tightening of screws and nuts, esp. wheel nuts
 - 18V li-ion battery for long operation time and high power
 - rated voltage: 18V DC
 - rated speed: 0 - 2.000 rpm
 - rated impact: 0 - 3.200 bpm
 - drive: 12.5 mm (1/2") square
 - max. torque: 520 Nm
 - noise level: LpA: 99.6 dB(A) K= 3dB(A) LwA: 110.6 dB(A) K= 3dB(A)
 - vibration level: ah: 17.95 m/s² K=1.5 m/s²
 - battery pack: 18V / 4.000 mAh Li-Ion
 - mains charger: input 100-240V AC / 50Hz / 75W output 18V DC / 2.500 mA charging time: 100 min delivered in a handy carrying case
- Protective Impact Socket Set | 12.5 mm (1/2") Drive | 17 / 19 / 21 mm | 3 pcs. (BGS 7200)
 - for both manual use and impact wrenches
 - can be fixed on impact wrench by pin and O-ring
 - plastic cover and plastic sleeve for protection of aluminium rims
 - colour coded sockets help to indicate the right size
 - protective impact sockets, 12.5 mm (1/2") drive: 17 - 19 - 21 mm
 - length: 85 mm
- Torque Wrench | 12.5 mm (1/2") | 42 - 210 Nm (BGS 965)
 - reversible ratchet with automatic release via click signal
 - set torque is locked by sliding bush
 - high precision
 - delivered with calibration certificate
 - profile: external square
 - drive profile size, metric: 12.5 mm
 - drive profile size, inch: 1/2"
 - max. torque: 210 Nm
 - min. torque: 42 Nm
- Mechanic's Gloves | Size 10 (XL) (BGS 9954)
 - PU part coating
 - good fit and secure grip
 - good sense of touch
 - knitwrist
 - suitable for: tire service
- Microfibre Cloth | 400 x 400 mm (BGS TUCH)
- BGS® Football (BGS BALL)
- BGS® Coffee Mug (BGS BECHER)



Item #

9927

Tire Change Service Set | 9 pcs.**12.5**  **1/2**

- can be used for wheel changing on most cars

scope of delivery:

- Torque Wrench + Adaptor + Extension Bar | 12.5 mm (1/2") | 28 - 210 Nm (BGS 98)
 - reversible ratchet with automatic release via click signal
 - set torque is locked by stop screw
 - adaptor 12.5 mm (1/2") drive, 10 mm (3/8") external square
 - extension bar 12.5 mm (1/2") drive, length: 125 mm
- Protective Impact Socket Set | 12.5 mm (1/2") Drive | 17 / 19 / 21 mm | 3 pcs. (BGS 7200)
 - for both manual use and impact wrenches
 - can be fixed on impact wrench by pin and O-ring
 - plastic cover and plastic sleeve for protection of aluminium rims
 - colour coded sockets help to indicate the right size
 - length: 85 mm
- Knee Protector Pad | 450 x 210 x 30 mm (BGS 4801)
 - with storage compartment, prevents rolling away of tools and parts
 - acid-resistant EPE foam
- Mechanic's Gloves | Size 10 (XL) (BGS 9954)
 - partly PU coated
 - good fit and secure grip
 - good sense of touch
 - knitwrist
 - suitable for: tire service
- Wheel Wrench | for Cars | Square | 17 x 19 x 21 x 12.5 mm (1/2") (BGS 1459)
 - with reinforced middle plate
 - hardened
 - according to DIN 3119
 - arm length: 355 mm
 - square 12.5 mm (1/2")
 - hexagon 17 x 19 x 21 mm

Item #
9679



Tire Change Service Set with Floor Jack 1.5 t | 10 pcs.

12.5 mm 1/2"

- can be used for wheel changing on most cars

scope of delivery:

- Torque Wrench + Adaptor + Extension Bar | 12.5 mm (1/2") | 28 - 210 Nm (BGS 98)
 - reversible ratchet with automatic release via click signal
 - set torque is locked by stop screw
 - adaptor 12.5 mm (1/2") drive, 10 mm (3/8") external square
 - extension bar 12.5 mm (1/2") drive, length: 125 mm
- Protective Impact Socket Set | 12.5 mm (1/2") Drive | 17 / 19 / 21 mm | 3 pcs. (BGS 7200)
 - for both manual use and impact wrenches
 - can be fixed on impact wrench by pin and O-ring
 - plastic cover and plastic sleeve for protection of aluminium rims
 - colour coded sockets help to indicate the right size
 - length: 85 mm
- Knee Protector Pad | 450 x 210 x 30 mm (BGS 4801)
 - with storage compartment, prevents rolling away of tools and parts
 - acid-resistant EPE foam
- Mechanic's Gloves | Size 10 (XL) (BGS 9954)
 - partly PU coated
 - good fit and secure grip
 - good sense of touch
 - knitwrist
 - suitable for: tire service
- Wheel Wrench | for Cars | Square | 17 x 19 x 21 x 12.5 mm (1/2") (BGS 1459)
 - with reinforced middle plate
 - hardened
 - according to DIN 3119
 - arm length: 355 mm
 - square 12.5 mm (1/2")
 - hexagon 17 x 19 x 21 mm
- Floor Jack | hydraulic | Aluminium-Steel Construction | 1.5 t (BGS 2897)
 - dual piston hydraulic
 - durable and lightweight aluminum-steel construction
 - lever tube partly with protector, prevents damage to the vehicle
 - low headroom, thus particularly suitable for vehicles with low ground clearance
 - length: 554 mm
 - max. lifting height 358 mm
 - min. lifting height 90 mm
 - weight: 15.5 kg
 - rated load capacity: 1.5 t



Item #
9680

Headlamp Adjustment Tool | for Mercedes-Benz, Audi

10  3/8

- for spotlight and clearance adjustment against front bumper face bar and engine bonnet after car body repair or spotlight exchange
- special harmonized tool to use in areas with narrow space

suitable for following models:

- Mercedes-Benz 205 C-Klasse, > 2014
- Audi A7

- drive profile: internal square
- drive profile size, metric: 10 mm
- drive profile size, inch: 3/8"
- output profile size: external hexagon
- wrench size: 14 mm
- material: chrome vanadium steel
- surface finish: satin chrome plated
- total length: 195 mm



Item #
9593



Pin Wrench for Distance Sensor | for Mercedes-Benz

10  3/8

- for assembling and disassembling of distance sensors which are integrated into the front and rear bumper
- allows tightening sensor nut with stipulated torque
- suitable for Mercedes-Benz S-Class (W140) und E-Class (W210)



Item #
9591

Special Wrench for Fender Screws | 12-point | for Ford | 10 mm

- for use on hard-to-reach wing screws
- extra-long and extra-thin designed version
- serviceable from both sides
- with plastic protection cover
- for manual operation
- surface finish: satin chrome plated



Item #
9641



Tool Tray 1/6: Hole Punch Set | for Parking Sensors | Ø 17 - 32 mm

- this tool kit is used to cut holes for park distance control sensors in plastic bumpers

scope of delivery:

- punching tool Ø 17 mm / 19 mm, consists of head plate, punch and die
- punching tool Ø 18 mm / 20 mm, consists of head plate, punch and die
- punching tool Ø 18.2 mm / 22.5 mm, consists of head plate, punch and die
- punching tool Ø 26.7 mm / 24 mm, consists of head plate, punch and die
- punching tool Ø 26 mm / 32 mm, consists of head plate, punch and die
- HSS drill Ø 10.2 mm
- punching spindle with nut - external hexagon 12 mm drive



Item #	
9739	

Hammer Set with Interchangeable Heads | Ø 28 mm | 11 pcs.

- for car body repair work
- the different heads automatically snap into the locking
- 1 hammer, length 235 mm
- 10 interchangeable hammer heads, each flat and half round, Ø 28 mm, in different colors:
 - 2 plastic heads, white
 - 2 aluminum heads, orange
 - 2 copper heads, copper
 - 2 metal heads, blue
 - 2 stainless steel heads, silver
- in plastic case



Item #	
9768	

Single Hand Rubber Suction Lifter | ABS | Ø 70 mm

- for lifting, carrying and holding
- with quick release lever
- practical one-hand operation
- well suited for adjusting and setting mirror glasses
- max. capacity 8 kg

Item #	
9626	



Windshield Seal Cutting Wire | 25 m | 160 daN

- material: synthetic fibers
- for damage-free cutting of glued windshields
- excellent cutting performance, comparable to conventional metal-cutting wires
- soft and flexible for preventing damage to painted and sensitive surfaces
- special fabric with extremely high tensile strength of 160 daN
- suitable for windshield removal tools BGS 69500, 69505, 8003, 8004 and others
- diameter: 0.85 mm



Item #
9856

Windshield Seal Cutting Wire | 25 m | 200 daN

- material: synthetic fibers
- for damage-free cutting of glued windshields
- excellent cutting performance, comparable to conventional metal-cutting wires
- soft and flexible for preventing damage to painted and sensitive surfaces
- special fabric with extremely high tensile strength of 200 daN
- suitable for windshield removal tools BGS 69500, 69505, 8003, 8004 and other
- diameter: 1.05 mm



Item #
9857

Dent Repair Pads | for BGS 865 | 33 pcs.

- suitable for BGS 865, BGS 865-6 and 865-7

scope of delivery:

dent repair pads, blue

- 1 dent repair pad, rectangular, large: 48.5 x 32.5 mm
- 1 dent repair pad, round, extra large: Ø 40.5 mm
- 1 dent repair pad, round, large: Ø 35.5 mm
- 1 dent repair pad, round, middle size: Ø 32 mm
- 1 dent repair pad, round, small: Ø 25.5 mm
- 1 dent repair pad, round, extra small: Ø 20.5 mm
- 1 dent repair pad, mini: Ø 15.5 mm
- 2 dent repair pads, rectangular: 30 x 20 mm
- 1 dent repair pad, rectangular: 30 x 23.5 mm
- 1 dent repair pad, oval, large: 48.5 x 32.5 mm
- 1 dent repair pad, oval: 40.5 x 27.5 mm
- 1 dent repair pad, oval: 33.5 x 23 mm
- 1 dent repair pad, oval, rounded edges, large: 39.5 x 24.5 mm
- 1 dent repair pad, oval, rounded edges, small: 29.5 x 19.5 mm

dent repair pads, flexible head, blue

- 1 dent repair pad, oval, large: 48.5 x 32.5 mm
- 1 dent repair pad, round, extra large: Ø 40.5 mm
- 1 dent repair pad, round, large: Ø 35.5 mm
- 1 dent repair pad, round, middle size: Ø 32 mm
- 1 dent repair pad, round, small: Ø 25.5 mm
- 1 dent repair pad, round, extra small: Ø 20.5 mm
- 1 dent repair pad, mini: Ø 15.5 mm

dent repair pads, black

- 1 dent repair pad, round, extra large: Ø 40.5 mm
- 1 dent repair pad, round, large: Ø 35.5 mm
- 1 dent repair pad, round, middle size: Ø 32 mm
- 1 dent repair pad, round, small: Ø 25.5 mm
- 1 dent repair pad, round, extra small: Ø 20.5 mm
- 1 dent repair pad, round, extra small: Ø 20.5 mm
- 1 dent repair pad, round: Ø 23.5 mm
- 1 dent repair pad, mini: Ø 15.5 mm
- 1 dent repair pad, oval, large: 48.5 x 32.5 mm
- 1 dent repair pad, oval, middle size: 40.5 x 38 mm
- 1 dent repair pad, oval, rounded edges, mini: 25 x 12.5 mm



Dent Repair Pads | for BGS 865 | 6 pcs.

- suitable for BGS 865, BGS 865-6 and 865-7
- length: 22 mm
- material: aluminum
- 1 dent repair pad, rectangular, large: 32 x 16 mm
- 1 dent repair pad, round, large: diameter Ø 32 mm
- 1 dent repair pad, round, middle: diameter Ø 19 mm
- 1 dent repair pad, round, small: diameter Ø 13 mm
- 1 dent repair pad, oval: 32 x 13 mm
- 1 dent-pad, star-shaped: max. Ø 14 mm



Item #
9583

Dent Removal Pen

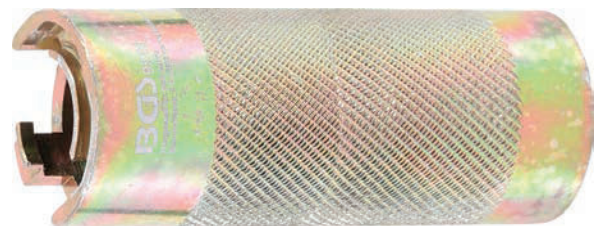
- for pushing out small dents, e.g. hail damage, etc.
- made of plastic, front rounded
- length: 120 mm
- diameter: 18 mm
- material: plastic



Item #
8684

Cylinder Lock Installation Tool | for VAG

- for fast and professional repair of VAG door locks
- suitable for key patterns with internal spring for the following models: VW Passat, Vento, Beetle, Lupo, Golf IV (not Golf Cabrio), Seat, Skoda
- length: 65 mm



Item #
9589



Panel Clip Pliers | 175 mm

- for removing panel clips and automotive interior moulding clips
- with cut-off function
- ground blades
- with 45° offset head, especially for small areas
- spring loaded opening mechanism for ease of use
- PVC dipped handles



Item #
9673



Needles, Hooks and Scrapers Set | 9 pcs.

- ergonomic 2-component plastic handles

scope of delivery:

- hook tip, bent, 165 mm
- hook tip, bent, 240 mm
- hook tip, 45°, 165 mm
- hook tip, 45°, 240 mm
- hook tip, 90°, 165 mm
- hook tip, 90°, 240 mm
- needle tip, straight, 165 mm
- needle tip, straight, 240 mm
- scraper, 20 mm x 230 mm

Item #
8487



Grab Handle Release Tool | for VAG

- to release and remove the roof grab handle in the interior without damage
- to be used as OEM T10518A, T10518, T10517

suitable for the following models:

- Volkswagen Golf (as of 2013)
- VW Golf Variant (as of 2013)
- Tiguan (as of 2016)
- Seat Ateca (as of 2016)
- Skoda Octavia (as of 2013)

Item #
9831



Door Trim Removing Tool | 290 mm

- for removal of trim clips on car bodies
- coated tip, prevents damage to plastic and painted parts
- can be used for nearly all brands
- slot width: 7 mm
- slot length: 20 mm
- opening size: 12 mm
- handle type: 2 component handle

Item #
3109



Heater Hose Disconnect Tool | for Ford

- for disconnecting of the heater hose connectors
- the connectors are between firewall and engine and are very difficult to disconnect without this tool
- suitable for Ford Focus 2.0L (2012- 2016), Kuga / Escape 2.0L EcoBoost (2013-2016) and other models



Item #
6757

Cooling System Cleaning Gun

- for quick and professional cleaning and rinsing of the cooling system
- no solvents or aggressive chemicals required
- works with water pressure and with compressed air, increasing the cleaning efficiency
- to be used in connection with a water hose
- incl. connecting nipple for water hose quick couplings
- 5-step nozzle with diameter Ø 19 - 29 - 32 - 36.5 - 40 mm
- suitable for most standard cooling hoses
- light construction made of special reinforced plastic material
- compressed air inlet: 6.3 mm (1/4")
- operating pressure: 6.3 bar



Item #
9638



Antifreeze Tester Hydrotemp

- robust and break-proof type
- for checking the radiator antifreeze quality
- usable for antifreeze/water mixture based on ethylene-glycol-(ethandiol)
- display accuracy: 0.5°C
- suction bulb made of elastomer is flexible at all times and guarantees function in all temperature ranges
- hydrostatic block prevents automatic discharge and retightening of air the display
- display is immediately stable
- non-drip suction tube
- all temperature twin measuring element, swivable 360°
- for direct reading
- measuring scale in Celsius
- measuring range 0 up to -40°C

Item #
9670



Exhaust Gas Temperature Sensor Special Socket Set (EGT / NOx) | 6 pcs.

10  3/8

- for disassembly and assembly of exhaust gas temperature sensors
- suitable for cars, light commercial vehicles and trucks
- sizes: 13 - 14 - 17 mm in straight and offset design
- output profile: hexagon, hexagon slotted
- drive profile: internal square
- drive profile size, metric: 10 mm
- drive profile size, inch: 3/8"
- surface finish black phosphate / satin chrome plated



Item #
6678



Injector Repair Kit | for Common-Rail | 8 pcs.

12.5  1/2

- to loosen and remove the injector's internal fixings
- for professional repair of injectors
- applicable for Bosch, Denso and Siemens injectors
- 3 Injector ball valve lapping tools incl. centre adaptor
- 1 bit socket, 12.5 mm (1/2") drive / 21 mm external hexagon, internal hexagon (with hole) 10 mm - Inner Ø (tamperproof) 6.6 mm
- 1 bit socket, 12.5 mm (1/2") drive / 21 mm external hexagon, internal hexagon (with hole) 10 mm - Inner Ø (tamperproof) 7.6 mm
- 1 socket, 12.5 mm (1/2") drive, 8-pt. for Bosch-CR-injectors
- 1 socket, 17 mm external hexagon, with three drift pins for internal valve seats of Denso Common Rail injectors
- 1 centering device, 12.5 mm (1/2") drive, 4-teeth socket to open the internal split nut of Siemens Common Rail injectors



Item #
9639



Petrol Injector Tool | for BMW N43, N53, N54

- for dismantling petrol injectors on BMW engines N43, N53, N54
- access directly below injector
- fixation by thumbscrew
- suitable for following BMW models:
 - 1 series (E81/E82/E87/E88)
 - 3 series (E90/E91/E92/E93)
 - 5 series (F10/F11)
 - 6 series (E63/E64)
 - 7 series (F01/F02/F04)
 - X6 (E71)
 - Z4 (E89)
- 1 injector puller hook
- 1 sliding hammer
- to be used as OEM 1 30 180



Item #
9614

Tool Tray 1/6: Injector Puller | for Bosch CDI Injectors | 6 pcs.

- to remove CDI injectors on Mercedes-Benz CDI engines 611, 612, 613 and other vehicles
- sliding hammer can be mounted on three different points of the injector using the included adaptors
- sliding hammer bolt, M16 x 1.5
- sliding hammer weight, 1650 g, Ø 79 mm
- adaptor for fuel line connection, internal thread M16 x 1.5
- assembling screw, M12 x 1.0 for mounting the adapter in the fuel line connection
- adaptor for electromagnetic unit, internal thread M27 x 1.0 / internal thread M16 x 1.5
- injector puller hook, 12.9 mm with internal thread M16 x 1.5



Item #	
9632	 1/6

CDI Injector Extractor | Land Rover 2.7L V6 & 3.6L V8 TDi

- for extracting common rail injectors

suitable for the following models:

- Jaguar and Land Rover 2.7 TDi V6 (276DT & 7G) & 3.6 TDi V8 (368DT) Diesel engines, Land Rover Discovery 3, Discovery 4, new Range Rover, Range Rover Sport and Jaguar X200 S-type, X250 XF, X350 XJ
- to be used as OEM 303-1127

Item #
9865



Petrol Injector Pull-out Tool | for Jaguar, Land Rover 5.0L V8

- especially for disassembling the long gasoline injectors

suitable for the following models:

- Jaguar and Land Rover 5.0L V8 petrol engines, Jaguar X150, XK Series, X250 (XF), XJ models and Land Rover Discovery 4, new Range Rover, Range Rover Sport
- to be used as OEM 310-197

Item #
9878



Fuel Injector Extractor Set | for Ford, Volvo

- for removing the petrol injection nozzles
- to be used as Ford OEM 310-206 / Volvo OEM 9997410

suitable for the following models:

- Volvo S60 (2011-2016), V40 (2013-2016); engine: 1.6 T4
- Ford Fiesta, Focus, Focus RS, Fusion, Mustang, GT, Transit, Transit Connect, Explorer, Expedition, etc.; engines: 1.0
- EcoBoost, 1.5 EcoBoost I4, 1.6 EcoBoost Sigma, 2.0 GTDI, 2.0 Duratec-HE M14, 2.0 EcoBoost M14, 2.3 EcoBoost, 2.3
- EcoBoost M14, 2.7 EcoBoost, 3.5 GTDI, 3.5 EcoBoost
- Lincoln Navigator, Continental, MKS, MKT, MKX, MKZ, MKC; engines: 2.0 EcoBoost M14, 2.3 EcoBoost, 2.7 EcoBoost, 3.0 EcoBoost, 2.0 GTDI, 3.5 GTDI



Item #
9874

Fuel Injector Tool | for BMW B36 / B38 / B48

- for removing and mounting of fuel injector nozzles
- petrol injector removing tool, to be used as OEM 2358417
- distance gauge for installing injectors, to be used as OEM 2358022



Item #
9866

Petrol Injector Puller Set | for Ford EcoBoost 1.0 - 2.0l

- for extraction of injectors
- suitable for Ford 1.0L to 2.0L EcoBoost petrol direct injection engines
- suitable for injectors with e. g. original part number CM5G-9F593-FA
- to be used as OEM 310-206



Item #
9864

Common Rail Return Pressure Diagnosis Kit | for Piezo Common Rail Injectors

- for testing the return flow pressure of common rail systems with piezo injectors from Bosch, VDO / Siemens and Delphi
- determined pressure values allow a condition assessment of the piezo injectors
- pressure gauge for Bosch and VDO Siemens Piezo-Injectors, measuring range: -1 to +15 bar
- pressure gauge for Delphi Piezo-Injectors, measuring range: -1 to +3 bar
- transparent body with drain valve for visual inspection for air bubbles, two quick couplings and drain hose
- connecting hose set for VDO Siemens Piezo-Injectors
- connecting hose set for Bosch piezo injectors
- connecting hose set for Delphi piezo injectors
- brass double cone



Item #
9879

Gasoline Injector Puller | for Ford

- for removing Bosch GDI injectors on all standard Ford EcoBoost petrol engines 1.0 - 3.7 liter capacity
- to be used as Ford OEM 310-206

suitable for the following models:

- B-MAX 2012-, C-MAX 2011-, Ecosport 2013-, Edge 2012-, Escape 2013-, Explorer 2012-, F-150 2011-, Fiesta 2013-, Flex 2010-, Focus 2010-, Focus ST 2011-, Fusion 2013-, Galaxy 2006-, Kuga 2013-, MKS 2010-, MKT 2010-, MKX 2012-, MKZ 2013-, Mondeo 2007-, Mustang 2015-, Police Interceptor 2013-, S-MAX 2006-, Taurus 2010-, Transit Connect / Tournee Connect 2014-, Transit Courier / Tournee Courier 2014-

with engine codes:

- M1JA, M1JE, M1JH, SFJA, SFJB, SFJC, SFJD, M1DA, M2DA, M1DD, M2DC, M1JC, M1JJ, P4JA, P4JB, P4JC, P4JD, XMJA, XMJB, XMJC, XMJD, YYJA, TLB, M2DB, SFDB, M2GA, M2GB, M1CA, M1CB, SFCA, SFCB, SFCC, SFCD
- M8DB, M9DB, UEJB, M8DA, M9DA, UNCJ, UNCK, M8MA, M9MA, UNCA, UNCB, UNCC, UNCD, UNCE, UNCF
- HXDA, HXDB, SIDA, JQDA, JQDB, JTDA, JTDB, IQDA, IQDB, PNDA, XTDA, MUDA, PNDD, XTDB, MUDD, HXJA, HXJB, HXJE, RVJA, U5JA, IQJA, IQJC, IQJE, IQDC, JQGA, JQMA, JQMB, JTMA, JTBA, JTBB, KGBA, PNBA, RHBA
- MGDA, XQDA, R9CD, R9CI, TNBA, TNBB, TPBA, R9CB, R9CF, R9CH, TNCC, TNCD, TNCF

scope of delivery:

- sliding hammer with internal thread M10 x 1.5 (1430 g, length: 390 mm)
- sliding hammer weight: 840 g, Ø 45 mm
- puller with external thread M10 x 1.5
- pull-off hook opening 13 mm - 20 mm



Item #
6692

Injection Pump Sprocket Holding Tool | for Ford 2.2 & 3.2 TDCi Duratorq (Puma)

- allows removal of Diesel injection pump without disturbing the engine timing
- holds pump sprocket and timing chain in position
- removing of the timing chain is not required

suitable for following models:

- Ford Transit 2.2 Duratorq as of 2006
- Ford Transit 3.2 Duratorq as of 2006
- Ford Ranger 2.2 Duratorq as of 2011
- additional tool for engine timing tool set (BGS 9010)
- incl. mounting screws
- to be used as OEM 303-1317



Item #

9498

Fuel Sensor Wrench | for Peugeot / Citroen

12.5 1/2

- for removing and installing the fuel sensor fixing ring
- drive profile 1: Internal square
- drive profile size 1, metric: 12.5 mm
- drive profile size 1, inch: 1/2"
- drive profile 2: outer 6-point
- drive profile size 2, metric: 21 mm



Item #

6758

Fuel Pipe Wrenches | for Toyota & Honda

10 3/8

- for loosening / tightening petrol pipes on fuel filters
- open ring spanner, reinforced
- 10 mm (3/8") drive
- length: 94 mm
- BGS 6671: 14 mm
- BGS 6672: 17 mm



Item #	Description
6671	Fuel Pipe Wrench for Toyota & Honda 14 mm
6672	Fuel Pipe Wrench for Toyota & Honda 17 mm

Alternator Freewheel Tool Set | 14 pcs.

