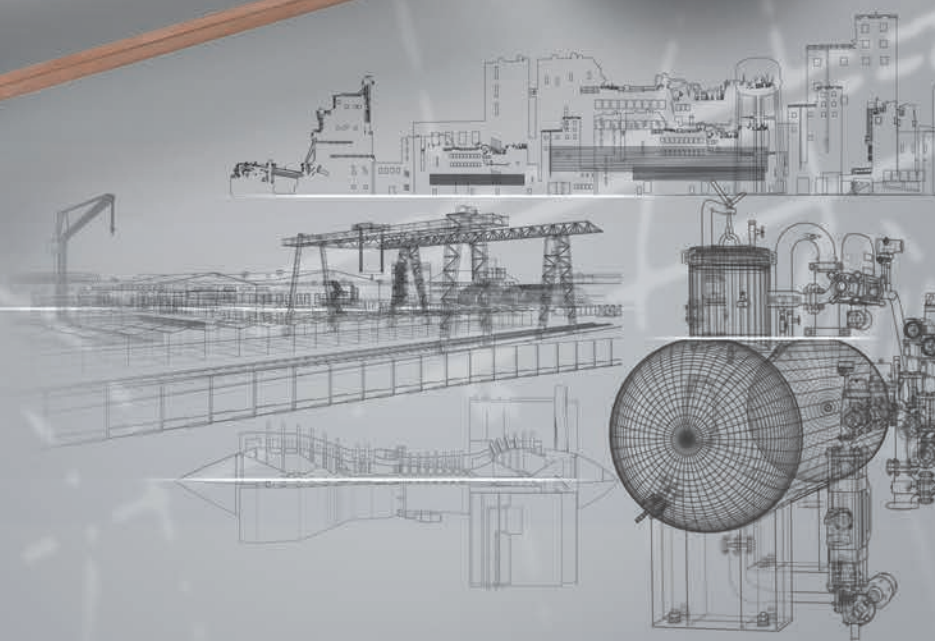


NON SPARKING TOOLS 10



Innovation is
our mission!

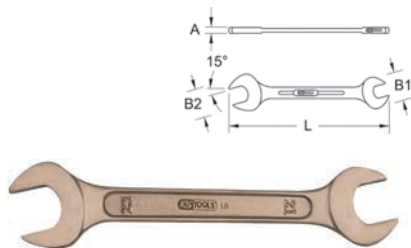


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NON SPARKING OPEN ENDED SPANNER

BRONZE^{plus} double open ended spanner

- In accordance to DIN 895 / ISO 3318 / ISO 1085
- Jaw 15° offset
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	L mm	A mm	B1 mm	B2 mm	
963.7005	6x7	125,0	6,0	15,0	17,0	0,03
963.7006	6x8	125,0	6,0	15,0	17,0	0,03
963.7007	7x8	125,0	6,0	19,0	22,0	0,03
963.7008	7x9	125,0	6,0	19,0	22,0	0,04
963.7009	8x9	125,0	6,0	19,0	22,0	0,04
963.7010	8x10	125,0	6,0	19,0	22,0	0,06
963.7011	9x10	125,0	6,0	19,0	22,0	0,06
963.7012	9x11	140,0	7,0	22,0	27,0	0,09
963.7013	10x11	140,0	7,0	22,0	27,0	0,09
963.7014	10x12	140,0	7,0	22,0	27,0	0,06
963.7015	10x13	140,0	7,0	22,0	27,0	0,08
963.7016	10x14	160,0	7,5	27,0	30,0	0,18
963.7017	11x13	160,0	7,5	27,0	30,0	0,18
963.7018	11x14	160,0	7,5	27,0	30,0	0,18
963.7019	12x13	160,0	7,5	27,0	30,0	0,18
963.7020	12x14	160,0	7,5	27,0	30,0	0,17
963.7021	16x15	160,0	7,5	27,0	30,0	0,17
963.0045	13x17	140,0	9,5	30,0	36,0	0,11
963.7022	14x15	200,0	8,0	30,0	36,0	0,11
963.7023	14x16	200,0	8,0	30,0	36,0	0,22
963.7024	14x17	200,0	8,0	30,0	36,0	0,22
963.7025	16x17	200,0	8,0	35,0	38,0	0,21
963.7026	16x18	200,0	8,0	35,0	38,0	0,21
963.7027	17x19	225,0	10,0	35,0	38,0	0,35
963.0046	17x21	190,0	10,0	39,0	44,0	0,19
963.7028	17x22	225,0	10,0	39,0	44,0	0,32
963.7029	18x19	225,0	10,0	39,0	44,0	0,32
963.7030	18x20	225,0	10,0	39,0	44,0	0,31
963.7031	18x21	225,0	10,0	39,0	44,0	0,30
963.0047	19x21	190,0	10,0	39,0	44,0	0,21
963.7032	19x22	240,0	11,0	39,0	44,0	0,44
963.7033	19x24	240,0	11,0	44,0	48,0	0,42
963.7034	20x22	240,0	11,0	44,0	48,0	0,44
963.7035	21x23	240,0	11,0	44,0	48,0	0,42
963.7036	22x24	240,0	11,0	44,0	48,0	0,42
963.7037	22x27	270,0	12,0	48,0	54,0	0,73
963.7038	23x26	270,0	12,0	48,0	54,0	0,73
963.7039	24x26	270,0	12,0	48,0	54,0	0,73
963.7040	24x27	270,0	12,0	48,0	54,0	0,73
963.7041	24x30	270,0	13,0	54,0	60,0	0,70
963.7042	25x28	270,0	13,0	54,0	60,0	0,70
963.7043	26x29	270,0	13,0	54,0	60,0	0,70
963.0048	26x32	260,0	14,0	59,0	62,0	0,47
963.7044	27x29	300,0	13,0	54,0	60,0	0,81
963.7045	27x30	300,0	13,0	54,0	60,0	0,80
963.7046	27x32	300,0	14,0	59,0	62,0	0,80
963.7047	30x32	300,0	14,0	59,0	62,0	0,78
963.7048	30x34	320,0	16,0	70,0	75,0	1,24
963.7049	30x36	320,0	16,0	70,0	75,0	1,22
963.7050	32x34	320,0	16,0	70,0	75,0	1,20
963.7051	32x36	320,0	16,0	70,0	75,0	1,14
963.7052	34x36	320,0	16,0	70,0	75,0	1,10
963.7053	35x38	370,0	16,0	75,0	88,0	1,48
963.7054	36x41	370,0	16,0	75,0	88,0	1,48
963.7055	41x46	370,0	18,0	85,0	100,0	1,45
963.7056	46x50	390,0	19,0	95,0	105,0	1,40
963.7057	50x55	440,0	20,0	100,0	115,0	1,70
963.7058	50x60	440,0	22,0	110,0	125,0	1,70
963.7059	55x60	470,0	22,0	110,0	125,0	1,80
963.7060	60x65	470,0	22,0	125,0	135,0	1,80
963.7061	65x70	630,0	24,0	130,0	145,0	3,50
963.7062	70x80	630,0	24,0	140,0	155,0	3,40
963.7063	75x80	630,0	24,0	150,0	165,0	3,30

	mm	L mm	A mm	B1 mm	B2 mm	
963.7065	7/32x1/4"	125,0	6,0	15,0	17,0	0,03
963.7066	1/4x5/16"	125,0	6,0	15,0	17,0	0,03
963.7067	5/16x3/8"	125,0	6,0	19,0	22,0	0,06
963.7068	3/8x7/16"	140,0	7,0	22,0	27,0	0,09
963.7069	7/16x1/2"	140,0	7,0	22,0	27,0	0,04
963.7070	1/2x9/16"	160,0	7,5	27,0	30,0	0,17
963.7071	1/2x9/16"	160,0	7,5	27,0	30,0	0,17
963.7072	1/2x11/16"	200,0	8,0	30,0	36,0	0,22
963.7073	9/16x5/8"	200,0	8,0	30,0	36,0	0,22
963.7074	9/16x3/4"	200,0	8,0	30,0	38,0	0,22
963.7075	19/32x11/16"	200,0	8,0	35,0	38,0	0,22
963.7076	19/32x25/32"	200,0	8,0	35,0	38,0	0,22
963.7077	5/8x11/16"	200,0	8,0	35,0	38,0	0,20
963.7078	5/8x3/4"	225,0	10,0	39,0	44,0	0,31
963.0052	11/16x3/4"	175,0	9,5	39,0	44,0	0,15
963.7079	11/16x25/32"	225,0	10,0	39,0	44,0	0,30
963.7080	11/16x7/8"	225,0	10,0	39,0	44,0	0,30
963.7082	3/4x25/32"	225,0	10,0	39,0	44,0	0,30
963.7083	3/4x13/16"	225,0	10,0	39,0	44,0	0,31
963.7084	3/4x7/8"	225,0	10,0	39,0	44,0	0,31
963.7085	25/32x13/16"	225,0	10,0	39,0	44,0	0,30
963.7086	25/32x7/8"	225,0	10,0	39,0	44,0	0,30
963.7087	13/16x7/8"	225,0	10,0	39,0	44,0	0,30
963.7088	7/8x15/16"	225,0	10,0	39,0	44,0	0,30
963.7089	7/8x31/32"	240,0	10,0	44,0	48,0	0,40
963.7090	7/8x1"	240,0	10,0	44,0	48,0	0,40
963.7091	7/8x1.1/16"	270,0	12,0	48,0	54,0	0,72
963.7092	15/16x1"	270,0	12,0	48,0	54,0	0,72
963.7093	15/16x1.1/16"	270,0	12,0	48,0	54,0	0,72
963.0053	1/1.1/16"	235,0	12,0	48,0	54,0	0,35
963.7094	1x1.1/8"	270,0	12,0	48,0	54,0	0,70
963.7095	1x1.5/16"	300,0	14,0	59,0	62,0	0,75
963.0054	1.1/16x1.1/8"	245,0	13,0	48,0	54,0	0,49
963.7096	1.1/16x1.1/4"	300,0	14,0	59,0	62,0	0,75
963.7098	1.1/16x1.7/16"	320,0	16,0	70,0	75,0	1,22
963.0055	1.1/8x1.3/16"	260,0	14,0	59,0	62,0	0,60
963.7097	1.1/8x1.5/16"	300,0	14,0	59,0	62,0	0,75
963.7099	1.1/8x1.1/2"	320,0	16,0	70,0	75,0	1,15
963.0056	1.3/16x1.1/4"	260,0	14,0	75,0	88,0	0,61
963.7100	1.1/4x1.3/8"	320,0	16,0	70,0	75,0	1,15
963.7101	1.1/4x1.7/16"	320,0	16,0	70,0	75,0	1,15
963.7102	1.5/16x1.1/2"	370,0	16,0	75,0	88,0	1,48
963.7103	1.1/4x1.5/8"	370,0	16,0	75,0	88,0	1,40
963.7104	1.3/8x1.1/2"	370,0	16,0	75,0	88,0	1,40
963.7105	1.7/16x1.5/8"	370,0	16,0	75,0	88,0	1,40
963.7106	1.1/2x1.11/16"	370,0	16,0	75,0	88,0	1,40
963.7107	1.5/8x1.1/4"	370,0	16,0	75,0	88,0	1,40
963.7108	1.5/8x1.3/4"	370,0	16,0	75,0	88,0	1,35
963.7109	1.11/16x1.7/8"	370,0	18,0	85,0	100,0	1,35
963.7110	1.11/16x2"	390,0	19,0	95,0	105,0	1,70
963.7111	1.13/16x2"	390,0	19,0	95,0	105,0	1,70
963.7112	1.3/4x2.1/16"	390,0	19,0	95,0	105,0	1,70
963.7113	2x2.3/16"	440,0	20,0	100,0	115,0	1,70
963.7114	2x2.5/16"	440,0	20,0	100,0	115,0	1,70
963.7115	2.3/16x2.3/8"	470,0	22,0	110,0	125,0	1,80
963.7116	2.1/4x2.3/8"	470,0	22,0	110,0	125,0	1,80

BRONZE^{plus} double open ended spanner set

- In accordance to DIN 895
- Jaw 15° offset
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



963.7064	12 pcs	6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 - 21x23 - 24x26 - 25x28 - 30x32 mm	3,50
963.7117	8 pcs	1/4x5/16 - 3/8x7/16 - 7/16x1/2 - 1/2x9/16 - 9/16x5/8 - 5/8x11/16 - 3/4x7/8 - 15/16x1"	1,70

BRONZE^{plus} Double open ended spanner

- Jaw 15° and 75° offset
- Both jaws the same size
- Extra flat heads
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	A mm	B mm	L mm	
963.7118	4	6,0	12,0	70,0	30
963.7119	4,5	6,0	12,0	70,0	30
963.7120	5	6,0	15,0	78,0	30
963.7121	5,5	6,0	15,0	78,0	10
963.7122	6	6,0	15,0	78,0	10
963.7123	7	6,0	19,0	91,0	10
963.7124	8	6,0	19,0	96,0	50
963.7125	9	6,0	22,0	103,0	60
963.7126	10	6,0	22,0	105,0	20
963.7127	11	7,0	25,0	116,0	20
963.7128	12	7,0	25,0	116,0	80
963.7129	13	7,0	30,0	131,0	110
963.7130	14	8,0	30,0	131,0	110

BRONZE^{plus} Double open ended spanner-set

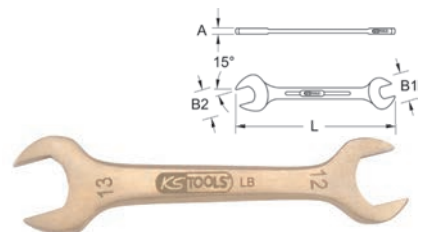
- Jaw 15° and 75° offset
- Both jaws the same size
- Extra flat heads
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



963.7131	10 pcs	5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm	180

BRONZE^{plus} Double open ended spanner

- Jaw 15° offset
- Extra flat heads
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

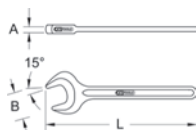


	 mm	A mm	B1 mm	B2 mm	L mm	
963.7132	3x3,5	5,0	9,0	12,0	50,0	20
963.7133	4x4,5	5,0	12,0	14,0	60,0	20
963.7134	5x5,5	6,0	12,0	14,0	70,0	20
963.7135	6x7	6,0	14,0	16,0	80,0	30
963.7136	8x9	6,0	17,0	20,0	90,0	10
963.7137	10x11	6,0	20,0	22,0	100,0	60

		A mm	B1 mm	B2 mm	L mm	
963.7138	5/32x3/16"	5,0	12,0	14,0	60,0	20
963.7139	3/16x7/32"	6,0	12,0	14,0	70,0	20
963.7140	1/4x9/32"	6,0	14,0	16,0	80,0	30
963.7141	1/4x5/16"	6,0	14,0	16,0	80,0	30
963.7142	5/16x11/32"	6,0	17,0	20,0	90,0	10
963.7143	5/16x3/8"	6,0	17,0	20,0	90,0	10
963.7144	5/16x13/32"	6,0	20,0	22,0	100,0	40
963.7145	3/8x7/16"	6,0	20,0	22,0	100,0	60

BRONZE^{plus} open ended spanner

- In accordance to DIN 894 / ISO 3380
- Jaw 15° offset
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



		A mm	B mm	L mm	
963.7146	6	6,0	21,0	90,0	0,05
963.7147	7	6,0	21,0	90,0	0,05
963.7148	8	6,0	21,0	90,0	0,05
963.7149	9	6,0	21,0	90,0	0,05
963.7150	10	7,0	28,0	100,0	0,06
963.7151	11	7,0	28,0	100,0	0,08
963.7152	12	7,0	33,0	140,0	0,07
963.7153	13	7,0	33,0	140,0	0,04
963.7154	14	8,0	40,0	165,0	0,08
963.7155	15	8,0	40,0	145,0	0,12
963.7156	16	8,0	40,0	165,0	0,07
963.7157	17	8,0	40,0	165,0	0,07
963.7158	18	8,0	40,0	165,0	0,07
963.7159	19	10,0	44,0	190,0	0,10
963.7160	20	10,0	44,0	190,0	0,14
963.7161	21	12,0	46,0	205,0	0,14
963.7162	22	12,0	46,0	205,0	0,13
963.7163	23	14,0	52,0	220,0	0,17
963.7164	24	14,0	52,0	220,0	0,17
963.7165	25	14,0	57,0	220,0	0,16
963.7166	26	14,0	57,0	220,0	0,16
963.7167	27	14,0	57,0	220,0	0,15
963.7168	28	15,0	63,0	250,0	0,27
963.7169	29	15,0	63,0	250,0	0,26
963.7170	30	15,0	63,0	250,0	0,25
963.7171	32	16,0	69,0	285,0	0,34
963.7172	33	16,0	69,0	285,0	0,34
963.7173	34	17,0	75,0	285,0	0,32
963.7174	35	17,0	75,0	285,0	0,32
963.7175	36	17,0	75,0	285,0	0,30
963.7176	37	17,0	75,0	285,0	0,30
963.7177	38	18,0	86,0	330,0	0,54
963.7178	41	18,0	86,0	330,0	0,52
963.7179	42	18,0	86,0	330,0	0,50
963.7180	46	21,0	95,0	360,0	0,65
963.7181	47	21,0	95,0	360,0	0,63
963.7182	50	22,0	105,0	440,0	1,10
963.7183	52	22,0	105,0	440,0	1,10
963.7184	54	23,0	117,0	440,0	1,05
963.7185	55	23,0	117,0	440,0	1,05
963.7186	56	23,0	117,0	440,0	1,00
963.7187	58	23,0	125,0	480,0	2,00
963.7188	60	23,0	125,0	480,0	1,95
963.7189	63	24,0	135,0	520,0	1,70
963.7190	65	24,0	135,0	520,0	1,70
963.7191	67	25,0	145,0	520,0	1,70
963.7192	70	25,0	145,0	540,0	1,90
963.7193	71	25,0	145,0	540,0	1,90
963.7194	75	25,0	155,0	540,0	1,80
963.7195	77	25,0	155,0	540,0	1,80

		A mm	B mm	L mm	
963.7196	80	27,0	165,0	630,0	2,90
963.7197	82	27,0	165,0	630,0	2,80
963.7198	85	29,0	175,0	680,0	3,40
963.7199	88	30,0	185,0	680,0	3,30
963.7200	90	30,0	185,0	680,0	3,20
963.7201	94	32,0	195,0	830,0	5,00
963.7202	95	32,0	195,0	830,0	4,80
963.7203	100	32,0	209,0	800,0	5,90
963.7204	105	33,0	210,0	850,0	8,90
963.7205	110	33,0	230,0	900,0	9,00
963.7206	115	33,0	240,0	950,0	9,30
963.7207	120	35,0	245,0	990,0	9,60
963.7208	125	35,0	250,0	1000,0	8,30
963.7209	130	35,0	270,0	1000,0	8,30
963.7210	135	35,0	275,0	1000,0	8,30

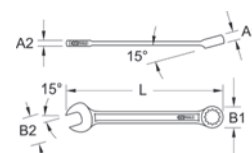


		A mm	B mm	L mm	
963.7211	1/4"	6,0	21,0	90,0	0,05
963.7212	5/16"	6,0	21,0	90,0	0,05
963.7213	11/32"	6,0	21,0	90,0	0,05
963.7214	3/8"	6,0	21,0	90,0	0,05
963.7215	13/32"	7,0	28,0	100,0	0,06
963.7216	7/16"	7,0	28,0	100,0	0,08
963.7217	1/2"	7,0	33,0	140,0	0,04
963.7218	9/16"	8,0	40,0	165,0	0,08
963.7219	19/32"	8,0	40,0	165,0	0,12
963.7220	5/8"	8,0	40,0	165,0	0,07
963.7221	11/16"	8,0	40,0	165,0	0,07
963.7222	3/4"	10,0	44,0	190,0	0,10
963.7223	25/32"	10,0	44,0	190,0	0,14
963.7224	13/16"	12,0	46,0	205,0	0,14
963.7225	7/8"	12,0	46,0	205,0	0,13
963.7226	15/16"	14,0	57,0	220,0	0,17
963.7227	31/32"	14,0	57,0	220,0	0,17
963.7228	1"	14,0	57,0	220,0	0,16
963.7229	1.1/16"	14,0	57,0	220,0	0,15
963.7230	1.1/8"	15,0	63,0	250,0	0,27
963.7231	1.3/16"	15,0	63,0	250,0	0,25
963.7232	1.1/4"	16,0	69,0	285,0	0,34
963.7233	1.5/16"	16,0	69,0	285,0	0,34
963.7234	1.3/8"	17,0	75,0	285,0	0,32
963.7235	1.7/16"	17,0	75,0	285,0	0,30
963.7236	1.1/2"	18,0	86,0	330,0	0,54
963.7237	1.9/16"	18,0	86,0	330,0	0,52
963.7238	1.5/8"	18,0	86,0	330,0	0,52
963.7239	1.11/16"	18,0	86,0	330,0	0,50
963.7240	1.3/4"	21,0	95,0	360,0	0,65
963.7241	1.13/16"	21,0	95,0	360,0	0,65
963.7242	1.7/8"	21,0	95,0	360,0	0,63
963.7243	2"	22,0	105,0	440,0	1,10
963.7244	2.1/16"	22,0	105,0	440,0	1,10
963.7245	2.1/8"	22,0	105,0	440,0	1,05
963.7246	2.3/16"	22,0	105,0	440,0	1,05
963.7247	2.1/4"	23,0	125,0	480,0	1,00
963.7248	2.5/16"	23,0	125,0	480,0	2,00
963.7249	2.3/8"	23,0	125,0	520,0	2,00
963.7250	2.7/16"	24,0	135,0	520,0	1,70
963.7251	2.1/2"	24,0	135,0	520,0	1,70
963.7252	2.9/16"	24,0	135,0	520,0	1,70
963.7253	2.5/8"	24,0	135,0	520,0	1,70
963.7254	2.3/4"	25,0	145,0	540,0	1,90
963.7255	2.13/16"	25,0	145,0	540,0	1,90
963.7256	2.15/16"	25,0	155,0	540,0	1,90
963.7257	3"	25,0	155,0	540,0	1,80
963.7258	3.1/8"	27,0	165,0	630,0	2,90
963.7259	3.1/4"	27,0	165,0	630,0	2,80
963.7260	3.3/8"	30,0	185,0	680,0	3,40
963.7261	3.1/2"	30,0	185,0	680,0	3,30
963.7262	3.5/8"	30,0	185,0	680,0	3,20
963.7263	3.3/4"	32,0	195,0	830,0	5,00
963.7264	3.7/8"	32,0	195,0	830,0	4,80

