

Allen keys, spanners 1000 V

T-Handle socket wrenches 1000 V

chrome vanadium steel, full insulated, for hexagon nuts, DIN 7440, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2004



Art. no.	WS	BL	handle	kg	PU
110000	10	200	160	0,300	1
110002	11	200	160	0,315	1
110004	12	200	160	0,320	1
110006	13	200	160	0,320	1
110008	14	200	160	0,426	1
110010	17	200	160	0,401	1
110012	19	200	160	0,430	1
110022	11	300	160	0,429	1
110024	12	300	160	0,375	1
110026	13	300	160	0,380	1
110028	14	300	160	0,385	1
110030	17	300	160	0,534	1
110032	19	300	160	0,556	1
110034	22	300	160	0,662	1
110036	24	300	160	0,990	1

Cross type socket wrenches 1000 V

chrome vanadium steel, no contact with steel insert, full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2004



Art. no.	WS	BL	kg	PU
110070	10-11-14-17	200	0,451	1
110074	11-12-13-17	200	0,225	1
110076	10-13-14-17	200	0,455	1
110078	11-13-14-17	200	0,449	1
110080	13-17-19-22	200	0,502	1

Counter hold spanners 1000 V

chrome vanadium steel (31 CrV 3), 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2004



Art. no.	WS	TL	kg	PU
110081	10	200	0,118	1
110083	12	200	0,120	1
110084	13	200	0,140	1
110085	14	250	0,150	1
110087	16	260	0,249	1
110089	17	270	0,255	1
110091	18	265	0,250	1
110093	19	270	0,275	1
110095	20	275	0,300	1
110097	22	275	0,300	1
110099	24	270	0,350	1

Right angle allen keys 1000 V

chrome vanadium steel, for hexagon socket screws, full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2004



Art. no.	WS	kg	PU
110042	3	0,016	1
110044	4	0,029	1
110046	5	0,045	1
110048	6	0,051	1
110050	8	0,103	1
110052	10	0,220	1
110054	12	0,352	1

T-handle allen keys 1000 V

chrome vanadium steel, for screws with hexagon inserts, full insulated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2004



Art. no.	WS	kg	PU
110060	5	0,222	1
110062	6	0,227	1
110064	8	0,224	1

Single ended spanners 1000 V

chrome vanadium steel, full insulated, offset at 15°, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2004



Art. no.	WS	TL	strength	kg	PU
110260	6	75	3	0,021	1
110262	7	80	3,5	0,020	1
110264	8	85	3,5	0,032	1
110266	9	100	4	0,035	1
110268	10	120	5	0,035	1
110270	11	130	5,5	0,044	1
110272	12	140	5,5	0,064	1
110274	13	155	6	0,061	1
110276	14	170	6	0,084	1
110278	17	185	6,5	0,121	1
110280	19	210	7,5	0,140	1
110282	22	230	8,5	0,215	1
110284	24	250	9,5	0,242	1
110286	27	290	11,5	0,338	1
110288	30	345	13	0,390	1
110290	32	350	15	0,503	1

Allen keys, spanners 1000 V



Ring spanners 1000 V

chrome vanadium steel, full insulated, offset at 75°, 2-coloured coating-insulation - inside yellow/outside red



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Art. no.	WS	TL	kg	PU
110300	6	140	0,061	1
110302	7	140	0,066	1
110304	8	150	0,084	1
110306	9	155	0,066	1
110308	10	160	0,092	1
110310	11	170	0,089	1
110312	12	180	0,130	1
110314	13	195	0,132	1
110316	14	205	0,147	1
110318	17	240	0,233	1
110320	19	260	0,236	1
110322	22	280	0,345	1
110324	24	280	0,357	1

Ratchet ring spanners 1000 V

full insulated, 2-coloured coating-insulation - inside yellow/outside red

⚠ 1000 V IEC 60900:2004



72 sprockets

Art. no.	WS	kg	PU
110870	8	0,032	1
110872	9	0,040	1
110874	10	0,050	1
110876	11	0,059	1
110878	12	0,065	1
110880	13	0,076	1
110882	14	0,086	1
110884	15	0,105	1
110886	16	0,130	1
110888	17	0,161	1
110890	18	0,179	1
110892	19	0,215	1

Adjustable wrenches to DIN 3117 A 1000 V

steel forged, 2-coloured coating-insulation - inside yellow/outside red

⚠ 1000 V IEC 60900:2004



Art. no.	WS max.	TL	kg	PU
110555	26	200	0,325	1
110556	31	250	0,512	1
110557	36	300	0,809	1