12.5 1/2

- for disassembly and assembly of the alternator freewheel
- suitable for alternators made by Nippon Denso, Valeo, Bosch and Magneti-Marelli

scope of delivery:

- ratchet ring wrench, 15 mm
- ratchet ring wrench, 10 mm
- sleeve socket, external hexagon 15 mm drive, external hexagon size 28 mm
- 3 pin sleeve sockets, external hexagon 32 mm
- bit, 10 mm (3/8") drive, internal Hexagon 8 mm
- sleeve spline socket, 15 mm external hexagon drive, 33 teeth
- bit, long type, 10 mm (3/8") drive, internal hexagon 8 mm
- bit, long type, 10 mm (3/8") drive, Spline (for XZN) M10
- bit, long type, 10 mm (3/8") drive, T-Star (for Torx) T50
- bit socket, 12.5 mm (1/2") drive, internal hexagon 10 mm, with sleeve, external hexagon 17 mm drive
- bit adaptor with retaining ball | 12.5 mm (1/2") drive, internal hexagon 10 mm (3/8")
- socket, 12-point, 12.5 mm (1/2") drive, 12 mm
- bit socket, 12.5 mm (1/2") drive, T-Star (for Torx) T50, with sleeve, 15 mm external hexagon drive, 31 teeth
- bit socket, 12.5 mm (1/2") drive, spline (for XZN) M10, with sleeve, 15 mm external hexagon drive, 31 teeth



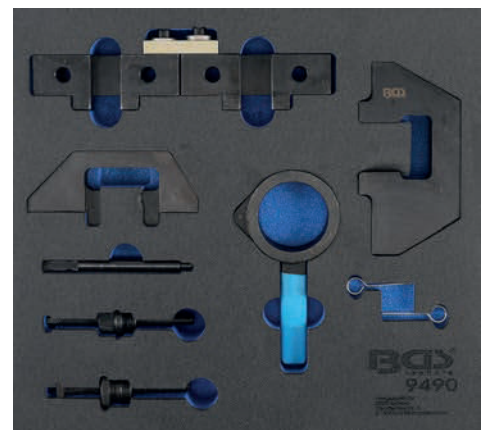
Item #	CV	CV-S2
6657		

Tool Tray 2/3: Engine Timing Tool Set | for BMW M42, M43, M50, M52, M60, M51

- for checking and adjusting the engine timing

suitable for:

- BMW petrol engines M42, M43, M50, M52, M60
- BMW diesel engine M51
- includes required tools to set camshafts, crankshafts and Vanos unit
- crankshaft locking bolt, to be used as OEM 112300
- camshaft alignment tool, to be used as OEM 113240
- camshaft alignment tool, to be used as OEM 113190
- camshaft alignment tool, to be used as OEM 113320
- wrench for Vanos unit, to be used as OEM 115490
- tensioner locking pin set, to be used as OEM 113290
- chain pre-tensioner tool, to be used as OEM 114220
- chain pre-tensioner tool, to be used as OEM 113390



Item #		2/3
9490		

Tool Tray 2/3: Engine Timing Tool Set | for BMW M40, M44, M50, M52, M54, M56

- for checking and adjusting the engine timing

suitable for following BMW models:

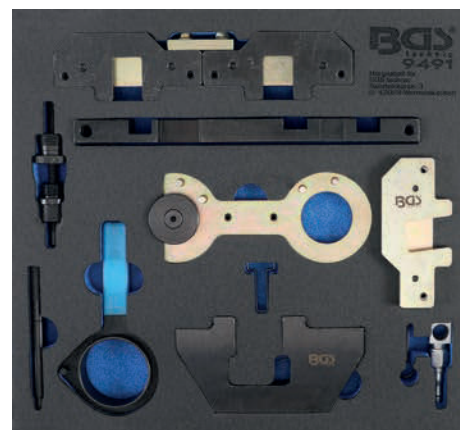
- 3 series (E30, E36, E46)
- 5 series (E34, E39, E60, E61)
- 7 series (E23, E28, E65, E66)
- 8 series (E31)
- X3 (E83)
- X5 (E53)
- Z3, Z4 (E85)

engines codes:

- M40B16, M42B18, M43B16, M43B18, M43TUB19OL, M43TUB19UL, M44B19, M50B20, M50B20TU, M50B25, M50B25TU, M52B20, M52B20TU, M52B25, M52B25TU, M52B28, M52B28TU, M54B22, M54B25, M54B30, M56

scope of delivery:

- crankshaft locking bolt, to be used as OEM 112300
- camshaft alignment tool, to be used as OEM 113190
- camshaft alignment tool, to be used as OEM 113240
- Vanos alignment tool, to be used as OEM 116180
- double Vanos alignment tool, to be used as OEM 116150
- chain pre-tensioner tool, to be used as OEM 114220
- wrench for Vanos unit, to be used as OEM 115490
- compressed air connector, to be used as OEM 113450
- tensioner locking set, to be used as OEM 113290, consisting of locking clip, to be used as OEM 113291 & locking pin, to be used as OEM 113292



Item #	
9491	

Camshaft Mounting Tool | for BMW N53, N54

- for depressing the valve spring when assembling the camshafts
- avoids breaking of the camshaft

scope of delivery:

- camshaft installation tool, to be used as OEM 11 8 550, consists of:
 - valve spring depressor, to be used as OEM 11 8 551
 - fixing bolts, to be used as OEM 11 8 552

Item #
9647



Special Socket for ATF Filler Plug | T-Star (for Torx) T55 | for MINI

- for easy assembly and disassembly of the filler plug when checking / changing or adding auto transmission fluid on MINI vehicles
- the small distance between filler plug and servo steering makes it difficult for standard tools to be used
- output profile: T-Star (for TORX) T55
- drive profile: external hexagon, 17 mm



Item #
9648



Crankshaft Locking Tool | for BMW N47

- for locking the crankshaft in timing position
- required when replacing one of both timing chains

suitable for BMW N47 engines with engine codes:

- 1.6 N47 C16U1, C16K1, C16A/U1, D16C, D16
- 2.0 N47 C20K1, C20U1, C20A/K1, D20B/D/T0, D20C/K1, D20C, D20C/U1, D20C/O1, D20D, D20D/T1, D20O1, D20C/O, D20A, D20C/01, D20U0
- to be used as OEM 2285671, 83302285671



Item #
9868

Flywheel Blocking Tool | for BMW N55, N20, N26

- for locking the flywheels on BMW engines N55, N20, N26 with automatic transmissions when loosening and tightening the pulley central bolt
- suitable for BMW engines N55, N20, N26
- to be used as BMW OEM 118660



Item #
9867



Tool Tray 1/3: Engine Timing Tool Set | for BMW, MINI 1.5, 2.0 Diesel

- for checking and adjusting the engine timing

suitable for the following models:

- BMW:
 - 114d / 116d / 118d / 125d (F20/21) 2015-2017
 - 214d / 216d / 218d / 220d / 225d (F22 / 23 / 45 / 46), 2014-2017
 - 316d / 318d / 320d / 325d (F30 / 31 / 34), 2015-2017
 - 420d / 425d / 418d (F32 / 33 / 36), 2015-2017
 - 518d / 520d (F10 / 11), 2014-2017
 - 520d / 525d (G30 / 31 / F90) 2016-
 - 620d GT (G32GT) 2018-
 - 725d / 725Ld (G11/12) 2016-
 - X1 16d / 18d / 20d / 25d (F48), 2015-2017
 - X2 18d / 18dX / 20dX / 25dX (F39) 2018-
 - X3 18d / 20dX (F25), 2014-2017
 - X3 20dX / 25dX (G01) 2017-
 - X4 20dX (F26) 2014-2017
 - X4 20dX / 25dX (G02) 2018-
 - X5 25d (F15) 2015-
- MINI:
 - Cooper D 1.5 (F55 / 56 / 57) 2014
 - One D 1.5 (F55 / 56) 2014-
 - One D 1.5 (F54) 2015-
 - Cooper D 2.0 (F64 / 61) 2015-
 - Cooper SD 2.0 (F55 / 56 / 57) 2013-
 - Cooper SD 2.0 (F54 / 60) 2015-
- suitable for the following engines B37 D15A, B37 C15A and B47 D20A, B47 D20B, B47 C20A, B47 C20B

scope of delivery:

- camshaft alignment tool, to be used as OEM 11 8 760
- crankshaft holding tool, to be used as OEM 2 357 904
- flywheel timing pin, to be used as OEM 2 288 380
- drive plate timing pin adaptor, to be used as OEM 2 365 488
- fuel pump sprocket removal tool, to be used as OEM 11 8 030
- tensioner locking pin, to be used as OEM 11 4 120



Item #	
6685	 

Timing Chain Tensioner Locking Pin Set | for BMW

- for locking the chain tensioner
- suitable for engine codes: M43, N47, N47S, N51, N52, N52K, N53, N54, etc.

scope of delivery:

- 1 pin 3 mm, to be used as BMW OEM 114120 / 83300491012
- 1 pin 4 mm, to be used as BMW OEM 113340 / Land Rover OEM LRT 12114 / Opel OEM KM-823

Item #
6734



Tensioner Wrench Set | for Flat Belts | for MINI

- for releasing the tensioner when removing and installing the serpentine belt
- suitable for the following MINI models: >2007, engines EP3, EP6, N12, N14, N16 and N18
- to be used as OEM 116210
- to be used with V-ribbed belt tensioning arms from following manufacturers:
 - Dayco APV2465, Febi 33136, Gates T39127, INA 534031810, Ruville 55999, SKF VKMA33400, SNR GA350.67

scope of delivery:

- 1 tensioner wrench 21 mm, 12-point drive
- 1 tensioner wrench 30 mm, 12-point drive



Item #
6688

High Pressure Pump Puller / Sprocket Supporting Sleeve | for BMW N47 / N57

- for removing the high pressure pump sprocket
- holds the pump sprocket and timing chain in position when removing the high pressure pump
- suitable for BMW engines N47, N47S, N57, N57S
- built in the following models:
 - 116D, 118D, 120D, 123D, type E81, E82, E87, E88, F20
 - 316D, 318D, 320D, 325D, 330D, type E90, E91, E92, E93, F30
 - 520D, 525D, 530D, 530D GT, 535D, 535D GT, M550D, type E60, E61, F07, F10, F11
 - 640D, type F12
 - 730D, 740D, 750D, type F01
 - X1-1.8D, 2.0D, 2.3D, type E84
 - X3-1.8D, 2.0D, 3.0D, 3.5D, type E83, F25
 - X5-3.0D, 4.0D, M550D, type E70
 - X6-3.0D, 4.0D, M500D, type E71
- to be used as OEM 118740 - 118741 - 118742



Item #
8724-1



Tool Tray 2/3: Engine Timing Tool Set | for BMW and MINI, 1.5 & 2.0L Diesel

- for checking and setting the engine timing

suitable for the following models with 1.5 & 2.0L diesel engines:

- BMW 114d, 116d 118d, 214d 125d (2015-2017)
- BMW 216d, 218d, 220d, 225d (2014-2017)
- BMW 316d, 320d, 325d (2015-2017)
- BMW 420d, 425d, 418d (2014-2017)
- BMW 518d (2015-2017)
- BMW X1, X3, X4, X5, Efficient Dynamics, xDrive and sDrive (2014-2017)
- MINI One D, Cooper D/SD (2014-2017)

engine codes:

- 1.5 liter (B37 D15A, B37 C15A)
- 2.0 liter (B47 D20A, B47 D20B, B47 C20A, B47 C20B)

scope of delivery:

- camshaft adjusting tool, to be used as OEM 11 8 760
- crankshaft locking tool, to be used as OEM 2 357 904
- flywheel adjusting pin, to be used as OEM 2 288 380
- adaptor plate for adjusting pin, to be used as OEM 2 365 488
- high pressure pump sprocket puller, to be used as OEM 11 8 740, 11 8 741, 11 8 742
- tensioner locking pin, to be used as OEM 11 4 120
- spacer with screw, to be used as OEM 11 9 265
- special bit socket, to be used as OEM 11 4 180



Item #	
6775	

Tool Tray 1/3: Engine Timing Tool Set for Jeep 3.0 V6 Diesel

- for adjusting the engine timing when replacing the timing chain, cylinder head gasket

suitable for following vehicles:

- Jeep Grand Cherokee 3.0 V6 CRD (2011-2015), engine code: EXF VM23D
- Jeep Grand Cherokee 3.0 Multijet (2011-2015), engine code: EXF VM44D

scope of delivery:

- camshaft locking tool for right cylinder head, to be used as OEM VM10338-1
- camshaft locking tool for left cylinder head, to be used as OEM VM10338-2
- tensioner locking pin, to be used as OEM VM1039a
- crankshaft timing pin, to be used as OEM VM10339

Item #	
9695	

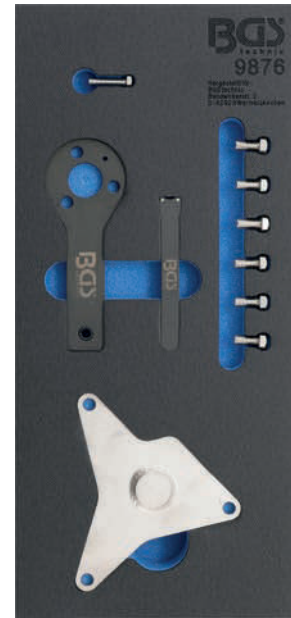


Engine Timing Tool Set | for Alfa Romeo, Fiat 1.4 MultiAir

- for checking and setting the engine timing when replacing the tooth belt

suitable for the following models:

- Alfa Romeo Giulietta, Mito / Fiat Punto, Punto Evo 1.4 (Turbo) MultiAir (105/135/163/170PS)
- engine codes: 940A2.000 / 940A2.000 / 955A8.000 / 955A8.000 / 940A2.000 / 955A8.000 / 955A2.000 / 955A7.000 / 955A6.000 / 955A8.000
- camshaft timing tool incl. 3 fastening screws, to be used as OEM 2000034400
- crankshaft locking tool incl. 4 fastening screws, to be used as OEM 2000004500
- tensioner pulley adjusting tool, to be used as OEM 1860987000



Item #	
9876	 1/3

Tool Tray 1/3: Engine Timing Tool Set | for Alfa Romeo / Lancia 1.75

- for checking and setting the engine timing
- suitable for Alfa Romeo Giulietta, 159, Spider, Brera 1.75L TBi and Lancia Delta 1.75L DI Turbo Jet
- engine codes: 940A1.000, 939B1.000

scope of delivery:

- camshaft locking tool, to be used as OEM 2000033500
- crankshaft locking tool, to be used as OEM 2000003000, EN-46788, 1860771000, 1860905000, 1860905010, 2192543000
- flywheel locking tool, to be used as OEM 2000033600, 1820630000, 1820007000, 1820228000, 1820240000, 1860898000, 1820240000



Item #	
6774	 1/3

Tool Tray 1/6: Camshaft Holding Tool and Crankshaft Sealing Ring Tool Set | for Ford & Volvo 2.5 Turbo

- for holding the camshaft while setting the tappet and for installing the front crankshaft oil sealing
- suitable for: Ford & Volvo 2.5L Duratec-VE (VI5) Turbo petrol engines
- for following models:
 - Ford Focus (2005-2011)
 - Galaxy (2006-2010)
 - Ford Kuga (2009-2013)
 - Mondeo (2007-2010)
 - S-Max (2006-2010)
 - Volvo C30 (2006-2013)
 - C70 (2006-2013)
 - S40 (2003-2012)
 - S60 (2003-2016)
 - S80 (2003-2012)
 - Volvo V40 (2012-2015)
 - V50 (2004-2012)
 - V70 (2002-2012)
 - XC60 (2014-2016)
 - XC70 (2002-2007)
 - XC90 (2002-2014)
- engine codes: HYDA, HYDB, HUBA, B5254T10, B5254T11, B5254T12, B5254T14, B5254T2, B5254T3, B5254T4, B5254T5, B5254T6, B5254T7, B5254T8, B5254T9

scope of delivery:

- camshaft holder, to be used as OEM 303-1183, 9995765
- crankshaft seal driver, to be used as OEM 303-1180
- crankshaft seal guide, to be used as OEM 303-1180



Item #		
9605		

Tool Tray 1/6: Camshaft Setting Tool | for Ford 1.6 EcoBoost

- for locking camshafts when removing / replacing the timing chain

suitable for following Ford models:

- 1.6L EcoBoost (Sigma)
- Galaxy, S-Max, Mondeo, C-Max, Focus, Fiesta, Kuga, Transit, Tourneo Connect

scope of delivery:

- camshaft setting bar, to be used as OEM 303-1552



Item #		
9692		

Tool Tray 1/3: Engine Timing Tool Set | for Ford 2.5, Volvo 1.6 - 2.5 & 2.4D

- for setting the camshaft and crankshaft timing when replacing the cylinder head gasket

suitable for following models:

- Ford
 - Focus 2.5 RS / ST, Mondeo 2.5, S-Max 2.5, Galaxy 2.5 ST (2005-)
 - engine codes: 2.5 Turbo (Euro 4), HUBA / HUWA / HYDA / JZDA
- Volvo
 - C30 (06-10), C70 (98-10), S40 (96-10), S60 (00-09), S70 (97-07), S80 (98-06), V40 (96-10), V50 (04-10), V70 (97-07), XC70 (02-07), XC90 (02-10)
 - engine codes: 1.6 (B4164S), 1.8 (B4184S), 1.9T (B4194T), 2.0 (B4204S / B4204T), 2.0T (B5204T3 / B5204T4 / B5204T5), 2.3 (B5234FS), 2.3T (B5234T3 / B5234T7 / B5234T9), 2.4 (B5244S / B5244S2 / B5244S4 / B5244S5 / B5244S7), 2.4T (B5244T / B5244T3 / B5244T4 / B5244T5 / B5244T7), 2.5R (B5254FS), 2.4D (D5244T9 / D5244T8 / D5244T13)

scope of delivery:

- crankshaft pulley holding tool, to be used as OEM 999 5433 / 303-1179
- camshaft alignment tool, to be used as OEM 303-1178
- crankshaft alignment tool, to be used as OEM 303-1182
- camshaft holder, to be used as OEM 303-1183



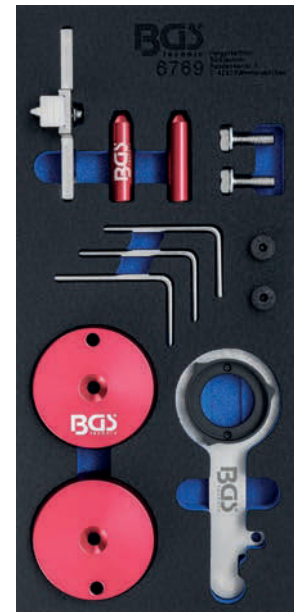
Item #		1/3
9738		

Tool Tray 1/3: Engine Timing Tool Set | for Ford 2.0TDCi EcoBlue

- for checking and setting the engine timing on e.g. Ford Transit and Tourneo (2016-)
- engine codes: YLFS, YLF6, YMFS, YMF6, YNFS, YNF6, YLR6, YMR6, YNR6, YMR6, YNR6

scope of delivery:

- 1 flywheel locking tool, to be used as OEM 303-1643
- 1 crankshaft alignment tool, to be used as OEM 303-1637
- 2 timing belt installation tools, to be used as OEM 303-1650
- 2 camshaft locking pins
- 1 tensioner locking pin



Item #		1/3
6769		

Flywheel Locking Tool | for Ford

- is needed for loosening and tightening the flywheel and crankshaft pulley

suitable for the following Ford models:

- models: Ford C-MAX (2007-2017), S-MAX (2006-2017), EcoSport (2013-2017), Edge (2015-2017), Fiesta (2013-2017), Focus (2004-2017), Galaxy (2006-2017), Kuga (2008-2017), Mondeo (2007-2017)
- engines:
 - 1.5L (UEJB, UEJE, UEJB, ENUE),
 - 1.6L (IQDA, IQDB, PNDA, XTDA, MUDA, PNDD, XTDB, MUDD, IQJA, IQJC, IQJE, IQDC, KGBA, PNBA, RHBA)
 - 2.0L (G6DA, G6DB, G6DC, G6DD, G6DE, G6DF, G6DG, IXDA, TXDA, TXDB, TYDA, UFDB, UKDB, T7DB, T8DA, T8DE, T8CM, T9CE, T7DA, AZWA, AZWC, KLWA, QXWA, QXWB, TXWA, TYWA, UFWA, UKWA, T7CJ, T7CK, T7CL, T8CH, T8CI, T8CJ, UFCA, UFCB, T9CB, T9CC, UFDA, UKDA, T7MA, T7MB, T8MA, T8MB, TXMA, UFMA, UKMA, XRMA, XRGB, AZBA, AZBC, KLBA, LPBA, QXBA, QXBB, TXBA, TYBA, UFBA, UKBA, UKBB, T7CE, T8CC, T8CD, T8CL, T9CA),
 - 2.2L (KNWA, Q4BA, Q4WA, KNBA, KNBB)
- to be used as OEM 21-168, 303-1272, 303-393, 303-393-01, 303-393-02

scope of delivery:

- baseplate
- fixing screw
- pawl, 11 mm
- pawl, 29 mm
- pawl, 42 mm



Item #
9819

Tool Tray 1/3: Engine Timing Tool Set | for Land Rover 3.6 TD V8

- for adjusting the engine timing when replacing the timing chain and cylinder head gasket

suitable for following models:

- Range Rover (L332) 3.6 TD V8 (2006-2011), engine code: 368DT
- Rover Sport L320 3.6 TD V8 (2006-2011), engine code: 369DT

scope of delivery:

- camshaft alignment tools (2x) with fixing screws, to be used as OEM 303-1236
- flywheel locking tool, to be used as OEM 303-1243
- crankshaft timing pin, to be used as OEM 303-1238
- camshaft rotating pin, to be used as OEM 303-1239

Item #
9694



Tool Tray 1/6: Balance Shaft Adjusting Tool Set | for Mercedes-Benz OM651

- for adjusting the balancer shafts
- to be used with Engine Timing Tool Set for Mercedes-Benz OM651 (BGS 62633)

suitable for following Mercedes-Benz models:

- A-class W176 180/200/220 CDI
- B-class W246 200/220 CDI
- C-class W/S/C 204 180/200/220/250 CDI
- C-class W205 220/250
- CLA C117 200/220 CDI
- CLS C/X 218 220/250
- E-class W/S 212 200/220/250 CDI
- E-class C/A 207 220/250 CDI
- E-class W212 250/300 BlueTEC
- GLA X156 200/220 CDI
- GLK X 204 200/220/250 CDI
- ML W166 250
- SLK R172 250 CDI
- Sprinter W906 210/310/510/213/313 CDI
- Sprinter W906 513/216/316/416/516 CDI
- V-Class W/V 447 200/220/250 CDI
- Viano W/V 639 2.0/2.2CDI
- Vito W/V 639 110/113/116 CDI

scope of delivery:

- balance shaft locking forks
- balance shaft locking bar
- fixing screws
- to be used as OEM 651 589 02 63 00



Item #	
9693	 

Ribbed Belt tensioner | for Mercedes-Benz W169 & W245

- for tensioning and loosening the damper spring
- prevents damage to the tensioner element and injuries
- spindle with ball head, drive: inner hexagon 10 mm
- to be used as OEM 266589003100

suitable for the following vehicles with start-stop function and/or air conditioning:

- A-Class W169 2004-2012 (A150, A160, A170, A180, A200, A200T)
- B-Class W245 2005-2011 (B150, B160, B170, B180, B200, B200T)



Item #
9811

Tool Tray 1/6: Engine Timing Tool Set | for Mercedes-Benz M642

- for holding the camshaft when adjusting the engine timing
- suitable for Mercedes-Benz engines M642

suitable for the following models:

- C-Class W203 / S203 (2000-2007), W204 / S204 (2007-)
- CLK C209 / A209 (2002-2010)
- CLS C218 / C219 (2004-)
- E-Class W211 / S211 (2002-2009), W212 / S212 (2009-), C207 / A207 (2009-)
- S-Class W221 / W222 (2005-)
- M-Class W164 / W166 (2005-)
- R-Class W251 / V251 (2006-)
- G-Class W461 / W463 (2009-)
- GL-Class X164 / X166 (2006-)
- Viano W639 (2003-)
- Sprinter 906 (2006-)
- Vito V639 (2006-)

scope of delivery:

- 2 camshaft holding tools incl. 8 fixing screws, to be used as OEM 642 589 00 31 00



Item #	
6689	

Timing Chain Hold-Down Device | for Mercedes-Benz

- absolutely necessary in order not to damage the camshaft and cylinder head when rotating of the engine
- to be used as OEM 642589014000



Item #
6687

Tool Tray 1/6: Engine Timing Tool Set | for GM, Opel, Vauxhall, Saab 2.0 Turbo

- for checking / adjusting the engine timing

suitable for the following vehicles:

- Vauxhall / Opel Signum Turbo, Vectra-C Turbo (2002-2008)
- Saab 9-3 1.8 Turbo (2002-2011)
- Saab 9-3 1.8 Turbo BioPower (2002-2011)
- Saab 9-3 2.0 Turbo (2002-2012)
- Saab 9-3 2.0 Turbo BioPower (2010-2012)
- Saab 9-3XT (2009-2011)

engine codes:

- Z20NET, B207, B207L, B207, B207L, B207, B207L, B207, B207L

scope of delivery:

- crankshaft pulley holding tool, to be used as OEM KMJ38122-A, 8396210
- inlet camshaft alignment tool, to be used as OEM KM6362-1, EN-48366-001
- exhaust camshaft alignment tool, to be used as OEM KM6362-2, EN-48366-002
- chain tensioner locking pin, to be used as OEM KM6077, 8396392



Item #	
9637	 1 6

Engine Timing Tool Set | for Opel / Vauxhall 1.6 CDTi ecoFLEX

- for setting and checking the engine timing when replacing the cylinder head gasket, timing chain, etc.

suitable for following vehicles:

- Opel / Vauxhall Astra J, Astra K, Mervia B, Mokka, Zafira C Tourer

engine codes:

- LVL / B16DTN, LVM / B16DTC, LWQ / B16DTE, LVL / B16, LVL / B16DTJ

scope of delivery:

- drive belt tensioner locking pin, to be used as OEM EN-6349, EN-6130
- camshaft adjusting pin, to be used as OEM EN-51143
- crankshaft alignment tool (incl. screws), to be used as OEM EN-51140
- chain tensioner unit locking pin, to be used as OEM EN-50513
- camshaft sprocket retaining tool (incl. screws), to be used as OEM EN-51188



Item #
9621

Tool Tray 1/6: Engine Timing Tool Set | for Opel, Saab, Buick, Cadillac, Chevrolet 2.8L / 3.6L V6

- for checking and setting the engine timing

suitable for following models:

- Buick Enclave 3.6, engine code: LY7
- Cadillac SRX, STS, CTS 3.6, engine code: LY7, LLT
- Chevrolet Camaro 2.8, engine code: LTT, LFX
- Opel Insignia 2.8 V6 Turbo, engine code: LAU/A28NER
- Opel Antara 3.2 V6 (as of 2007), engine code: Z32SE
- Saab 9-5 2.8 (2009-2013), engine code: LAU/A28NER

scope of delivery:

- camshaft alignment tool, to be used as OEM EN-48383-1, EN-48383-2, EN-48383-3
- flywheel locking tool, to be used as OEM EN-46106
- crankshaft setting tool, to be used as OEM EN-46111



Item #		1
9754		6

Tool Tray 1/3: Engine Timing Tool Set | for Opel / Vauxhall 1.6 SIDI

- for checking and setting the engine timing when replacing the timing chain

suitable for following Opel / Vauxhall models:

- Cascada, Astra J, Zafira C, Insignia (2013-2016)

engines:

- SIDI, SIDI Turbo, SIDI Turbo EcoFLEX

engine codes:

- LVP/A16XHT, LWC/A16SHT, LVP/B16XHT, LWC/B16SHT, LWC/A16SHL

scope of delivery:

- camshaft alignment tool, to be used as OEM EN-51148
- crankshaft pulley holding tool, to be used as OEM EN-51147
- balance shaft sprocket locking tools, to be used as OEM EN-51153
- chain tensioner locking pin, to be used as OEM EN-50513



Item #		1
9688		3

Tool Tray 1/6: Camshaft Timing Tool Set | for Opel / Vauxhall 2.0 CDTi

- for removing / replacing the timing chain inside the cylinder head
- suitable for 2.0 CDTi / EcoFLEX engines (as of 2014)
- engine code: LFS/B20DTH

suitable for following Opel / Vauxhall models:

- Cascada 2.0 CDTi (2015-2017)
- Insignia 2.0 CDTi (2014-2017)
- Insignia Country Tourer 2.0 CDTi (2014-2017)
- Zafira-C Tourer 2.0 CDTi (2014-2017)

scope of delivery:

- camshaft alignment tool, to be used as OEM EN-51415
- chain tensioner locking pin, to be used as OEM EN-51418



Item #		1
9690		6

Engine Timing Tool Set | for Opel / Vauxhall 2.0 CDTi / EcoFLEX

- for checking and setting the engine timing when e.g. replacing the timing belt

suitable for the following Opel / Vauxhall models:

- Cascada (15-17)
- Insignia / Country Tourer (14-17)
- Zafira C Tourer (14-17) with 2.0 CDTi engine
- EcoFLEX engine (engine code: LFS/B20DTH)

scope of delivery:

- high-pressure fuel pump sprocket locking tool, to be used as OEM EN-51413
- auxiliary drive belt tensioner locking pin, to be used as OEM EN-955-2
- crankshaft timing tool, 3-piece, to be used as OEM EN-51412
- camshaft locking pin, to be used as OEM EN-51414
- crankshaft pulley holding tool (automatic transmission), to be used as OEM EN-51411



Item #		1
9858		3

Tool Tray 1/3: Engine Timing Tool Set | for Opel 1.0, 1.4 L Petrol Engines

- for checking and setting the engine timing
- suitable for Opel 1.0 / 1.4 L petrol engines with turbocharger and 1.4 L naturally aspirated petrol engines
- suitable for Opel 1.0 L 3-cylinder turbo engines (LE1/B10XFL, LE1/B10XFT, LE1/B10XHL), 1.4 L 4-cylinder naturally aspirated engines (LV7/B14XE) and 1.4 L 4-cylinder turbo engines (LE2/B14XHL, LE2/B14XHT), built in e. g. Opel / Vauxhall Adam, Adam Rocks, Astra K, Corsa E (2014-2017) Turbo / SIDI / Ecoflex

scope of delivery:

- camshaft alignment tool (1), for 1.4 L naturally aspirated engines, to be used as OEM EN-51632
- camshaft alignment tool (2), for 1.0 L & 1.4 L turbocharger engines, to be used as OEM EN-51367
- balancer shaft alignment tool (3), to be used as OEM EN-51298

Item #
6686



Tooth Belt Tensioning Tool | for Citroen & Peugeot

- timing belt locking tool
- suitable for Citroen and Peugeot models
- to be used as OEM 0188-J2, 0188J2

Item #
8152-7



Tool Tray 1/6: Crankshaft Locking Tool | for Porsche Boxster, 911 M96

- for locking the crankshaft pulley and tensioning the camshaft adjustment

suitable for the following Porsche models:

- Boxster (986) 2.5
- Boxster (986) 2.7
- Boxster (986) 3.2
- 911 (996) 3.4

engine codes:

- M96/20, M96/22, M96/21, M96/01, M96/01S

Scope of Delivery:

- locking bolt for crankshaft pulley, to be used as 9595/1, 00072195951
- 2 tensioning screws (left hand thread), to be used as 9632/1, 00072196321
- 2 tensioning screws (right-hand thread), to be used as 9632, 00072196320

Item #
9624



Engine Timing Tool Set | for Porsche 911, Cayman, Boxster with MA1 Engine

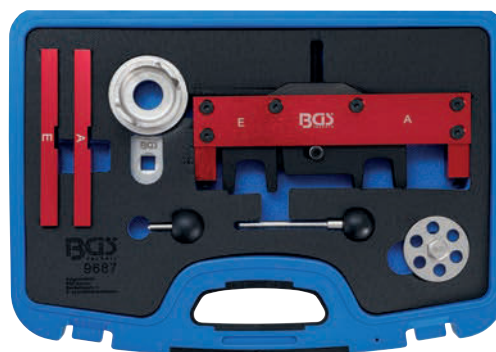
- for turning and aligning crankshaft and camshaft when removing or replacing the timing chain
- in a BGS system case with EPE foam tray

suitable for following Porsche models:

- 911 Coupe / Cabrio / Targa 3.6 (997) (253 KW), engine code MA1/02
- 911 Coupe S / Cabrio S / Targa S 3.8 (997) (283 KW), engine code MA1/01
- 911 Coupe / Cabrio / Targa 3.6 (997) (254 KW), engine code MA1/02
- 911 Coupe S / Cabrio S / Targa S 3.8 (997) (283 / 300 KW), engine code MA1/01
- 911 Turbo 3.8 (997) (368 KW), engine code MA1/70
- 911 Turbo 3.8 (997) (368 / 390 KW), engine code MA1/70
- 911 S 3.8 (991) (294 KW), engine code MA1/03
- 911 3.4 (991) (257 KW), engine code MA1/04
- 911 GT3 3.8 (991) (350 KW), engine code MA1/75
- 911 GT3 RS 4.0 (991) (373 KW), engine code MA1/76
- 911 Turbo 3.8 (991) (383 KW), engine code MA1/71
- 911 Carrera 3.6 (997) (239 KW), engine code MA1/02
- 911 Carrera S 3.8 (997) (283 / 300 KW), engine code MA1/01 / MA1/01S
- 911 Turbo / Turbo S 3.8 (997) (368 / 390 KW), engine code MA1/70 / MA1/70S
- Boxster 2.9 (987) (155 / 188 KW), engine code MA1/20
- Boxster S / Spyder 3.4 (987) (228 / 235 KW), engine code MA1/21 / MA1/21C
- Boxster 2.7 (981) (155 / 195 KW), engine code MA1/22
- Boxster 3.4 (981) (232 KW), engine code MA1/3
- Boxster 3.4 (981) (232 KW), engine code MA1/23
- Cayman / S 2.9 / 3.4 (987) (155 / 195 KW), engine code MA1/20C
- Cayman 2.7 (981) (155 / 202 KW), engine code MA1/22C
- Cayman S 3.4 (981) (239 KW), engine code MA1/23C

scope of delivery:

- camshaft alignment tool, to be used as OEM 9772
- crankshaft pulley turning tool, to be used as OEM 9773
- crankshaft timing pin, to be used as OEM 9595/1
- crankshaft pulley holding tool, to be used as OEM 9775



Item #
9687

Tool Tray 1/3: Flywheel / Crankshaft Pulley Locking and Chain Cover Separating Tool Set | for Renault, Nissan

- for locking the flywheel and front pulley and separating the chain cover when replacing the timing chain

suitable for following models:

- Renault 1.4 / 1.6 / 2.0 / 2.5 / 3.5L petrol engines with timing chain
- petrol engines 1.4 L (H4JT) / 1.6 L (M5M) / 2.0L (M4R) / 2.5 L (2TR) / 3.5 L (V4Y)
- for locking the flywheel on Diesel engines 2.0 L (M9R) / 2.3 L (M9T), use with BGS 8421

scope of delivery:

- crankshaft pulley holding tool, to be used as OEM MOT 2019 / MOT 1789
- flywheel locking tool, to be used as OEM MOT 919-02
- flywheel locking tool, to be used as OEM MOT 14314
- timing chain cover separating tool, to be used as OEM MOT 1716



Item #	
9699	 

Engine Timing Tool Set | for MINI, Citroen, Peugeot 1.6L Diesel

- for checking and adjusting the engine timing

suitable for following models with 1.6 l diesel engines:

- BMW MINI / MINI Clubman, series R55 / R56 / R57
- Citroen C2 / C3 / C4 / C5 / Grand Picasso, Berlingo (MK3) / Xsara Picasso
- Peugeot 206 / 206cc / 207 / 207cc / 1007 / 307 / 308 / 308cc / 3008 / 5008 / Partner (MK3)

engine codes:

- BMW: W16D16 (9HZ) / W16D16UO
- PSA: 9HZ / 9HX / 9HY (DV6TED4)

scope of delivery:

- crankshaft timing pin, to be used as OEM PSA 0194A / BMW 119790
- camshaft timing pin / high pressure fuel pump timing pin, to be used as OEM PSA 0194B / BMW 110300
- flywheel holding tools, to be used as OEM PSA 0194C / BMW 119850, 119851, 119852



Item #	
9601	

Tool Tray 1/6: Balance Shaft Adjusting Tool Set | for Land Rover, Citroen, Mitsubishi, Peugeot, Ford 2.2 DOHC Diesel Engines

- for adjusting the balancer shaft

suitable for following models:

- Land Rover Discovery, Discovery Sport, Freelander 2, eD4, TD4, TD4e (2009-2015)
engine codes: 224DT, DW12CTED4/224DT, DW12BTED4/224DT
- Citroen C5, C5 II, C5 III, C6, C8, C-Crosse HDi (200-2015)
engine codes: 4HX (DW12CTED4), 4HP (DW12BTED4), 4HX (DW12TED4), 4HW (DW12TED4/L4)
- Mitsubishi Outlander DI-D, DI-DC (2007-2013)
engine codes: 4HK, 4HN
- Peugeot 4007, 407, 607, 807, 406, 508, 607, HDi, GT Hdi (2000-2015)
engine codes: DW12MTED4 (4HK), DW12MTED4 (4HN), DW12BTED4 (4HP), DW12BTED4 (4HR), DW12BTED4 (4HT), DW12TED4/L4 (4HW), DW12BTED4 (4HS), DW12ATED (4HZ), DW12ATED4 (4HX), DW12ATED (4HZ), DW12CTED4 (4HL)
- Ford Galaxy, Mondeo, S-Max, TDCI, TCI (2008-2015)
engine codes: KNBB, KNBA, KNWA, Q4BA

scope of delivery:

- balance shaft locking tool, to be used as OEM 303-1329
- backlash lever, to be used as OEM 303-1330
- balance shaft setting tool, to be used as OEM 303-1328, 0190D



Item #	1/6
9606	

Inlet Camshaft Gear Alignment Tool

- for aligning the teeth on split gears with spring mechanism
- aligns the two gear halves to each other, thereby facilitating the disassembly and assembly of the camshaft
- suitable for Opel / Vauxhall 1.3L diesel Corsa E (2015-), engine codes: LKU / B13DTE, LKU / B13DTR, LKV / B13DTC, BMW 1.5L diesel 1 series (2015-), 2er (2014-), X1 (2015-), MINI One (2014-), engine codes: B37 C15A, B367 D15A
- to be used as OEM Opel EN-50509 and BMW, MINI 11 5 370

Item #
9877



Holding Wrench | for Crankshaft Belt Pulleys | for Honda | 500 mm

- for counter holding the crankshaft pulley when loosening / tightening the central bolt and for fixing the balancer shaft when working on the engine timing
- length: 500 mm

suitable for the following models:

- Honda Accord 1.8 / 2.0 / 2.2 V-TEC
- Honda Accord Coupe / Aerodeck 2.0 / 2.2
- Honda Accord 2.3 (1993-2003)
- Prelude 2.0 (1997-2003)
- Shuttle 2.2i / 2.3i (1995-2001)
- engine codes: F18A3, F18B2, F20B3, F20B6, F20Z1, F20Z2, F20Z3, F22B5, F22B6, F22Z2, F23Z5, F20A4, F20B5, F22B8, F23A7
- to be used as OEM 07JAB-0010200 / 07JAB-0010202B



Item #

9786

Camshaft Timing Tool Set | for VAG | 3 pcs.