NON SPARKING COMBINATION SPANNER

BRONZE^{plus} combination spanner, offset

- FlankTraction profile
- DIN 3113 Form A / ISO 3318 / ISO 7738
- Jaw 15° offset
- Ring head 15° offset
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



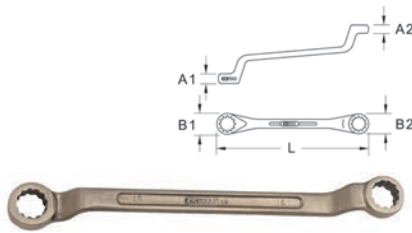
		A1 mm	A2 mm	B1 mm	B2 mm	L mm	
963.7265	6	6,0	5,0	11,0	20,0	130,0	0,05
963.7266	7	6,0	5,0	11,0	20,0	130,0	0,03
963.7267	8	7,0	6,0	15,0	17,0	135,0	0,03
963.7268	9	7,0	6,0	18,0	22,0	150,0	0,05
963.7269	10	7,0	6,0	18,0	22,0	150,0	0,05
963.7270	11	7,0	6,0	18,0	22,0	150,0	0,09
963.7271	12	9,0	7,0	20,0	25,0	190,0	0,17
963.7272	13	10,0	7,0	22,0	32,0	190,0	0,10
963.7273	14	10,0	7,0	22,0	32,0	190,0	0,16
963.7274	15	11,0	8,0	27,0	34,0	210,0	0,23
963.7275	16	11,0	8,0	27,0	34,0	210,0	0,23
963.7276	17	11,0	8,0	27,0	34,0	210,0	0,22
963.7277	18	13,0	9,0	31,0	40,0	230,0	0,33
963.7278	19	13,0	9,0	31,0	40,0	230,0	0,33
963.7279	20	13,0	9,0	31,0	40,0	230,0	0,26
963.7280	21	14,0	9,0	36,0	43,0	250,0	0,36
963.7281	22	14,0	9,0	36,0	43,0	250,0	0,24
963.7282	23	14,0	9,0	36,0	43,0	250,0	0,35
963.7283	24	15,0	10,0	38,0	48,0	270,0	0,50
963.7284	25	15,0	10,0	38,0	48,0	270,0	0,45
963.7285	26	15,0	10,0	38,0	48,0	270,0	0,47
963.7286	27	17,0	13,0	43,0	55,0	280,0	0,43
963.7287	28	17,0	13,0	43,0	55,0	280,0	0,68
963.7288	29	17,0	13,0	43,0	55,0	280,0	0,63
963.7289	30	20,0	13,0	49,0	60,0	300,0	0,73
963.7290	32	22,0	14,0	53,0	64,0	300,0	0,65
963.7291	34	22,0	14,0	53,0	64,0	320,0	0,95
963.7292	36	22,0	14,0	54,0	72,0	330,0	0,93
963.7293	38	23,0	16,0	58,0	82,0	400,0	2,15
963.7294	41	24,0	16,0	61,0	87,0	410,0	2,00
963.7295	46	24,0	18,0	67,0	95,0	410,0	1,90
963.7296	50	27,0	18,0	75,0	100,0	540,0	3,40
963.7297	55	27,0	22,0	90,0	105,0	520,0	3,50
963.7298	60	32,0	27,0	92,0	125,0	515,0	3,30
963.7299	65	34,0	28,0	95,0	140,0	500,0	3,20
963.7300	70	35,0	28,0	100,0	145,0	510,0	3,80
963.7301	75	35,0	29,0	105,0	157,0	680,0	3,90
963.7302	80	36,0	29,0	112,0	165,0	680,0	4,00

		A1 mm	A2 mm	B1 mm	B2 mm	L mm	
963.7322	31/32"	15,0	10,0	38,0	48,0	270,0	0,41
963.7323	1"	15,0	10,0	38,0	48,0	270,0	0,41
963.7324	1.1/16"	17,0	13,0	43,0	55,0	280,0	0,51
963.7325	1.1/8"	17,0	13,0	43,0	55,0	280,0	0,51
963.7326	1.3/16"	22,0	14,0	53,0	64,0	300,0	0,57
963.7327	1.1/4"	22,0	14,0	53,0	64,0	300,0	0,57
963.7328	1.5/16"	22,0	14,0	53,0	64,0	300,0	0,57
963.7329	1.3/8"	22,0	14,0	55,0	72,0	330,0	0,84
963.7330	1.7/16"	22,0	14,0	55,0	72,0	330,0	0,84
963.7331	1.1/2"	22,0	14,0	55,0	72,0	330,0	0,84
963.7332	1.9/16"	24,0	18,0	67,0	95,0	410,0	2,00
963.7333	1.5/8"	24,0	18,0	67,0	95,0	410,0	2,00
963.7334	1.11/16"	24,0	18,0	67,0	95,0	410,0	2,00
963.7335	1.3/4"	24,0	18,0	67,0	95,0	410,0	1,90
963.7336	1.13/16"	24,0	18,0	67,0	95,0	410,0	1,90
963.7337	1.7/8"	27,0	20,0	78,0	100,0	435,0	1,60
963.7338	2"	27,0	20,0	78,0	100,0	435,0	1,60
963.7339	2.1/16"	27,0	20,0	78,0	100,0	435,0	1,60
963.7340	2.1/8"	27,0	22,0	90,0	105,0	455,0	2,00
963.7341	2.3/16"	27,0	22,0	90,0	105,0	455,0	2,00
963.7342	2.1/4"	30,0	25,0	92,0	110,0	475,0	2,50

NON SPARKING RING SPANNERS

BRONZE^{plus} double ring ended spanner

- FlankTraction profile
- In accordance to DIN 838 / ISO 1085 / ISO 10104 / ISO 3318
- Ring head 75° offset
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



		A1 mm	A2 mm	B1 mm	B2 mm	L mm	
963.7371	6x7	6,0	6,0	12,0	14,0	170,0	0,04
963.7372	6x8	6,0	6,0	12,0	14,0	170,0	0,11
963.7373	7x8	6,0	6,0	12,0	14,0	170,0	0,10
963.7374	7x9	7,0	7,0	15,0	18,0	170,0	0,10
963.7375	8x9	7,0	7,0	15,0	18,0	170,0	0,10
963.7376	8x10	7,0	7,0	15,0	18,0	180,0	0,14
963.7377	9x10	7,0	7,0	15,0	18,0	180,0	0,09
963.7378	9x11	8,0	8,0	17,0	20,0	180,0	0,08
963.7379	10x11	8,0	8,0	17,0	20,0	180,0	0,08
963.7380	10x12	8,0	8,0	17,0	20,0	180,0	0,14
963.7381	10x13	9,0	9,0	20,0	23,0	195,0	0,11
963.7382	10x14	9,0	9,0	20,0	23,0	195,0	0,17
963.7383	11x13	9,0	9,0	20,0	23,0	195,0	0,19
963.7384	11x14	9,0	9,0	20,0	23,0	195,0	0,18
963.7385	12x13	9,0	9,0	20,0	23,0	195,0	0,18
963.7386	12x14	9,0	9,0	20,0	23,0	195,0	0,18
963.7387	13x14	9,0	9,0	20,0	23,0	195,0	0,15
963.7388	13x15	10,0	10,0	22,0	26,0	230,0	0,24
963.7389	13x16	10,0	10,0	22,0	26,0	230,0	0,24
963.7390	13x17	10,0	10,0	22,0	26,0	230,0	0,25
963.7391	14x15	10,0	10,0	22,0	26,0	230,0	0,25
963.7392	14x16	10,0	10,0	22,0	26,0	230,0	0,24
963.7393	14x17	10,0	10,0	22,0	26,0	230,0	0,23
963.7394	16x17	10,0	10,0	24,0	26,0	230,0	0,24
963.7395	16x18	12,0	12,0	26,0	30,0	280,0	0,42
963.7396	17x19	12,0	12,0	26,0	30,0	280,0	0,40
963.7397	17x22	12,0	13,0	26,0	35,0	280,0	0,38
963.7398	18x19	12,0	12,0	26,0	30,0	280,0	0,40
963.7399	18x20	13,0	13,0	30,0	35,0	280,0	0,39
963.7400	18x21	13,0	13,0	30,0	35,0	280,0	0,39
963.7401	19x22	13,0	13,0	30,0	35,0	280,0	0,37
963.7402	19x24	14,0	14,0	35,0	37,0	290,0	0,53
963.7403	20x22	13,0	13,0	30,0	35,0	280,0	0,38
963.7404	21x23	14,0	14,0	35,0	37,0	290,0	0,51
963.7405	21x24	14,0	14,0	35,0	37,0	300,0	0,51
963.0033	21x26	16,0	16,0	38,0	42,0	340,0	0,50
963.7406	22x24	14,0	14,0	35,0	37,0	300,0	0,51

		A1 mm	A2 mm	B1 mm	B2 mm	L mm	
963.7407	22x27	15,0	15,0	38,0	42,0	330,0	0,65
963.7408	23x26	15,0	15,0	38,0	42,0	330,0	0,67
963.7409	24x26	15,0	15,0	38,0	42,0	330,0	0,68
963.7410	24x27	15,0	15,0	38,0	42,0	330,0	0,67
963.7411	24x30	15,0	15,0	42,0	47,0	370,0	0,93
963.7412	25x28	15,0	15,0	38,0	42,0	330,0	0,66
963.7413	26x29	15,0	15,0	42,0	47,0	370,0	1,00
963.0034	26x32	18,0	18,0	47,0	50,0	380,0	0,60
963.7414	27x29	15,0	15,0	42,0	47,0	370,0	1,00
963.7415	27x30	15,0	15,0	42,0	47,0	370,0	0,90
963.7416	27x32	16,0	16,0	46,0	50,0	370,0	0,90
963.7417	30x32	16,0	16,0	46,0	50,0	370,0	0,86
963.7418	30x34	18,0	18,0	52,0	54,0	430,0	0,85
963.7419	30x36	18,0	18,0	52,0	54,0	430,0	1,30
963.7420	32x34	18,0	18,0	52,0	54,0	430,0	1,30
963.7421	32x36	18,0	18,0	52,0	54,0	430,0	1,30
963.7422	34x36	18,0	18,0	52,0	54,0	430,0	1,25
963.7423	35x38	18,0	18,0	54,0	56,0	450,0	1,40
963.7424	36x38	18,0	18,0	54,0	56,0	450,0	1,45
963.7425	36x41	20,0	20,0	56,0	62,0	450,0	1,45
963.7426	38x42	20,0	20,0	54,0	62,0	450,0	1,45
963.7427	41x46	20,0	20,0	63,0	68,0	460,0	1,80
963.7428	46x50	24,0	24,0	69,0	74,0	480,0	2,10
963.7429	50x55	23,0	23,0	72,0	83,0	540,0	3,00
963.7430	50x60	23,0	23,0	72,0	90,0	540,0	2,80
963.7431	55x60	24,0	24,0	80,0	90,0	540,0	2,80
963.7432	60x65	25,0	25,0	90,0	98,0	690,0	4,20
963.7433	65x70	25,0	25,0	98,0	105,0	690,0	4,20
963.7434	70x80	27,0	27,0	105,0	115,0	770,0	6,00
963.7435	75x80	27,0	27,0	110,0	115,0	790,0	6,60
963.7436	85x90	30,0	30,0	115,0	120,0	800,0	7,00

		A1 mm	A2 mm	B1 mm	B2 mm	L mm	
963.7438	1/4x5/16"	6,0	6,0	12,0	14,0	170,0	0,11
963.7439	5/16x3/8"	6,0	6,0	12,0	14,0	170,0	0,10
963.7440	3/8x7/16"	8,0	8,0	17,0	20,0	180,0	0,08
963.7441	7/16x1/2"	9,0	9,0	20,0	23,0	195,0	0,19
963.7442	1/2x9/16"	9,0	9,0	20,0	23,0	195,0	0,15
963.7443	1/2x19/32"	10,0	10,0	22,0	26,0	230,0	0,24
963.7444	9/16x5/8"	10,0	10,0	22,0	26,0	230,0	0,25
963.7445	19/32x11/16"	10,0	10,0	22,0	26,0	230,0	0,23
963.7446	5/8x11/16"	10,0	10,0	22,0	26,0	230,0	0,24
963.7447	5/8x3/4"	12,0	12,0	26,0	30,0	280,0	0,40
963.7448	11/16x3/4"	12,0	12,0	26,0	30,0	280,0	0,40
963.7449	11/16x25/32"	12,0	12,0	26,0	30,0	280,0	0,38
963.7450	3/4x25/32"	12,0	12,0	26,0	30,0	280,0	0,36
963.7451	3/4x7/8"	12,0	12,0	26,0	30,0	280,0	0,37
963.7452	13/16x7/8"	12,0	12,0	26,0	30,0	280,0	0,38
963.7453	25/32x13/16"	12,0	12,0	26,0	30,0	280,0	0,35
963.7454	7/8x15/16"	14,0	14,0	35,0	37,0	300,0	0,51
963.7455	7/8x1"	14,0	14,0	35,0	37,0	300,0	0,50
963.7456	7/8x1.1/16"	15,0	15,0	38,0	42,0	330,0	0,65
963.7457	15/16x1"	15,0	15,0	38,0	42,0	330,0	0,67
963.7458	1x1.1/8"	15,0	15,0	38,0	42,0	330,0	0,66
963.7459	1.1/16x1.1/8"	15,0	15,0	42,0	47,0	370,0	1,00
963.7460	1.1/16x1.1/4"	15,0	15,0	42,0	47,0	370,0	0,90
963.7461	1.1/8x1.5/16"	15,0	15,0	42,0	47,0	370,0	0,88
963.0038	1.3/16x1.1/4"	18,0	18,0	47,0	50,0	380,0	0,80
963.7462	1.3/16x1.5/16"	18,0	18,0	52,0	54,0	430,0	0,85
963.7463	1.1/4x1.5/16"	18,0	18,0	52,0	54,0	430,0	1,20
963.7464	1.1/4x1.3/8"	18,0	18,0	52,0	54,0	430,0	1,30
963.7465	1.1/4x1.7/16"	18,0	18,0	52,0	54,0	430,0	1,30
963.0039	1.5/16x1.3/8"	25,0	25,0	51,0	56,0	405,0	1,10
963.7466	1.5/16x1.1/2"	18,0	18,0	52,0	54,0	430,0	1,20
963.0041	1.3/8x1.7/16"	25,0	25,0	51,0	56,0	405,0	1,10
963.7467	1.3/8x1.1/2"	18,0	18,0	54,0	56,0	450,0	1,40
963.7468	1.7/16x1.5/8"	18,0	18,0	54,0	56,0	450,0	1,45
963.0042	1.1/2x1.9/16"	28,0	28,0	57,0	63,0	450,0	1,60
963.7469	1.5/8x1.13/16"	20,0	20,0	63,0	68,0	460,0	1,80
963.7470	1.11/16x1.7/8"	20,0	20,0	63,0	68,0	460,0	1,80
963.7471	1.13/16x2"	24,0	24,0	69,0	74,0	480,0	2,10
963.7472	1.3/4x2.1/16"	24,0	24,0	69,0	74,0	480,0	2,00
963.7473	2x2.3/16"	24,0	24,0	80,0	90,0	540,0	3,00
963.7474	2 x 2.3/8"	24,0	24,0	80,0	90,0	540,0	2,80
963.7475	2.3/16x2.3/8"	24,0	24,0	80,0	90,0	540,0	2,80
963.7476	2.1/4x2.7/16"	24,0	24,0	80,0	90,0	540,0	2,70
963.0043	2.3/8x2.3/4"	32,0	32,0	92,0	105,0	560,0	4,10



BRONZE^{plus} double ring ended spanner set

- FlankTraction profile
- In accordance to DIN 838 / ISO 1085 / ISO 10104 / ISO 3318
- Ring head 75° offset
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



		A mm	A2 mm	B1 mm	B2 mm	L mm	
963.7510	36x41	20,0	20,0	54,0	64,0	460,0	0,33
963.7511	41x46	21,0	21,0	63,0	68,0	432,0	0,81
963.7512	46x50	24,0	24,0	69,0	74,0	477,0	1,04

		A mm	A2 mm	B1 mm	B2 mm	L mm	
963.7513	1/4"x5/16"	6,0	6,0	12,0	14,0	100,0	40
963.7514	5/16"x3/8"	7,0	7,0	15,0	18,0	115,0	60
963.7515	3/8"x7/16"	8,0	8,0	17,0	20,0	125,0	70
963.7516	7/16"x9/16"	9,0	9,0	20,0	23,0	140,0	90
963.7517	1/2"x5/8"	10,0	10,0	22,0	26,0	155,0	50
963.7518	1/2"x19/32"	9,0	9,0	20,0	23,0	140,0	90
963.7519	9/16"x11/16"	10,0	10,0	22,0	26,0	155,0	50
963.7520	5/8"x25/32"	12,0	12,0	26,0	30,0	190,0	80
963.7521	11/16"x3/4"	12,0	12,0	26,0	30,0	190,0	80
963.7522	3/4"x7/8"	14,0	14,0	35,0	37,0	200,0	120
963.7523	13/16"x15/16"	14,0	14,0	35,0	37,0	200,0	120
963.7524	15/16"x1.1/16"	15,0	15,0	38,0	42,0	210,0	130
963.7525	1"x1.1/8"	16,0	16,0	42,0	47,0	255,0	200
963.7526	1.3/16"x1.1/4"	16,0	16,0	46,0	50,0	265,0	650

BRONZEplus single-end box wrench, straight

- FlankTraction profile
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



		A mm	B mm	L mm	
963.7527	14	10,5	24,0	140,0	0,13
963.7528	15	10,5	24,0	140,0	0,13
963.7529	16	11,5	29,0	155,0	0,15
963.7530	17	11,5	29,0	155,0	0,15
963.7531	18	12,0	30,0	170,0	0,25
963.7532	19	12,0	30,0	170,0	0,28
963.7533	20	13,5	35,0	190,0	0,28
963.7534	21	13,5	35,0	190,0	0,30
963.7535	22	13,5	35,0	190,0	0,30
963.7536	23	14,5	38,0	215,0	0,30
963.7537	24	14,5	38,0	215,0	0,40
963.7538	25	16,0	42,0	230,0	0,43
963.7539	26	16,0	42,0	230,0	0,45
963.7540	27	16,0	42,0	230,0	0,50
963.7541	28	17,0	48,0	265,0	0,52
963.7542	29	17,0	48,0	265,0	0,51
963.7543	30	17,0	48,0	265,0	0,50
963.7544	32	17,0	51,0	265,0	0,45
963.7545	33	17,0	51,0	265,0	0,43
963.7546	34	17,5	51,0	290,0	0,67
963.7547	35	17,5	51,0	290,0	0,66
963.7548	36	17,5	55,0	290,0	0,65
963.7549	37	21,0	65,0	325,0	0,90
963.7550	38	21,0	65,0	325,0	0,90
963.7551	41	21,0	65,0	325,0	0,90
963.7552	42	21,0	65,0	325,0	0,90
963.7553	46	23,0	72,0	365,0	1,10
963.7554	47	23,0	72,0	365,0	1,10
963.7555	50	24,5	79,0	400,0	1,40
963.7556	52	26,0	87,0	430,0	1,80
963.7557	54	26,0	87,0	430,0	1,70
963.7558	55	26,5	87,0	445,0	1,65
963.7559	56	27,5	93,0	465,0	1,80
963.7560	58	27,5	93,0	465,0	1,80
963.7561	60	27,5	93,0	465,0	2,00
963.7562	63	29,0	100,0	500,0	2,30
963.7563	65	29,0	100,0	500,0	2,10
963.7564	67	29,0	100,0	500,0	2,00
963.7565	70	30,0	107,0	550,0	3,00
963.7566	71	30,0	107,0	550,0	2,80
963.7567	75	32,0	115,0	620,0	5,00
963.7568	77	32,0	115,0	620,0	5,00
963.7569	80	32,0	125,0	620,0	4,50
963.7570	82	32,0	125,0	620,0	4,30
963.7571	85	35,0	130,0	650,0	5,00