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Reversible ratchets, torque wrenches, extensions

Reversible ratchet 1000 V

1/4"

full insulated, 2-coloured coating-insulation - inside yellow/outside red

⚠ 1000 V IEC 60900:2004



Art. no.	drive	TL	kg	PU
110810	1/4"	135	0,122	1

Torque wrench 1000 V

1/4"

reversible ratchet system, fully insulated, 2-coloured coating-insulation - inside yellow/outside red

⚠ 1000 V IEC 60900:2004



Art. no.	drive	torque	TL	kg	PU
110812	1/4"	2-12	200	0,250	1

Socket T-wrench 1000 V

1/4"

chrome vanadium steel, tempered, with locking device against accidental loosening of sockets or extensions, full insulated, 2-coloured coating-insulation - inside yellow/outside red

⚠ 1000 V IEC 60900:2004



Art. no.	drive	TL	kg	PU
110818	1/4"	115	0,156	1

Extensions 1000 V

1/4"

with locking device against accidental loosening of sockets or extensions, full insulated, 2-coloured coating-insulation - inside yellow/outside red

⚠ 1000 V IEC 60900:2004



Art. no.	drive	TL	kg	PU
110814	1/4"	75	0,043	1
110816	1/4"	125	0,054	1

Extension 1000 V

1/4"

fully insulated, 2-coloured coating-insulation - inside yellow/outside red

⚠ 1000 V IEC 60900:2004



Art. no.	bit adapter	drive	TL	kg	PU
110860	1/4"	1/4"	40	0,023	1

Hexagon sockets 1000 V

1/4"

fully insulated, 2-coloured coating-insulation - inside yellow/outside red

⚠ 1000 V IEC 60900:2004



Art. no.	WS	drive	TL	kg	PU
110820	5	1/4"	25	0,012	1
110822	6	1/4"	25	0,012	1
110824	7	1/4"	25	0,014	1
110826	8	1/4"	25	0,011	1
110828	9	1/4"	25	0,016	1
110830	10	1/4"	25	0,014	1
110832	11	1/4"	25	0,020	1
110834	12	1/4"	25	0,021	1
110836	13	1/4"	25	0,021	1
110838	14	1/4"	25	0,034	1

Inserts for hexagon socket screws 1000 V

1/4"

fully insulated, 2-coloured coating-insulation - inside yellow/outside red

⚠ 1000 V IEC 60900:2004



Art. no.	WS	drive	kg	PU
110840	3	1/4"	0,010	1
110842	4	1/4"	0,014	1
110844	5	1/4"	0,014	1
110846	6	1/4"	0,015	1
110848	8	1/4"	0,021	1

Handles with bit adapter 1000 V

1/4"

fully insulated, 2-coloured coating-insulation - inside yellow/outside red



⚠ 1000 V IEC 60900:2004

Art. no.	bit adapter	drive	TL	kg	PU
110864	1/4"	1/4"	120	0,160	1
110866	1/4"	1/4"	160	0,248	1
110868	1/4"	1/4"	250	0,310	1

See page 195 for bits.



Reversible ratchets, torque wrenches, extensions

Reversible ratchet 1000 V

3/8"

full insulated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2004



Art. no.	drive	TL	kg	PU
220410	3/8"	200	0,300	1

Fittings for hexagon socket screws 1000 V

3/8"

3/8" square drive, 4 edge drive, made of chrome vanadium steel, forged, oil hardened, full insulated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2004



Art. no.	WS	drive	TL	kg	PU
220434	4	3/8"	60,0	0,036	1
220436	5	3/8"	60,0	0,040	1
220438	6	3/8"	60,0	0,041	1
220440	8	3/8"	60,0	0,042	1

Socket T-wrench 1000 V

3/8"

chrome vanadium steel, tempered, with locking device against accidental loosening of sockets or extensions, full insulated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2004



Art. no.	drive	TL	kg	PU
220412	3/8"	200	0,241	1

Extensions 1000 V

3/8"

with locking device against accidental loosening of sockets or extensions, full insulated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2004



Art. no.	drive	TL	kg	PU
220414	3/8"	125	0,150	1
220416	3/8"	250	0,250	1

Tool case 1000 V

3/8"

made of plastic, complete with 3/8" tools. The plastic material used for socket sets is guaranteed to pass -40°C impact tests. This guarantee that the insulation value will not be compromised due to impact. Dimension: 286 x 255 x 54 mm.