- to secure the camshaft during inspection and adjusting the valve control times
- suitable for 1.2 / 1.4 TSi / TFSi engines with active cylinder management ACT or COD
- engine codes: CPTA, CZEa
- e. g. installed in the following models:
 - Audi A1 (2013-), A3 (2013-), Q3 (2014-)
 - VW Passat (2012), Golf (2012-), Polo (2015-)
 - Seat Leon (2014-), Ibiza (2013-)
 - Skoda Superb (2015-)

scope of delivery:

- camshaft adjusting tool, to be used as OEM T10504
- camshaft adjusting pin, to be used as OEM T10504/1
- camshaft inspection pin, to be used as OEM T10504/2



Item #

9493

High Pressure Pump Sprocket Locking Tool for VAG V6 & V8 CR TDI

- for locking the high pressure pump sprocket when replacing the timing tooth belt
- suitable for 2.7L - 3.0L - 4.0L - 4.2L TDI engines
 - V6 TDI common rail, engine codes: CANA, CANB, CANC, CAND, CDYA, CDYB, CDYC, CASA, CASB, CAMA, CAMB, CCWA, CCWB, CGKA, CGKB, CCLA, CARA, CEXA, CASA, CASB, CASC, CATA, CCMA
 - V8 TDI common rail, engine codes: CCFA, CCFC, CDSB, CTEC
- to be used as OEM 40135



Item #

9584



Flywheel Counterholder | for VAG

- for locking the flywheel during loosening / tightening of the crankshaft belt, pulley and flywheel
- consists fastening bolts and locking claw
- to be used as OEM 3067



Item #
9616

Crankshaft Locking Tool | for VAG 1.4, 1.6, 2.0 TDI (EA288)

- for adjusting / locking the crankshaft when working on camshaft drive or replacing cylinder head gasket
- suitable for:
 - TDI Common Rail engine EA288
- for following vehicles:
 - 1.4 TDI Audi A1
 - 1.4 TDI Seat Ibiza, Toledo IV
 - 1.4 TDI Skoda Fabia III, Rapid (2012)
 - 1.4 TDI VW Polo V
 - 1.6 TDI Audi A1, A3 8V, A4 B9, Q2
 - 1.6 TDI Seat Leon III, Toledo IV, Ateca
 - 1.6 TDI Skoda, Octavia III, Rapid (2012), Superb III, Karoq
 - 1.6 TDI VW Beetle, Golf VII, Jetta VI, Tiguan, Touran II, T-Roc, Passat B8, CC, Scirocco III
 - 2.0 TDI Audi A3 8V, A4 B9, Q2
 - 2.0 TDI Seat Leon III, Ateca, Alhambra II
 - 2.0 TDI Skoda Octavia III, Superb III, Kodiaq, Karoq
 - 2.0 TDI VW Beetle, Golf VII, Jetta VI, Tiguan, Tiguan II, Touran II, T-Roc, Sharan II, Passat B8, CC, Scirocco III, Arteon, T6, Caddy, Crafter, Amarok
- to be used as OEM T10490



Item #
9625

Camshaft Locking Tool | for VW LT 2.8D

- for securing the camshaft during inspection and adjusting the valve control timing
- suitable for VW LT 2.8D (1996-2006)
- suitable for following engine codes:
 - AGK, ATA, AUH, BCQ
- to be used as OEM 3445



Item #
9753

Tool Tray 1/3: Camshaft Counterholding Tool Set | for VAG

- for counter-holding when loosening and fastening oil pump and camshaft sprocket bolts
- also suitable for turning the crankshaft when checking the engine timing

suitable for the following EA211 engines:

- 1.0 MPI, engine codes: CHYA, CHYC, CPGA, CHYB
- 1.0 TSI, engine codes: CHZE, CHZK, CHZA, CHZB, CHZC, CHZD, CHZJ
- 1.2 TSI, engine codes: CJZB, CJZC, CYVA, CJZA, CJZD, CYVB
- 1.4 TSI, engine codes: CPWA, CZCC, CMBA, CZCA, CHPA, CPTA, CZDA, CVNA, CZEA

built in the following VAG models:

- Audi A1, A3 (8V), A4 (B9), A5 (F5), Q2, Q3 (8U)
- Seat Alhambra II, Arona, Ateca, Ibiza (Typ 6J/6P), Ibiza (6F), Leon III, Toledo IV
- Volkswagen Beetle, Golf VII, Passat (B8), Polo V, Polo VI, Sharan II, Tiguan I, Tiguan II, Touran II, T-Roc, up!
- Skoda Citigo, Fabia III, Karoq, Kodiaq, Mii, Octavia III, Rapid, Superb III, Yeti
- also suitable for 1.2 / 1.4 / 1.6 / 2.0 TDI Common-Rail Diesel, 1.9 / 2.0 Pump-Nozzle and 1.6 MPI

scope of delivery:

- camshaft sprocket holding tool, to be used as OEM T10172A
- holding tool adaptor, to be used as OEM T10554
- holding pin set, Ø 4.8 mm
- holding pin set, Ø 6.0 mm
- holding pin set, Ø 15 mm, length 12 mm
- holding pin set, Ø 15 mm, length 6 mm
- holding pin set, 3-step, Ø 5.7 mm, Ø 9.7 mm, Ø 11.7 mm
- holding pin set, Ø 11.7 mm
- holding pin set, M10
- holding pin set, M12
- holding pin set, Ø 13 mm, length 17 mm
- holding pin set, Ø 13.1 mm, length 20 mm



Item #
9696



Tool Tray 1/3: Timing Chain Testing Tool Set | for VAG 1.2 / 1.4 TFSi | 4 pcs.

- for checking the timing chain elongation on VAG 1.2 and 1.4L TFSi engines
- prevents costly repairs by skipping of the timing chain

suitable for following models:

- Audi: A1 (12-15), A1 Sportback (12-15), A3 (13-15), A3 (13-15), A3 Sportback (12-15)
- Seat: Ibiza (12-17), Leon (12-15), Toledo (12-17)
- Skoda: Fabia II (10-15), Fabia III (14-17), Octavia II (10-13), Octavia III (10-15), Praktik (10-15), Roomster (10-15), Rapid (15-17)
- Volkswagen: Golf VI & VII (08-15), Golf VII Kombi (08-17), Jetta (12-17), Polo (12-17), Sportsvan (14-17)

scope of delivery:

- timing chain test tool set, to be used as OEM T10550
- consisting of the following tools:
 - camshaft retainer, to be used as OEM T10550/1
 - pointer, to be used as OEM T10550/2
 - measuring gauge with crankshaft pulley plate, to be used as OEM T10550/3



Item #	
9689	 

Tensioner Wrench | for Audi / VW Engines | 3.7L / 4.2L V8

- for adjusting the tooth belt tensioner

suitable for e. g. following models:

- Audi A6, A8, S6 and VW Touareg, Phaeton with 3.7L and 4.2L V8 engines

engine codes:

- AKC, ANK, AQF, AQG, AQJ, ARS, ARU, ASG, AUW, AVN, AWN, AXQ, BGH, BGJ, BHX
- to be used as OEM T40009



Item #	
6735	

Belt Pulley Puller & Assembly Set | for GM, Chrysler, Ford, Mitsubishi | 6 pcs.

- for removing and installing pulleys
- removing of the radiator is not required

suitable for following models:

- General Motors
 - 5.7L V8 engines as of 1997, e.g. Camaro, Corvette, Firebird
 - 4.8L / 5.3L / 6.0L / 8.1L V8 engines as of 2000
 - 4.5L / 4.6L / 4.9L V8 engines as of 1988, e.g. Cadillac
 - 4.0L V8 engines as of 1995, e.g. Oldsmobile
 - 4.2L V6 engines as of 2003
 - 3.5L V5 engines as of 2004
 - 2.8L V4 engines as of 2005
- Chrysler
 - 2.0L / 2.4L 4-Cylinder engines as of 1990
 - 2.5L / 2.7L / 3.3L / 3.5L / 3.8L V6 engines as of 1990
- Ford
 - V8 engines as of 1995 with 3-spoke pressed-on dampener
- Mitsubishi
 - 2.0L DOHC engine 1995-1999, e.g. Eclipse (not Turbo)

scope of delivery:

- 1 three-jaw puller, 20 mm (3/4") drive
- 3 forcing rods, with different lengths
- 1 forcing screw, 10 mm (3/8") drive
- 1 harmonic balancer holding tool for Chrysler



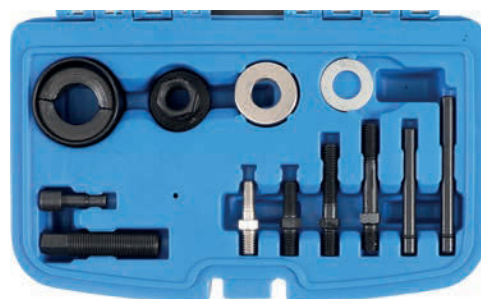
Item #
7761

Belt Pulley Puller & Assembly Set | for GM, Ford | 13 pcs.

- for removing and installing pulleys
- removal of radiator is not required
- suitable for following engines:
 - General Motors 3.1, Quad 4
 - Ford 4.6 and others

scope of delivery:

- puller jaws
- puller body
- bearing
- thrust washer
- thrust piece
- retainer sleeve
- jackscrew
- puller pin for GM 3.1
- puller pin for Quad 4
- screw installer for GM 3.1
- screw installer for Quad 4
- screw installer for Ford 4.6
- screw installer for other models



Item #
7754

Tool Tray 1/3: Vibration Damper Tool Set | for VAG 1.8 & 2.0 TFSI

- prevents twisting of the timing chain sprocket during disassembling and assembling of vibration damper

suitable for the following models:

- Volkswagen, Audi, Skoda and Seat with 1.8 and 2.0L TFSI engines with chain drive
- engine codes 1.8L TFSI:
 - BZB, CDAA, BPU, BYT, CABA, CABB, CDHA, CDHB, CABD, DAJB, CJSA, CJSB, CJEB, CJEE, CJED, CYGA, CDAC, CJSC, CGYA, DAJA
- engine codes for 2.0L TFSI:
 - CAWB, CCZA, CBFA, CCTA, CDNB, CDNC, CDND, CJXA, CJXE, CJXH, CHHB, CHHA, CULA, CFKA, DEDA, CHJA, CAWA, CCZC, CCZD, CPSA, CJKK, CJKB, CESA, CETA, CFPA, CNCD, CPLA, CYRB, CYRC, CNCE, CYNB, CYPA, CULB, CULC, CNCB, CWZA, CJXF, CJXC, CJXB, CJXG, CHHC, CCZB

scope of delivery:

- vibration damper holding tool, to be used as OEM T10531/1
- crankshaft pulley spanning bolt, to be used as OEM T10531/2
- nut for vibration damper holding tool, to be used as OEM T10531/3
- adapter piece for vibration damper holding tool, to be used as OEM T10531/4



Item #	
9603	1/3

Double Hook for Removal Tool for Shaft Gaskets | 295 mm

- 295 mm long lever arm for fast and easy disassembly of radial sealing rings
- hardened pulling lever for long product life time
- handle type: 2-component-handle



Item #	
117	

Injection Pump Sprocket Remover | for Hyundai / KIA 2.0 / 2.2 CRDI

- used to remove the sprocket on high pressure diesel pumps
- suitable for Hyundai & KIA 2.0 / 2.2 CRDI engines with a timing chain
- to be used as OEM 09331-1M100



Item #	
62051	

Crankshaft Holding Tool | for Ford

suitable for the following models:

- Mondeo and Transit with 2.0 / 2.2 / 2.4 / 3.2 Duratorq Di, TDDi, TDCi Diesel and 2.3 Duratec HE petrol
- to be used as OEM 303-1310
- length: 665 mm



Item #
9691

Tool Tray 1/3: Crankshaft Pulley Tool Set | for MINI Cooper engines W11

- allows a safe disassembly and assembly of the crankshaft pulley (vibration damper) on 1.6l MINI Cooper and MINI Cooper S engines (type W11)
- slots in the puller disc allow disassembling of both types of W11 pulleys
- includes a thrust pin that prevents damage to the crankshaft nose
- to be used as OEM 118450 / 118441 / 118270

scope of delivery:

- puller disc
- mounting thrust piece
- thrust pin
- pulling spindle
- mounting spindle
- 6 fastening screws

Item #
9808



Flywheel Holding Tool | for Citroen / Peugeot

- for holding the flywheel when loosening the central screw of the crankshaft pulley

suitable for the following models:

- Citroen Xsara, Xantia 1.8/2.0 (XU7JP/JB) Gasoline engines
- Citroen Xsara 1.8 16V (XU7JP4) Gasoline engines
- Citroen ZX, Xantia, XM 2.0 16V (XU10J4) Gasoline engines
- Citroen Xantia 1.9D/TD (XUD9BTF) Diesel engines
- Citroen Xantia, XM2.1TD XUD11BTE Diesel engines
- Peugeot 406 1.8/2.0 (XU7JP/JB) Gasoline engines
- Peugeot 406 1.8 16V (XU7JP4) Gasoline engines
- Peugeot 306, 405, 605 2.0 16V (XU10J4) Gasoline engines
- Peugeot 406 1.9D/TD (XUD9BTF) Diesel engines
- Peugeot 406, 605 2.1TD (XUD11BTE) Diesel engines
- to be used as OEM 0134Q, 0153A, 0153AF, 0188-F, 7044-T, 9004-T, 9022-TM, 9044-T



Item #
9832



Front Crankshaft Seal Tool Set | for BMW N20 / N26

- for removing and installing the front crankshaft seal in the timing chain case on BMW N20 and N26 engines
- suitable for removing the front crankshaft seal on many other BMW engines
- front crankshaft seal removal tool, to be used as OEM 110370 (110371 / 110372)
- front crankshaft seal mounting tool, to be used as OEM 119231
- front crankshaft seal adapter, incl. 3 screws, to be used as OEM 2212822
- nut for crankshaft adapter spindle, to be used as OEM 119233



Item #
9862

Engine Lowering Bolt Set | for Smart | 4 pcs.

- for lowering the engine / subframe by approx. 20 cm
- original subframe bolts will be replaced by countersunk screws during installing, the engine/gearbox must be supported
- needed during repair jobs such as changing the turbocharger, starter, etc.
- suitable for Smart Coupe and Convertible, diesel and petrol, Pure, Pulse, Passion, Brabus
- to be used as OEM 450589006200

scope of delivery:

- 2 lowering bolts, M12 x 1.5, length 260 mm, 19 mm external hexagon drive
- 2 lowering bolts, M12 x 1.5, length 300 mm, 19 mm external hexagon drive



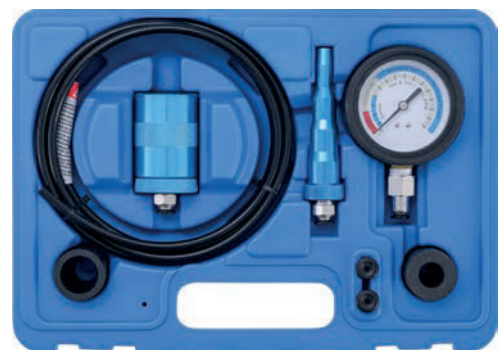
Item #
6643

Water Pump Tester Set | 8 pcs.

- for testing the function of mechanically driven cooling system water pumps when the engine is running
- helps identifying pump issues due to damaged impellers, seized impeller shafts or drive slippage on water pump belts

scope of delivery:

- 1 gauge (0-15psi)
- 2 rubber pipe seals
- 2 blanking plugs
- 1 pipe connector body (two-piece)
- 1 hose, Ø 6 mm, length 2 m
- 1 male hose connector



Item #
6750

Crankshaft Pulley Puller | universal

- for the damage-free disassembly of crankshaft pulleys
- suitable for many vehicles like VW T4, Audi A3, etc.

to be used as:

- 3-arm puller for 3-/6-hole mounting with bolt circle Ø 48-114 mm
- 2-arm puller for 4-hole mounting with bolt circle Ø 48-114 mm or 61-114 mm
- 3-arm puller for 5-hole mounting with bolt circle Ø 48-114 mm

scope of delivery:

- puller plate with 8 grooves for holding the puller arms and pull-off bolts
- removal spindle 17 mm, with freely rotating centering tip, 19 mm hexagon drive
- 3 extractor arms, length 33 mm
- 3 extractor bolts M8, length 50 mm
- 3 extractor bolts M10, length 50 mm



Item #
6646

Tool Tray 1/3: Cylinder Head Drilling Gauge Tool Set | 28 pcs.

- for drilling out broken or torn off M8 and M10 studs and bolts
- suitable for using on screw connections of exhaust manifolds, intake manifolds, cylinder heads, gearboxes, differentials, etc.
- also usable on engines and housings on passenger vehicles, motorcycles and commercial vehicles

scope of delivery:

- 1 3-arm drilling jig, adjustable
- 1 guide bushing for 4 mm drill
- 1 guide bushing for 6.5 mm drill
- 1 guide bushing for 8.5 mm drill
- 1 drill stop for 4 mm drill
- 1 drill stop for 6.5 mm drill
- 1 drill stop for 8.5 mm drill
- 2 hexagon nuts M10 x 1.5
- 2 hexagon nuts M8 x 1.25
- 1 alignment sleeve M8
- 1 alignment sleeve M10
- 1 HSS drill 4 mm
- 1 HSS drill 8.5 mm
- 1 HSS drill 6.5 mm
- 3 guide sleeves M8
- 3 guide sleeves M10
- 3 alignment pins, conical on both sides
- 1 internal hexagon key 2 mm
- 1 internal hexagon key 4 mm
- 1 internal hexagon key 5 mm



Item #
6682



Turbo Charger Diagnosis Tool Set | 17 pcs.

- to be used for passenger vehicles and trucks with turbo engines, diesel and petrol engines
- for checking the charging system components when installed
- time saving and professional locating of leakages on air intercooler and charging system components
- can also be used for leakage test exhaust gas recirculation valves (EGR)
- pressure loss can be located easily by hand or leakage spray
- to be used with standard air inflators, pressure loss is identified directly with air inflator
- suitable for internal hose diameters 31.0 - 110.0 mm
- double stage offset sealing plug and air adaptor for hoses without bayonet fitting
- includes high pressure safety valve, up to 1.8 bar
- gradation/sizes:
 - double stage inlet adaptor, 31 x 38 mm
 - double stage inlet adaptor, 46 x 51 mm
 - double stage inlet adaptor, 55 x 60 mm
 - double stage inlet adaptor, 65 x 70 mm
 - double stage inlet adaptor, 75 x 80 mm
 - double stage inlet adaptor, 85 x 90 mm
 - double stage inlet adaptor, 95 x 100 mm
 - double stage inlet adaptor, 105 x 110 mm
 - 1 universal air inlet adaptor with hose



Item #
9585

V-ribbed Belt Bit Socket | 12.5 mm (1/2"), external hexagon 22 mm | T-Star (for Torx) T60 12.5 1/2

- special socket for VAG 6-cylinder TDI common rail engines to release V-ribbed belt
- to be used as OEM T40087
- 12.5 mm (1/2") drive and external hexagon 22 mm



Item #
9532



V-Ribbed Belt Tensioner Tool Set | for Citroen, Peugeot, Fiat, Ford 1.4L & 1.6L Diesel

- facilitates pretensioning and locking the clamping piece of the V-ribbed belt
- allows to remove and install the V-ribbed belt
- can also be used under narrow space conditions
- incl. locking pin to lock the clamping unit

scope of delivery:

- 1 belt tensioner spanner
- 1 belt tensioner locking pin
- 1 spanner adaptor



Item #
9555

Serpentine Belt Tool | for VAG 1.4 TSI / TFSI

- for tensioning the poly V-belt tensioning element
- suitable for following models and engines:
 - 1.4l direct injection TSi / TFSi Blue Motion engines on:
 - VW Beetle, Eos, Golf, Jetta, Passat, Polo, Scirocco, Tiguan, Touran
 - Audi A1
 - Skoda Octavia, Yeti
- to be used as OEM T10447
- wrench size: 16 mm



Item #
9642



Belt Pulley Wrench for Ribbed Belts | for BMW N54 / N55

- for replacing the serpentine belts
- both ends with T-Star (for Torx) T60
- suitable for BMW engines N54 / N55
- material: S45 Steel



Item #
9615

Loosening Tool | for HENN-type Hose Clamps

- to release clamps from air pressure hoses or radiator hoses
- for opening HENN-clamps
- with plastic T-handle
- special steel

suitable for the following passenger vehicles:

- VW, Audi, Seat, Skoda, BMW, Peugeot, Citroen, Dacia, Fiat, Ford, Kia, Lexus, Mazda, Mercedes-Benz, Nissan, Opel / Vauxhall, Porsche, Renault, Toyota, Volvo



Item #
9592



Spark Plug Socket Set Hexagon | 12.5 mm (1/2") Drive | 14 - 21 mm | 5 pcs.

12.5 1/2

- with rubber inlay
- surface finish: satin chrome plated
- 1 spark plug socket, hexagon, 14 mm
- 1 spark plug socket, hexagon, 16 mm (BGS 2472)
- 1 spark plug socket, hexagon, thin walled, 16 mm
- 1 spark plug socket, hexagon, 18 mm
- 1 spark plug socket, hexagon, 21 mm (BGS 2470)



Item #
6641



Glow Plug Socket Pliers | angled | for Opel / Vauxhall 1.7 Diesel

- for removing the coated glow plug connectors
- extra narrow pliers head

suitable for the following Opel / Vauxhall models:

- Astra H (2004-2009)
- Astra J (2009-2014)
- Meriva A (2003-2010)
- Meriva B (2010-2014)
- Corsa D (2006-2014)
- Zafira B (2009-2014)

- to be used as OEM EN-48558
- length: 160 mm



Item #
6693

Spark Plug Socket Puller | for VAG / Mercedes-Benz | 320 mm

- for removing and installing of spark plug connectors with sheet metal coating
- blade length: 290 mm
- head inner diameter: 19 mm
- head outer diameter: 23 mm
- to be used as OEM T10112, T10112A

suitable for the following models:

- VW Golf IV & V 1.6, Bora, Beetle, Mercedes-Benz, Smart

Item #
2460



Honing Tools | flexible | Grit 120

- for honing of engine cylinders
- grit: 120
- material: silicon carbide
- max. speed: 300 rpm
- BGS 1260: working diameter: 68 - 70 mm, shaft diameter: 6.5 mm
- BGS 1261: working diameter: 75 - 77 mm, shaft diameter: 6.5 mm
- BGS 1262: working diameter: 81 - 83 mm, shaft diameter: 7.8 mm
- BGS 1263: working diameter: 87 - 89 mm, shaft diameter: 7.8 mm
- BGS 1264: working diameter: 94 - 96 mm, shaft diameter: 7.8 mm

Item #	Description
1260	Honing Tool flexible Grit 120 68 - 70 mm
1261	Honing Tool flexible Grit 120 75 - 77 mm
1262	Honing Tool flexible Grit 120 81 - 83 mm
1263	Honing Tool flexible Grit 120 87 - 89 mm
1264	Honing Tool flexible Grit 120 94 - 96 mm



Honing Tool | flexible | Grit 180

- for honing of engine cylinders
- grit: 180
- material: silicon carbide
- max. speed: 300 rpm
- BGS 1265: working diameter: 68 - 70 mm, shaft diameter: 6.5 mm
- BGS 1266: working diameter: 75 - 77 mm, shaft diameter: 6.5 mm
- BGS 1267: working diameter: 81 - 83 mm, shaft diameter: 7.8 mm
- BGS 1268: working diameter: 87 - 89 mm, shaft diameter: 7.8 mm
- BGS 1269: working diameter: 94 - 96 mm, shaft diameter: 7.8 mm



Item #	Description			
1265	Honing Tool	flexible	Grit 180	68 - 70 mm
1266	Honing Tool	flexible	Grit 180	75 - 77 mm
1267	Honing Tool	flexible	Grit 180	81 - 83 mm
1268	Honing Tool	flexible	Grit 180	87 - 89 mm
1269	Honing Tool	flexible	Grit 180	94 - 96 mm

Glow Plug Tool and Thread Repair Kit | M8, M10 | 41 pcs.