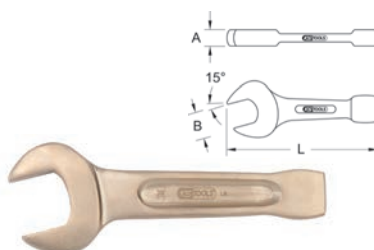
		A mm	B mm	L mm	
963.7572	88	37,0	138,0	650,0	4,80
963.7573	90	37,0	138,0	650,0	4,20
963.7574	94	39,0	145,0	700,0	5,20
963.7575	95	39,0	145,0	700,0	5,20

		A mm	B mm	L mm	
963.7576	1/2"	10,5	24,0	140,0	0,13
963.7577	9/16"	10,5	24,0	140,0	0,13
963.7578	19/32"	10,5	24,0	140,0	0,13
963.7579	5/8"	11,5	29,0	155,0	0,15
963.7580	11/16"	11,5	29,0	155,0	0,15
963.7581	3/4"	12,0	30,0	170,0	0,28
963.7582	25/32"	13,5	35,0	190,0	0,28
963.7583	13/16"	13,5	35,0	190,0	0,30
963.7584	7/8"	13,5	35,0	190,0	0,30
963.7585	15/16"	14,5	38,0	215,0	0,40
963.7586	31/32"	14,5	38,0	215,0	0,43
963.7587	1"	16,0	42,0	230,0	0,43
963.7588	1.1/16"	16,0	42,0	230,0	0,50
963.7589	1.1/8"	17,0	48,0	265,0	0,52
963.7590	1.3/16"	17,0	48,0	265,0	0,50
963.7591	1.1/4"	17,0	51,0	265,0	0,45
963.7592	1.5/16"	17,0	51,0	265,0	0,43
963.7593	1.3/8"	17,5	51,0	290,0	0,66
963.7594	1.7/16"	21,0	65,0	325,0	0,90
963.7595	1.1/2"	21,0	65,0	325,0	0,90
963.7596	1.9/16"	21,0	65,0	325,0	0,85
963.7597	1.5/8"	21,0	65,0	325,0	0,90
963.7598	1.11/16"	21,0	65,0	325,0	0,85
963.7599	1.3/4"	23,0	72,0	365,0	1,20
963.7600	1.13/19"	23,0	72,0	365,0	1,10
963.7601	1.7/8"	23,0	72,0	365,0	1,10
963.7602	2"	24,5	79,0	400,0	1,40
963.7603	2.1/16"	26,0	87,0	430,0	1,80
963.7604	2.1/8"	26,0	87,0	430,0	1,70
963.7605	2.3/16"	26,5	87,0	445,0	1,65
963.7606	2.1/4"	27,5	93,0	465,0	1,80
963.7607	2.5/16"	27,5	93,0	465,0	1,80
963.7608	2.3/8"	27,5	93,0	465,0	2,00
963.7609	2.7/16"	29,0	100,0	500,0	2,10
963.7610	2.1/2"	29,0	100,0	500,0	2,00
963.7611	2.9/16"	29,0	100,0	500,0	2,10
963.7612	2.3/4"	30,0	107,0	550,0	3,00
963.7613	2.15/16"	32,0	115,0	620,0	5,00
963.7614	3"	32,0	115,0	620,0	5,00
963.7615	3.1/8"	32,0	115,0	620,0	4,50
963.7616	3.3/8"	35,0	130,0	650,0	5,00
963.7617	3.1/2"	37,0	138,0	650,0	4,80
963.7618	3.3/4"	39,0	145,0	700,0	5,20

NON SPARKING IMPACT SPANNERS

BRONZEplus slogging open ended spanner

- In accordance to DIN 133
- Jaw 15° offset
- With impact area
- For heavy duty applications
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



		A mm	B mm	L mm	
963.7619	14	11,0	30,0	180,0	0,35
963.7620	17	11,0	36,0	125,0	0,12
963.7621	19	12,0	40,0	120,0	0,16
963.7622	22	13,0	44,0	135,0	0,15
963.7623	24	14,0	46,0	150,0	0,20
963.7624	27	16,0	55,0	180,0	0,38
963.7625	28	16,0	55,0	180,0	0,37
963.7626	29	17,0	63,0	190,0	0,36

		A mm	B mm	L mm	
963.7627	30	17,0	63,0	190,0	0,35
963.7628	32	17,0	64,0	210,0	0,68
963.7629	33	19,0	70,0	210,0	0,67
963.7630	34	19,0	70,0	210,0	0,66
963.7631	35	20,0	75,0	210,0	0,65
963.7632	36	20,0	75,0	210,0	0,64
963.7633	38	21,0	80,0	210,0	0,63
963.7634	41	21,0	85,0	220,0	0,79
963.7635	42	21,0	85,0	220,0	0,75
963.7636	46	22,0	97,0	250,0	1,15
963.7637	47	22,0	97,0	255,0	1,20
963.7638	50	23,0	105,0	275,0	1,35
963.7639	52	23,0	105,0	275,0	1,50
963.7640	54	25,0	115,0	300,0	1,90
963.7641	55	25,0	115,0	290,0	1,60
963.7642	56	25,0	125,0	290,0	1,55
963.7643	58	25,0	125,0	290,0	1,50
963.7644	60	26,0	125,0	320,0	2,60
963.7645	63	27,0	135,0	330,0	3,00
963.7646	65	27,0	135,0	330,0	3,00
963.7647	67	28,0	135,0	380,0	4,20
963.7648	70	28,0	135,0	380,0	3,80
963.7649	71	28,0	135,0	380,0	3,70
963.7650	75	30,0	155,0	380,0	3,60
963.7651	77	30,0	155,0	380,0	5,00
963.7652	80	32,0	165,0	370,0	4,80
963.7653	82	32,0	165,0	370,0	4,70
963.7654	85	32,0	170,0	370,0	4,50
963.7655	88	34,0	185,0	430,0	7,20
963.7656	90	34,0	185,0	430,0	7,00
963.7657	94	36,0	200,0	430,0	6,90
963.7658	95	36,0	200,0	430,0	6,80
963.7659	100	38,0	215,0	470,0	9,50
963.7660	105	38,0	215,0	470,0	9,30
963.7661	110	40,0	235,0	510,0	14,10
963.7662	115	40,0	235,0	510,0	13,30
963.7663	120	42,0	250,0	545,0	16,40
963.7664	125	42,0	250,0	545,0	15,50
963.7665	130	45,0	270,0	575,0	19,80
963.7666	135	45,0	270,0	575,0	19,20
963.7667	140	45,0	282,0	575,0	19,00
963.7668	145	48,0	295,0	640,0	27,00
963.7669	150	48,0	302,0	640,0	26,80
963.7670	155	48,0	320,0	640,0	26,50
963.7671	160	48,0	320,0	640,0	26,30
963.7672	165	50,0	340,0	715,0	39,50
963.7673	170	50,0	340,0	715,0	38,50
963.7674	175	55,0	355,0	715,0	37,00
963.7675	180	55,0	367,0	715,0	36,00
963.7676	185	55,0	390,0	715,0	35,80
963.7677	190	55,0	390,0	715,0	38,50
963.7678	195	55,0	390,0	715,0	38,50
963.7679	200	55,0	400,0	715,0	38,00
963.7680	205	55,0	400,0	715,0	37,50
963.7681	210	55,0	410,0	715,0	37,00
963.7682	220	55,0	410,0	715,0	36,50
963.7683	230	55,0	410,0	715,0	36,50

		A mm	B mm	L mm	
963.7709	2.5/8"	28,0	155,0	380,0	4,20
963.7710	2.3/4"	28,0	155,0	380,0	3,80
963.7711	2.13/16"	28,0	155,0	380,0	3,70
963.7712	2.15/16"	30,0	155,0	380,0	3,50
963.7713	3"	30,0	155,0	380,0	4,00
963.7714	3.1/8"	32,0	165,0	370,0	4,80
963.7715	3.1/4"	32,0	165,0	370,0	4,70
963.7716	3.3/8"	32,0	165,0	370,0	4,50
963.7717	3.1/2"	34,0	185,0	430,0	7,20
963.7718	3.5/8"	34,0	185,0	430,0	7,00
963.7719	3.3/4"	36,0	200,0	430,0	6,80
963.7720	3.7/8"	36,0	200,0	430,0	6,60
963.7721	4"	37,0	210,0	470,0	9,50
963.7722	4.1/8"	37,0	210,0	470,0	9,50
963.7723	4.1/2"	40,0	235,0	510,0	13,30

BRONZE^{plus} slogging ring spanner

- FlankTraction profile (12 point)
- In accordance to DIN 7444
- With impact area
- For heavy duty applications
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



		A mm	B mm	L mm	
963.7724	17	15,0	38,0	150,0	0,40
963.7725	19	15,0	38,0	150,0	0,40
963.7726	22	15,0	38,0	150,0	0,35
963.7727	24	15,0	38,0	150,0	0,35
963.7728	27	18,0	45,0	190,0	0,60
963.7729	28	18,0	45,0	190,0	0,58
963.7730	29	19,0	50,0	190,0	0,56
963.7731	30	19,0	50,0	190,0	0,55
963.7732	32	19,0	53,0	190,0	0,58
963.7733	33	19,0	53,0	190,0	0,57
963.7734	34	21,0	58,0	210,0	0,68
963.7735	35	21,0	58,0	210,0	0,70
963.7736	36	21,0	58,0	210,0	0,69
963.7737	37	21,0	58,0	210,0	0,68
963.7738	38	21,0	63,0	230,0	1,10
963.7739	41	21,0	63,0	230,0	1,00
963.7740	42	21,0	63,0	230,0	1,00
963.7741	46	23,0	70,0	240,0	1,25
963.7742	47	23,0	70,0	240,0	1,27
963.7743	50	27,0	77,0	255,0	1,40
963.7744	52	27,0	77,0	255,0	1,40
963.7745	54	27,0	85,0	255,0	1,35
963.7746	55	27,0	85,0	255,0	1,34
963.7747	56	27,0	85,0	255,0	1,33
963.7748	57	27,0	85,0	255,0	1,30
963.7749	58	29,0	92,0	280,0	2,50
963.7750	60	29,0	92,0	280,0	2,40
963.7751	63	30,0	104,0	295,0	2,90
963.7752	65	30,0	104,0	295,0	2,80
963.7753	67	30,0	104,0	295,0	2,70
963.7754	70	33,0	110,0	320,0	3,40
963.7755	71	33,0	110,0	320,0	3,30
963.7756	75	35,0	115,0	320,0	3,20
963.7757	76	35,0	115,0	320,0	3,10
963.7758	77	35,0	115,0	320,0	3,00
963.7759	80	37,0	120,0	355,0	3,60
963.7760	82	37,0	120,0	355,0	3,50
963.7761	85	42,0	125,0	365,0	5,00
963.7762	88	44,0	135,0	360,0	4,80
963.7763	90	44,0	135,0	360,0	4,60
963.7764	94	45,0	145,0	360,0	4,50
963.7765	95	45,0	145,0	360,0	4,40
963.7766	100	46,0	150,0	360,0	4,20
963.7767	105	46,0	150,0	360,0	3,90
963.7768	110	47,0	165,0	450,0	8,60
963.7769	115	47,0	165,0	450,0	8,10

		A mm	B mm	L mm	
963.7770	120	48,0	182,0	480,0	9,70
963.7771	125	48,0	182,0	480,0	9,50
963.7772	128	50,0	196,0	520,0	13,20
963.7773	130	50,0	196,0	520,0	13,20
963.7774	135	50,0	196,0	520,0	12,90
963.7775	140	50,0	196,0	520,0	12,90
963.7776	145	52,0	220,0	580,0	19,00
963.7777	150	52,0	220,0	580,0	18,00
963.7778	155	52,0	220,0	580,0	17,20
963.7779	160	52,0	220,0	580,0	19,00
963.7780	165	54,0	245,0	650,0	28,00
963.7781	170	54,0	245,0	650,0	27,70
963.7782	175	54,0	245,0	650,0	27,00
963.7783	180	54,0	245,0	650,0	26,00
963.7784	185	56,0	270,0	700,0	32,70
963.7785	190	56,0	270,0	700,0	32,20
963.7786	195	56,0	270,0	700,0	31,80
963.7787	200	56,0	270,0	700,0	31,00

		A mm	B mm	L mm	
963.7788	11/16"	15,0	38,0	150,0	0,40
963.7789	3/4"	15,0	38,0	150,0	0,40
963.7790	25/32"	15,0	38,0	150,0	0,39
963.7791	13/16"	15,0	38,0	150,0	0,38
963.7792	7/8"	15,0	38,0	150,0	0,35
963.7793	15/16"	15,0	38,0	150,0	0,35
963.7794	1"	15,0	38,0	150,0	0,34
963.7795	1.1/16"	19,0	50,0	190,0	0,70
963.7796	1.1/8"	19,0	50,0	190,0	0,58
963.7797	1.1/4"	19,0	50,0	190,0	0,58
963.7798	1.3/16"	19,0	50,0	190,0	0,55
963.7799	1.5/16"	20,0	55,0	190,0	0,57
963.7800	1.3/8"	21,0	58,0	210,0	0,70
963.7801	1.7/16"	21,0	58,0	210,0	0,69
963.7802	1.1/2"	21,0	63,0	230,0	1,10
963.7803	1.9/16"	21,0	63,0	230,0	1,00
963.7804	1.5/8"	21,0	63,0	230,0	1,00
963.7805	1.11/16"	21,0	63,0	230,0	1,00
963.7806	1.3/4"	23,0	70,0	240,0	1,20
963.7807	1.13/16"	23,0	70,0	240,0	1,25
963.7808	1.7/8"	23,0	70,0	240,0	1,27
963.7809	2"	27,0	77,0	255,0	1,40
963.7810	2.1/16"	27,0	77,0	255,0	1,40
963.7811	2.1/8"	27,0	85,0	255,0	1,35
963.7812	2.3/16"	27,0	85,0	255,0	1,34
963.7813	2.1/4"	27,0	85,0	255,0	1,30
963.7814	2.5/16"	29,0	90,0	280,0	2,50
963.7815	2.3/8"	29,0	92,0	280,0	2,40
963.7816	2.7/16"	30,0	104,0	295,0	2,70
963.7817	2.1/2"	30,0	104,0	295,0	2,90
963.7818	2.9/16"	30,0	104,0	295,0	2,80
963.7819	2.5/8"	30,0	104,0	295,0	2,70
963.7820	2.3/4"	33,0	110,0	320,0	3,20
963.7821	2.13/16"	33,0	110,0	320,0	3,30
963.7822	2.7/8"	33,0	110,0	320,0	3,30
963.7823	2.15/16"	35,0	115,0	320,0	3,20
963.7824	3"	35,0	115,0	320,0	3,10
963.7825	3.1/8"	37,0	120,0	355,0	3,60
963.7826	3.1/4"	37,0	120,0	355,0	3,50
963.7827	3.3/8"	43,0	125,0	365,0	5,00
963.7828	3.1/2"	44,0	135,0	360,0	4,80
963.7829	3.5/8"	44,0	135,0	360,0	4,50
963.7830	3.3/4"	45,0	145,0	360,0	4,50
963.7831	3.7/8"	46,0	150,0	360,0	4,30
963.7832	4"	46,0	150,0	360,0	4,20
963.7833	4.1/8"	46,0	150,0	360,0	3,90
963.7834	4.1/2"	47,0	167,0	450,0	8,10

BRONZE^{plus} slogging ring spanner, offset

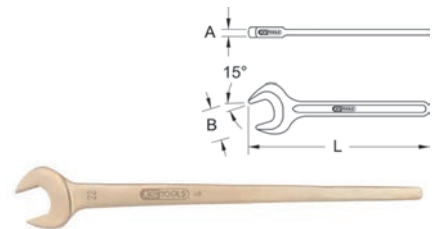
- FlankTraction profile (12 point)
- In accordance to DIN 7444
- Ring head 75° offset
- With impact area
- For heavy duty applications
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



		A mm	B mm	H mm	L mm	
963.7835	27	17,0	42,0	45,0	245,0	1,10
963.7836	30	18,0	53,0	50,0	270,0	1,50
963.7837	32	18,0	55,0	50,0	270,0	1,50
963.7838	36	20,0	60,0	55,0	280,0	1,60
963.7839	41	22,0	67,0	60,0	310,0	2,10
963.7840	46	23,0	70,0	65,0	320,0	2,50
963.7841	50	27,0	77,0	65,0	320,0	2,50
963.7842	55	27,0	85,0	65,0	320,0	2,60
963.7843	60	29,0	92,0	70,0	355,0	3,20
963.7844	65	30,0	104,0	72,0	380,0	3,80
963.7845	70	33,0	110,0	75,0	400,0	4,60
963.7846	75	35,0	115,0	80,0	420,0	5,70
963.7847	80	37,0	120,0	85,0	440,0	6,60
963.7848	85	43,0	125,0	85,0	440,0	7,00
963.7849	90	44,0	135,0	85,0	440,0	9,30
963.7850	95	45,0	145,0	85,0	440,0	10,00
963.7851	100	46,0	150,0	90,0	440,0	11,70
963.7852	110	47,0	167,0	90,0	440,0	13,40
963.7853	115	47,0	167,0	90,0	440,0	14,50

BRONZE^{plus} open ended spanner 15°

- Jaw 15° offset
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

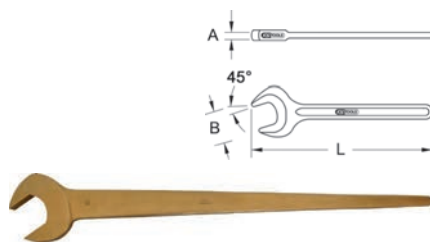


		A mm	B mm	L mm	
963.7854	22	10,5	48,0	320,0	0,45
963.7855	23	10,5	48,0	320,0	0,45
963.7856	24	11,0	52,0	350,0	0,60
963.7857	25	11,0	52,0	350,0	0,60
963.7858	26	11,5	60,0	380,0	0,85
963.7859	27	11,5	60,0	380,0	0,85
963.7860	28	12,0	65,0	420,0	1,00
963.7861	29	12,0	65,0	420,0	1,00
963.7862	30	12,0	65,0	420,0	1,00
963.7863	32	12,5	70,0	450,0	1,00
963.7864	33	12,5	70,0	450,0	1,00
963.7865	34	13,0	74,0	450,0	1,00
963.7866	35	13,5	80,0	500,0	1,40
963.7867	36	13,5	80,0	500,0	1,40
963.7868	37	13,5	80,0	500,0	1,40
963.7869	38	15,0	90,0	500,0	1,40
963.7870	41	15,0	90,0	550,0	1,80
963.7871	42	15,0	90,0	550,0	1,80
963.7872	46	16,0	100,0	600,0	2,50
963.7873	47	16,0	100,0	600,0	2,50
963.7874	50	17,0	110,0	660,0	3,20
963.7875	52	17,0	110,0	660,0	3,20
963.7876	54	18,0	120,0	660,0	4,40
963.7877	55	18,0	120,0	730,0	4,40
963.7878	56	18,0	120,0	730,0	4,40
963.7879	58	19,0	130,0	800,0	5,60
963.7880	60	19,0	130,0	800,0	5,60

		A mm	B mm	L mm	
963.7949	1.5/8"	15,0	90,0	500,0	1,80
963.7950	1.11/16"	15,0	90,0	500,0	1,80
963.7951	1.3/4"	16,0	100,0	550,0	2,50
963.7952	1.13/16"	16,0	100,0	550,0	2,50
963.7953	1.7/8"	16,0	100,0	600,0	2,50
963.7954	2"	17,0	110,0	600,0	3,20
963.7955	2.1/16"	17,0	110,0	660,0	3,20
963.7956	2.1/8"	18,0	120,0	660,0	4,40
963.7957	2.3/16"	18,0	120,0	660,0	4,40
963.7958	2.1/4"	19,0	130,0	730,0	4,40
963.7959	2.5/16"	19,0	130,0	730,0	5,60
963.7960	2.3/8"	19,0	130,0	800,0	5,60