Contents:

- Reversible ratchet 200 mm, 3/8"
- T-slip-on-keys 200 mm, 3/8"
- Extension 150 und 250 mm, 3/8"
- Sockets 3/8", 8, 10, 12, 13, 14, 17, 19, 22 mm
- Dies for hexagon screws 3/8", 4, 5, 6, 8 mm



1000 V IEC 60900:2004



Video



Art. no.	drive	kg	PU
220402	3/8"	2,500	1

16-pieces

Hexagon sockets 1000 V

3/8"

3/8" square drive, 4 edge drive, full insulated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2004



Art. no.	WS	drive	TL	kg	PU
220418	8	3/8"	44,5	0,027	1
220420	10	3/8"	44,5	0,027	1
220422	12	3/8"	44,5	0,029	1
220424	13	3/8"	44,5	0,032	1
220426	14	3/8"	44,5	0,035	1
220428	17	3/8"	44,5	0,047	1
220430	19	3/8"	46,0	0,051	1
220432	22	3/8"	46,0	0,063	1

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Torque wrenches, extensions, hexagon sockets

Reversible ratchet 1000 V

3/8"

full insulated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2004



Art. no.	drive	TL	kg	PU
110331/EN	3/8"	190	0,402	1

Locked torque wrench 1000 V

3/8"

reversible ratchet system, **fixed factory-provided valve**, possible valve between 5-27 Nm, **valve must be indicate before delivery**, full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2004



Art. no.	drive	torque	TL	kg	PU
300310/EN	3/8"	5-27	280	0,951	1

Torque wrenches 1000 V

3/8"

reversible ratchet system, fully insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2004



Art. no.	drive	torque	TL	kg	PU
110055/EN	3/8"	5-25	200	0,350	1
110056/EN	3/8"	5-25	280	0,920	1
110065/EN	3/8"	5-50	370	1,194	1

Socket T-wrench 1000 V

3/8"

chrome vanadium steel, tempered, with locking device against accidental loosening of sockets or extensions, full insulated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2004



Art. no.	WS	BL	handle	kg	PU
110039/EN	3/8"	200	160	0,369	1

Extensions 1000 V

3/8"

with locking device against accidental loosening of sockets or extensions, full insulated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2004



Art. no.	drive	TL	kg	PU
110337/EN	3/8"	125	0,292	1
110335/EN	3/8"	250	0,280	1

Extensions with bit adapter 1000 V

3/8"

full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2004



Art. no.	bit adapter	drive	TL	kg	PU
110861	1/4"	3/8"	125	0,137	1

Hexagon sockets 1000 V

3/8"

3/8" square drive, 4 edge drive, full insulated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2004



Art. no.	WS	drive	TL	kg	PU
110363/EN	8	3/8"	40	0,035	1
110364/EN	9	3/8"	40	0,032	1
110365/EN	10	3/8"	40	0,036	1
110366/EN	11	3/8"	40	0,037	1
110367/EN	13	3/8"	40	0,032	1
110368/EN	17	3/8"	40	0,050	1
110369/EN	19	3/8"	40	0,060	1
110371/EN	14	3/8"	40	0,070	1
110700/EN	12	3/8"	40	0,070	1
110702/EN	22	3/8"	40	0,061	1

Fittings for hexagon socket screws 1000 V

3/8"

3/8" square drive, 4 edge drive, made of chrome vanadium steel, forged, oil hardened, full insulated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2004



Art. no.	WS	drive	TL	kg	PU
300302/EN	4	3/8"	65	0,068	1
300296/EN	5	3/8"	65	0,065	1
300298/EN	6	3/8"	65	0,068	1
300299/EN	8	3/8"	65	0,070	1
300305/EN	10	3/8"	65	0,082	1

Torque stoppers 1000 V

3/8"

with short extension, locable for all sockets with 3/8" drive, full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2004



Art. no.	drive	torque	kg	PU
110456/EN	3/8"	-12	0,220	1
110457/EN	3/8"	-18	0,220	1
110458/EN	3/8"	-25	0,224	1

See page 166 for 1000 V socket wrench sets.