- for assembly and disassembly of glow plugs and professional repair of glow plug threads
- thread cutter for regrinding glow plug threads M8 x 1 and M10 x 1
- tools for cleaning the filament bore in the cylinder head
- ratcheting tap holder

scope of delivery:

- 5 taps 1/4 "x 28UNF - 12 x 28UNF - M8 x 1.0 - M10 x 1.0 - M8 x 1.0
- 4 twist drills 2.6 - 3.4 - 3.4 - 4.4 mm
- 3 step drills for drilling out torn off glow plugs
4.4 x 7 - 5.4 x 7 - 5.5 x 9 mm
- 2 tie bolts
- 2 tension spindles
- 4 drill centering sleeves 2.6 - 3.7 mm
- 3 L-type wrenches, hexagon 2 - 2.5 - 3 mm
- 2 round steel brushes 5 x 300 - 7 x 300 mm
- 2 tap holders
- 1 centering device with ball bearing and pulling spindle
- 2 spindle nuts
- 2 twist drill holders
- 1 centering sleeve
- 1 pull-out sleeve
- 6 calibration inserts for glow plug electrodes, 6.3 mm (1/4 ") square drive, 2.6 - 3.2 - 3.5 - 4.5 - 6.5 - 8.25 mm
- 1 socket, square drive 10 mm (3/8 "), E-Star E10



Item #
9565

Fluid Flask with flexible Spout and Lid | 6 L

- material: HDPE
- suitable for brake fluid, battery fluid and non-acidic liquids
- incl. flexible nozzle and lockable cask cover
- with threaded nozzle for fillers
- colour: white / transparent

- BGS 9569: capacity: 6 l
- BGS 9570: capacity: 8 l

Item #	Description
9569	Fluid Flask with flexible Spout and Lid 6 L
9570	Fluid Flask with flexible Spout and Lid 8 L



Hand Pump | 500 ml

- suitable for engine, transmission, sanitary applications and water
- embossed level indicator on transparent housing for checking fluids
- sealing ring made of NBR
- tank capacity: 500 ml
- hose length: 300 mm
- internal hose diameter: Ø 8 mm
- external hose diameter: Ø 12 mm

Item #
9582



Fluid Hand Pump Set | 350 ml | 3 pcs.

- for extraction by suction, re-filling and decanting
- suitable for brake fluid, cooling system antifreeze, servo steering fluid, transmission oil, engine oil
- fluid hand pump 350 ml with back pressure valve and hose coupler
 - incl. hose 11 x 300 mm
 - plastic tube 9.8 x 300 mm
 - dimensions: 381 x 75 x 75 mm
- 2 fluid hand pumps 350 ml with decanting function and hose coupler
 - for sucking fluids into the screwed 1 l reservoir tank or in any other reservoir
 - incl. hose 13 x 370 mm & 15 x 150 mm
 - dimensions (incl. 1 l reservoir tank): 381 x 225 x 102 mm
- with useful and easy to assemble plastic wall bracket
- not suitable for flammable fluids like fuel

Item #
9496



Lever Barrel Pump | for Urea (AUS32)

- for transferring fluids
- suitable for 60 / 200 / 220 l barrels
- suitable for the following liquids: AUS32, water, lubricants, windshield washer fluid, antifreeze, mild detergents, agricultural chemicals, etc.
- delivery volume: 0.5 l per stroke
- flow rate 20l / min.
- pluggable suction tube 350 - 980 mm
- with 2 m flexible hose
- temperature range: -5°C - +45°C
- main materials: polypropylene, polyethylene, fluor elastomer seals



Item #
8332

Hand Pump | 1500 ml | with Adaptor Set

- for retrieving excess fuels from the fuel lines
 - also suitable for engine oil, gear oil, antifreeze and water
 - eliminates the risk of fuel spills
 - fits on many newer and older petrol and diesel vehicles
 - stroke: 260 mm
 - cylinder-external-Ø: 100 mm
 - hose length: 400 mm
 - tank capacity: 1.5l
 - housing material: plastic
- hand pump with shut-off valve, 1.5l
 - adaptor 8 mm (5/16") (outside) to 8 mm (5/16") (outside)
 - adaptor 10 mm (3/8") (outside) to 8 mm (5/16") (outside)
 - adaptor with hose connector to 8 mm (5/16") (outside)
 - connecting hose 10 mm (3/8") (outside), length: 395 mm
 - 2 adaptor hoses 10 mm (3/8") (outside) to 8 mm (5/16") (inside)
 - connectors for PSA/Vauxhall/Opel vehicles and universal connectors for older cars



Item #
9782

Hand Transfer Pump | 550 ml

- to extract and transfer water, for Urea (AUS32), diesel, petrol, brake fluid, antifreeze, motor oil, gearbox oil and power steering oil
- pump head with built-in two-way valve enables an easy and clean transfer of liquids
- transfer quantity: 550 ccm per double stroke
- stroke: 205 mm
- pump housing: Ø 62 mm
- dimensions: 450 x 90 mm
- material: polypropylene (PP)

- hand transfer pump
- PVC hose, inner diameter 10 mm (3/8"), outer diameter 13.5 mm, length 500 mm
- PVC hose, inner diameter 10 mm (3/8"), outer diameter 13.5 mm, length 1000 mm
- nylon hose, inner diameter 7 mm, outer diameter 10 mm (3/8"), length 360 mm



Item #

9835

Suction Gun | 500 ml

- suitable for oil and antifreeze
- be used for gearbox, engine rear axle and hydraulic oil (viscosity from 30 to 68)
- includes transparent PVC hose, length 280 mm, for suction / drainage
- overall length (without hose): 330 mm
- diameter 56.4 mm
- hose inner diameter 9 mm
- hose outer diameter 12 mm
- capacity: 500 ml
- surface finish: chrome plated
- material: sheet steel, galvanized



Item #

9823

Ramp Set | Plastic | extra flat | 2 pcs.

- made of plastic
- extra flat design
- can be used on front or rear tire
- light and sturdy to safely hold keep the weight of the car
- rise height: 65 mm
- max. load capacity: 2.5 t
- for tyres up to 195 mm width
- dimensions: 700 x 200 x 80 mm
- to be used by pair only



Item #

9759

Floor Jack | hydraulic | extra flat | 2.5 t

- steel construction
- easy to manoeuvre and transport
- low height clearance, especially suitable for lowered racing cars
- max. lifting capacity: 2500 kg
- wheels made of aluminium alloy
- length: 722 mm
- width of lift side: 250 mm
- width of shunting side: 350 mm
- min. height: 75 mm
- max. height: 515 mm
- rated load capacity: 2 t



Item #
9777

Hydraulic Bottle Jacks | 2t - 20t

- with safety valve
 - incl. plug-in telescopic piston rod
 - massive steel construction
- BGS 9881: spindle length: 48 mm, max. height: 316 mm, min. height: 100 mm, lifting height: 100 mm, rated load capacity: for up to 2 t
 - BGS 9882: spindle length: 60 mm, max. height: 363 mm, min. height: 188 mm, lifting height: 115 mm, rated load capacity: for up to 3 t
 - BGS 9883: spindle length: 70 mm, max. height: 402 mm, min. height: 207 mm, lifting height: 125 mm, rated load capacity: for up to 5 t
 - BGS 9884: spindle length: 80 mm, max. height: 447 mm, min. height: 222 mm, lifting height: 145 mm, rated load capacity: for up to 8 t
 - BGS 9885: spindle length: 80 mm, max. height: 447 mm, min. height: 222 mm, lifting height: 145 mm, rated load capacity: for up to 10 t
 - BGS 9886: spindle length: 80 mm, max. height: 457 mm, min. height: 227 mm, lifting height: 150 mm, rated load capacity: for up to 12 t
 - BGS 9887: spindle length: 80 mm, max. height: 457 mm, min. height: 227 mm, lifting height: 150 mm, rated load capacity: for up to 15 t
 - BGS 9888: spindle length: 60 mm, max. height: 445 mm, min. height: 235 mm, lifting height: 150 mm, rated load capacity: for up to 20 t



Item #	Description
9881	Hydraulic Bottle Jack 2 t
9882	Hydraulic Bottle Jack 3 t
9883	Hydraulic Bottle Jack 5 t
9884	Hydraulic Bottle Jack 8 t
9885	Hydraulic Bottle Jack 10 t
9886	Hydraulic Bottle Jack 12 t
9887	Hydraulic Bottle Jack 15 t
9888	Hydraulic Bottle Jack 20 t

Rubber Pad | for Auto Lifts | Ø 145 mm

- inner diameter: 108 mm
- outer diameter: 145 mm
- height: 24 mm
- ShA 80°
- SBR rubber
- suitable for Ravaglioli and OMCN

Item #
6473



Rubber Pad | for Auto Lifts | Ø 140 mm

- inner diameter: 103 mm
- outer diameter: 140 mm
- height: 25 mm
- ShA 80°
- SBR rubber
- suitable for OMCN

Item #
6477



Rubber Pad | for Auto Lifts | Ø 100 mm

- inner diameter: 80 mm
- outer diameter: 100 mm
- height: 21 mm
- ShA 80°
- SBR rubber
- suitable for Ravaglioli

Item #
6470



Rubber Pad | for Auto Lifts | Ø 160 mm

- inner diameter: 135 mm
- outer diameter: 160 mm
- height: 28 mm
- ShA 80°
- SBR rubber
- suitable for Intertech 225 and 227

Item #
6475



Rubber Pad | for Auto Lifts | Ø 150 mm

- inner diameter: 128/13 mm
- outer diameter: 150 mm
- height: 25 mm
- ShA 80°
- SBR rubber
- suitable for Ravaglioli and OMCN

Item #
6478



Rubber Pad | for Auto Lifts | Ø 120 mm

- inner diameter: 108 mm
- outer diameter: 120 mm
- height: 26 mm
- ShA 80°
- SBR rubber
- suitable for Grazia, UB, Ravaglioli

Item #
6471



Rubber Pad | for Auto Lifts | Ø 120 mm

- inner diameter: 110 mm
- outer diameter: 120 mm
- height: 26 mm
- 3 fixation points
- ShA 80°
- SBR rubber
- suitable for Ravaglioli

Item #
6472



Rubber Pad | for Auto Lifts | Ø 145 mm

- inner diameter: 135 mm
- outer diameter: 145 mm
- height: 26 mm
- ShA 80°
- SBR rubber
- suitable for Ravaglioli

Item #
6474



Automotive Clip Assortment | Universal | 192 pcs.

- material: nylon
- 30 wiring harness clips, Ø 6.4 mm
- 15 wiring harness clips, Ø 7.1 mm
- 20 wiring harness clips, Ø 7.8 mm
- 20 wiring harness clips, Ø 9.0 mm
- 10 wiring harness clips, Ø 9.5 mm
- 10 wiring harness clips, Ø 10.0 mm
- 20 blind rivets with collar, Ø 6.3 mm
- 20 fender spreader clips, Ø 8.0 mm / head Ø 20.0 mm
- 12 air baffle / chassis spreader clips, Ø 8.0 mm / head Ø 20.0 mm
- 10 bumper cover spreader clips, Ø 9.0 mm / head Ø 18.0 mm
- 15 push-type clips, Ø 10.0 mm / head Ø 20.0 mm
- 10 push-type clips, Ø 10.0 mm / head Ø 20.0 mm



Item #
9780



Automotive Clip Assortment for Honda | 418 pcs.

- 30 grille clips, to be used as OEM 75103SJ4003
- 8 front and rear bumper push-type retainers, to be used as OEM 91502SSP0003
- 15 push-type retainers, to be used as OEM 90675SB003
- 20 trim panel retainers, to be used as OEM 91566SP0003
- 50 hood seal retainers, to be used as OEM 91513SE003
- 40 weatherstrip retainers, to be used as OEM 91530ST5003
- 20 pillar garnish, side and truck lining push-type retainers, to be used as OEM 91550SH3003
- 25 centre pillar screw grommets, to be used as OEM 91620SR2003
- 5 radiator grille clips, to be used as OEM 91578SV4003
- 30 retaining clips, to be used as OEM 38529689A6300
- 15 front fender push-type retainers, to be used as OEM 91512SX0003
- 30 front fender push-type retainers, to be used as OEM 90683SA5003
- 15 front fender push-type retainers, to be used as OEM 91808SM4000
- 15 retaining clips, to be used as OEM 906876710030
- 30 retaining clips, to be used as OEM 90687SA50030
- 20 retaining clips, to be used as OEM 90672671003
- 30 body side moulding clips, to be used as OEM 91534SEO000
- 20 side marker clips, to be used as OEM 34355SD2003



Item #
9059



Automotive Clip Assortment for Mazda | 475 pcs.

- 20 push-type retainers, to be used as OEM 2042301
- 25 push-type retainers, to be used as OEM N30413356A
- 15 push-type retainers, to be used as OEM B09251833
- 25 grommets for body side fittings, to be used as OEM 999100402
- 20 retaining clips, to be used as OEM B0016830200
- 40 retaining clips, to be used as OEM 992640543A
- 50 retaining clips, to be used as OEM 99249051B
- 5 bumper retainers, to be used as OEM BF6750033
- 20 rod end clips (left), to be used as OEM 992780405
- 20 rod end clips (right), to be used as OEM 992780404
- 30 hood insulation retainers, to be used as OEM 6508197AA
- 50 hood insulation retainers, to be used as OEM 992640543A
- 50 hood insulation retainer clips, to be used as OEM B45556741
- 5 bumper cover retainers, to be used as OEM BF8250233
- 20 interior trim push-type retainers, to be used as OEM B1016825200
- 50 weatherstrip retainers, to be used as OEM G03158762
- 15 push-type retainers, to be used as OEM BC1DSA145
- 15 push-type retainers for bumper cover and wheel housing, to be used as OEM 9046709139



Item #
9050



Automotive Clip Assortment for Mitsubishi | 370-tlg.

- 50 grille clips, to be used as OEM Honda 75103SJ4003, Toyota 9046712020, Mitsubishi 8942180270
- 50 screw nuts, to be used as OEM Mitsubishi 9018905013
- 30 grommets, to be used as OEM Mitsubishi MU480033, Toyota / Lexus 9018906001
- 30 screw grommets, to be used as OEM Toyota 9018906001, Nissan 128100231
- 30 screw grommets, to be used as OEM Mitsubishi MU480034
- 10 push-type retainers, to be used as OEM Mitsubishi MR138807
- 15 push-type retainers, to be used as OEM Mitsubishi MB253964
- 40 push-type retainers, to be used as OEM Mitsubishi HB121467
- 15 grommets, to be used as MB271999
- 40 retainers, to be used as Mitsubishi MB696120
- 20 push-type retainers, to be used as Mitsubishi / Honda MR200300
- 40 rocker panel retainers, to be used as MB846992



Item #
9142



Automotive Clip Assortment for Nissan | 408 pcs.

- 30 retaining clips, to be used as OEM 76906T300
- 40 retaining clips, to be used as OEM 0155300172
- 50 retaining clips, to be used as OEM 62869N4700
- 25 trim panel retainers, to be used as OEM 90667SA70030
- 25 screws nuts, to be used as OEM 68425H5000
- 15 push-type retainers, to be used as OEM 75521611000
- 15 grille grommets, to be used as OEM 62380U7400
- 15 inner fender push-type retainers, to be used as OEM 6384401A00
- 20 body side moulding push-type retainers, to be used as OEM 7688257A00
- 30 push-type retainers, to be used as OEM 1099830880
- 10 push-type retainers, to be used as OEM 6387801E10
- 20 push-type retainers, to be used as OEM 6384801G00
- 15 front bumper fascia push-type retainers, to be used as OEM 6385401A00
- 40 cowl grille retainers, to be used as OEM 6684101G00
- 8 bumper cover retainers, to be used as OEM 0155301393
- 10 nylon U shaped nuts for fender, to be used as OEM 63848D400
- 15 drain plugs
- 25 screws , to be used as OEM 78856R4301



Item #
9143



Automotive Clip Assortment for Audi, VW, Toyota, Mercedes-Benz, BMW | 400 pcs.

- 25 metal trim fasteners (centre star) for VAG, to be used as OEM N90335004, N90335006
- 25 metal trim fasteners (6 slot) for VAG, Ford, to be used as OEM N90796501
- 50 metal trim fasteners (U nut) No. 8 x 21 mm
- 30 metal trim fastener screws with washer
- 20 metal trim fastener screws with washer, to be used as OEM 07119916946, N914031006203
- 30 metal trim fasteners, to be used as 07147129160
- 30 trim rivets metal 5.7 hole x 12.8 mm flange, to be used as 9026905065
- 35 trim rivets metal 4.0 hole x 12.0 mm flange
- 50 trim rivets metal 3.8 hole x 6.2 mm flange, to be used as 9026904051
- 50 trim rivets metal 4.0 hole x 8.7 mm flange, to be used as 9026904053
- 25 trim rivets metal 4.9 hole x 12.7 mm flange, to be used as 9026905054
- 30 trim rivets metal 3.9 hole x 12.1 mm flange



Item #
9058



Plastic Connector Set | T-Shape | 20 pcs.

- connector / return nipple
- black
- for 5.0 mm hose inner diameter



Item #

8107-20

Plastic Connector Set | L-Shape | 30 pcs.

- connector / return nipple
- black
- for 5.0 mm hose inner diameter

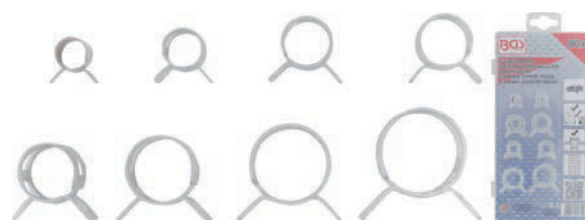


Item #

8107-22

Spring Strip Hose Clamp Assortment | 80 pcs.

- for use with BGS 470, 472, 473
- one-piece, screwless hose clamp
- equal elasticity
- self tensioning
- ideal round
- area of application: fuel line exhaust system, cooling and heating water circuit
- 10 hose clamps Ø 6.5 mm
- 10 hose clamps Ø 8 mm
- 10 hose clamps Ø 10 mm
- 10 hose clamps Ø 11 mm
- 10 hose clamps Ø 12 mm
- 10 hose clamps Ø 14 mm
- 10 hose clamps Ø 16 mm
- 10 hose clamps Ø 18 mm



Item #

9475



Hose Clamp Assortment | 80 pcs.

- in plastic storage case
- 15 hose clamps Ø 13 - 16 mm
- 15 hose clamps Ø 12 - 20 mm
- 10 hose clamps Ø 16 - 22 mm
- 10 hose clamps Ø 19 - 25 mm
- 10 hose clamps Ø 25 - 35 mm
- 10 hose clamps Ø 30 - 40 mm
- 5 hose clamps Ø 35 - 45 mm
- 5 hose clamps Ø 35 - 50 mm

Item #
9547



Spacer Screw and Hexagon Nut Assortment | Nylon | 300 pcs.

- metric
- many applications
- spacer screws made from plastic, saves weight compared to metal
- in plastic storage case
- material: Nylon

scope of delivery:

- 40 screws, white M3 x 9 mm
- 40 screws, black M3 x 9 mm
- 40 nuts, white M3
- 40 nuts, black M3
- 10 spacer, female-female, white M3 x 6 mm
- 10 spacer, female-female, black M3 x 6 mm
- 10 spacer, female-female, white M3 x 8 mm
- 10 spacer, female-female, black M3 x 8 mm
- 10 spacer, female-female, white M3 x 10 mm
- 10 spacer, female-female, black M3 x 10 mm
- 5 spacer, female-female, white M3 x 12 mm
- 5 spacer, female-female, black M3 x 12 mm
- 10 spacer screws, male-female, white M3 x 12 mm
- 10 spacer screws, male-female, black M3 x 12 mm
- 10 spacer screws, male-female, white M3 x 14 mm
- 10 spacer screws, male-female, black M3 x 14 mm
- 10 spacer screws, male-female, white M3 x 16 mm
- 10 spacer screws, male-female, black M3 x 16 mm
- 5 spacer screws, male-female, white M3 x 18 mm
- 5 spacer screws, male-female, black M3 x 18 mm

Item #
9402



Grub Screw Assortment | Inch Sizes | 160 pcs.

- made of steel
- according to DIN 913
- grub screws with regular type screw thread:
 - 15 pcs. 5/32 UNC 32 x 3/16"
 - 15 pcs. 1/8" UNC 40 x 3/16"
 - 10 pcs. 3/16" UNC 24 x 1/4"
 - 15 pcs. 1/4" UNC 28 x 1/4"
 - 20 pcs. 5/16" UNC 18 x 3/8"
 - 20 pcs. 1/4" UNC 20 x 1/4"
 - 10 pcs. 3/8" UNC 16 x 3/8"
 - 10 pcs. 3/8" UNC 16 x 1/2"
 - 10 pcs. 5/16" UNC 18 x 1/2"
 - 10 pcs. 1/4" UNC 20 x 3/8"
 - 15 pcs. 5/32 UNC 32 x 3/16"
 - 15 pcs. 1/8" UNC 40 x 3/16"
 - 10 pcs. 3/16" UNC 24 x 1/4"
 - 15 pcs. 1/4" UNC 28 x 1/4"
 - 20 pcs. 5/16" UNC 18 x 3/8"
 - 20 pcs. 1/4" UNC 20 x 1/4"
 - 10 pcs. 3/8" UNC 16 x 3/8"
 - 10 pcs. 3/8" UNC 16 x 1/2"
 - 10 pcs. 5/16" UNC 18 x 1/2"
 - 10 pcs. 1/4" UNC 20 x 3/8"
- grub screws with fine pitch thread:
 - 10 pcs. 5/16 UNF 24 x 3/8"
 - 15 pcs. 5/16 UNF 24 x 3/8"
 - 10 pcs. 5/16 UNF 24 x 3/8"
 - 15 pcs. 5/16 UNF 24 x 3/8"



Item #
14136



Cylinder Head Screw Assortment | internal Hexagon | 106 pcs.