BRONZEplus open ended spanner 45°

- Jaw 45° offset
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



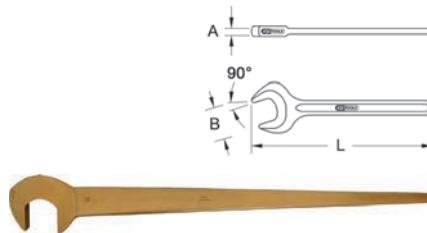
		A mm	B mm	L mm	
963.7881	22	10,5	48,0	320,0	0,45
963.7882	23	10,5	48,0	320,0	0,45
963.7883	24	11,0	52,0	350,0	0,60
963.7884	25	11,0	52,0	350,0	0,60
963.7885	26	11,5	60,0	380,0	0,85
963.7886	27	11,5	60,0	380,0	0,85
963.7887	28	12,0	65,0	420,0	1,00
963.7888	29	12,0	65,0	420,0	1,00
963.7889	30	12,0	65,0	420,0	1,00
963.7890	32	12,5	70,0	450,0	1,00
963.7891	33	12,5	70,0	450,0	1,00
963.7892	34	13,0	74,0	450,0	1,00
963.7893	35	13,5	80,0	500,0	1,40
963.7894	36	13,5	80,0	500,0	1,40
963.7895	37	13,5	80,0	500,0	1,40
963.7896	38	15,0	90,0	500,0	1,40
963.7897	41	15,0	90,0	550,0	1,80
963.7898	42	15,0	90,0	550,0	1,80
963.7899	46	16,0	100,0	600,0	2,50
963.7900	47	16,0	100,0	600,0	2,50
963.7901	50	17,0	110,0	660,0	3,20
963.7902	52	17,0	110,0	660,0	3,20
963.7903	54	18,0	120,0	660,0	4,40
963.7904	55	18,0	120,0	730,0	4,40
963.7905	56	18,0	120,0	730,0	4,40
963.7906	58	19,0	130,0	800,0	5,60
963.7907	60	19,0	130,0	800,0	5,60

		A mm	B mm	L mm	
963.7961	13/16"	10,5	48,0	320,0	0,45
963.7962	7/8"	10,5	48,0	320,0	0,45
963.7963	15/16"	11,0	52,0	350,0	0,60
963.7964	31/32"	11,0	52,0	350,0	0,60
963.7965	1"	11,5	60,0	380,0	0,60
963.7966	1.1/16"	11,5	60,0	380,0	0,85
963.7967	1.1/8"	12,0	65,0	420,0	1,00
963.7968	1.3/16"	12,0	65,0	420,0	1,00
963.7969	1.1/4"	12,0	65,0	420,0	1,00
963.7970	1.5/16"	12,5	70,0	450,0	1,00
963.7971	1.3/8"	12,5	70,0	450,0	1,40
963.7972	1.7/16"	13,5	80,0	450,0	1,40
963.7973	1.1/2"	15,0	90,0	500,0	1,40
963.7974	1.9/16"	15,0	90,0	500,0	1,80
963.7975	1.5/8"	15,0	90,0	500,0	1,80
963.7976	1.11/16"	15,0	90,0	500,0	1,80
963.7977	1.3/4"	16,0	100,0	550,0	2,50

		A mm	B mm	L mm	
963.7978	1.13/16"	16,0	100,0	550,0	2,50
963.7979	1.7/8"	16,0	100,0	600,0	2,50
963.7980	2"	17,0	110,0	600,0	3,20
963.7981	2.1/16"	17,0	110,0	660,0	3,20
963.7982	2.1/8"	18,0	120,0	660,0	4,40
963.7983	2.3/16"	18,0	120,0	660,0	4,40
963.7984	2.1/4"	19,0	130,0	730,0	4,40
963.7985	2.5/16"	19,0	130,0	730,0	5,60
963.7986	2.3/8"	19,0	130,0	800,0	5,60

BRONZEplus open ended spanner 90°

- Jaw 90° offset
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

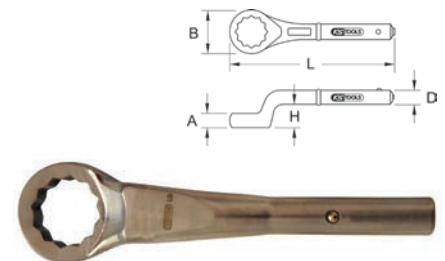


		A mm	B mm	L mm	
963.7908	22	10,5	48,0	320,0	0,45
963.7909	23	10,5	48,0	320,0	0,45
963.7910	24	11,0	52,0	350,0	0,60
963.7911	25	11,0	52,0	350,0	0,60
963.7912	26	11,5	60,0	380,0	0,85
963.7913	27	11,5	60,0	380,0	0,85
963.7914	28	12,0	65,0	420,0	1,00
963.7915	29	12,0	65,0	420,0	1,00
963.7916	30	12,0	65,0	420,0	1,00
963.7917	32	12,5	70,0	450,0	1,00
963.7918	33	12,5	70,0	450,0	1,00
963.7919	34	13,0	74,0	450,0	1,00
963.7920	35	13,5	80,0	500,0	1,40
963.7921	36	13,5	80,0	500,0	1,40
963.7922	37	13,5	80,0	500,0	1,40
963.7923	38	15,0	90,0	500,0	1,40
963.7924	41	15,0	90,0	550,0	1,80
963.7925	42	15,0	90,0	550,0	1,80
963.7926	46	16,0	100,0	600,0	2,50
963.7927	47	16,0	100,0	600,0	2,50
963.7928	50	17,0	110,0	660,0	3,20
963.7929	52	17,0	110,0	660,0	3,20
963.7930	54	18,0	120,0	660,0	4,40
963.7931	55	18,0	120,0	730,0	4,40
963.7932	56	18,0	120,0	730,0	4,40
963.7933	58	19,0	130,0	800,0	5,60
963.7934	60	19,0	130,0	800,0	5,60

		A mm	B mm	L mm	
963.7987	13/16"	10,5	48,0	320,0	0,45
963.7988	7/8"	10,5	48,0	320,0	0,45
963.7989	15/16"	11,0	52,0	350,0	0,60
963.7990	31/32"	11,0	52,0	350,0	0,60
963.7991	1"	11,5	60,0	380,0	0,60
963.7992	1.1/16"	11,5	60,0	380,0	0,85
963.7993	1.1/8"	12,0	65,0	420,0	1,00
963.7994	1.3/16"	12,0	65,0	420,0	1,00
963.7995	1.1/4"	12,0	65,0	420,0	1,00
963.7996	1.5/16"	12,5	70,0	450,0	1,00
963.7997	1.3/8"	12,5	70,0	450,0	1,40
963.7998	1.7/16"	13,5	80,0	450,0	1,40
963.7999	1.1/2"	15,0	90,0	500,0	1,40
963.8000	1.9/16"	15,0	90,0	500,0	1,80
963.8001	1.5/8"	15,0	90,0	500,0	1,80
963.8002	1.11/16"	15,0	90,0	500,0	1,80
963.8003	1.3/4"	16,0	100,0	550,0	2,50
963.8004	1.13/16"	16,0	100,0	550,0	2,50
963.8005	1.7/8"	16,0	100,0	600,0	2,50
963.8006	2"	17,0	110,0	600,0	3,20
963.8007	2.1/16"	17,0	110,0	660,0	3,20
963.8008	2.1/8"	18,0	120,0	660,0	4,40
963.8009	2.3/16"	18,0	120,0	660,0	4,40
963.8010	2.1/4"	19,0	130,0	730,0	4,40
963.8011	2.5/16"	19,0	130,0	730,0	5,60
963.8012	2.3/8"	19,0	130,0	800,0	5,60

BRONZEplus Offset single ring spanner

- FlankTraction profile
- Ring head 75° offset
- With shaft for snap-on handle
- With locking pin
- Heavy duty to deliver maximum torque
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



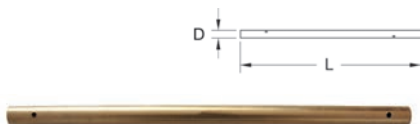
		A mm	B mm	D mm	H mm	L mm	
963.8013	22	19,0	36,0	15,5	31,0	260,0	1 0,96
963.8014	24	19,0	36,0	15,5	31,0	260,0	1 1,00
963.8015	27	19,0	40,0	15,5	31,0	260,0	1 0,96
963.8016	30	19,0	45,0	15,5	33,0	260,0	1 0,95
963.8017	32	19,5	48,0	21,7	33,0	260,0	1 0,94
963.8018	33	19,5	48,0	21,7	33,0	260,0	1 0,92
963.8019	34	20,0	53,0	21,7	35,0	260,0	1 0,91
963.8020	35	20,0	53,0	21,7	35,0	260,0	1 0,91
963.8021	36	20,0	53,0	21,7	35,0	260,0	1 0,91
963.8022	37	20,0	53,0	21,7	35,0	270,0	1 1,20
963.8023	38	21,0	59,0	21,7	40,0	270,0	1 1,90
963.8024	41	21,0	59,0	21,7	40,0	270,0	1 1,10
963.8025	42	21,0	59,0	21,7	40,0	270,0	1 1,10
963.8026	46	24,0	66,0	21,7	43,0	300,0	2 1,50
963.8027	47	24,0	66,0	21,7	43,0	300,0	2 1,50
963.8028	50	28,0	72,0	21,7	46,0	300,0	2 1,70
963.8029	52	28,0	72,0	21,7	46,0	350,0	2 2,60
963.8030	54	30,0	79,0	21,7	49,0	350,0	2 2,50
963.8031	55	30,0	79,0	21,7	49,0	300,0	2 1,90
963.8032	56	30,0	79,0	21,7	49,0	350,0	2 2,60
963.8033	58	36,0	86,0	21,7	57,0	350,0	2 2,50
963.8034	60	36,0	86,0	21,7	57,0	370,0	3 2,50
963.8035	63	36,0	86,0	21,7	57,0	370,0	3 2,50
963.8036	65	38,0	93,0	21,7	60,0	400,0	3 3,20
963.8037	67	38,0	93,0	21,7	60,0	400,0	3 3,10
963.8038	70	41,0	103,0	21,7	62,0	400,0	3 3,00
963.8039	71	41,0	103,0	21,7	62,0	400,0	3 2,80
963.8040	75	43,0	109,0	21,7	67,0	400,0	3 2,70
963.8041	77	43,0	109,0	21,7	67,0	400,0	3 2,60
963.8042	80	43,0	119,0	21,7	68,0	410,0	3 5,00
963.8043	82	43,0	119,0	21,7	68,0	410,0	3 5,00
963.8044	85	45,0	128,0	21,7	72,0	410,0	3 5,10
963.8045	90	45,0	135,0	21,7	72,0	410,0	3 5,01
963.8046	95	45,0	142,0	21,7	72,0	410,0	3 4,79
963.8047	100	45,0	150,0	21,7	75,0	412,0	3 7,55

		A mm	B mm	D mm	H mm	L mm	
963.8051	1.3/16"	19,0	36,0	15,5	31,0	260,0	1

		A mm	B mm	D mm	H mm	L mm	
963.8072	2.9/16"	38,0	93,0	21,7	60,0	400,0	3 3,20
963.8073	2.5/8"	38,0	93,0	21,7	60,0	400,0	3 3,10
963.8074	2.3/4"	41,0	103,0	21,7	62,0	400,0	3 3,00
963.8075	2.13/16"	41,0	103,0	21,7	62,0	400,0	3 2,80
963.8076	2.15/16"	43,0	109,0	21,7	67,0	400,0	3 2,70
963.8077	3"	43,0	109,0	21,7	67,0	400,0	3 2,50
963.8078	3.1/8"	43,0	119,0	21,7	68,0	410,0	3 4,90
963.8079	3.1/4"	43,0	119,0	21,7	68,0	410,0	3 5,00
963.8080	3.3/8"	45,0	128,0	21,7	72,0	410,0	3 5,10

BRONZE^{plus} Snap-on handle for single ring spanner

- Three different sizes
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



		D mm	L mm	#	
963.8048	22-42	1.3/16-1.5/8"	22,0	600,0	1 1,10
963.8049	46-58	1.11/16-2.1/4"	25,0	750,0	2 2,80
963.8050	60-100	2.5/16-3.3/8"	30,0	850,0	3 3,80

BRONZE^{plus} Offset single ring spanner set

- FlankTraction profile
- Ring head 75° offset
- With shaft for snap-on handle
- With locking pin
- Heavy duty to deliver maximum torque
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



		D mm	L mm	#	
963.8081	18 pcs	24 - 27 - 30 - 32 - 36 - 41 - 46 - 50 - 55 - 60 - 65 - 70 - 75 - 80 - 85 mm	40,20		
15 x		24 - 27 - 30 - 32 - 36 - 41 - 46 - 50 - 55 - 60 - 65 - 70 - 75 - 80 - 85 mm			
3 x		22-42 - 46-58 - 60-100 mm			

NON SPARKING INSTALLATION WRENCH

BRONZE^{plus} Installation open end spanner with mandrel

- Practical combination of open ended spanner and setting punch
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



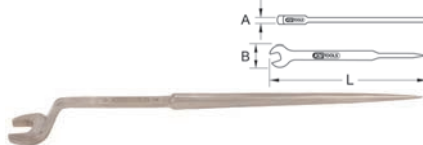
		A mm	B mm	L mm	
963.8082	17	11,0	35,0	320,0	0,27

		A mm	B mm	L mm	
963.8083	18	11,0	35,0	320,0	0,27
963.8084	19	12,0	40,0	350,0	0,29
963.8085	20	12,0	40,0	350,0	0,29
963.8086	21	13,0	46,0	350,0	0,36
963.8087	22	13,0	46,0	350,0	0,36
963.8088	23	15,0	49,0	370,0	0,65
963.8089	24	15,0	49,0	370,0	0,65
963.8090	25	16,0	54,0	370,0	0,65
963.8091	26	16,0	54,0	370,0	0,65
963.8092	27	16,0	54,0	370,0	0,65
963.8093	28	17,0	62,0	400,0	0,95
963.8094	29	17,0	62,0	400,0	0,95
963.8095	30	17,0	62,0	400,0	0,95
963.8096	32	18,0	65,0	400,0	0,95
963.8097	33	18,0	65,0	400,0	0,95
963.8098	34	18,0	65,0	400,0	0,95
963.8099	35	20,0	75,0	430,0	1,40
963.8100	36	20,0	75,0	430,0	1,40
963.8101	37	20,0	75,0	430,0	1,40
963.8102	38	21,0	85,0	430,0	1,40
963.8103	41	21,0	85,0	470,0	1,90
963.8104	42	21,0	85,0	470,0	1,90
963.8105	46	22,0	95,0	500,0	2,70
963.8106	47	22,0	95,0	500,0	2,70
963.8107	50	24,0	105,0	530,0	3,55

		A mm	B mm	L mm	
963.8108	11/16"	11,0	35,0	320,0	0,27
963.8109	3/4"	12,0	40,0	350,0	0,27
963.8110	25/32"	12,0	40,0	350,0	0,36
963.8111	13/16"	12,0	40,0	350,0	0,40
963.8112	7/8"	13,0	46,0	350,0	0,40
963.8113	15/16"	15,0	49,0	370,0	0,40
963.8114	31/32"	15,0	49,0	370,0	0,65
963.8115	1"	16,0	54,0	370,0	0,65
963.8116	1.1/16"	16,0	54,0	370,0	0,65
963.8117	1.1/8"	16,0	54,0	400,0	0,65
963.8118	1.3/16"	17,0	62,0	400,0	0,65
963.8119	1.1/4"	18,0	65,0	400,0	0,95
963.8120	1.5/16"	18,0	65,0	400,0	0,95
963.8121	1.3/8"	20,0	75,0	430,0	0,95
963.8122	1.7/16"	20,0	75,0	430,0	1,40
963.8123	1.1/2"	21,0	85,0	430,0	1,40
963.8124	1.9/16"	21,0	85,0	470,0	1,40
963.8125	1.5/8"	21,0	85,0	470,0	1,90
963.8126	1.11/16"	21,0	85,0	470,0	1,90
963.8127	1.3/4"	22,0	95,0	500,0	1,90
963.8128	1.13/16"	22,0	95,0	500,0	2,70
963.8129	1.7/8"	22,0	95,0	500,0	2,70
963.8130	2"	24,0	105,0	530,0	3,55

BRONZE^{plus} Installation open end spanner with mandrel, offset

- Mouth 75° offset
- Practical combination of open ended spanner and setting punch
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



		A mm	B mm	L mm	
963.8131	17	11,0	35,0	320,0	0,16
963.8132	18	12,0	40,0	320,0	0,16
963.8133	19	12,0	40,0	350,0	0,51
963.8134	20	12,0	40,0	350,0	0,51
963.8135	21	13,0	46,0	350,0	0,51
963.8136	22	13,0	46,0	350,0	0,51
963.8137	23	15,0	49,0	370,0	0,33
963.8138	24	15,0	49,0	370,0	0,34
963.8139	25	15,0	49,0	370,0	0,34
963.8140	26	16,0	54,0	370,0	0,37
963.8141	27	16,0	54,0	370,0	0,37
963.8142	28	17,0	62,0	400,0	0,37
963.8143	29	17,0	62,0	400,0	0,54
963.8144	30	17,0	62,0	400,0	0,54
963.8145	32	18,0	65,0	400,0	0,65
963.8146	33	18,0	65,0	400,0	0,65
963.8147	34	18,0	65,0	400,0	0,65

		A mm	B mm	L mm	
963.8148	35	20,0	75,0	430,0	1,54
963.8149	36	20,0	75,0	430,0	1,54
963.8150	37	20,0	75,0	430,0	1,54
963.8151	38	21,0	85,0	430,0	1,54
963.8152	41	21,0	85,0	470,0	2,09
963.8153	42	21,0	85,0	470,0	2,09
963.8154	46	22,0	95,0	500,0	2,97
963.8155	47	22,0	95,0	500,0	2,97
963.8156	50	24,0	105,0	530,0	3,90

		A mm	B mm	L mm	
963.8157	11/16"	11,0	35,0	290,0	0,16
963.8158	7/8"	13,0	46,0	355,0	0,51
963.8159	15/16"	15,0	49,0	355,0	0,51
963.8160	1.1/16"	16,0	54,0	380,0	0,37
963.8161	1.3/16"	17,0	62,0	410,0	0,55
963.8162	1.1/4"	18,0	65,0	380,0	0,58
963.8163	1.7/16"	20,0	75,0	460,0	1,54
963.8164	1.1/2"	21,0	85,0	460,0	0,65
963.8165	1.5/8"	21,0	85,0	510,0	2,09
963.8166	1.13/16"	22,0	95,0	550,0	2,97
963.8167	2"	24,0	105,0	550,0	3,90

BRONZE^{plus} Installation ring spanner with mandrel, offset

- Ring head 75° offset
- Practical combination of ring spanner and setting punch
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



		A mm	B mm	L mm	
963.8168	17	12,0	28,0	320,0	0,20
963.8169	18	12,0	28,0	320,0	0,31
963.8170	19	13,0	30,0	350,0	0,51
963.8171	20	13,0	30,0	350,0	0,51
963.8172	21	15,0	34,0	350,0	0,51
963.8173	22	15,0	34,0	350,0	0,51
963.8174	23	17,0	38,0	370,0	0,40
963.8175	24	17,0	38,0	370,0	0,40
963.8176	25	17,0	38,0	370,0	0,35
963.8177	26	21,0	43,0	370,0	0,55
963.8178	27	21,0	43,0	370,0	0,56
963.8179	28	23,0	48,0	400,0	0,54
963.8180	29	23,0	48,0	400,0	0,57
963.8181	30	23,0	48,0	400,0	0,64
963.8182	32	24,0	50,0	400,0	0,63
963.8183	33	24,0	50,0	400,0	0,63
963.8184	34	25,0	56,0	400,0	0,75
963.8185	35	25,0	56,0	430,0	1,54
963.8186	36	25,0	56,0	430,0	1,54
963.8187	37	25,0	56,0	430,0	1,54
963.8188	38	25,0	56,0	430,0	1,54
963.8189	41	27,0	62,0	470,0	2,09
963.8190	42	27,0	62,0	470,0	2,09
963.8191	46	29,0	71,0	500,0	2,97
963.8192	47	29,0	71,0	500,0	2,97
963.8193	50	33,0	76,0	530,0	3,90