Torque wrench, extensions, hexagon sockets

Reversible ratchet 1000 V

1/2"

full insulated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2004



Art. no.	drive	TL	kg	PU
220450	1/2"	250	0,550	1

Socket T-wrench 1000 V

1/2"

chrome vanadium steel, tempered, with locking device against accidental loosening of sockets or extensions, full insulated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2004



Art. no.	drive	TL	kg	PU
220452	1/2"	200	0,330	1

Extensions 1000 V

1/2"

with locking device against accidental loosening of sockets or extensions, full insulated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2004



Art. no.	drive	TL	kg	PU
220454	1/2"	125	0,208	1
220456	1/2"	250	0,411	1

Hexagon sockets 1000 V

1/2"

3/8" square drive, 4 edge drive, full insulated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2004



Art. no.	WS	drive	TL	kg	PU
220458	10	1/2"	55,0	0,055	1
220460	11	1/2"	55,0	0,055	1
220462	12	1/2"	55,0	0,058	1
220464	13	1/2"	55,0	0,058	1
220466	14	1/2"	55,0	0,061	1
220468	17	1/2"	55,0	0,069	1
220470	19	1/2"	57,0	0,072	1
220478	22	1/2"	57,0	0,087	1
220480	24	1/2"	57,0	0,095	1
220482	27	1/2"	57,0	0,125	1
220484	32	1/2"	57,0	0,170	1

Fittings for hexagon socket screws 1000 V

1/2"

3/8" square drive, 4 edge drive, made of chrome vanadium steel, forged, oil hardened, full insulated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2004



Art. no.	WS	drive	TL	kg	PU
220486	4	1/2"	120,0	0,113	1
220488	5	1/2"	120,0	0,113	1
220490	6	1/2"	120,0	0,113	1
220492	8	1/2"	120,0	0,115	1
220494	10	1/2"	120,0	0,134	1

Tool case 1000 V

1/2"

made of plastic, complete with 1/2" tools. The plastic material used for socket sets is guaranteed to pass -40°C impact tests. This guarantee that the insulation value will not be compromised due to impact. Dimension: 380 x 316 x 61 mm.

Contents:

- Reversible ratchet 250 mm, 1/2"
- T-slip-on-keys 200 mm, 1/2"
- Extension 125 und 250 mm, 1/2"
- Sockets 1/2", 10, 11, 12, 13, 14, 17, 19, 22, 24, 27, 32 mm
- Dies for hexagon screws 1/2", 4, 5, 6, 8, 10 mm



1000 V IEC 60900:2004



Video



Art. no.	drive	kg	PU
220404	1/2"	4,000	1

20-pieces

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Torque wrenches, extensions, hexagon sockets

Reversible ratchet 1000 V

1/2"

full insulated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2004



Art. no.	drive	TL	kg	PU
110332/EN	1/2"	255	0,687	1

Locked torque wrench 1000 V

1/2"

reversible ratchet system, **fixed factory-provided valve**, possible valve between 5-27 Nm, **valve must be indicated before delivery**, full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2004



Art. no.	drive	torque	TL	kg	PU
300312/EN	1/2"	5-27	280	1,052	1

Torque wrenches 1000 V

1/2"

reversible ratchet system, fully insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2004



Art. no.	drive	torque	TL	kg	PU
110058/EN	1/2"	2-50	280	1,034	1
110066/EN	1/2"	5-50	370	1,121	1
110067/EN	1/2"	20-100	460	1,493	1
110068/EN	1/2"	60-220	530	1,300	1

Socket T-wrench 1000 V

1/2"

chrome vanadium steel, tempered, with locking device against accidental loosening of sockets or extensions, full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2004



Art. no.	WS	BL	handle	kg	PU
110040/EN	12,5	200	160	0,457	1

Extensions 1000 V

1/2"

with locking device against accidental loosening of sockets or extensions, full insulated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2004



Art. no.	drive	TL	kg	PU
110336/EN	1/2"	125	0,197	1
110338/EN	1/2"	250	0,389	1

Extensions with bit adapter 1000 V

1/2"

full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2004



Art. no.	bit adapter	drive	TL	kg	PU
110862	1/4"	1/2"	250	0,165	1

Hexagon sockets 1000 V

1/2"

1/2" square drive, 4 edge drive, full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2004