- according to DIN 912
- ISO 4762
- tensile strength: 8.8
- in plastic storage case

scope of delivery:

- 25 cylinder head screws M4 x 0.7 mm, length: 12 mm
- 25 cylinder head screws M5 x 0.8 mm, length: 12 mm
- 20 cylinder head screws M5 x 0.8 mm, length: 25 mm
- 10 cylinder head screws M6 x 1.0 mm, length: 12 mm
- 10 cylinder head screws M6 x 1.0 mm, length: 25 mm
- 5 cylinder head screws M8 x 1.25 mm, length: 25 mm
- 5 cylinder head screws M8 x 1.25 mm, length: 40 mm
- 3 cylinder head screws M10 x 1.5 mm, length: 25 mm
- 3 cylinder head screws M10 x 1.5 mm, length: 40 mm

Item #
14140



Glass Fuse Assortment | 120 pcs.

- in plastic storage case
- trigger characteristics: idle

scope of delivery:

- 20 glass fuses 5A Ø 6x 30 mm
- 20 glass fuses 10A Ø 6x 30 mm
- 20 glass fuses 15A Ø 6x 30 mm
- 20 glass fuses 20A Ø 6x 30 mm
- 20 glass fuses 25A Ø 6x 30 mm
- 20 glass fuses 30A Ø 6x 30 mm



Item #
14125



Vehicle Front Protection Cover

- protects against pollution from grease, oil, water and other materials
- can be easily cleaned by wiping off with a damp cloth or sponge
- made from soft, resistant polyester
- suitable for mobile use with practical carrying bag
- easily foldable and thus space-saving



Item #
9636

Wheel Balancing Weight Assortment | 36 pcs.

- for steel rims
- use with wheel balancing weight pliers BGS 1539
- in reusable assortment box
- material: zinc-plated steel

scope of delivery:

- 5 pcs. each of 5, 10, 15, 20 g
- 3 pcs. each of 25, 30 g
- 2 pcs. each of 35, 40, 45, 50, 55 g



Item #
9449



Wheel Nut Cap Pliers | 200 mm

- for loosening and fastening of nut caps
- specially shaped pliers tip for the easy removal of wheel bolt protective caps
- 2-component handles
- surface finish: satin chrome plated



Item #
1537



Tyre Bead Retainer

- special design ensures that the tire bead remains under the rim flange during installation of new tires
- PVC coating prevents damage to the rim surface
- suitable for on-road, offroad, cars, motorcycle and truck tires of all sizes
- solid metal core with resistive, highly visible yellow coating
- usable with mounting bars



Item #
8637

Tyre Lever | with Plastic Protection Sleeve 535 mm

- for non-damaging assembling of tyres on aluminium rims
- optimized structure (reinforced, rounded, stump edges) to avoid damages on tyre carcass
- plastic protection sleeve prevents scratching of the wheel rim and also protects against slippage
- reinforced tyre walls on run-flat tyres and low profile tyres are significantly more rigid than the casing of conventional tyres
- using regular tyre levers may lead to tyre damage
- total length: 535 mm



Item #
9586



Tyre Repair Kits | Ø 4.5 - 8.0 - 10.0 mm

- hemispherical combo repair kits
- suitable for radial and bias ply tires
- only use in connection with vulcanization compound
- genuine US product

scope of delivery:

- each set has 24 combo repair kits Ø 4.5 - 8.0 - 10.0 mm

Item #	Description
8925	Tyre Repair Kit Ø 4.5 mm 24 pcs.
8926	Tyre Repair Kit Ø 8.0 mm 24 pcs.
8927	Tyre Repair Kit Ø 10.0 mm 24 pcs.



Tyre Repair Kit | 54 pcs.

- basic assortment for tire repair
- incl. tyre repair plugs for use with stitch awl & mounting paste
- for quick and easy repair of tubeless tires for cars, quads, trailers, garden tractors and scooters
- tyre repair plugs: original US product

scope of delivery:

- 50 Tyre Repair Plugs | 102 mm | 50 pcs. (BGS 8900)
- 1 Mounting Paste for installing tyre repair plugs (BGS 8901)
- 1 Stitch Awl (BGS 8904)
- 1 Insert Installing Tool (BGS 8906)
- 1 safety knife with snap-off blade



Item #
8911

Battery Acid Tester Hydrovolt

- robust and break-proof type
- for checking acid density and charge condition of rechargeable batteries
- for direct reading
- extra low total height for measuring without any difficulty in small areas
- measuring scale with colored sectors
- easy filling of measuring chamber without air bubbles
- hydrostatic reverse lock



Item #
9671



Borescope Colour Camera with LCD Monitor

- to inspect difficult access areas and cavities
- to be used in range of e.g. automotive, installation, mechanical engineering

- 90 mm (3.5") TFT-LCD, 30 steps adjustable brightness
- display resolution: 320 x 240 pixel
- white balance: automatically
- contortion: - 3,7%
- camera angle: 54°
- camera: CMOS Sensor
- protection class: IP 67
- camera diameter: 5,5 mm
- gooseneck: 100 cm
- 4 LEDs, 6-level adjustable brightness
- battery type: 4 x AA | 1,5 V
- power consumption: 1,8 to 2,6 W



Item #
63247

Flushing Liquid | for BGS 8037

- suitable for carbon dioxide leak tester for engines BGS 8037



Item #

8037-2

Exhaust Gas Counter-Pressure Tester

- for testing of the exhaust back pressure
- to be connected to oxygen sensor thread of the exhaust system or to flange of exhaust gas recirculation valve
- allows conclusions on blockages or constrictions, such as e.g. clogged catalysts or particulate filters, thereby preventing expensive repair costs due to damage to the turbocharger
- 1 adaptor for oxygen sensor thread M12x1.25
- 1 adaptor for oxygen sensor thread M18x1.5
- 1 flange adaptor for exhaust gas recirculation valve (EGR)
- 1 pressure gauge, 57 mm with two ranges in psi & kg/cm²
- 1 braided stainless steel casing hose, length 1.9 m



Item #

9468

Compression Tester Kit for Petrol Engines

- for compression measurements with hose adaptor or rubber-cone measuring tube
- spark plug thread adaptor:
 - M10x1.0 - M12x1.25 - M14x1.25 - M18x1.5
- analogous pressure gauge
- pressure gauge scale: 0 - 300 psi / 0 - 2000 kpa (0 - 20 bar)
- with pressure release valve

scope of delivery:

- pressure gauge with quick coupling & pressure release valve
- connecting hose with quick coupler
- compression test pipe, angled type
- compression test pipe, straight type
- spark plug thread adapter M18 x 1.5
- spark plug thread adapter M14 x 1.25
- spark plug thread adapter M12 x 1.25
- spark plug thread adapter M10 x 1.0

Item #

9669



Aligator-Clip Cable Box | automatic reel | 15 m

- alligator clips, red and black
- automatic reel
- for use with multimeters, testing lights etc.
- length: 15 m



Item #
9401

Petrol Injector Tester

- for checking of 12V petrol injectors
- 4 pulse modes for locating stuck, leaking or burnt-out injectors
 - mode 1: admits 1 pulse after triggering, pulse width about 250ms
 - mode 2: admits 50 pulses after triggering, pulse width about 7ms
 - mode 3: admits 100 pulses after triggering, pulse width about 3.5ms
 - mode 4: admits pulses continuously at the rate of 50 pulses per 1450ms, every pulse's pulse width about 7ms
- power supply: 12V vehicle battery
- operation environment: 0°C - 40°C, relative humidity



Item #
9791

Oil Tub / Drip Pan | extra flat | 7 l

- due to its low height particularly suitable for motorcycles and scooters
- for oil change and collecting oil when working on e.g. clutch, gear, etc.
- resistant to most solvents up to a temperature of -30 - 50 °C, acids, alkalis, alcohols, oil, gasoline
- net capacity: 7 l
- width: 940 mm
- length: 630 mm
- height: 30 mm
- material: high density polyethylene (HDPE)
- weight: 670 g



Item #
9579

Gear Oil Filling Hose for VAG DSG

- is needed when replacing the DSG transmission oil
- with adaptor for 1 litre gear oil
- built-in valve prevents oil spillage
- suitable for containers of VAG, Motul, Liqui Moly, Meyle, etc.
- to be used as OEM VAS 6262
- length: 150 cm

Item #
1403



Oil Drain and Filling Set for Automatic Transmission | for Mercedes-Benz 9G-Tronic

- for filling and draining automatic transmission oil on transmission type 725.0

scope of delivery:

- assembly tool, to be used as OEM 725 589 02 90 00
- adapter, to be used as OEM 725 589 00 90 00

Item #
9873



Oil Funnel Adaptor Set | Plastic Type | 15 pcs.

- allows fast oil filling without spillage
- ideal for many new vehicle models
- 2 litre funnel, fits all adaptors for wide application range
- colour-coded adaptors for oil filler hole
- angled extension with swivel feature for hard-to-reach places

scope of delivery:

- bayonet adaptor for Audi, BMW, Mercedes-Benz, Porsche, Volvo, VW
- bayonet adaptor for Toyota & Lexus 3.0 & 3.3L V6
- threaded adaptor M30 x 3.0 for Dodge Cummins
- threaded adaptor M32 x 3.5 for Acura, Dodge, Ford, Honda, Jaguar, Jeep, Land Rover, Mazda, Nissan
- threaded adaptor M35 x 4.0 for Ford, Jaguar, Land Rover, Mazda
- threaded adaptor M37 x 3.0 (short type) for Lotus, Pontiac, Scion, Toyota
- threaded adaptor M37 x 3.0 (long type) for Lotus, Pontiac, Scion, Toyota
- threaded adaptor M42 x 4.5 for Subaru
- threaded adaptor (1/2 turn) for Mazda 3 / 6 / CX-5
- threaded adaptor (1/2 turn) for Cadillac, Chevy, Ford, GMC, Hyundai, Jaguar, Land Rover, Mazda, Saab, Mercury
- threaded adaptor (1/4 turn) for new oil filling lids as of 2008 on Audi, Seat, Skoda, VW with EA888 engine
- threaded adaptor (1/2 turn) for Dodge Hemi 6.4L (2011-) & 3.6L (> 2014)
- oil funnel, adaptor, extension

Item #
8505-2



Oil Drain Screw Sealing Surfaces Cutter Set | 8 pcs.

- for milling damaged oil drain plug sealing surfaces on oil pans
- allows a perfect seal on oil drain plugs
- suitable for oil drain screw threads M12 x 1.5 - M13 x 1.5 - M14 x 1.5 - M15 x 1.5 - M16 x 1.5 - M17 x 1.5 (e. g. BGS 156, 157, 158)

scope of delivery:

- sealing surface cutter
- centering bolt wrench
- centering bolt M12 x 1.5
- centering bolt M13 x 1.5
- centering bolt M14 x 1.5
- centering bolt M15 x 1.5
- centering bolt M16 x 1.5
- centering bolt M17 x 1.5



Item #
6674

Universal Drain Plug Key Set | for Plastic Oil Drain Screws | external hexagon 6.3 mm (1/4") drive, 10 mm (3/8") | 5 pcs.

10 mm 3/8"

- special profile inserts
- with T-handle for manual operation
- for mounting and dismounting the plastic oil drain plug on plastic oil pans
- high accuracy of fit for professional oil change
- suitable for Peugeot, Citroen, Ford, BMW, VAG

scope of delivery:

- 1 T-handle, 10 mm (3/8") drive, length 100 mm
- 1 bit holder, 10 mm (3/8") square drive, 6.3 mm (1/4") bits
- 1 special socket wrench bit, 10 mm (3/8") drive, for plastic oil drain plugs, suitable for PSA
- 1 oil drain plug bit, 6.3 mm (1/4") hexagon drive, for plastic oil drain plugs, suitable for VAG
- 1 oil drain plug bit, 6.3 mm (1/4") hexagon drive, for plastic oil drain plugs, suitable for BMW, 10 mm



Item #
9843



Oil Filter Wrench | 71 mm | für Toyota, Lexus, Daihatsu, Subaru

10  3/8

- especially developed for Toyota models with cartridge type oil filter
- suitable for cartridge type oil filters of Toyota, Lexus, Scion, Daihatsu, Subaru, Pontiac
- will not slip or stuck on the filter housing
- drive profile size, metric: 10 mm
- drive profile size, inch: 3/8"
- BGS 9528: size: 71 mm
- BGS 9529: size: 80 mm



Item #	Description
9528	Oil Filter Wrench 71 mm für Toyota, Lexus, Daihatsu, Subaru
9529	Oil Filter Wrench 80 mm for Toyota, Lexus, Scion

Oil Filter Wrench Set | Ø 60 - 80 / 80 - 96 mm | 4 pcs

- suitable for disassembly and assembly of sheet metal housing filters
- the more torque applied the stronger the grip
- spring loaded, self contracting
- drive: 10 mm (3/8")

scope of delivery:

- oil filter wrench 60 to 80 mm, 3/8" drive, for clockwise rotation
- oil filter wrench 60 to 80 mm, 3/8" drive, for counterclockwise rotation
- oil filter wrench 80 to 96 mm, 3/8" drive, for clockwise rotation
- oil filter wrench 80 to 96 mm, 3/8" drive, anti-clockwise rotation



Item #
9792

Rotary Drum Pump

- for pumping liquids from barrels
- suitable for oil and antifreeze (not suitable for fuels), as well as for urea acids (AUS)
- with three-part telescopic tube
- manual rotation with high transmission ratio
- for barrels up to 200 liters
- flow rate per turn: 280 ccm
- flow rate per minute: approx. 20 L (72 turns)
- adaptor thread size: 2" NPT
- material: polypropylene



Item #
9698

Magnetic Pick-Up Tool | 660 mm | Capacity 0.6 kg

- with extendible telescope shaft
- head diameter 7 mm
- with nozzle cleaner (below the protection cap)
- incl. clip holder
- surface finish: chrome plated, polished

Item #
9546



Car Window Cleaning Nozzle and Adjusting Tool

- with sturdy, needle-like setting tip
- for cleaning and adjusting disc washers
- suitable for adjusting the washing nozzles on the headlight
- incl. protective caps
- length: 95 mm
- material: aluminium

Item #
9697



Heavy-Duty Magnetic Holder | L-Type

- 3 separate magnetic areas
- ideal help tool for welding work
- precise fixing of steel and workpiece
- triple use, 60°, 90° and 120°

Item #
9683



LED Battery Bonnet Lamp

- engine compartment lighting with 120 SMD LED, switchable to 60 SMD LEDs
- horizontally or vertically usable
- foot (two-sided), 200° swiveling & 30° rotatable
- 3 magnets per side
- hook (on both sides), 360° swiveling
- off / on switch (on both sides)
- 120 SMD LED
- power: 24 W
- brightness: 800 lm
- battery: Lithium-Ion, 2000 mAh
- operating time: approx. 3-4 hours
- charging time: approx. 6 hours
- protection class: IPX4
- dimensions: 1180 x 120 x 160 mm
- handle type: 2-component handle
- housing material: ABS-plastic
- total weight: 780 g (with charger) / 680 g (without charger)

scope of delivery:

- LED battery-powered light
- 230V charger
- 12V car adaptor

Item #
9757



COB LED Bonnet Lamp with Battery and Telescopic Bar | 2 COB-LED-Handheld Work Lamps

- for illuminating the engine during engine service
- suitable for the most car models
- telescopic holders with expander function incl. large and 360° adjustable hooks
- hooks protect the hood from scratches, covered with soft foam
- robust and foldable aluminum frame facilitates transport and storage
- equipped with two separate COB-LED hand work lamps, which can be used individually
- incl. fold-out and swivel hook for hanging
- COB-LED: 15 W (x2)
- brightness (step 1): 750 lumens
- brightness (step 2): 1500 lumens
- working time (step 1): 2 hours
- working time (step 2): 4 hours
- accumulator type: Li-ion
- accumulator voltage: 3.7 V
- accumulator power (electric charge): 2 x 3600 mAh
- operating temperature: -5 °C to 47 °C
- charging connector: Micro-USB (5.0 V DC)
- charging time: approx. 4 hours
- bracket range: 122 - 196 cm (48" - 77")
- net weight: 2 Kg (4.3 lbs)
- dimensions: 66 x 28 x 10 cm (26" x 11" x 4")

scope of delivery:

- 2 COB LED battery bonnet lamps with 2 lithium-ion batteries
- 1 telescopic bar

Item #
85306



COB-LED / UV Handheld Work Lamp | ultra flat Type

- extra flat design especially suitable for illuminating narrow areas
- switchable to ultraviolet light (UV)
- suitable for detecting using in connection with fluorescent leak detector spray
- brightness continuously adjustable through control knob
- 1 swivel hanging hook
- swivel base with powerful magnet
- light source: 10 W COB LED (main light)
- LED-brightness: 800 lumen
- accumulator type: Li-ion
- accumulator power (electric charge): 3350 mAh
- accumulator charging time: 3.5 h
- working time: 3 h
- charger input: micro USB (charging cable includes)
- load indicator: LED red/blue
- working temperature: -5 °C - 50 °C
- storage temperature: -20 °C - 70 °C
- dimensions: 477 x 50 x 40 mm
- weight: ca. 295 g

scope of delivery:

- COB-LED / UV Work Handheld Lamp
- USB charger (output: DC 5 V 2000 mA, input: AC 100 - 240 V 50/60 Hz)
- USB-charging cable



Item #

9767

COB-LED Handheld Work Lamp | LED Cold White & Yellow | ultra flat Type

- extra flat design especially suitable for illuminating narrow areas
- 3-step-switchable light color from white to yellow and a combination of white and yellow
- yellow light is perfect for detecting dents
- brightness continuously adjustable through control knob
- 1 folding and swivel hanging hook
- swivel base with powerful magnet
- light source: COB LED
- LED brightness: white 620 lumens, yellow 600 lumens, white and yellow 770 lumens
- accumulator type: Li-Ion
- accumulator power (electric charge): 3350 mAh
- working time: 3.5 h
- charger input: micro USB (charging cable includes)
- charging indicator: LED red/blue
- working temperature: -5 °C - 50 °C
- dimensions: 477 x 50 x 40 mm
- weight: ca. 295 g

scope of delivery:

- COB-LED Work Handheld Lamp
- USB charger (output: DC 5 V 2000 mA, input: AC 100 - 240 V 50/60 Hz)
- USB charging cable



Item #

6660

COB LED Workshop Lamp with Magnet and Hook

- for perfect illumination of dark work areas
- ABS plastic housing with roughened, rubberized surface for a secure hold of the lamp in the hand
- 2 fold-out and 360° swiveling hooks on the back of the housing
- 180° rotatable handle lockable in 8 steps
- LED charging indicator on the back of the housing (red / green)
- with hooks for fixing the lamp in many places
- strong magnet on base and two magnets on the back allow to fix on most metallic surfaces
- switchable from main to top light
- LED type (main light): COB LED
- LED type (top light): SMD LED
- brightness (main light): 400 lumens
- brightness (top light): 120 lumens
- operating time (main light): approx. 3 hours
- operating time (top light): approx. 9 hours
- accumulator type: Li-ion
- accumulator voltage: 3.7 V
- accumulator power (electric charge): 2200 mAh
- charging time: approx. 3.5 hours
- charging input: 5 V 1 A (Micro-USB)
- dimensions: 254 x 45 x 55 mm
- weight: 310 g
- protection degree: IP54
- operating temperature: -10 °C to +40 °C



Item #
85324



SMD-LED Work Lamp | foldable

- for perfect illumination of dark work areas
- compact design for use in confined spaces
- plastic housing
- 1 fold-out and 360° swiveling hook on the back of the housing
- 180° rotatable handle locked in 5 steps
- holding magnet with additional rubber coating, on backside of the case
- with practical belt clip on case back
- 3-step switch function 100% / 50% / off
- LED type: SMD-LED
- brightness (100%): 300 lumens
- brightness (50%): 150 lumens
- operating time (100%): approx. 3 hours
- operating time (50%): approx. 6 hours
- color temperature: 6000 Kelvin
- accumulator type: Li-ion
- accumulator voltage: 3.7 V
- accumulator power (electric charge): 1500 mAh
- charging time: approx. 3 hours
- charging input: 5V 1A (Micro-USB)
- dimensions: 127 x 32 x 62 mm
- weight: 170g
- protection degree: IP54
- operating temperature: -20°C to +50°C



Item #
85326



Delivery Tip for Grease Gun | angled

- for use with pressure hose
- thread 1/8" PT
- 90 ° angled
- for use with grease nipple and grease gun

Item #
9403



Two-Hand Cartridge Grease Gun | 500 g

- for easy, clean and safe lubrication of axles, bearings, bushes, etc.
- allows quick and clean cartridge changes
- enables complete emptying of the cartridge
- fill levels can be checked at all times
- ergonomic, anti-slip handles
- cartridge type: 500 g
- grease class: NLGI 2
- with flexible armored hose
- operating pressure: 500 bar
- grease gun bursting pressure: 675 bar
- delivery tube bursting pressure: 675 bar
- system bursting pressure: 850 bar
- output: max. 0,8 g per stroke
- pumping piston diameter: 8,5 mm
- hose connecting thread: M10 x 1.0
- total length: 675 mm
- tube length: 300 mm
- optional accessories: flexible delivery tube BGS 3066-1