		A mm	B mm	L mm	
963.8194	11/16"	12,0	28,0	290,0	0,30
963.8195	7/8"	13,0	30,0	355,0	0,51
963.8196	15/16"	13,0	30,0	355,0	0,51
963.8197	1.1/16"	21,0	43,0	380,0	0,56
963.8198	1.3/16"	23,0	48,0	410,0	0,64
963.8199	1.1/4"	24,0	50,0	380,0	0,64
963.8200	5/7/16"	25,0	56,0	460,0	1,54
963.8201	1.1/2"	25,0	56,0	460,0	1,02
963.8202	1.5/8"	27,0	62,0	510,0	2,09
963.8203	1.13/16"	29,0	71,0	550,0	2,97
963.8204	2"	33,0	76,0	550,0	3,90

NON SPARKING HOSE COUPLING WRENCHES & HOOK WRENCHES

BRONZEplus Coupling spanner A-B-C

- For fire brigade (Storz) couplings A - B - C
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	Ø mm	L mm	kg
963.8205	14	440,0	800

BRONZEplus Coupling spanner B-C

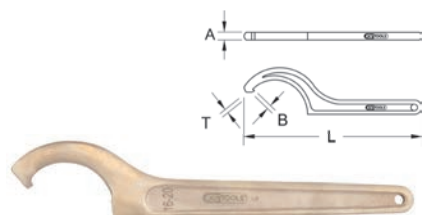
- For fire brigade (Storz) couplings B - C
- Handle insulated with plastic against cold
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	Ø mm	L mm	kg
963.8206	12	280,0	450

BRONZEplus hook wrench with spigot

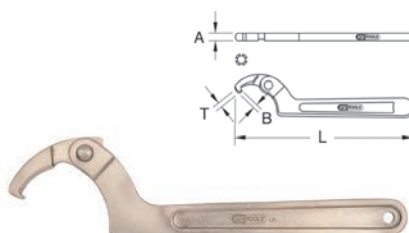
- In accordance to DIN 1810 Form B
- With spigot for for cross drilled nuts to DIN 1816
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	Span width mm	A mm	B mm	L mm	T mm	kg
963.8210	12-14	3,0	1,5	110,0	2,0	0,03
963.8211	16-20	3,0	2	110,0	2,5	0,03
963.8212	25-28	4,0	2,5	135,0	3,0	0,05
963.8213	30-32	4,0	2,5	135,0	4,0	0,05
963.8214	34-36	5,0	3	170,0	4,0	0,10
963.8215	40-42	5,0	3	170,0	4,0	0,10
963.8216	45-50	6,0	3,5	205,0	5,0	0,19
963.8217	52-55	6,0	3,5	205,0	5,0	0,19
963.8218	58-62	7,0	4	240,0	5,0	0,24
963.8219	68-75	7,0	4	240,0	6,0	0,20
963.8220	80-90	8,0	5	280,0	6,0	0,41
963.8221	95-100	8,0	5	280,0	8,0	0,41
963.8222	110-115	10,0	6	335,0	8,0	0,73
963.8223	120-130	10,0	6	335,0	8,0	0,73
963.8224	135-145	12,0	7	390,0	8,0	1,15
963.8225	155-165	12,0	7	390,0	8,0	1,15
963.8226	180-195	14,0	8	465,0	10,0	1,41
963.8227	205-220	14,0	8	465,0	10,0	1,84

BRONZEplus pivot hook wrench with pin

- In accordance to DIN 1810 Form A
- With pin for for slotted nuts to DIN 981
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	Span width mm	A mm	B mm	L mm	T mm	kg
963.8207	32-75	8,0	6,0	205,0	5,0	230
963.8208	50-120	10,0	7,0	285,0	6,0	450
963.8209	115-170	12,0	10,0	310,0	7,0	500

NON SPARKING SPECIAL BITS

BRONZEplus Slide claw

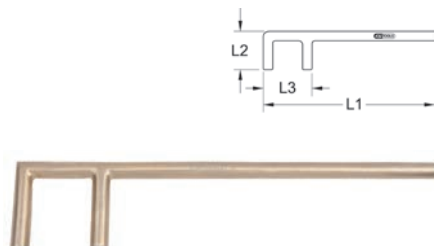
- Handle insulated with plastic against cold
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	L mm	kg
963.8228	30-40	500,0	720

BRONZEplus valve hook

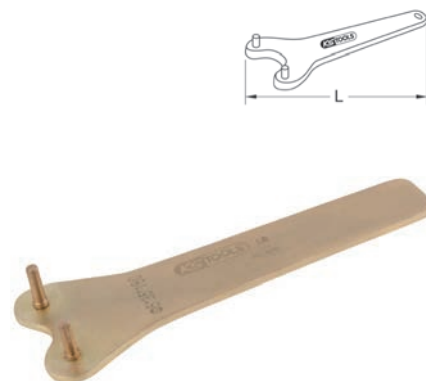
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	Ø mm	L1 mm	L2 mm	L3 mm	kg
963.8229	13	300,0	50,0	30,0	0,35
963.8230	13	350,0	55,0	35,0	0,60
963.8231	16	400,0	60,0	40,0	0,68
963.8232	16	450,0	65,0	45,0	1,10
963.8233	19	500,0	70,0	50,0	1,20
963.8234	22	600,0	75,0	60,0	2,00
963.8235	25	700,0	80,0	70,0	3,00
963.8236	28	800,0	85,0	80,0	5,30

BRONZEplus Face pin spanner

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	Pin key mm	Stud Ø mm	L mm	kg
963.8237	35,0	5,0	180,0	150

BRONZEplus Adjustable face pin spanner

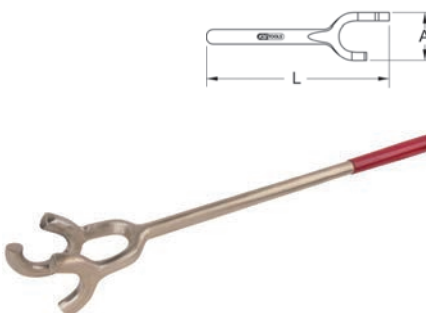
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	Stud Ø mm	Zapfenhöhe mm	Length mm	kg
963.0029	3,0	4,0	160,0	75

BRONZEplus hand key

- In accordance to DIN 87311
- Handle insulated with plastic against cold
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	Ø mm	A mm	L mm	kg
963.8238	36x60	60,0	370,0	0,65
963.8239	48x80	80,0	430,0	2,60
963.8240	62x102	102,0	550,0	1,30

BRONZEplus B-hand key

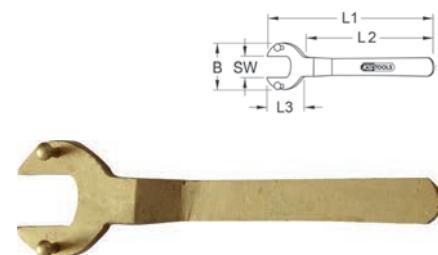
- In accordance with DIN 87311
- Handle insulated with plastic against cold
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	Ø mm	L mm	kg
963.8241	36x60	330,0	0,60
963.8242	48x80	470,0	1,40
963.8243	62x102	600,0	2,60

BRONZEplus Spanner for tanker valve

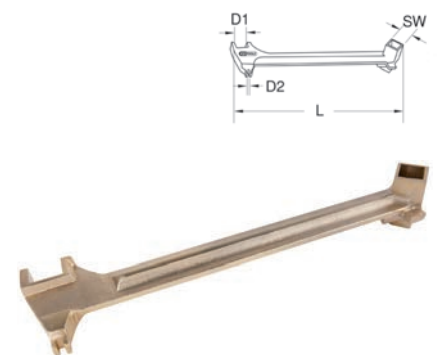
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



Type	mm	Stud Ø mm	B mm	L1 mm	L2 mm	L3 mm	kg
963.8244	A	64,0 x 32,0	20,0	90,0	660,0	500,0	1,80
963.8245	B	64,0 x 32,0	20,0	90,0	650,0	500,0	1,60
963.8246	C	95,0 x 47,5	20,0	90,0	690,0	500,0	2,50

BRONZEplus universal barrel key

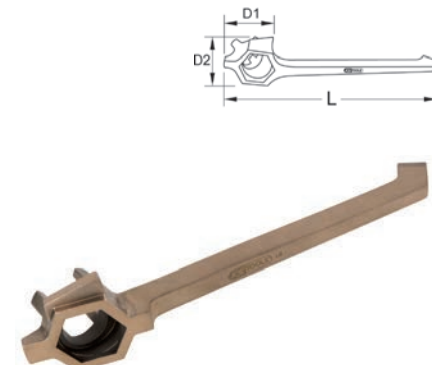
- For 22 barrel clasps
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	L mm	D1 mm	D2 mm	kg
963.8270	18 x 22	380,0	27,0	6,0	1,25

BRONZEplus universal barrel key

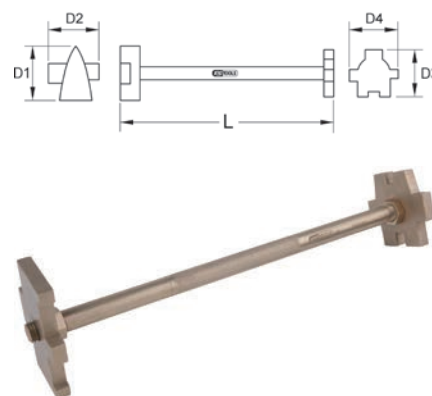
- For current plug cover caps
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	D1 mm	D2 mm	L mm	kg
963.8271	38,0	52,0	300,0	600

BRONZEplus universal barrel key

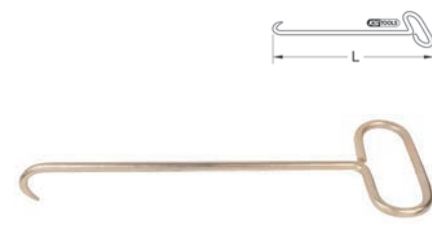
- For current barrel clasps
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	D1 mm	D2 mm	D3 mm	D4 mm	L mm	kg
963.8272	70,0	70,0	65,0	95,0	400,0	1,70

BRONZEplus Sewer lid hook

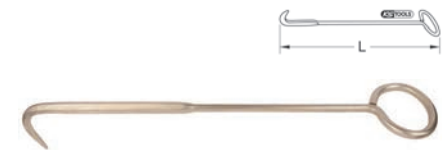
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	kg
963.8273	500,0	770

BRONZEplus Sewer lid hook, reinforced

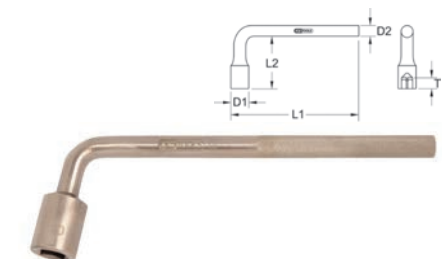
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	kg
963.8274	700,0	1,20

NON SPARKING BOX SPANNERS
BRONZEplus box spanner, offset

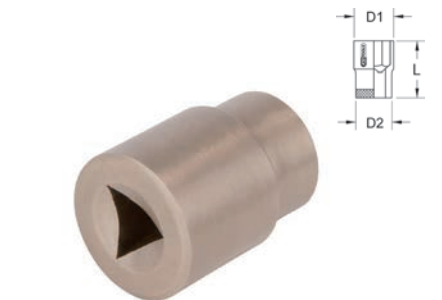
- 4 point
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	D1 mm	D2 mm	L1 mm	L2 mm	T mm	kg
963.8247	8	18,0	8,0	150,0	33,0	15,0	90
963.8248	9	20,0	8,0	160,0	35,0	15,0	100
963.8249	10	22,0	8,0	175,0	37,0	15,0	120
963.8250	12	24,0	10,0	215,0	42,0	18,0	220
963.8251	13	26,0	10,0	230,0	45,0	18,0	280
963.8252	14	27,0	12,0	240,0	45,0	18,0	280
963.8253	17	32,0	14,0	280,0	51,0	22,0	330

BRONZEplus socket

- 3-point
- In accordance with DIN 3124 / ISO 2725-1
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	D1 mm	D2 mm	L mm	kg
963.8254	6	16,0	25,0	40,0	70
963.8255	8	18,0	25,0	40,0	80
963.8256	10	22,0	25,0	40,0	80
963.8257	12	24,0	25,0	40,0	90
963.8258	16	30,0	25,0	50,0	150
963.8259	20	37,0	28,0	50,0	220
963.8260	25	44,0	32,0	60,0	400

BRONZEplus socket

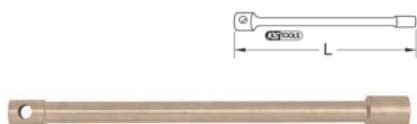
- 3-point
- In accordance to DIN 22417
- With pushed through, movable drive handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	L mm	kg
963.8261	4	95,0	0,08
963.8262	5	110,0	0,10
963.8263	6	115,0	0,17
963.8264	8	125,0	0,28
963.8265	10	140,0	0,39
963.8266	12	160,0	0,70
963.8267	16	180,0	0,98
963.8268	20	200,0	2,10
963.8269	24	220,0	3,10

BRONZEplus box spanner

- 6 point
- For use with tommy bar
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	L mm	kg
963.8275	8	190,0	1
963.8276	9	200,0	1
963.8277	10	215,0	1
963.8278	11	230,0	2
963.8279	12	250,0	2
963.8280	13	265,0	3
963.8281	14	265,0	3
963.8282	15	280,0	3
963.8283	16	280,0	3
963.8284	17	300,0	4
963.8285	18	300,0	4
963.8286	19	325,0	4
963.8287	20	325,0	4
963.8288	21	350,0	4
963.8289	22	350,0	4
963.8290	23	380,0	5
963.8291	24	380,0	5
963.8292	25	415,0	5
963.8293	26	415,0	5
963.8294	27	415,0	5
963.8295	28	450,0	6
963.8296	29	450,0	6
963.8297	30	450,0	6
963.8298	32	485,0	6
963.8299	33	485,0	6
963.8300	34	485,0	6

	mm	L mm	kg
963.8301	35	530,0	7
963.8302	36	530,0	7
963.8303	37	530,0	7
963.8304	38	530,0	7
963.8305	41	580,0	8
963.8306	42	580,0	8
963.8307	46	635,0	8
963.8308	47	635,0	8
963.8309	50	320,0	9,10
963.8310	52	320,0	9,10
963.8311	54	340,0	9,10
963.8312	55	340,0	9,10
963.8313	56	340,0	9,10
963.8314	58	360,0	9,10
963.8315	60	360,0	9,10
963.8316	63	360,0	9,10
963.8317	65	380,0	11
963.8318	67	380,0	11
963.8319	70	380,0	11
963.8320	71	380,0	11
963.8321	75	400,0	11
963.8322	77	400,0	11
963.8323	80	400,0	11
963.8324	82	400,0	11
963.8325	85	425,0	12
963.8326	88	425,0	12
963.8327	90	425,0	12
963.8328	94	455,0	12
963.8329	95	455,0	12
963.8330	100	455,0	12

BRONZEplus Tommy bar for box spanner

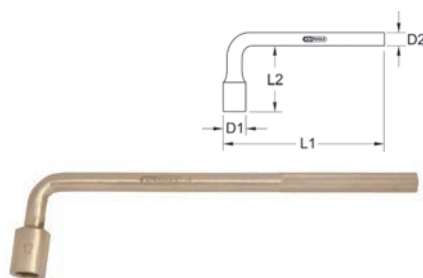
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	D mm	L mm	#	kg
963.8331	10	6,0	150,0	1	0,04
963.8332	12	8,0	190,0	2	0,10
963.8333	16	10,0	190,0	3	0,09
963.8334	22	10,0	250,0	4	0,18
963.8335	27	12,0	315,0	5	0,31
963.8336	34	16,0	400,0	6	0,60
963.8337	38	16,0	500,0	7	0,92
963.8338	47	20,0	630,0	8	1,60
963.8339	63	24,0	800,0	9	2,70
963.8340	63	24,0	1000,0	10	3,50
963.8341	82	30,0	1250,0	11	6,00
963.8342	100	36,0	1600,0	12	12,00

BRONZEplus box spanner, offset

- 6 point
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

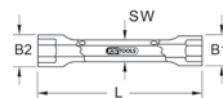


	mm	D1 mm	D2 mm	L1 mm	L2 mm	kg
963.8343	8	16,0	8,0	175,0	30,0	0,10
963.8344	9	17,0	8,0	185,0	33,0	0,12

	mm	D1 mm	D2 mm	L1 mm	L2 mm	kg
963.8345	10	18,0	8,0	195,0	37,0	0,14
963.8346	11	20,0	9,0	205,0	42,0	0,18
963.8347	12	21,0	9,0	220,0	42,0	0,22
963.8348	13	22,0	10,0	240,0	45,0	0,28
963.8349	14	22,0	10,0	240,0	45,0	0,28
963.8350	15	25,0	11,0	250,0	48,0	0,30
963.8351	16	25,0	11,0	250,0	48,0	0,30
963.8352	17	27,0	12,0	270,0	51,0	0,32
963.8353	18	27,0	12,0	270,0	53,0	0,32
963.8354	19	30,0	12,0	290,0	55,0	0,53
963.8355	20	30,0	12,0	290,0	57,0	0,53
963.8356	21	32,0	12,0	310,0	57,0	0,68
963.8357	22	32,0	12,0	310,0	59,0	0,68
963.8358	23	35,0	14,0	335,0	63,0	0,83
963.8359	24	35,0	14,0	335,0	63,0	0,83
963.8360	25	39,0	14,0	365,0	69,0	1,00
963.8361	26	39,0	14,0	365,0	69,0	1,00
963.8362	27	39,0	14,0	365,0	69,0	1,00
963.8363	28	43,0	15,0	395,0	72,0	1,30
963.8364	29	43,0	15,0	395,0	72,0	1,30
963.8365	30	43,0	15,0	395,0	72,0	1,30
963.8366	32	47,0	16,0	425,0	75,0	1,70
963.8367	33	47,0	16,0	425,0	75,0	1,70
963.8368	34	47,0	18,0	425,0	75,0	1,70
963.8369	35	52,0	18,0	465,0	80,0	2,80
963.8370	36	52,0	18,0	465,0	80,0	2,80
963.8371	37	52,0	18,0	465,0	80,0	2,80
963.8372	38	52,0	18,0	465,0	80,0	2,80
963.8373	41	58,0	20,0	510,0	85,0	3,60
963.8374	42	58,0	20,0	510,0	85,0	3,60
963.8375	46	65,0	21,0	555,0	90,0	4,00
963.8376	47	65,0	21,0	555,0	90,0	4,00
963.8377	50	72,0	22,0	605,0	93,0	4,80
963.8378	52	72,0	22,0	605,0	93,0	4,80
963.8379	54	76,0	24,0	660,0	97,0	6,40
963.8380	55	76,0	24,0	660,0	97,0	6,40
963.8381	56	76,0	24,0	660,0	97,0	6,40
963.8382	58	84,0	25,0	730,0	103,0	8,20
963.8383	60	84,0	25,0	730,0	103,0	8,20
963.8384	63	89,0	25,0	730,0	103,0	8,20
963.8385	65	89,0	27,0	800,0	108,0	10,40
963.8386	67	95,0	27,0	800,0	108,0	10,40
963.8387	70	95,0	27,0	800,0	115,0	10,40
963.8388	71	95,0	27,0	800,0	115,0	10,40
963.8389	75	105,0	30,0	880,0	120,0	14,10
963.8390	77	105,0	30,0	880,0	120,0	14,10
963.8391	80	112,0	30,0	880,0	125,0	14,10
963.8392	82	112,0	30,0	880,0	125,0	14,10

BRONZEplus box spanner, double sided

- 6 point
- For use with open ended spanner or tommy bar
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	B1 mm	B2 mm	L mm	kg
963.8393	7x8	14,0	15,0	10	0,05
963.8394	9x10	16,0	18,0	10	0,07
963.8395	10x11	18,0	19,0	14	0,18
963.8396	12x14	21,0	22,0	17	0,16
963.8397	14x17	24,0	27,0	17	0,36
963.8398	17x19	27,0	30,0	19	0,28
963.8399	19x22	30,0	32,0	22	0,58
963.8400	20x22	32,0	39,0	22	0,58
963.8401	24x26	35,0	39,0	24	0,48
963.8402	24x27	35,0	39,0	24	0,53
963.8403	27x32	39,0	47,0	27	0,87
963.8404	30x32	43,0	47,0	27	0,89
963.8405	30x36	43,0	52,0	30	1,08
963.8406	36x41	52,0	58,0	32	1,70