Art. no.	WS	drive	TL	kg	PU
110339/EN	8	1/2"	50	0,080	1
110340/EN	10	1/2"	50	0,056	1
110342/EN	11	1/2"	50	0,062	1
110344/EN	12	1/2"	50	0,062	1
110346/EN	13	1/2"	50	0,066	1
110348/EN	14	1/2"	50	0,063	1
110350/EN	17	1/2"	50	0,076	1
110352/EN	19	1/2"	50	0,072	1
110354/EN	22	1/2"	50	0,104	1
110356/EN	24	1/2"	50	0,141	1
110358/EN	27	1/2"	50	0,191	1
110360/EN	30	1/2"	50	0,224	1
110362/EN	32	1/2"	50	0,268	1

Hexagon sockets DIN 7448, extra long, 1000 V

1/2"

extra long, 1/2" square drive, 4 edge drive, full insulated, 2-coloured coating-insulation - inside yellow/outside red

1000 V IEC 60900:2004



Art. no.	WS	drive	TL	kg	PU
110373/EN	10	1/2"	80	0,085	1
110374/EN	11	1/2"	80	0,110	1
110375/EN	13	1/2"	80	0,123	1
110376/EN	14	1/2"	80	0,119	1
110377/EN	17	1/2"	80	0,157	1
110378/EN	19	1/2"	80	0,168	1
110379/EN	22	1/2"	80	0,230	1

Fittings for hexagon socket screws 1000 V

1/2"

1/2" square drive, 4 edge drive, made of chrome vanadium steel, forged, oil hardened, full insulated, 2-coloured coating-insulation - inside yellow/outside red



1000 V IEC 60900:2004



Art. no.	WS	drive	TL	kg	PU
300294/EN	4	1/2"	70	0,094	1
300297/EN	5	1/2"	70	0,096	1
300295/EN	6	1/2"	70	0,101	1
300303/EN	8	1/2"	70	0,100	1
300306/EN	10	1/2"	70	0,106	1

See page 166 for 1000 V socket wrench sets.

Safety tools

Alignment tool, 3/8" 1000 V

3/8"

3/8" drive, for the alignment of 3 or 4-wire sector conductors, made from impact-resistant plastic



Art. no.	size	kg	PU
110704	95 - 150 mm ²	0,068	1
110705	185 - 240 mm ²	0,088	1

Holding device 1000 V

For the easier handling of screwed connections when assembling coupling sleeves, variably adjustable

1000 V IEC 60900:2004



Art. no.	TL	kg	PU
120103	220	0,424	1

Plastic wedges 1000 V

with bright slot for all common cable cutters, oval form without sharp edges

1000 V IEC 60900:2004



Art. no.	material	TL	width	kg	PU
120102	plastic	22,5	4,5	0,234	1

Wedges 1000 V

without slot, oval form without sharp edges, long version with large head

1000 V IEC 60900:2004



Art. no.	material	TL	width	kg	PU
120100	plastic	20	2,5	0,085	1

Wedges

wood or plastic, dimension: 16.3 x 3.7 mm



Art. no.	size	type	material	kg	PU
120094	1	without	plastic	0,051	1
120097	2	with	plastic	0,074	1
120098	1	without	wood	0,043	1
120099	2	with	wood	0,043	1

Cleaning brushes Safety Line

PVC-pattern

1000 V



Art. no.	TL	width	kg	PU
150036	420	25	0,053	1
150037	420	28	0,061	1
150038	420	50	0,100	1

Electrician's safety levels

nonconducting plastic material, with 2 tubes horizontal and vertical



Art. no.	TL	kg	PU
240057	400	0,188	1
240058	600	0,274	1

PVC hammer 1000 V

Bounce-free, head of polyethylen, break-, wear- and splinter-proof, heads interchangeable

1000 V IEC 60900:2004



Art. no.	TL	Ø	kg	PU
180295	290	25	0,570	1
180297	290	35	0,825	1

Combined dowel and contact spanners

may be used for screws 2 - 63 A by changing the insert, handle made from insulating material



Art. no.	TL	kg	PU
120002	105	0,046	1

Insulated tweezers VDE 1000 V

austenitic steel, pointed, PVC-insulated



1000 V IEC 60900:2004



Art. no.	TL	kg	PU
211060	130	0,029	1

Insulated tweezers VDE 1000 V

austenitic steel, pointed round, bent, PVC-insulated



1000 V IEC 60900:2004



Art. no.	TL	kg	PU
211062	150	0,031	1

Insulated tweezers VDE 1000 V

austenitic steel, wide round, flat, PVC-insulated



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Art. no.	TL	kg	PU
211064	145	0,042	1

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