Item #
6650

Hydraulic Cylinder | 700 bar

- hollow piston with 20 mm bore
- cylinder capacity: 10000 psi (700 bar)
- 13.0 t. (metric)
- stroke: 42 mm
- oil capacity: 77.7 cm³
- retracted height: 120 mm
- extended height: 162 mm
- flange thread: 2-3/4"x16
- length of flange thread: 30 mm
- external diameter: 70 mm
- weight: 2.8 kg

Item #
9530



Hydraulic Workshop Press | 10 t

- facilitates renewal of e. g. wheel bearings, gear shaft bearings, rubber bushings etc.
- large work area with individually adjustable supporting surface pressure
- big pressure gauge range: 0 - 1000 psi (0 - 14500 bar)
- working range from 0 to 300 mm (adjustable in 3 steps)
- pressing pressure: 10 t
- stroke: 130 mm
- net weight 42 kg
- length: 690 mm
- width: 400 mm
- height: 1020 mm

Item #
9790



Mechanic's Gloves | Size 7 (S)

- partly PU coated
- good fit and secure grip
- good sense of touch
- knitwrist
- suitable for: tire service
- size: 7 (S)



Item #
9795

Adhesive Repair Kit | 2-component glue | 20g industrial adhesive / 20g granulate

- suitable for bonding rubber, plastic, steel and metals as well as EPDM
- sticks fast
- waterproof, temperature and chemical resistant, sandable and recoatable
- in practical bottle with drip closure
- temperature resistance: max. -50 °C to + 80 °C
- low viscosity
- viscosity 20 °C: 3 - 10 mPa.s
- tensile shear strength according to DIN 53283: 22 N/mm²



Item #
80617

Laser Distance Meter

- allows various measurements and calculations
- area and volume calculation method
- pythagorean theorem calculation method
- addition/subtraction function
- continuous measurement
- delay measurement
- height difference
- storage of historical data
- built-in buzzer
- range of measurement: 5 cm - 60 m
- measurement accuracy: +/- 1.5mm
- measurement unit selection: m / inch / feet
- battery type: 2 AAA
- battery life: approx. 10,000 single measurements
- battery life: approx. 2.5 h operating time
- laser class: II
- operating temperature: -5 - 40°C
- storage temperature: -20 - 60°C
- weight: 125g
- dimension: 108 x 53 x 28 mm



Item #
9852

BGS® Vintage T-Shirts

- crew neck
- washable at 40° C
- two-tone, vintage design
- fit: regular
- material: 100% semi-combed ring-spun cotton

Item #	Description
90012	BGS® Vintage T-Shirt Size S
90013	BGS® Vintage T-Shirt Size M
90014	BGS® Vintage T-Shirt Size L
90015	BGS® Vintage T-Shirt Size XL
90016	BGS® Vintage T-Shirt Size XXL
90017	BGS® Vintage T-Shirt Size 3XL
90018	BGS® Vintage T-Shirt Size 4XL
90019	BGS® Vintage T-Shirt Size 5XL



BGS® T-Shirt

- crew neck
- easy care
- suitable for industrial washing according to ISO 1579
- preshrunk
- washable at 60 °C
- two-tone, sporty design
- fit: comfort fit
- material: MikraLinar®, single jersey made of 50% cotton and 50% polyester, 160 g/m²

Item #	Description
90022	BGS® T-Shirt Size S
90023	BGS® T-Shirt Size M
90024	BGS® T-Shirt Size L
90025	BGS® T-Shirt Size XL
90026	BGS® T-Shirt Size XXL
90027	BGS® T-Shirt Size 3XL
90028	BGS® T-Shirt Size 4XL



BGS® Polo Shirt

- 3 hole-placket
- easy care
- suitable for industrial washing according to ISO 1579
- preshrunk
- washable at 60 °C
- two-tone, sporty design
- fit: comfort fit
- material: MikraLinar®, pique made of 50% cotton and 50% polyester, 200 g/m²

Item #	Description
90032	BGS® Polo Shirt Size S
90033	BGS® Polo Shirt Size M
90034	BGS® Polo Shirt Size L
90035	BGS® Polo Shirt Size XL
90036	BGS® Polo Shirt Size XXL
90037	BGS® Polo Shirt Size 3XL
90038	BGS® Polo Shirt Size 4XL



BGS® Sweatshirt

- easy care
- suitable for industrial washing according to ISO 1579
- preshrunk
- washable at 60 °C
- fit: Comfort Fit
- material: MikraLinar®, knitwear made of 50% cotton and 50% polyester, 300 g/m²

Item #	Description
90042	BGS® Sweatshirt Size S
90043	BGS® Sweatshirt Size M
90044	BGS® Sweatshirt Size L
90045	BGS® Sweatshirt Size XL
90046	BGS® Sweatshirt Size XXL
90047	BGS® Sweatshirt Size 3XL
90048	BGS® Sweatshirt Size 4XL



BGS® Softshell Jacket

- breathable
- waterproof
- washable at 30 °C
- fit: comfort fit
- material: Softshell made of interlock 2-layer laminate made of 100% polyester, 170 g/m²

Item #	Description
90052	BGS® Softshell Jacket Size S
90053	BGS® Softshell Jacket Size M
90054	BGS® Softshell Jacket Size L
90055	BGS® Softshell Jacket Size XL
90056	BGS® Softshell Jacket Size XXL
90057	BGS® Softshell Jacket Size 3XL
90058	BGS® Softshell Jacket Size 4XL



BGS® Work Trousers | long

- deep pocket openings
- knee section made of sturdy CORDURA®
- inserted kneepads
- reflectors
- wide belt loops with hook-and-loop for extra bag
- pocket for folding rule, pens and mobile phone pocket
- washable at 60 °C
- material: 65% polyester and 35% cotton, 260 g/m²

Item #	Description
90060	BGS® Work Trousers long Size 44
90061	BGS® Work Trousers long Size 46
90062	BGS® Work Trousers long Size 48
90063	BGS® Work Trousers long Size 50
90064	BGS® Work Trousers long Size 52
90065	BGS® Work Trousers long Size 54
90066	BGS® Work Trousers long Size 56
90067	BGS® Work Trousers long Size 58
90068	BGS® Work Trousers long Size 60
90069	BGS® Work Trousers long Size 62



BGS® Work Trousers | short

- 7 trouser pockets
- trouser pockets made of sturdy CORDURA®
- washable at 60 °C
- material: 65% polyester and 35% cotton, 260 g/m²



Item #	Description		
90070	BGS® Work Trousers short	Size 44	
90071	BGS® Work Trousers short	Size 46	
90072	BGS® Work Trousers short	Size 48	
90073	BGS® Work Trousers short	Size 50	
90074	BGS® Work Trousers short	Size 52	
90075	BGS® Work Trousers short	Size 54	
90076	BGS® Work Trousers short	Size 56	
90077	BGS® Work Trousers short	Size 58	
90078	BGS® Work Trousers short	Size 60	
90079	BGS® Work Trousers short	Size 62	



Novelties after editorial deadline



Novelties after editorial deadline

Workshop Trolley | 8 Drawers | with 263 Tools



Item # 4106

Workshop Trolley | 2x 5 Drawers | 1 Cabinet | empty



Item # 4199

Tool Tray 1/3: Extension Bar, Adaptor and Universal Joint Set | 17 pcs.



Item # 4144

Tool Tray 1/3: Handheld Lamp and Magnetic Lifter | 3 pcs.



Item # 4146

Tool Tray 2/3: Ratchet Wrenches | adjustable | 8 - 19 mm | 12 pcs.



Item # 4195

Tool Tray 1/3: Ratchet Combination Wrench Set | 8 - 19 mm | 12 pcs.



Item # 4196

Tool Tray 1/3: Machinist's File Set | 5 pcs.



Item # 4197

Ratchet Wrench Set | 8 - 13 mm | 6 pcs.



Item # 6502

Magnetic Can Storage Tray | 210 mm



Item # 67167

Tool Tray 1/3: Differential Cage Bearing Puller



Item # 6932

Adaptor Set for Compression and Pressure Loss Tester | 30 pcs.



Item # 6960

Drip Tray | Stainless Steel | 600 x 400 mm



Item # 7892

Tool Tray 1/6: Crowfoot Spanner Set | 10 mm (3/8") | 10 - 19 mm | 11 pcs.



Item # 9817

Tool Tray 1/3: Crowfoot Spanner Set | 10 mm (3/8") / 12.5 mm (1/2") / 20 mm (3/4") | 10 pcs.



Item # 9818

Double-Joint Circlip Pliers Set | Exchangeable Tips | 345 mm



Item # 9836

Magnetic Shell | foldable | Ø 120 / 220 mm



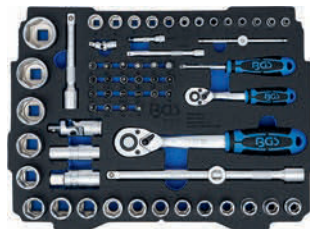
Item # 9896

Sanitation / Heating Tool Set | 29 pcs.



Item # 1433

Foam Tray for BGS BOXSYS1 & 2: Socket Set 6.3 mm (1/4") / 12.5 mm (1/2") | BGS systainer® | 65 pcs.



Item # 3351

Foam Tray for BGS BOXSYS1 & 2: Hammer, Pliers, Screwdriver Set | 12 pcs.



Item # 3353

Socket Set | 6.3 mm (1/4") / 12.5 mm (1/2") | in system case | BGS systainer® | 65 pcs.



Item # 3354

VDE Socket Set / Tool Assortment | 26 pcs.



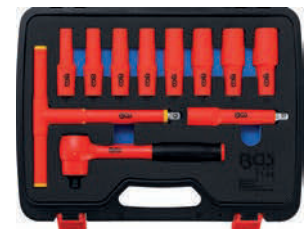
Item # 7130

VDE Socket Set | 10 mm (3/8") Drive | 7 - 22 mm | 12 pcs.



Item # 7133

VDE Socket Set | 12.5 mm (1/2") Drive | 10 - 24 mm | 11 pcs.



Item # 7134

System Case | BGS systainer® T-Loc 1



Item # BOXSYS1

System Case | BGS systainer® T-Loc 2



Item # BOXSYS2

Socket, Hexagon, deep | 12.5 mm (1/2") Drive | 23 mm



Item # 10563

Extractor Cap Set for damaged hexagon Nuts and Bolts | 12 pcs.



Item # 1245

Socket, E-Type | 10 mm (3/8") Drive | E14



Item # 6264

Screw Extractor & Left Cutting Drill Set | HSS | titanium nitrated | 2 - 7.5 mm | 10 pcs.



Item # 6780

Screw Extractor Set | 6.3 mm (1/4") / 10 mm (3/8") Drive | for damaged Internal Hexagon 3 - 10 mm | 8 pcs.



Item # 6847

Socket Set, 12-point, deep | 10 mm (3/8") Drive | Inch Sizes | 11 pcs.



Item # 6859

Pipe Line Wrench Set | flexible | 5 changeable heads | 10 mm (3/8") Drive | 11 - 17 mm



Item # 6895

Rim Lock Dismantling Tool Set | for BMW, MINI | 4 pcs.



Item # 6928

Flexible Socket Driver | E-type E 4 - E 8 | Blade Length 150 mm



Item # 70020 - 70024

Socket Set, E-Type | XXL | 10 mm (3/8") Drive | E6 - E20 | 10 pcs.



Item # 70026

Special Impact Double-Sided Socket Set / External Hexagon & Screw Extractors 17 - 19 - 21 mm | 12.5 mm (1/2") | 3-tlg.



Item # 7467

Protective Impact Socket Set | Ultra Slim | 12.5 mm (1/2") Drive | 17 / 19 / 21 mm | 3 pcs.



Item # 7500

Groove Nut Socket Set | inside taps | KM4 - KM12 | 9 pcs.



Item # 8327

Groove Nut Socket | inside taps | KM4 - KM12



Item # 8327-4 - 8327-12

Groove Nut Socket Set | outside taps | KM4 - KM12 | 9 pcs.



Item # 8337

Groove Nut Socket | outside taps | KM4 - KM12



Item # 8337-4 - 8337-12

Multi Socket with Adaptor Set | 10 mm (3/8") Drive | 9 - 21 mm | 3 pcs.



Item # 92533

Universal-/Security Bit Set | 6.3 mm (1/4") Drive | 208 pcs.



Item # 20103

VDE Bit Socket Set | 12.5 mm (1/2") Drive | T-Star (for Torx) T20 - T55 | 10 pcs.



Item # 7131

VDE Bit Socket Set | 10 mm (3/8") / 12.5 mm (1/2") Drive | Internal Hexagon 4 - 10 mm | 10 pcs.



Item # 7132

Reversible Ratchet | finely toothed | 6,3 mm (1/4") - 12.5 mm (1/2")



Item # 600 - 602

Socket Holders | 3 pcs.



Item # 67158

Bit Holder / Socket Adaptor Set | 16 pcs.



Item # 6779

Scaffolding Ratchet | round shaft | 19 x 22 mm



Item # 6907

VDE Reversible Ratchet | Fine Tooth | 10 mm (3/8") | 1000 V



Item # 701

VDE Reversible Ratchet | 12.5 mm (1/2") | 1000 V



Item # 702

Torque Wrench | 5 - 25 Nm | for 9 x 12 mm Insert Tools



Item # 2814

Torque Wrench | 10 - 100 Nm | for 9 x 12 mm Insert Tools



Item # 2815

Torque Wrench | 20 - 200 Nm | for 14 x 18 mm Insert Tools



Item # 2816

Torque Wrench | 40 - 340 Nm | for 14 x 18 mm Insert Tools



Item # 2817

Digital Torque Wrench | 12.5 mm (1/2") | 40 - 200 Nm - 6.3 mm (1/4") | 6 - 30 Nm



Item # 950 - 952

Double Swivel Head Ratchet Wrench | 10 x 11 mm - 17 x 19 mm



Item # 1541-10X11 - 1541-17X19

Pliers for Axle Boot Clamps | for use with Torque Wrench | 90° angled



Item # 163-2

Tap Set | Starter & Plug Tap | M4 x 0.7 | 2 pcs.



Item # 1900-M4X0.7-B

Tap Set | Starter & Plug Tap | M5 x 0.8 | 2 pcs.



Item # 1900-M5X0.8-B

Screwdriver Set with interchangeable Blades | T-Star (for Torx) / T-Star tamperproof (for Torx) | 8 pcs.



Item # 2326

Combination Spanner Set | 4 - 10 mm | 9 pcs.



Item # 30551

Slogging Ring Spanner Set | 12-Point / E-Type (for Torx) | 5 pcs.



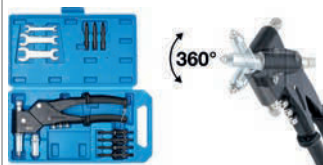
Item # 35310

Nut Riveter | long arm | M3 - M10



Item # 408-1

Riveter Set | for Standard, Nut and Stud Rivets



Item # 438

Grinding Wheels / Sanding Pad Set | Ø 50 mm | 35 pcs.



Item # 6649

Side Cutter | for Hard Wire | 160 mm



Item # 670

Heavy Duty Diagonal Side Cutter | for Piano Wire | 200 mm



Item # 671

Long Nose Pliers | with Cutting Edge | straight | 200 mm



Item # 672

Bent Nose Pliers | with Cutting Edge | 200 mm



Item # 673

Combination Pliers | with Facet and Cutting Edge | 180 mm



Item # 674

Heavy Duty Combination Pliers | with cutting Edge | Evo Plus | 190 mm



Item # 675

Fuel Line Pliers | with Bowden Cable | 650 mm



Item # 6756

Water Pump Pliers | „SpeedyPlus“ | 250 mm



Item # 676

Outer / Inner Deburring Tool & File Set | 5 pcs.



Item # 6773

Holder for Combination Spanners | 12 supports



Item # 6781

Holder for Combination Spanners | 8 supports



Item # 6782

Gaspipe Pliers | 25 mm - 1" - 50 mm - 2" Swedish Type



Item # 6788 - 6790

External / internal Puller Set, 2/3-legs | 75 - 150 mm | 3 pcs.



Item # 6792

HSS Drill Set | 10 - 11 - 12 - 13 - 15 mm | 5 pcs.



Item # 6801

HSS Drill Set | 26 - 28 mm | 2 pcs.



Item # 6802

Locking Grip Pliers | „2-IN-1“ | 200 mm



Item # 6803

Screwdriver Set | with Bit Assortment | in a Plastic Stand | 29 pcs.



Item # 6825

Screwdriver Set | T-Star tamperproof (for Torx) | T6 - T10 | 5 pcs.



Item # 6826

Screwdriver Set | T-Star (for Torx) T6 - T10 | 7 pcs.



Item # 6828

Thread Insert Assortment | self-tapping | 32-pcs.



Item # 6844

Thread Insert Assortment | self-tapping | 32-pcs.



Item # 6845

Ratchet Combination Wrench | short | adjustable | 8 mm - 19 mm



Item # 6908 - 6919

Crow Foot Wrench Set | 12.5 mm (1/2") Drive | flexible | 6 pcs.



Item # 6931

Crimping Pliers Set | for Solar Connectors MC3 / MC4 / Tyco | 4-piece



Item # 70003

Hose Clamp Pliers for Turbo Charger Hose Clips | for VAG



Item # 70015

Tap and Die Set | M3 - M12 | 56 pcs.



Item # 70104

Tap and Die Set | Inch Sizes | 1/4" - 1" | 56 pcs.



Item # 70105

Wooden Mallet | 230 g



Item # 7083

Screwdriver Set | with 6.3 mm (1/4") Internal Square | 12 pcs.



Item # 7896

Bench Vice Jaw Protector Set | Aluminium | 125 mm | 8 pcs.



Item # 8442-1

Bench Vice Jaw Protector Set | Aluminium | 150 mm | 8 pcs.



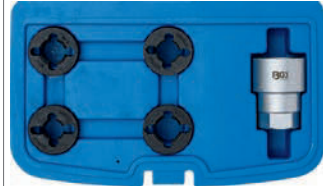
Item # 8442-2

Thread Repair Kit for Wheel Studs & Wheel Nuts | M12 & M14 | 8 pcs.



Item # 8692

Thread Repair Kit for wheel bolts | for Trucks



Item # 8696

Bolt Cutter with Hardened Jaws | 300 mm - 900 mm



Item # 908 - 915

Tube Cutter | Ø 3 - 30 mm



Item # 9521

Pneumatic Valve Lapper | 13 pcs.



Item # 3327

Pneumatic Soda Spray Gun | 1 l



Item # 6655

Pistol-Grip Air Inflator | digital | 0 - 8 bar



Item # 6794

**Air Impact Wrench | 12.5 mm (1/2")
| 1200 Nm**



Item # 6829

**Air Blow Gun | with Turbo Venturi
Nozzle**



Item # 6875

Mini Air Blow Gun



Item # 6876

**Induction Heater | Trucks /
Agricultural Machines | liquid
cooled**



Item # 2170

**Cable Reel | 15 m - 50 m
3x1,5 mm² | 4 Socket Outlets |
IP 20 | 3000 W**



Item # 3360 - 3362

Automatic Cable Reel | 15 m



Item # 3379

Induction Heater | 1.1 kW



Item # 3390

**Induction Heater | 2.0 kW | for Dent
Removal**



Item # 70106

**Cordless Polisher Set | max. 2800
rpm | 12 V | 1500 mAh**



Item # 9294

**Electric Polisher | max. 3000 rpm |
1300 W | Ø 180 mm**



Item # 9337

**Electric Eccentric Polisher | max.
6000 rpm | 900 W**



Item # 9345

**Cordless Impact Wrench | extra
short | 250 Nm | max. 2.500 rpm |
18 V**



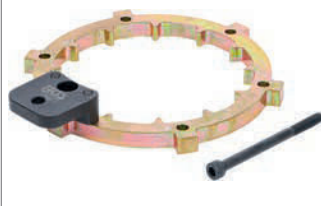
Item # 9928

**Motorcycle Special Socket | 10 mm
(3/8") | 12 - 24 mm**



Item # 5058-1

**Clutch Basket Holding Tool | for
Ducati | Steel Version**



Item # 5064-1

**Camshaft Locking Pin Set | for
Ducati**



Item # 6720

**Camshaft Locking Pin Set | for
Ducati**



Item # 6721

Valve Shim Tool | for Honda



Item # 6722

**Rocker Arm Pin Extractor Set | for
Ducati**



Item # 6723

**Fork Cap Wrench | for Ohlins Forks
| for Ducati**



Item # 6724

**Fork Cap Wrench | for Sachs Forks
| for Ducati**



Item # 6725

Fork Cap Wrench | for Marzocchi Forks | for Ducati



Item # 6726

Fork Cap Wrench | for Ohlins Forks | for Ducati



Item # 6727

Brake Piston Reset Tool | for Motor Cycles



Item # 70010

Injector Extractor Set | for Trucks | 4pcs.



Item # 6662

Twin Wheel Separating Tool Set | 4 pcs.