BRONZEplus Tommy bar for box spanner

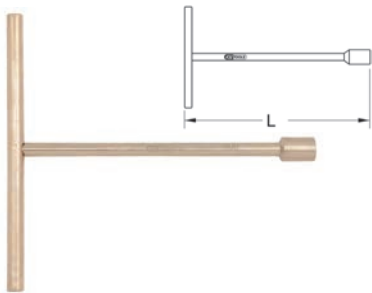
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	D mm	L mm	 mm	#	
963.8407	5,0	110,0	7x8	1	20
963.8408	6,0	150,0	10x11	2	40
963.8409	10,0	220,0	14x17	3	120
963.8410	12,0	300,0	20x22	4	300
963.8411	15,0	390,0	24x27	5	480
963.8412	16,0	500,0	36x41	6	750

BRONZEplus Hexagonal socket spanner firm sliding bar

- 6 point
- With fixed drive handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

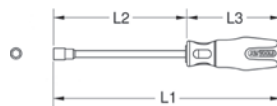


	 mm	L mm	
963.8413	8	196,0	0,14
963.8414	9	209,0	0,25
963.8415	10	223,0	0,19
963.8416	11	240,0	0,26
963.8417	12	256,0	0,31
963.8418	13	275,0	0,41
963.8419	14	275,0	0,41
963.8420	15	292,0	0,40
963.8421	16	292,0	0,45
963.8422	17	314,0	0,50
963.8423	18	314,0	0,55
963.8424	19	339,0	0,55
963.8425	20	339,0	0,55
963.8426	21	376,0	1,05
963.8427	22	376,0	1,05
963.8428	23	393,0	1,24
963.8429	24	393,0	1,24
963.8430	25	431,0	1,70
963.8431	26	431,0	1,70
963.8432	27	431,0	1,70
963.8433	28	464,0	2,10
963.8434	29	464,0	2,10
963.8435	30	464,0	2,10
963.8436	32	506,0	2,75
963.8437	33	506,0	2,75
963.8438	34	506,0	2,75
963.8439	35	550,0	4,00
963.8440	36	550,0	4,00
963.8441	37	550,0	4,00
963.8442	38	550,0	4,00
963.8443	41	600,0	5,40
963.8444	42	600,0	5,40
963.8445	46	655,0	6,00
963.8446	47	655,0	6,00
963.8447	50	345,0	6,30
963.8448	52	345,0	6,30
963.8449	54	365,0	8,00
963.8450	55	365,0	8,00
963.8451	56	365,0	8,00

	 mm	L mm	
963.8452	58	390,0	10,50
963.8453	60	390,0	10,50
963.8454	63	390,0	10,50
963.8455	65	410,0	14,00
963.8456	67	410,0	14,00
963.8457	70	410,0	14,00
963.8458	71	410,0	14,00
963.8459	75	430,0	19,00
963.8460	77	430,0	19,00
963.8461	80	430,0	19,00
963.8462	82	430,0	19,00

BERYLLIUMplus socket screwdriver

- 6 point
- Two component handle
- Optimal power transmission
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	 mm	L1 mm	L2 mm	L3 mm	
962.0970	3,5	175,0	75,0	100,0	80
962.0971	4,5	180,0	80,0	100,0	80
962.0972	5	180,0	80,0	100,0	60
962.0973	5,5	185,0	85,0	100,0	60
962.0974	6	190,0	90,0	100,0	80
962.0975	6,5	190,0	90,0	100,0	90
962.0976	7	190,0	90,0	100,0	80
962.0977	7,5	200,0	100,0	100,0	80
962.0978	8	200,0	100,0	100,0	100
962.0979	9	210,0	110,0	100,0	100
962.0980	10	210,0	110,0	100,0	150
962.0981	11	220,0	110,0	110,0	150
962.0982	12	220,0	110,0	110,0	130
962.0983	13	230,0	120,0	110,0	170
962.0984	14	230,0	120,0	110,0	210
962.0985	15	240,0	130,0	110,0	210
962.0986	16	240,0	130,0	110,0	260
962.0987	17	250,0	130,0	120,0	280



		L1 mm	L2 mm	L3 mm	
962.0988	1/8"	175,0	75,0	100,0	10
962.0989	5/32"	180,0	80,0	100,0	70
962.0990	3/16"	185,0	85,0	100,0	60
962.0991	7/32"	190,0	90,0	100,0	80
962.0992	1/4"	190,0	90,0	100,0	80
962.0993	5/16"	210,0	100,0	110,0	100
962.0994	3/8"	220,0	110,0	110,0	100
962.0995	7/16"	230,0	120,0	110,0	170
962.0996	1/2"	230,0	120,0	110,0	210
962.0997	9/16"	240,0	120,0	120,0	120
962.0998	5/8"	250,0	130,0	120,0	150
962.0999	11/16"	250,0	130,0	120,0	240

BRONZEplus Pronged wrench

- Light work in inaccessible places
- For use with tommy bar
- Jaw 90° offset
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	 mm	L mm		
963.8463	13	160,0	1	0,10
963.8464	14	160,0	1	0,10
963.8465	15	200,0	1	0,17
963.8466	16	200,0	2	0,17
963.8467	17	200,0	2	0,17
963.8468	18	200,0	2	0,19
963.8469	19	200,0	3	0,22
963.8470	20	200,0	3	0,25
963.8471	21	200,0	3	0,26
963.8472	22	200,0	3	0,30
963.8473	23	200,0	4	0,35
963.8474	24	250,0	4	0,40
963.8475	25	250,0	4	0,40
963.8476	26	250,0	4	0,45
963.8477	27	250,0	4	0,45
963.8478	28	250,0	5	0,50
963.8479	29	250,0	5	0,55
963.8480	30	250,0	5	0,60
963.8481	32	250,0	5	0,65
963.8482	36	250,0	6	0,70
963.8483	41	315,0	6	1,15
963.8484	46	315,0	7	1,23
963.8485	50	315,0	7	1,50

BRONZEplus Tommy bar for pronged wrench

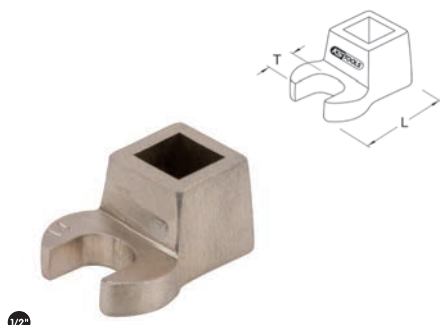
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



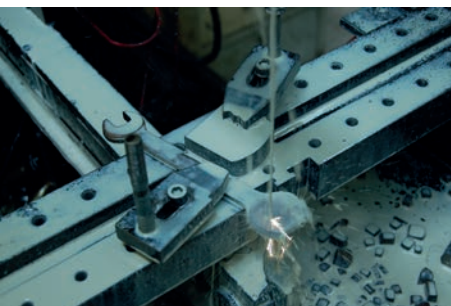
	 mm	D mm	L mm	#	
963.8486	13-15	8,0	160,0	1	0,07
963.8487	16-18	10,0	200,0	2	0,13
963.8488	19-22	12,0	200,0	3	0,22
963.8489	23-27	14,0	250,0	4	0,40
963.8490	28-32	16,0	250,0	5	0,60
963.8491	36-41	18,0	315,0	6	1,00
963.8492	46-50	20,0	315,0	7	1,60

BRONZEplus Crowfoot wrench, hexagonal

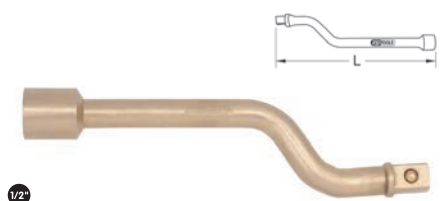
- 6 point
- Internal square drive
- For manual operation
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	L mm	T mm	kg
963.8493	13	40,0	15,0	50
963.8494	14	40,0	15,0	50
963.8495	15	43,0	20,0	80
963.8496	16	43,0	20,0	80
963.8497	17	43,0	20,0	80
963.8498	18	49,0	22,0	110
963.8499	19	49,0	22,0	120
963.8500	20	49,0	22,0	130
963.8501	21	52,0	26,0	150
963.8502	22	52,0	26,0	170
963.8503	23	52,0	29,0	200
963.8504	24	55,0	29,0	200
963.8505	25	55,0	32,0	220
963.8506	26	59,0	32,0	220
963.8507	27	59,0	32,0	250
963.8508	28	59,0	32,0	270
963.8509	29	63,0	34,0	300
963.8510	30	63,0	34,0	320
963.8511	32	67,0	37,0	350
963.8512	36	76,0	42,0	570
963.8513	41	86,0	48,0	620
963.8514	46	97,0	55,0	750
963.8515	50	105,0	60,0	800


BRONZEplus Special extender for crowfoot spanner

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	L mm	kg
963.8516	1/2	150,0	200
963.8517	1/2	250,0	400

NON SPARKING FRICTION RATCHETS
BRONZEplus Construction ratchet

- 6 point
- With centring point
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	L mm	kg
963.1105	17	230,0	0,62
963.1106	19	240,0	0,65
963.1107	21	250,0	0,83
963.1108	22	260,0	0,83
963.1109	24	270,0	1,02
963.1110	26	280,0	1,05
963.1111	27	285,0	1,10
963.1112	30	300,0	1,32
963.1113	32	315,0	1,10
963.1114	35	325,0	1,63
963.1115	36	330,0	1,67
963.1116	41	330,0	1,95

BERYLLIUMplus Friction ratchet

- 12 point
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	L mm	kg
962.0109	9	150,0	0,15
962.0111	11	150,0	0,15
962.0113	13	155,0	0,16
962.0114	14	155,0	0,16
962.0117	17	200,0	0,26
962.0119	19	200,0	0,26
962.0122	22	220,0	0,34
962.0124	24	220,0	0,34
962.0127	27	245,0	0,56
962.0130	30	280,0	0,84
962.0132	32	280,0	0,84
962.0136	36	290,0	1,18
962.0141	41	295,0	1,23
962.0146	46	360,0	2,06
962.0150	50	360,0	2,23
962.0155	55	440,0	2,90
962.0160	60	440,0	2,90


1/4" DRIVE NON SPARKING SOCKETS
BERYLLIUMplus socket

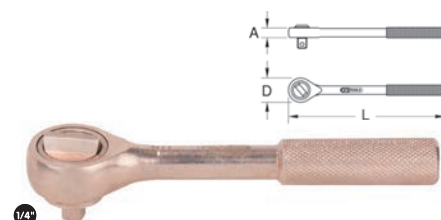
- 6 point
- In accordance to DIN 3124 / ISO 2725-1
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	mm	D1 mm	D2 mm	L mm	kg
962.1404	4,0	10,0	15,0	25,0	10
962.14045	4,5	10,0	15,0	25,0	10
962.1405	5,0	11,0	15,0	25,0	10
962.14055	5,5	11,0	15,0	25,0	10
962.1406	6,0	12,0	15,0	25,0	10
962.1407	7,0	13,0	15,0	25,0	10
962.1408	8,0	14,0	15,0	25,0	20
962.1409	9,0	15,0	15,0	25,0	20
962.1410	10,0	16,0	15,0	25,0	20
962.1411	11,0	18,0	15,0	25,0	20
962.1412	12,0	19,0	15,0	27,0	30
962.1413	13,0	20,0	15,0	27,0	30
962.1414	14,0	22,0	15,0	27,0	30

BERYLLIUMplus reversible ratchet

- In accordance to DIN 3122 / ISO 3315
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Reversible
- Gearing with 45 teeth
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	mm	A mm	D mm	L mm	kg
962.1490	1/4"	15,0	30,0	150,0	200

BERYLLIUMplus Ratchet handle with coupler

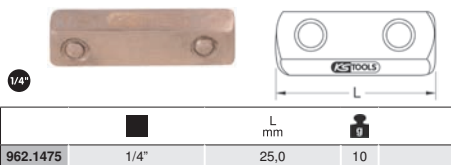
- Square drive to DIN 3120 / ISO 1174 with ball lock
- The direction of rotation (clockwise and counter clockwise) can be changed by simply rotating the square drive piece
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	mm	A mm	D mm	L mm	kg
962.1491	1/4"	14,0	36,0	150,0	320

BERYLLIUM^{plus} Coupler

- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



		L mm	1/4"
962.1475	1/4"	25,0	10

BERYLLIUM^{plus} Extension

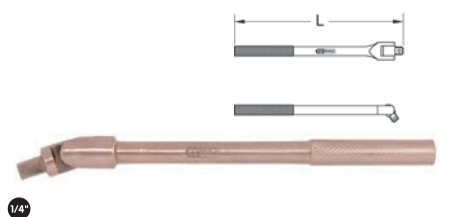
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



		L mm	1/4"
962.1450	1/4"	55,0	20
962.1451	1/4"	100,0	60
962.1452	1/4"	200,0	100

BERYLLIUM^{plus} Swivel handle

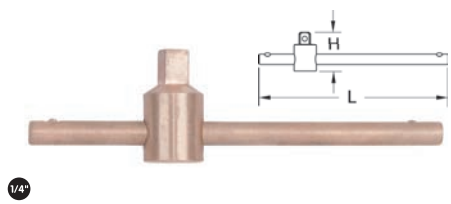
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



		L mm	1/4"
962.1455	1/4"	165,0	160
962.1456	1/4"	215,0	350

BERYLLIUM^{plus} sliding T-handle

- In accordance to DIN 3122 / ISO 3315
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



		H mm	L mm	1/4"
962.1460	1/4"	28,0	200,0	160

BERYLLIUM^{plus} Square drive screwdriver

- Square drive to DIN 3120 / ISO 1174 with ball lock
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



		L1 mm	L2 mm	L3 mm	1/4"
962.1465	1/4"	140,0	55,0	85,0	90

BERYLLIUM^{plus} adaptor and reducing adaptor

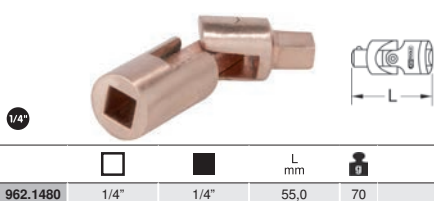
- In accordance to DIN 3123 / ISO 3316
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



			L mm	1/4"
962.1470	1/4"	1/2"	30,0	40
963.1280	1/2"	1/4"	40,0	60

BERYLLIUM^{plus} universal joint

- In accordance to DIN 3123 / ISO 3316
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



			L mm	1/4"
962.1480	1/4"	1/4"	55,0	70

BERYLLIUM^{plus} Socket set

- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)
- In durable plastic storage case



				1/4"
962.1485	15 pcs	BERYLLIUM ^{plus} Socket set		1000
13 x		4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11		
1 x		100 mm		
1 x		250 mm		

1/2" DRIVE NON SPARKING SOCKETS

BRONZE^{plus} socket

- 6 point
- In accordance to DIN 3124 / ISO 2725-1
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



		D1 mm	D2 mm	L mm	1/2"
963.1204	6	14,0	24,0	40,0	70
963.1205	7	14,0	24,0	40,0	80
963.1206	8	15,0	24,0	40,0	50
963.1207	9	16,0	24,0	40,0	50
963.1208	10	17,0	24,0	40,0	50
963.1209	11	19,0	24,0	40,0	50
963.1210	12	20,0	24,0	40,0	50
963.1211	13	20,0	24,0	40,0	50
963.1212	14	24,0	24,0	40,0	80
963.1213	15	25,0	25,0	40,0	90
963.1214	16	25,0	25,0	40,0	60
963.1215	17	26,0	26,0	40,0	90
963.1216	18	29,0	27,0	40,0	120
963.1217	19	30,0	28,0	40,0	130
963.1218	20	31,0	28,0	40,0	130
963.1219	21	32,0	28,0	40,0	100
963.1220	22	33,0	28,0	40,0	110
963.1221	23	34,0	31,0	40,0	120
963.1222	24	35,0	31,0	40,0	150
963.1223	25	36,0	32,0	40,0	130
963.1224	26	37,0	34,0	40,0	180
963.1225	27	38,0	34,0	40,0	150
963.1226	28	40,0	36,0	40,0	200
963.1227	29	42,0	36,0	40,0	220
963.1228	30	43,0	40,0	40,0	250
963.1229	32	45,0	42,0	42,0	240
963.1230	34	48,0	42,0	50,0	300
963.1231	36	50,0	42,0	50,0	380
963.1341	41	57,0	44,0	50,0	560

		D1 mm	D2 mm	L mm	1/2"
963.1249	1/4"	15,0	24,0	40,0	50
963.1250	5/16"	15,0	24,0	40,0	50
963.1251	11/32"	16,0	24,0	40,0	50
963.1252	3/8"	17,0	24,0	40,0	50
963.1253	13/32"	18,0	24,0	40,0	50
963.1254	7/16"	19,0	24,0	40,0	50
963.1255	1/2"	21,0	24,0	40,0	50
963.1256	9/16"	23,0	24,0	40,0	80
963.1257	19/32"	24,0	24,0	40,0	90
963.1258	5/8"	26,0	26,0	40,0	60
963.1259	11/16"	28,0	26,0	40,0	90
963.1260	3/4"	29,0	26,0	40,0	130
963.1261	25/32"	31,0	26,0	40,0	130
963.1262	13/16"	32,0	26,0	40,0	130
963.1263	7/8"	33,0	28,0	40,0	110
963.1264	15/16"	35,0	31,0	40,0	120
963.1265	1"	36,0	34,0	40,0	130
963.1266	1.1/16"	39,0	34,0	40,0	150
963.1267	1.1/8"	41,0	36,0	40,0	220
963.1268	1.3/16"	43,0	40,0	40,0	250
963.1269	1.1/4"	45,0	42,0	42,0	240



BRONZEplus socket, long

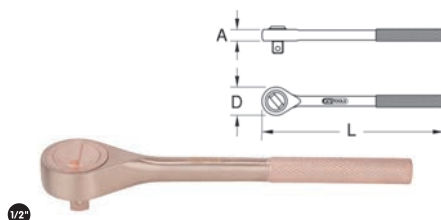
- 6 point
- In accordance to DIN 3124 / ISO 2725-1
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	D1 mm	D2 mm	L mm	g
963.1232	10	19,0	25,0	77,0	110
963.1233	12	20,0	25,0	77,0	170
963.1234	13	21,0	25,0	77,0	170
963.1235	14	22,0	25,0	77,0	110
963.1236	15	25,0	25,0	77,0	120
963.1237	16	25,0	25,0	77,0	170
963.1238	17	27,0	27,0	77,0	140
963.1239	18	28,0	28,0	82,0	250
963.1240	19	30,0	28,0	82,0	180
963.1241	21	32,0	28,0	82,0	260
963.1242	22	33,0	28,0	82,0	210
963.1243	24	36,0	30,0	82,0	250
963.1244	27	40,0	30,0	82,0	400
963.1245	30	44,0	32,0	82,0	510
963.1246	32	46,0	32,0	82,0	550
963.1247	34	48,0	34,0	82,0	710
963.1248	36	50,0	34,0	82,0	760

BERYLLIUMplus reversible ratchet

- In accordance to DIN 3122 / ISO 3315
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Reversible
- Gearing with 45 teeth
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	mm	A mm	D mm	L mm	g
962.1290	1/2"	23,0	54,0	250,0	590

BERYLLIUMplus Ratchet handle with coupler

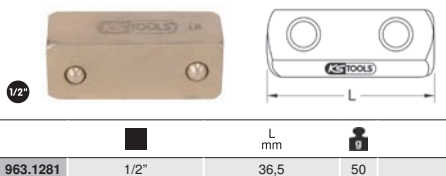
- Square drive to DIN 3120 / ISO 1174 with ball lock
- The direction of rotation (clockwise and counter clockwise) can be changed by simply rotating the square drive piece
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	mm	A mm	D mm	L mm	g
962.1291	1/2"	17,0	45,0	250,0	430

BRONZEplus Coupler

- Square drive to DIN 3120 / ISO 1174 with ball lock
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



BRONZEplus extension

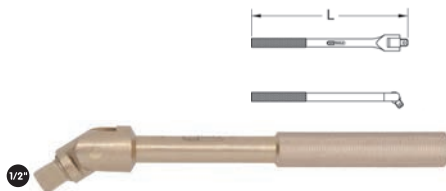
- In accordance to DIN 3123 / ISO 3316
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	L mm	g
963.1270	1/2"	100,0	180
963.1271	1/2"	200,0	270
963.1272	1/2"	250,0	360

BRONZEplus flexi drive handle

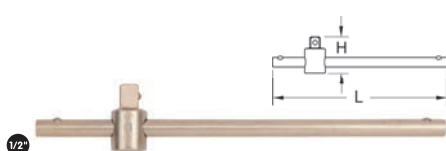
- In accordance to DIN 3122 / ISO 3315
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	L mm	g
963.1273	1/2"	215,0	350
963.1274	1/2"	250,0	560
963.1275	1/2"	300,0	920
963.1276	1/2"	380,0	590