Item # 6679

Universal Axle Cap and Groove Nut Wrench Set



Item # 6746

Heavy-Duty Universal Joint Puller | for Commercial Vehicles



Item # 6894

Fuel Line Disconnect Tool Set | 4-pcs. | for commercial vehicles (USA) MaxxForce engines 11 & 13



Item # 6898

Valve Spring Compressor | for Ford (USA) 3-Valve Engines



Item # 6922

Oil Filter Socket | for Mercedes-Benz Actros / Atego / Axor / Econic | 46 mm



Item # 6948

Flywheel Rotating Tool | for Renault



Item # 6949

Flywheel / Crankshaft Rotater | for Volvo / Renault MP8 / MP10 / D13A



Item # 6950

Crankshaft Rotating Tool | for Volvo



Item # 6952

Flywheel / Crankshaft Rotater | for Iveco



Item # 6953

Crankshaft Rotating Tool | for Scania



Item # 6954

Crankshaft Front Oil Seal Installer | for DAF (CF 85)



Item # 6955

Flywheel Rotation Tool | for MAN engines



Item # 6957

Flywheel / Crankshaft Rotater | for Mercedes-Benz / MAN



Item # 6958

Transmission Bearing Puller Set | for Trucks



Item # 6961

Main Transmission Shaft Nut Socket | for Scania 10 Speed Automatic Transmission | 64 x 79 mm



Item # 6963

Axle Nut Socket | 6-Point | for SAF Trailer Axles | 85 mm



Item # 6966

Hub Socket | for ROR Trailer Axles



Item # 6967

Rear Axle Cap Socket | for BPW Rear Axle Caps | 110 mm



Item # 6972

Axle Cap Socket | for BPW 16 t Trailer Axle Caps | 110 mm



Item # 6974

Roller Bearing Axle Nut Socket | for BPW 6.5 - 9 t | 65 mm



Item # 6975

Roller Bearing Axle Nut Socket | for BPW 12 t | 80 mm



Item # 6977

Wheel Hub Nut Socket | 8-point | for BPW 12 t Axles | 109 mm



Item # 6978

Transmission Groove Nut Socket | for Scania 310 / 320



Item # 6981

Hub Nut Socket | for Scania 420 | 90 x 119 mm



Item # 6982

Hub Socket | 12-point | for IVECO Trucks & SAF / BPW Trailers | 85 mm



Item # 6984

Axle Clamp Nut Wrench | for DAF, MAN, Mercedes-Benz, Kässbohrer, Setra | 56 mm



Item # 6989

Drive Axle Groove Nut Socket | for MAN & Mercedes-Benz Trucks | 101.5 x 110 mm



Item # 6992

Axle Clamp Nut Socket | for DAF, MAN, Mercedes-Benz, Kässbohrer, Setra | 60 mm



Item # 6993

Rear Axle Groove Nut Socket | for Mercedes-Benz Citaro | 122 x 139 mm



Item # 6994

Transmission Groove Nut Socket | for MAN



Item # 6996

Drive Shaft Nut Socket | for MAN TGA 460 Axles



Item # 6997

Rear Wheel Shock Absorber Spring Washer Removal Socket | 20 mm (3/4") Drive | for Scania



Item # 6999

Rear Wheel Shock Absorber Spring Washer Removal Socket | for Scania | 34 x 46 mm



Item # 7002

Crankshaft Seal Ring Mounting Tool | for VW



Item # 1246

Flaring, Bending & Cutting Tool Set | for 4.75 mm (3/16") Brake Pipes



Item # 1270

Brake Calliper Socket | 10-point | for VAG and Porsche | 11.5 mm



Item # 5292

Intermediate Levers Slide Block | for BMW B38 / B48



Item # 6035

Intermediate Lever Spring Tool | for BMW B38 / B48



Item # 6036

Injector Sealing Surfaces Cutter Set | 19 pcs.



Item # 62607

Ball Joint Separator Set | hydraulic | 12 t



Item # 6645

OBD 2 (EOBD) Error Code Diagnostic Tool



Item # 6648

Alternator Freewheel Tool Set | 14 pcs.



Item # 6657

Brake Piston Reset Adaptor Set | universal | with 2 & 3 Pins | 2 pcs.



Item # 6661

Brake Piston Reset Adaptor Set | universal | with 2 Pins



Item # 6661-2

Brake Piston Reset Adaptor Set | universal | with 3 Pins



Item # 6661-3

Plastic Double Ring Spanner & Pry Bar Set | 5 pcs.



Item # 6663

Flywheel Locking Tool | for BMW / MINI



Item # 6694

Brake Calliper Socket Set | 11 pcs.



Item # 6697

Door Handle Dismantling Tool | for VAG



Item # 6699

Strut Nut Wrench & Holding Tool | for Volvo



Item # 6703

Air Spark Plug Cleaner



Item # 6705

Special Socket | for Audi S5 / Q5 Brake Callipers



Item # 6706

Hook Wrench for Window Mechanism | for BMW E60, E81, E82 and MINI R50, R52, R53



Item # 6730

Brake Disc Puller | Ø 170 - 400 mm



Item # 6743

Brake Piston Reset Tool | universal Type



Item # 6755

Fuel Tank Sensor Wrench | for Audi



Item # 6767

Spark Plug Socket, 12-point, with Retaining Spring | 10 mm (3/8") Drive | 18 mm



Item # 6849

Spark Plug Socket Set 12-Point | 10 mm (3/8") Drive | 14 - 16 - 18 mm | 3 pcs.



Item # 6858

Flywheel Counterholder | for Opel



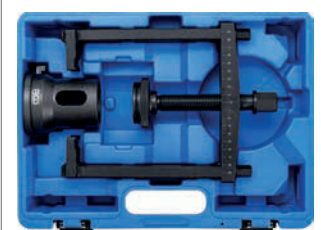
Item # 6886

Ripped Belt Holder



Item # 6889

Trailing Arm Bush Tool | for Honda



Item # 6890

Crankshaft Rear Oil Seal Tool | for Jaguar, Land Rover



Item # 6891

Oil & Fuel Filter Removal Tool | for Mann, Mahle, Knecht



Item # 6892

Belt Tensioner Wrench | for Opel / Vauxhall, Chevrolet



Item # 6893

Brake Spring Installer | for Toyota Parking Brake | 185 mm



Item # 6896

Air Conditioner Line Couplings Release Tool | for VAG



Item # 6897

Special Wrench for Coolant Cap | for BMW



Item # 6899

Special Wrench for Coolant Cap | for Ford, Land Rover, Mazda, Volvo



Item # 6901

Timing Chain Tensioning Lever | for VAG 1.8L / 2.0L TFSI / TSI



Item # 6902

Injector Sleeve Tool Set | for Volvo FM12



Item # 6904

Injector Tube Seal Ring Installation Tool | for PSA 1.6 Diesel



Item # 6906

Diesel Fuel Filter Wrench | for VW & Volvo



Item # 6920

Injection Pump Locking Pin | for Nissan 2.2 & 2.5 Diesel



Item # 6924

Fuel Pump Solenoid Wrench | for Ford Duratorq



Item # 6925

Flexible Belt Assembly/Disassembly Tool



Item # 6927

Drive Shaft Removing Tool | for VAG



Item # 6930

Turbocharger System Pressure Tester Set | 13 pcs.



Item # 6933

Injector Gasket Puller | 370 mm | Heavy Duty



Item # 6959

Camshaft Locking Tool | for VAG



Item # 70013

Universal 3-Arm Tank Sensor Wrench | 90 - 200 mm



Item # 70014

Petrol Injector Puller Tool | for Mercedes-Benz petrol direct injection engines



Item # 70016

Straight Edge | for VAG



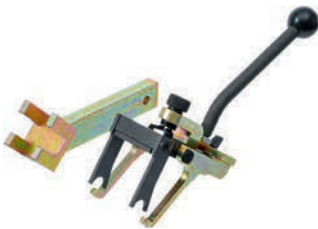
Item # 70034

Sliding Block Fixing Tool | for BMW, MINI, Citroën, Peugeot



Item # 70036

Valve Spring Compressor | for BMW, MINI, Citroën, Peugeot



Item # 70037

Sliding Block Fixing Tool | for BMW



Item # 70038

Silicon Water Remover | flexible | 300 mm



Item # 70058

Fuel Line Disconnect Set



Item # 7024

Fuel Tank Locking Ring Tool | for Fiat / Jeep



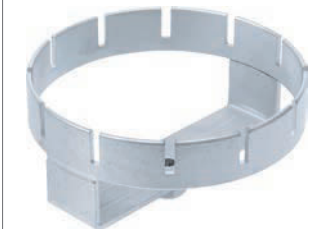
Item # 7026

Fuel Sensor Wrench | for Opel, Mercedes-Benz, BMW, Volvo



Item # 7028

Fuel Sensor Wrench | for Alfa Romeo, Fiat, Lancia, Ferrari, Maserati



Item # 7029

Contour Gauge | 250 mm | lockable



Item # 7081

Valve Spring Compressor Set | 7 pcs.



Item # 8255

Braking Pipe Ratchet Cutter | 4.75 mm (3/16")



Item # 8339

Timing Chain Riveting Tool | for Mercedes-Benz



Item # 8848

Engine Timing Tool Set | for VAG 1.4 / 1.6 / 2.0 TDI Common Rail



Item # 9208

Engine Support Bracket | for Seat



Item # 9644

Tire Change Service Set with Floor Jack 2.5 t | 10 pcs.



Item # 9681

Injector Puller Set | for VAG | universal



Item # 9824

Oil Filter Wrench | for VW Crafter & Volvo 2.0 / 2.5L Diesel



Item # 1241

Flexible Delivery Tube for Grease Gun | 300 mm



Item # 3066-1

Digital Tyre Pressure Gauge & Tyre Depth Gauge | „2-IN-1“



Item # 6647

Battery Plug Turning Tool | with T-Handle



Item # 6744

Flexible Joint Pry Bar | 260 mm - 615 mm



Item # 6752 - 6754

Plastic Pipe & Connector Assortment | 95 pcs.



Item # 6776

Powerful Double Magnetic Holder | adjustable Angle | 22,7 kg



Item # 6784

Oil Filter Wrench Set | 19 pcs.



Item # 6786

Workshop Seat | with 2 shelf plates | ABS | 440 x 350 mm



Item # 6820

Shrink Tube Box | black | Ø 2.5 mm | 10 m, Ø 5 mm | 6 m, Ø 8 mm | 5 m, Ø 3.2 mm | 10 m



Item # 6846 - 6923

Shrink Tube Box | red | Ø 2.5 mm | 10 m, Ø 5 mm | 6 m, Ø 8 mm | 5 m, Ø 3.2 mm | 10 m



Item # 6846-1 - 6923-1

Ultrasonic Parts Cleaner | 3.2 l, 6.5 l, 15 l, 30 l



Item # 6879 - 6882

Tire Tread Depth & Brake Pad Thickness Gauge



Item # 6888

Oil Filter Wrench | 6 teeth | for Hyundai & Kia 2.0L / 2.2L Diesel



Item # 6903

Brake Fluid Tester | Boiling Point Measuring System



Item # 6905

Oil Filter Wrench | 16-point | Ø 86 mm | for Volvo



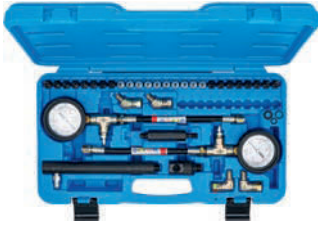
Item # 6926

Transmission Oil Discharge System Set | for Automatic Transmission | for Mercedes-Benz & BMW | 5 pcs.



Item # 6929

ABS and Brake Pressure Gauge



Item # 6964

Oil Filter Pliers | self-adjusting | Ø 60 - 120 mm | 30° offset jaws



Item # 70011

COB LED Workshop Lamp with Magnet and Hook | foldable



Item # 70051

Rubber Pad | for Auto Lifts |



Item # 7036 - 7051

Automatic Transmission Exchange and Flushing machine | with Adaptor Set



Item # 7082

LED Head Lamp with Focus | 3 W



Item # 85327

COB-LED Work Lamp | 10 W



Item # 85328

COB-LED Work Lamp | 30 W



Item # 85329

COB LED Workshop Lamp with Magnet and Hook | foldable | with Wireless Charging function



Item # 85331

COB LED Working Flood Light | 40 W | with internal Speakers



Item # 85332

Cordless Bendy Lamp | COB-LED | 5 W



Item # 85334

COB-LED Work Lamp | foldable



Item # 85335

COB-LED Handheld Work Lamp | Dual LED | ultra flat Type



Item # 85337

Floor Jack | hydraulic | 3 t | with Quick Lift Pedal



Item # 9251

Multi Purpose Funnel | for Urea (AUS 32) | straight



Item # 9702

Multi Purpose Funnel | for Urea (AUS 32) | angled



Item # 9731

Wireless Color Borescope with LED lighting



Item # 9853

Multi Purpose Funnel | heavy duty 260 x 170 mm



Item # 9934

Transmission Oil Filling Adaptor Set | 13 pcs.



Item # 9992-4

Wheel Chock | 250 x 160 x 185 mm | for Cars / Trucks



Item # 7015

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4373	QF7	4764	QF9	5184-H10	QF6	5268-32	QF5	5485-13	QF8	5827	QF4	6560	33	6720	162	6720	162
4374	QF7	4765	QF9	5184-H11	QF6	5268-36	QF5	5485-14	QF8	5830	QF4	6561	33	6721	162	6721	162
4375	QF7	4766	QF9	5184-H13	QF6	5268-41	QF5	5486-T20	QF8	5832	QF4	6562	34	6722	162	6722	162
4376	QF7	4767	QF9	5184-H17	QF6	5269-8	QF5	5486-T25	QF8	5833	QF4	6563	34	6723	162	6723	162
4377	QF7	4768	QF9	5184-H19	QF6	5269-21	QF5	5486-T27	QF8	5834	QF4	6564	34	6724	162	6724	162
4378	QF7	4770	QF9	5184-H22	QF6	5270	QF5	5486-T30	QF8	5835	QF4	6570	32	6725	162	6725	162
4379	QF7	4771	QF9	5184-H24	QF6	5271	QF5	5486-T40	QF8	5836	QF4	6571	32	6726	163	6726	163
4380	QF9	4772	QF9	5184-HB5	QF6	5272	QF5	5486-T45	QF8	5838	QF4	6572	32	6727	163	6727	163
4381	QF9	4773	QF9	5184-M9	QF6	5273	QF5	5486-T50	QF8	5839	QF4	6573	32	6730	165	6730	165
4382	QF9	4774	QF9	5184-M10	QF6	5274	QF5	5486-T55	QF8	5841	QF4	6574	32	6731	75	6731	75
4383	QF9	4775	QF9	5184-M12	QF6	5275	QF5	5486-T60	QF8	5846	QF4	6575	32	6734	96	6734	96
4384	QF9	4776	QF9	5184-M14	QF6	5276	QF5	5486-T70	QF8	5850	QF4	6576	33	6735	115	6735	115
4385	QF9	4777	QF9	5184-M18	QF8	5277	QF5	5486-T80	QF8	5855	QF4	6577	33	6736	46	6736	46
4386	QF9	4778	QF9	5184-R7	QF7	5278	QF5	5487-M4	QF8	5856	QF4	6578	33	6737	46	6737	46
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4390	QF9	4811	17	5184-T30	QF7	5334-H17	QF8	5487-M10	QF8	5875	QF4	6592	34	6742	36	6742	36
4391	QF9	4850	QF9	5184-T40	QF7	5336	QF5	5500-17	QF4	5880	QF4	6593	34	6743	165	6743	165
4410	QF9	4851	QF9	5184-T45	QF7	5337	QF5	5500-19	QF4	5885	QF4	6594	34	6744	168	6744	168
4415	QF9	4852	QF9	5184-T50	QF7	5338	QF5	5500-21	QF4	5890	QF4	6608	56	6746	163	6746	163
4420	QF9	4853	QF9	5184-T55	QF7	5339	QF5	5500-22	QF4	5895	QF4	6609	56	6750	119	6750	119
4425	QF9	4854	QF9	5184-T60	QF7	5340	QF5	5500-24	QF4	5905	QF4	6610	56	6751	29	6751	29
4427	QF9	4859	QF9	5184-T70	QF7	5341	QF5	5500-27	QF4	5910	QF4	6611	56	6752 - 6754	168	6752 - 6754	168
4430	QF9	4860	QF9	5184-TB30	QF7	5342	QF5	5500-30	QF4	5915	QF4	6612	56	6755	165	6755	165
4432	QF6	4861	QF9	5184-TB80	QF7	5343	QF5	5500-32	QF4	5920	QF4	6613	56	6756	160	6756	160
4440	QF9	4862	QF9	5184-TS10	QF6	5344	QF5	5500-33	QF4	6035	165	6614	56	6757	87	6757	87
4445	QF9	4863	QF9	5184-TS15	QF6	5345	QF5	5500-34	QF4	6036	165	6615	56	6758	92	6758	92
4450	QF9	4864	QF9	5184-TS20	QF6	5346	QF5	5500-36	QF4	6264	158	6616	56	6767	166	6767	166
4455	QF9	4866	QF9	5184-TS25	QF6	5347	QF5	5500-38	QF4	6402	10	6617	56	6769	101	6769	101
4456	QF9	4867	QF9	5184-TS27	QF6	5348	QF5	5500-41	QF4	6404	QF4	6618	56	6773	160	6773	160
4457	QF9	4868	QF9	5184-TS30	QF6	5349	QF5	5500-46	QF4	6405	QF4	6619	56	6774	99	6774	99
4458	QF9	4869	QF9	5184-TS40	QF6	5351	QF5	5500-50	QF4	6406	QF4	6641	122	6775	98	6775	98
4460	QF9	4870	QF9	5184-TS45	QF6	5352	QF5	5500-55	QF4	6407	QF4	6643	119	6776	168	6776	168
4462	QF8	4871	QF9	5184-TS50	QF6	5353	QF5	5500-60	QF4	6408	QF4	6644	72	6779	159	6779	159
4463	QF8	4872	QF9	5189-H14	QF6	5367	QF8	5500-65	QF4	6410	QF4	6645	165	6780	158	6780	158
4467	QF7	4873	QF9	5189-H17	QF6	5369	QF8	5500-70	QF4	6411	QF4	6646	120	6781	160	6781	160
4468	QF7	4874	QF9	5189-H19	QF6	5370	QF8	5500-75	QF4	6412	QF4	6647	168	6782	160	6782	160
4469	QF7	4875	QF9	5189-H22	QF6	5371	QF8	5500-80	QF4	6414	QF4	6648	165	6784	168	6784	168
4470	QF7	4876	QF9	5189-T60	QF7	5372	QF8	5500-85	QF4	6416	QF4	6649	160	6786	168	6786	168
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4473	QF7	4952	QF9	5189-T90	QF7	5375	QF8	5500-100	QF4	6420	QF4	6655	161	6794	161	6794	161
4474	QF7	4953	QF9	5189-T100	QF7	5378	QF8	5500-105	QF4	6422	QF4	6656	22	6801	160	6801	160
4475	QF7	4954	QF9	5190	17	5381-M12	QF8	5500-110	QF4	6424	QF4	6657	93	6802	160	6802	160
4476	QF7	4955	QF9	5191	18	5381-M14	QF8	5500-115	QF4	6430	QF4	6657	165	6803	160	6803	160
4477	QF7	4956	QF9	5204-10	QF5	5381-M16	QF8	5545	QF8	6431	QF4	6658	64	6820	168	6820	168
4479	QF7	4957	QF9	5204-11	QF5	5381-M18	QF8	5550	QF8	6440	QF4	6659	14	6825	160	6825	160
4480	QF7	4959	QF9	5204-12	QF5	5467	QF8	5555	QF8	6442	QF4	6660	148	6826	160	6826	160
4481	QF7	4960	QF9	5204-14	QF5	5469	QF8	5560	QF8	6444	QF4	6661	165	6828	161	6828	161
4482	QF7	4961	QF9	5204-16	QF5	5470	QF8	5565	QF8	6446	QF4	6661-2	165	6829	162	6829	162
4483	QF7	4962	QF9	5204-18	QF5	5474	QF8	5570	QF8	6448	QF4	6661-3	165	6844	161	6844	161
4484	QF7	4963	QF9	5204-20	QF5	5475	QF8	5580	QF8	6450	QF4	6662	163	6845	161	6845	161
4485	QF7	4964	QF9	5204-22	QF5	5480-T20	QF8	5590	QF8	6460	QF4	6663	165	6846 - 6923	168	6846 - 6923	168
4486	QF9	4965	QF9	5204-24	QF5	5480-T25	QF8	5600	QF8	6461	QF4	6664	29	6846-1 -	168	6846-1 -	168
4487	QF9	4966	QF9	5205-8	QF4	5480-T30	QF8	5617	QF4	6462	QF4	6665	49	6923-1	168	6923-1	168
4488	QF9	5003	QF7	5205-33	QF4	5480-T40	QF8	5618	QF4	6464	QF4	6665-1	49	6847	158	6847	158
4489	QF9	5007	QF7	5205-34	QF4	5480-T45	QF8	5619	QF4	6466	QF4	6667	66	6849	166	6849	166
4490	QF9	5010	QF7	5205-36	QF4	5480-T50	QF8	5621	QF4	6470	129	6670	75	6851	QF10	6851	QF10
4571	QF9	5052-14	QF6	5205-38	QF4	5480-T55	QF8	5622	QF4	6471	130	6671	92	6858	166	6858	166
4572	QF9	5052-16	QF6	5210	QF4	5480-T60	QF8	5624	QF4	6472	130	6672	92	6859	158	6859	158
4573	QF9	5052-17	QF6	5211	QF4	5480-T70	QF8	5626	QF4	6473	129	6674	143	6875	162	6875	162
4574	QF9	5052-18	QF6	5212	QF4	5480-T80	QF8	5627	QF4	6474	130	6675	40	6876	162	6876	162
4575	QF9	5052-19	QF6	5213	QF4	5481-M5	QF8	5630	QF4	6475	129	6677	71	6879 - 6882	168	6879 - 6882	168
4576	QF9	5054-12	QF8	5214	QF4	5481-M6	QF8	5632	QF4	6477	129	6678	88	6886	166	6886	166
4581	QF9	5054-14	QF8	5215	QF4	5481-M7	QF8	5633	QF4	6478	130	6679	163	6888	168	6888	168
4590	QF9	5054-17	QF8	5216	QF4	5481-M8	QF8	5634	QF4	6502	157	6680	69	6889	166	6889	166
4591	QF9	5054-19	QF8	5217	QF4	5481-M10	QF8	5635	QF4	6508	55	6682	120	6890	166	6890	166
4592	QF9	5054-21	QF8	5218	QF4	5481-M12	QF8	5636	QF4	6509	55	6683	68	6891	166	6891	166
4593	QF9	5054-22	QF8	5219	QF4	5481-M14	QF8	5638	QF4	6510	55	6684	60	6892	166	6892	166
4595	QF9	5054-23	QF8	5221	QF4	5481-M17	QF8	5640	QF4	6511	55	6685	96	6893	166	6893	166
4596	QF9	5054-24	QF8	5222	QF4	5481-M19	QF8	5641	QF4	6512	55	6686	108	6894	163	6894	163
4597	QF9	5054-M16	QF8	5224	QF4	5482-M4	QF8	5646	QF4	6513	55	6687	104	6895	158	6895	158
4598	QF9	5054-M18	QF8	5227	QF4	5482-M5	QF8	5648	QF								

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