BRONZEplus sliding T-handle

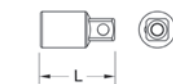
- In accordance to DIN 3122 / ISO 3315
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	H mm	L mm	g
963.1277	1/2"	46,0	250,0	450
963.1278	1/2"	46,0	320,0	550

BRONZEplus adaptor and reducing adaptor

- In accordance to DIN 3123 / ISO 3316
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	L mm	g
963.1279	1/2"	22,0	120
963.1280	1/2"	40,0	60

BRONZEplus universal joint

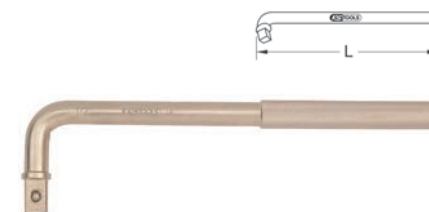
- In accordance to DIN 3123 / ISO 3316
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	L mm	g
963.1282	1/2"	70,0	170

BRONZEplus L-Handle

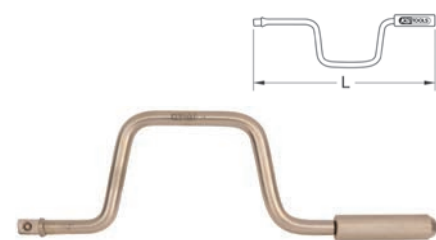
- In accordance to DIN ISO 2936
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	L mm	g
963.1283	1/2"	220,0	260
963.1284	1/2"	260,0	400

BRONZEplus Speed brace

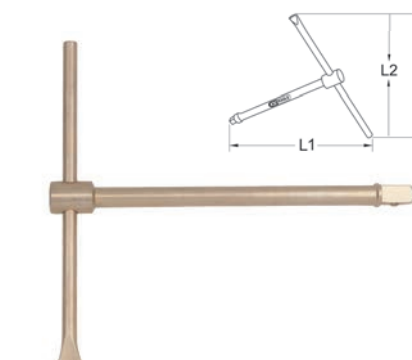
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	1/2"	L mm	Weight g
963.1285	1/2"	410,0	700

BRONZEplus T-handle

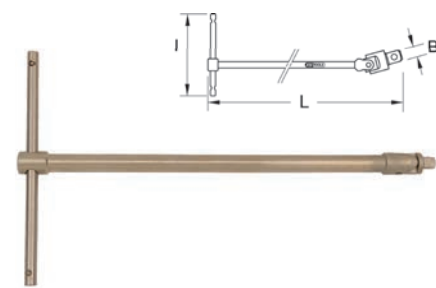
- In accordance to DIN 3122 / ISO 3315
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	1/2"	L1 mm	L2 mm	Weight g
963.1286	1/2"	245,0	220,0	500

BRONZEplus T-handle

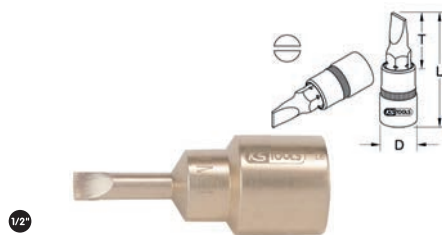
- In accordance to DIN 3122 / ISO 3315
- Square drive in accordance to DIN 3122 / ISO 1174 with ball lock
- With flexible head
- For difficult to access areas
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	1/2"	B mm	I mm	L mm	Weight g
963.1287	1/2"	12,5	250,0	460,0	760

BRONZEplus Bit socket for slotted screws

- Slotted
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	D mm	L mm	T mm	Weight g
963.1292	4,0	25,0	60,0	9,0	140
963.1293	6,0	25,0	60,0	9,0	140
963.1294	8,0	25,0	60,0	9,0	140
963.1295	10,0	25,0	60,0	9,0	140

BRONZEplus Bit socket for phillips head screws PH

- PH
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



		D mm	L mm	T mm	Weight g
963.1296	PH 1	25,0	60,0	8,0	140
963.1297	PH 2	25,0	60,0	8,0	140
963.1298	PH 3	25,0	60,0	8,0	140
963.1299	PH 4	25,0	60,0	8,0	140

BRONZEplus Bit socket for hexagon screws

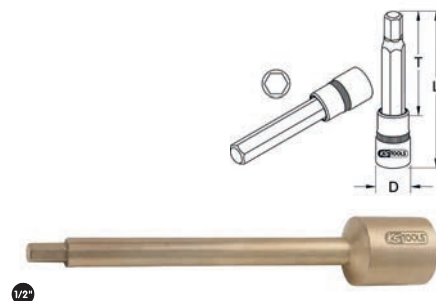
- Hexagon socket
- In accordance with DIN 7422
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	D mm	L mm	T mm	Weight g
963.1300	4	25,0	60,0	12,0	110
963.1301	5	25,0	60,0	12,0	70
963.1302	6	25,0	60,0	12,0	70
963.1303	7	25,0	60,0	12,0	110
963.1304	8	25,0	60,0	12,0	80
963.1305	9	25,0	60,0	12,0	110
963.1306	10	25,0	60,0	12,0	110
963.1307	12	25,0	60,0	12,0	120
963.1308	14	25,0	60,0	12,0	130
963.1309	17	25,0	60,0	12,0	140
963.1310	19	25,0	60,0	12,0	230

BRONZEplus Bit socket for hexagon screws, long

- Hexagon socket
- In accordance with DIN 7422
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	D mm	L mm	T mm	Weight g
963.1311	5	25,0	90,0	12,0	90
963.1312	5	25,0	180,0	12,0	100
963.1313	6	25,0	90,0	12,0	80
963.1314	6	25,0	140,0	12,0	120
963.1315	6	25,0	160,0	12,0	130
963.1316	7	25,0	100,0	12,0	90
963.1317	8	25,0	90,0	12,0	90
963.1318	8	25,0	120,0	12,0	160
963.1319	10	25,0	140,0	12,0	150
963.1320	12	25,0	140,0	12,0	190
963.1321	14	25,0	140,0	12,0	250

BRONZEplus Socket set

- 6 point
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)
- In durable plastic storage case



	Weight g
963.1288 11 pcs BRONZEplus Socket set	5,30
9 x 10 - 11 - 13 - 14 - 15 - 17 - 19 - 22 - 24 mm	
1 x 100 mm	
1 x 250 mm	

	Weight g
963.1289 23 pcs BRONZEplus Socket set	4,10
22 x 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25 - 26 - 27 - 28 - 29 - 30 - 32 mm	
1 x 250 mm	

963.1290			
24 pcs	BRONZEplus Socket set	2,00	
22 x		10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-32 mm	
1 x		250 mm	
1 x		250 mm	

963.1291			
26 pcs	BRONZEplus Socket set	4,10	
22 x		10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-32 mm	
1 x		250 mm	
1 x		250 mm	
1 x		320 mm	
1 x		380 mm	

BRONZEplus Bit socket set for hexagon screws

- Hexagon socket
- In accordance with DIN 7422
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)
- In wooden box with spark-free hinges



963.1322			
9 pcs	BRONZEplus Bit socket set for hexagon screws	1,24	
9 x		1/2": 5 - 6 - 7 - 8 - 9 - 10 - 12 - 14 - 17 mm	

963.1323			
11 pcs	BRONZEplus Bit socket set for hexagon screws	2,99	
1 x		1/2"	
1 x		1/2": 250 mm	
9 x		1/2": 5 - 6 - 7 - 8 - 9 - 10 - 12 - 14 - 17 mm	

963.1324			
15 pcs	BRONZEplus Bit socket set for hexagon screws	2,79	
9 x		1/2": 5 - 6 - 7 - 8 - 9 - 10 - 12 - 14 - 17 mm	
6 x		1/2": 5/90 - 6/90 - 8/90 - 10/140 - 12/140 - 14/140 mm	

3/4" DRIVE NON SPARKING SOCKETS

BRONZEplus socket

- 6 point
- In accordance to DIN 3124 / ISO 2725-1
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



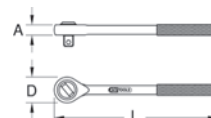
3/4"	mm	D1 mm	D2 mm	L mm	g
963.3405	18	31,0	36,0	60,0	180
963.3406	19	32,0	36,0	60,0	180
963.3407	21	34,0	36,0	60,0	180
963.3408	22	36,0	36,0	60,0	180
963.3409	24	38,0	36,0	55,0	350
963.3410	25	39,0	36,0	55,0	350
963.3411	26	40,0	36,0	50,0	330
963.3412	27	41,0	36,0	50,0	300
963.3413	28	42,0	38,0	50,0	300
963.3414	29	43,0	38,0	50,0	300
963.3415	30	45,0	38,0	50,0	310
963.3416	32	48,0	40,0	60,0	430
963.3417	33	50,0	40,0	60,0	450
963.3418	34	50,0	40,0	60,0	470
963.3419	35	51,0	44,0	55,0	400
963.3420	36	52,0	44,0	60,0	430
963.3421	38	55,0	46,0	60,0	490
963.3422	41	64,0	50,0	65,0	560
963.3423	42	64,0	50,0	65,0	600
963.3424	46	68,0	50,0	65,0	840
963.3425	50	72,0	55,0	70,0	1080
963.3426	55	80,0	60,0	70,0	900
963.3427	58	80,0	60,0	60,0	950
963.3428	60	82,0	60,0	70,0	1290

3/4"	mm	D1 mm	D2 mm	L mm	g
963.3429	7/8"	36,0	36,0	60,0	180
963.3430	15/16"	39,0	36,0	55,0	350
963.3431	1"	39,0	36,0	55,0	350
963.3432	1.1/16"	41,0	36,0	50,0	300
963.3433	1.1/8"	41,0	36,0	50,0	300
963.3434	1.1/4"	48,0	40,0	60,0	430
963.3435	1.5/16"	50,0	40,0	60,0	400
963.3436	1.3/8"	52,0	44,0	55,0	400
963.3437	1.7/16"	55,0	46,0	60,0	430
963.3438	1.1/2"	55,0	46,0	60,0	490
963.3439	1.9/16"	55,0	46,0	60,0	490
963.3440	1.5/8"	64,0	50,0	65,0	560
963.3441	1.11/16"	64,0	50,0	65,0	560
963.3442	1.3/4"	68,0	50,0	65,0	600
963.3443	1.13/16"	68,0	50,0	65,0	840
963.3444	1.7/8"	68,0	50,0	65,0	1000
963.3445	2"	72,0	55,0	70,0	700



BERYLLIUMplus reversible ratchet

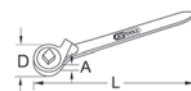
- In accordance to DIN 3122 / ISO 3315
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Reversible
- Gearing with 45 teeth
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



3/4"	A mm	D mm	L mm	g
962.3490	22,0	59,0	300,0	1,90

BERYLLIUMplus Ratchet handle with coupler

- Square drive to DIN 3120 / ISO 1174 with ball lock
- The direction of rotation (clockwise and counter clockwise) can be changed by simply rotating the square drive piece
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



3/4"	A mm	D mm	L mm	g
962.3491	22,0	60,0	500,0	1,80

BRONZEplus Coupler

- Square drive to DIN 3120 / ISO 1174 with ball lock
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



3/4"	L mm	g
963.3457	51,5	130

BRONZE^{plus} extension

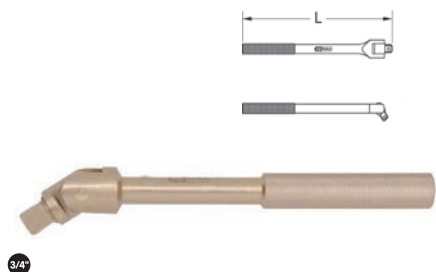
- In accordance to DIN 3123 / ISO 3316
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



		L mm	g
963.3446	3/4"	100,0	0,35
963.3447	3/4"	250,0	0,70
963.3448	3/4"	380,0	1,67
963.3449	3/4"	430,0	1,50

BRONZE^{plus} flexi drive handle

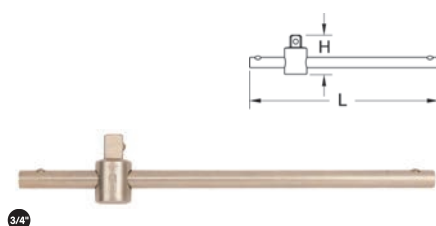
- In accordance to DIN 3122 / ISO 3315
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



		L mm	g
963.3450	3/4"	380,0	1,40
963.3451	3/4"	460,0	1,30
963.3452	3/4"	550,0	1,95

BRONZE^{plus} sliding T-handle

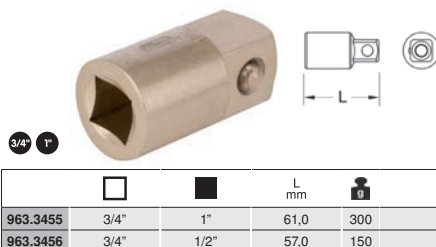
- In accordance to DIN 3122 / ISO 3315
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



		H mm	L mm	g
963.3453	3/4"	65,0	260,0	0,60
963.3454	3/4"	65,0	500,0	1,48

BRONZE^{plus} adaptor and reducing adaptor

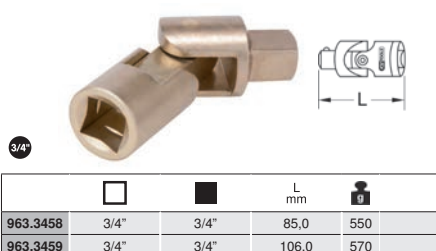
- In accordance to DIN 3123 / ISO 3316
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



		L mm	g
963.3455	3/4"	61,0	300
963.3456	3/4"	57,0	150

BRONZE^{plus} universal joint

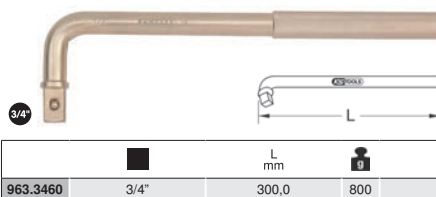
- In accordance to DIN 3123 / ISO 3316
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



		L mm	g
963.3458	3/4"	85,0	550
963.3459	3/4"	106,0	570

BRONZE^{plus} L-Handle

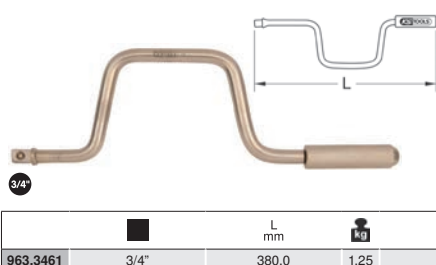
- In accordance to DIN ISO 2936
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



		L mm	g
963.3460	3/4"	300,0	800

BRONZE^{plus} Speed brace

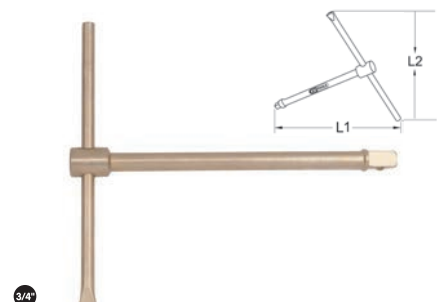
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



		L mm	g
963.3461	3/4"	380,0	1,25

BRONZE^{plus} T-handle

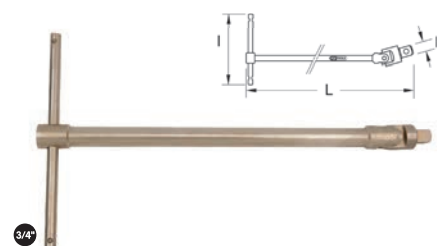
- In accordance to DIN 3122 / ISO 3315
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



		L1 mm	L2 mm	g
963.3462	3/4"	260,0	250,0	850

BRONZE^{plus} T-handle

- In accordance to DIN 3122 / ISO 3315
- Square drive in accordance to DIN 3122 / ISO 1174 with ball lock
- With flexible head
- For difficult to access areas
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



		B mm	L mm	g
963.3463	3/4"	20,0	300,0	1,20

BRONZE^{plus} Bit socket for hexagon screws

- Hexagon socket
- In accordance with DIN 7422
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	D mm	L mm	T mm	g
963.3465	14	36,0	80,0	18,0	350
963.3466	17	36,0	80,0	18,0	390
963.3467	19	36,0	80,0	18,0	440
963.3468	22	36,0	80,0	18,0	480
963.3469	24	36,0	80,0	18,0	520
963.3470	27	36,0	80,0	18,0	550
963.3471	30	36,0	80,0	18,0	570
963.3472	32	36,0	80,0	18,0	590
963.3473	36	36,0	80,0	18,0	620
963.3474	41	36,0	90,0	18,0	720
963.3475	46	36,0	90,0	18,0	820

BRONZEplus Socket set

- 6 point
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)
- In durable plastic storage case



963.3464	12 pcs	BRONZEplus Socket set	12,70	
7 x		36 - 38 - 41 - 46 - 50 - 55 - 60 mm		
1 x		380 mm		
1 x		300 mm		
1 x		500 mm		
1 x		380 mm		

1" DRIVE NON SPARKING SOCKETS
BRONZEplus socket

- 6 point
- In accordance to DIN 3124 / ISO 2725-1
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

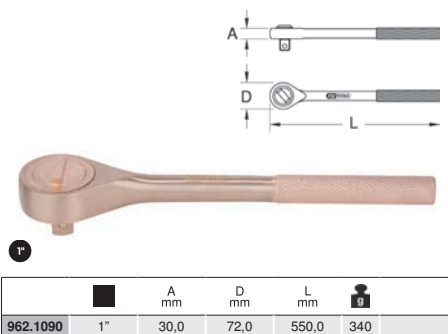


	mm	D1 mm	D2 mm	L mm	kg
963.0088	19	33,0	46,0	55,0	0,28
963.0089	21	35,0	46,0	55,0	0,30
963.0091	22	37,0	46,0	55,0	0,33
963.0092	24	39,0	47,0	55,0	0,34
963.0093	26	42,0	47,0	55,0	0,35
963.0094	27	44,0	48,0	55,0	0,36
963.0095	29	46,0	48,0	60,0	0,37
963.0096	30	48,0	50,0	60,0	0,41
963.1005	32	50,0	50,0	60,0	0,51
963.1006	36	52,0	50,0	65,0	0,55
963.1007	41	63,0	50,0	70,0	0,73
963.1008	42	63,0	50,0	65,0	0,71
963.1009	46	67,0	52,0	65,0	0,71
963.1010	50	72,0	52,0	70,0	0,93
963.1011	55	78,0	60,0	75,0	1,13
963.1012	60	83,0	60,0	75,0	1,35
963.1013	65	90,0	65,0	75,0	1,50
963.1014	70	98,0	75,0	85,0	1,75
963.1015	75	104,0	75,0	85,0	2,30
963.1016	80	110,0	85,0	85,0	2,50
963.1017	85	116,0	85,0	90,0	2,80
963.1018	90	120,0	90,0	85,0	4,40
963.1019	95	130,0	95,0	85,0	4,50
963.1020	100	136,0	95,0	85,0	4,60

		D1 mm	D2 mm	L mm	kg
963.1021	1.7/16"	52,0	50,0	65,0	0,55
963.1022	1.1/2"	54,0	50,0	65,0	0,68
963.1023	1.5/8"	63,0	50,0	70,0	0,73
963.1024	1.11/16"	65,0	50,0	65,0	0,71
963.1025	1.13/16"	68,0	52,0	65,0	0,71
963.1026	1.7/8"	69,0	52,0	65,0	0,73
963.1027	2"	70,0	52,0	70,0	0,93
963.1028	2.1/16"	73,0	60,0	70,0	0,95
963.1029	2.3/16"	77,0	60,0	75,0	1,13
963.1030	2.3/8"	82,0	65,0	75,0	1,13
963.1031	2.1/4"	80,0	65,0	75,0	1,35
963.1032	2.7/16"	83,0	65,0	75,0	1,40
963.1033	2.9/16"	90,0	70,0	75,0	1,50
963.1034	2.5/8"	91,0	70,0	75,0	1,55
963.1035	2.3/4"	96,0	75,0	85,0	1,75
963.1036	2.13/16"	98,0	75,0	85,0	1,75
963.1037	2.15/16"	103,0	80,0	85,0	2,30
963.1038	3"	104,0	80,0	85,0	2,35
963.1039	3.1/8"	110,0	80,0	85,0	2,50
963.1040	3.3/8"	116,0	85,0	90,0	2,80
963.1041	3.1/2"	120,0	90,0	90,0	4,40
963.1042	3.3/4"	130,0	95,0	90,0	4,50
963.1043	3.7/8"	135,0	95,0	90,0	4,60
963.1044	4.1/4"	113,0	85,0	90,0	5,00

BERYLLIUMplus reversible ratchet

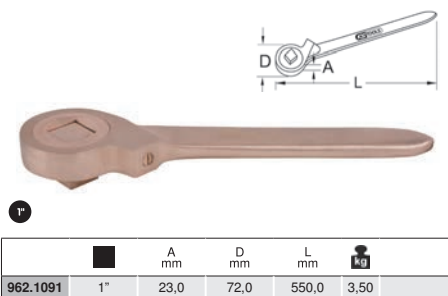
- In accordance to DIN 3122 / ISO 3315
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Reversible
- Gearing with 45 teeth
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



		A mm	D mm	L mm	kg
962.1090	1"	30,0	72,0	550,0	340

BERYLLIUMplus Ratchet handle with coupler

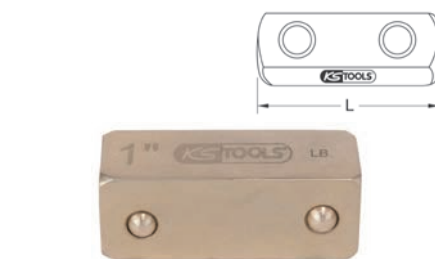
- Square drive to DIN 3120 / ISO 1174 with ball lock
- The direction of rotation (clockwise and counter clockwise) can be changed by simply rotating the square drive piece
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



		A mm	D mm	L mm	kg
962.1091	1"	23,0	72,0	550,0	3,50


BRONZEplus Coupler

- Square drive to DIN 3120 / ISO 1174 with ball lock
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



		L mm	kg
963.1051	1"	68,0	300

BRONZEplus extension

- In accordance to DIN 3123 / ISO 3316
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



		L mm	kg
963.1045	1"	100,0	0,80
963.1046	1"	250,0	1,40
963.1047	1"	400,0	2,09

BRONZEplus flexi drive handle

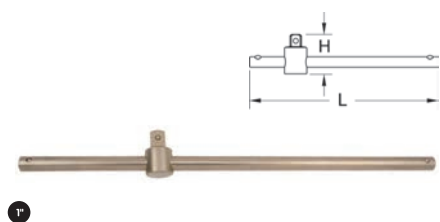
- In accordance to DIN 3122 / ISO 3315
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



		L mm	kg
963.1048	1"	380,0	1,20

BRONZEplus sliding T-handle

- In accordance to DIN 3122 / ISO 3315
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



		H mm	L mm	
963.1049	1"	76,0	700,0	2,80

BRONZEplus reducing adaptor

- In accordance to DIN 3123 / ISO 3316
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



		L mm	
963.1050	1"	3/4"	540

BRONZEplus universal joint

- In accordance to DIN 3123 / ISO 3316
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

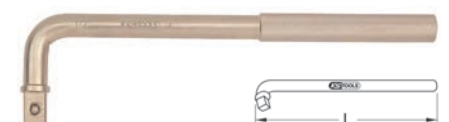


		L mm	
963.1052	1"	141,0	1,45



BRONZEplus L-Handle

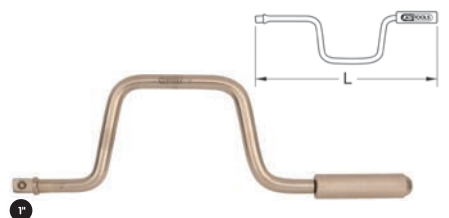
- In accordance to DIN ISO 2936
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



		L mm	
963.1053	1"	300,0	1,00

BRONZEplus Speed brace

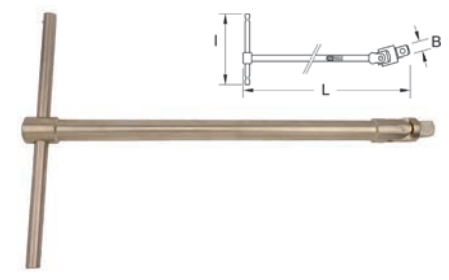
- Square drive to DIN 3120 / ISO 1174 with ball lock
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



		L mm	
963.1054	1"	380,0	1,40

BRONZEplus T-handle

- In accordance to DIN 3122 / ISO 3315
- Square drive in accordance to DIN 3122 / ISO 1174 with ball lock
- With flexible head
- For difficult to access areas
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



		B mm	I mm	L mm	
963.1055	1"	25,0	400,0	660,0	1,70

BRONZEplus Bit socket for hexagon screws

- Hexagon socket
- In accordance with DIN 7422
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



		D mm	L mm	T mm	
963.1056	17	47,0	90,0	23,0	0,58
963.1057	19	47,0	90,0	23,0	0,67
963.1058	22	47,0	90,0	23,0	0,71
963.1059	24	47,0	90,0	23,0	0,77
963.1060	27	47,0	90,0	23,0	0,86
963.1061	30	47,0	90,0	23,0	0,91
963.1062	32	47,0	90,0	23,0	0,95
963.1063	36	47,0	90,0	23,0	0,99
963.1064	41	47,0	100,0	23,0	1,20
963.1065	46	47,0	100,0	23,0	1,40

BRONZEplus Socket set

- 6 point
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)
- In durable plastic storage case



		
963.1066	23 pcs BRONZEplus Socket set	33,10
10 x	 36 - 41 - 46 - 50 - 55 - 60 - 65 - 70 - 75 - 80 mm	
10 x	 1.1/2" - 1.5/8" - 1.7/8" - 2" - 2.1/16" - 2.1/4" - 2.3/8" - 2.9/16" - 2.3/4" - 3"	
2 x	 250 - 400 mm	
1 x	 550 mm	

		
963.1067	13 pcs BRONZEplus Socket set	21,10
10 x	 36 - 41 - 46 - 50 - 55 - 60 - 65 - 70 - 75 - 80 mm	
2 x	 250 - 400 mm	
1 x	 550 mm	

1 1/2" DRIVE NON SPARKING SOCKETS

BRONZEplus socket

- 6 point
- In accordance to DIN 3124 / ISO 2725-1
- Internal square to DIN 3120 / ISO 1174 with ball reception
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	D1 mm	D2 mm	L mm	kg
963.0001	55	81,0	74,0	90,0	2,30
963.0002	60	87,0	74,0	90,0	2,50
963.0003	65	94,0	74,0	95,0	2,85
963.0004	70	99,0	80,0	98,0	3,10
963.0005	75	105,0	80,0	100,0	3,40
963.0006	80	112,0	80,0	105,0	3,80
963.0007	85	118,0	80,0	110,0	4,20
963.0008	90	124,0	90,0	115,0	4,49

NON SPARKING SCREWDRIVERS

BERYLLIUMplus screwdriver for slotted screws

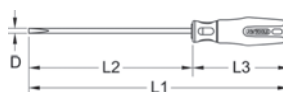
- Slotted
- In accordance to DIN ISO 2380-2 / 2380-1 Form A
- With hanging hole
- Two component handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	D mm	L1 mm	L2 mm	L3 mm	kg
962.0911	3,0	165,0	75,0	90,0	30
962.0307	4,0	152,0	50,0	102,0	35
962.0308	4,0	177,0	75,0	102,0	40
962.0309	4,0	202,0	100,0	102,0	45
962.0912	4,5	200,0	100,0	100,0	30
962.0913	4,5	250,0	150,0	100,0	60
962.0311	5,0	177,0	75,0	102,0	65
962.0312	5,0	202,0	100,0	109,0	70
962.0914	6,0	200,0	100,0	100,0	80
962.0314	6,0	134,0	125,0	109,0	95
962.0915	6,0	250,0	150,0	100,0	90
962.0916	8,0	260,0	150,0	110,0	130
962.0315	8,0	321,0	200,0	121,0	155
962.0316	9,0	371,0	250,0	121,0	175
962.0917	10,0	320,0	200,0	120,0	190
962.0317	10,0	371,0	250,0	121,0	195
962.0918	10,0	420,0	300,0	120,0	230
962.0319	11,0	421,0	300,0	121,0	175
962.0321	11,0	421,0	350,0	121,0	300
962.0322	12,0	521,0	400,0	121,0	430

BERYLLIUMplus screwdriver for slotted screws, parallel blade

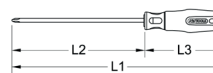
- With parallel blade
- Slotted
- With hanging hole
- Two component handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	D mm	L1 mm	L2 mm	L3 mm	kg
962.0920	3,0	165,0	75,0	90,0	20
962.0921	4,0	240,0	150,0	100,0	20
962.0922	5,0	250,0	150,0	100,0	30
962.0923	6,0	300,0	200,0	100,0	110
962.0924	6,5	400,0	300,0	100,0	150

BERYLLIUMplus screwdriver for Phillips screws PH

- PH
- In accordance to DIN 5262 / ISO 8764-1
- With hanging hole
- Two component handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



		L1 mm	L2 mm	L3 mm	kg
962.0900	PH 0	150,0	60,0	90,0	30
962.0011	PH 1	152,0	50,0	102,0	45
962.0901	PH 1	170,0	80,0	90,0	60
962.0012	PH 1	202,0	100,0	102,0	70
962.0902	PH 2	200,0	100,0	100,0	90
962.0013	PH 2	234,0	125,0	109,0	95
962.0014	PH 2	259,0	150,0	109,0	105
962.0903	PH 3	250,0	150,0	100,0	170
962.0015	PH 3	321,0	200,0	121,0	185
962.0016	PH 3	371,0	250,0	121,0	200
962.0904	PH 4	310,0	200,0	110,0	270
962.0017	PH 4	471,0	350,0	121,0	280
962.0018	PH 4	521,0	400,0	121,0	300
962.0019	PH 4	571,0	450,0	121,0	320

BERYLLIUMplus screwdriver set

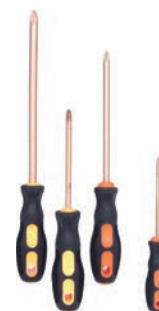
- With hanging hole
- Two component handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



		kg
962.0805	4 pcs BERYLLIUMplus screwdriver set	320
4 x	3 (75 mm) - 4,5 (100 mm) - 6 - 8 (150 mm)	

BERYLLIUMplus screwdriver set

- With hanging hole
- Two component handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



		kg
962.0808	4 pcs BERYLLIUMplus screwdriver set	400
4 x	PH1 - PH2 - PH3 - PH4	

BERYLLIUMplus screwdriver set

- With hanging hole
- Two component handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



		kg
962.0806	6 pcs BERYLLIUMplus screwdriver set	500
4 x	4,5 - 6 (100 mm) - 6 - 8 (150 mm)	
2 x	PH1 - PH2	

BERYLLIUMplus screwdriver set

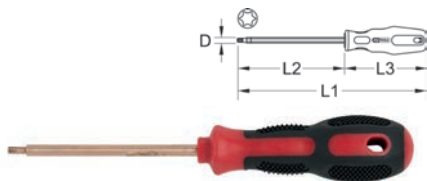
- With hanging hole
- Two component handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



		kg
962.0807	10 pcs BERYLLIUMplus screwdriver set	1,20
6 x	4,5 - 6 (100 mm) - 4,5 - 6 - 8 (150 mm) - 10 (200 mm)	
4 x	PH1 - PH2 - PH3 - PH4	

BERYLLIUM^{plus} screwdriver for Torx screws

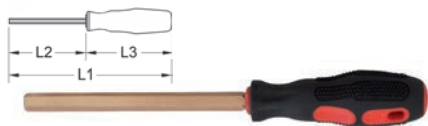
- Torx
- With hanging hole
- Two component handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



		L1 mm	L2 mm	L3 mm	Wt g
962.0930	T5	160,0	70,0	90,0	30
962.0931	T6	160,0	70,0	90,0	70
962.0932	T7	160,0	70,0	90,0	70
962.0933	T8	160,0	70,0	90,0	70
962.0934	T9	160,0	70,0	90,0	70
962.0935	T10	170,0	80,0	90,0	80
962.0936	T15	170,0	80,0	90,0	80
962.0937	T20	190,0	90,0	100,0	80
962.0938	T25	190,0	90,0	100,0	100
962.0939	T27	210,0	110,0	100,0	100
962.0940	T30	210,0	110,0	100,0	110
962.0941	T40	220,0	120,0	100,0	120
962.0942	T45	230,0	120,0	110,0	140
962.0943	T50	230,0	120,0	110,0	150

BRONZE^{plus} screwdriver for hexagon screws

- 6 point
- With hanging hole
- Two component handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	L1 mm	L2 mm	L3 mm	Wt g
963.1068	3,0	190,0	100,0	90,0	40
963.1069	4,0	190,0	100,0	90,0	50
963.1070	5,0	200,0	100,0	100,0	60
963.1071	6,0	225,0	125,0	100,0	90
963.1072	8,0	260,0	150,0	110,0	140
963.1073	10,0	260,0	150,0	110,0	210
963.1074	12,0	280,0	150,0	130,0	280

BRONZE^{plus} screwdriver for hexagon screws, angled

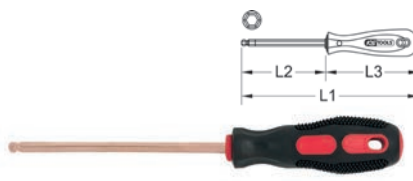
- 6 point
- With hanging hole
- Two component handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	L1 mm	L2 mm	L3 mm	Wt g
963.1505	3,0	153,0	75,0	20,0	40
963.1506	4,0	153,0	75,0	25,0	40
963.1507	5,0	180,0	80,0	28,0	50
963.1508	6,0	180,0	80,0	32,0	100
963.1509	8,0	240,0	120,0	36,0	140
963.1510	10,0	240,0	120,0	40,0	220
963.1511	12,0	240,0	120,0	45,0	290

BERYLLIUM^{plus} screwdriver for hexagon screws with ball end

- 6 point
- With hanging hole
- Two component handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	mm	L1 mm	L2 mm	L3 mm	Wt g
962.0950	3,0	190,0	100,0	90,0	30
962.0951	4,0	190,0	100,0	90,0	50
962.0952	5,0	200,0	100,0	100,0	60
962.0953	6,0	225,0	125,0	100,0	90
962.0954	8,0	260,0	150,0	110,0	140
962.0955	10,0	260,0	150,0	110,0	210
962.0956	12,0	280,0	150,0	130,0	280

NON SPARKING OFFSET SCREWDRIVERS
BRONZE^{plus} key wrench for hexagon socket screws, short

- 6 point
- Short execution
- In accordance to DIN ISO 2936
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	L1 mm	L2 mm	Wt g
962.04015	1,5	55,0	13,0	0,01
962.0402	2,0	55,0	13,0	0,01
962.04025	2,5	55,0	13,0	0,01
963.1519	3,0	60,0	25,0	0,01
963.1520	4,0	70,0	30,0	0,01
963.1521	5,0	80,0	32,0	0,02
963.1522	6,0	90,0	37,0	0,04
963.1523	7,0	95,0	43,0	0,04
963.1524	8,0	100,0	44,0	0,07
963.1525	9,0	105,0	44,0	0,07
963.1526	10,0	115,0	45,0	0,10
963.1527	11,0	119,0	48,0	0,13
963.1528	12,0	125,0	52,0	0,13
963.1529	13,0	132,0	54,0	0,20
963.1530	14,0	140,0	58,0	0,25
963.1531	17,0	160,0	65,0	0,32
963.1532	18,0	170,0	69,0	0,50
963.1533	19,0	180,0	72,0	0,57
963.1534	22,0	200,0	77,0	0,95
963.1535	24,0	224,0	82,0	1,25
963.1536	27,0	250,0	93,0	1,80
963.1537	30,0	280,0	105,0	2,50
963.1538	32,0	315,0	116,0	3,10
963.1539	36,0	355,0	128,0	4,50
963.1540	41,0	400,0	140,0	5,30
962.0420	3/64"	55,0	13,0	0,01
962.0421	1/16"	55,0	13,0	0,01
962.0422	5/64"	55,0	13,0	0,01
962.0423	3/32"	55,0	13,0	0,01
962.0424	1/8"	60,0	24,0	0,01
962.0425	5/32"	70,0	30,0	0,02

	mm	L1 mm	L2 mm	Wt g
963.1541	3/16"	80,0	31,0	0,02
963.1542	7/32"	80,0	37,0	0,02
963.1543	1/4"	90,0	37,0	0,04
963.1544	5/16"	100,0	44,0	0,07
963.1545	3/8"	120,0	45,0	0,10
963.1546	7/16"	119,0	48,0	0,13
963.1547	1/2"	125,0	55,0	0,18
963.1548	9/16"	140,0	58,0	0,25
963.1549	5/8"	140,0	63,0	0,30
963.1550	11/16"	160,0	65,0	0,32
963.1551	3/4"	180,0	73,0	0,57
963.1552	7/8"	200,0	77,0	0,95
963.1553	1"	224,0	85,0	1,26
963.1554	1.1/16"	216,0	93,0	3,08
963.1555	1.1/8"	230,0	95,0	3,30
963.1556	1.1/4"	230,0	116,0	3,30
963.1557	1.5/16"	235,0	116,0	3,52
963.1558	1.3/8"	235,0	128,0	3,52
963.1559	1.7/16"	241,0	128,0	3,74
963.1560	1.1/2"	241,0	128,0	3,74
963.1561	1.5/8"	241,0	140,0	3,74

BRONZE^{plus} Hexagon key wrench set in a folding holder, short

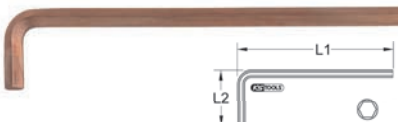
- 6 point
- Short execution
- In accordance to DIN ISO 2936
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	Wt g
963.1512	8 pcs 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	280
963.1513	9 pcs 1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	280
963.1514	10 pcs 1/16" - 5/64" - 3/32" - 1/8" - 5/32" - 3/16" - 7/32" - 1/4" - 5/16" - 3/8"	300

BRONZE^{plus} key wrench for hexagon socket screws, extra long

- 6 point
- Extra long execution
- In accordance to DIN ISO 2936
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	L1 mm	L2 mm	Wt g
963.1562	3,0	126,0	25,0	100
963.1563	4,0	142,0	30,0	30
963.1564	5,0	160,0	32,0	40
963.1565	6,0	180,0	37,0	30
963.1566	8,0	200,0	44,0	70
963.1567	10,0	205,0	45,0	120
963.1568	12,0	250,0	52,0	190
963.1569	14,0	280,0	58,0	300
963.1570	17,0	320,0	65,0	380
963.1571	19,0	360,0	72,0	490

BRONZEplus Hexagon key wrench set in a folding holder, extra long

- 6 point
- Long execution
- In accordance to DIN ISO 2936
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	L1 mm	L2 mm	g
963.1515	8 pcs	2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	400	
963.1516	9 pcs	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	480	

BERYLLIUMplus key wrench for hexagon socket screws with ball end, short

- 6 point
- Short execution
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	mm	L1 mm	L2 mm	g
962.0440	1,5	45,0	13,0	10
962.0441	2,0	50,0	16,0	10
962.0442	2,5	55,0	18,0	10
962.0443	3,0	63,0	20,0	10
962.0444	4,0	70,0	25,0	10
962.0445	5,0	80,0	28,0	20
962.0446	6,0	90,0	32,0	30
962.0447	7,0	95,0	34,0	40
962.0448	8,0	100,0	36,0	60
962.0449	10,0	115,0	40,0	110
962.0450	12,0	130,0	45,0	210
962.0451	14,0	140,0	48,0	260

BERYLLIUMplus key wrench for hexagon socket screws with ball end, extra long

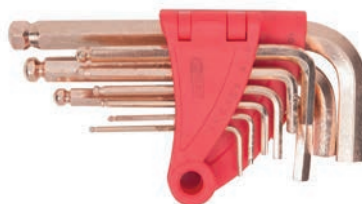
- 6 point
- Extra long execution
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	mm	L1 mm	L2 mm	g
962.0460	3,0	126,0	20,0	10
962.0461	4,0	140,0	25,0	20
962.0462	5,0	160,0	28,0	30
962.0463	6,0	180,0	32,0	50
962.0464	7,0	190,0	34,0	80
962.0465	8,0	200,0	36,0	100
962.0466	10,0	224,0	40,0	180
962.0467	12,0	250,0	45,0	290
962.0468	14,0	290,0	48,0	370

BRONZEplus Hexagon key wrench set in a folding holder, with ball end

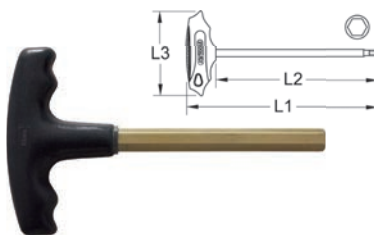
- 6 point
- In accordance to DIN ISO 2936
- With ball head on the long end
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	L1 mm	L2 mm	L3 mm	g
963.1517	8 pcs	2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	250		
963.1518	9 pcs	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	260		

BRONZEplus T-handle hexagon key wrench

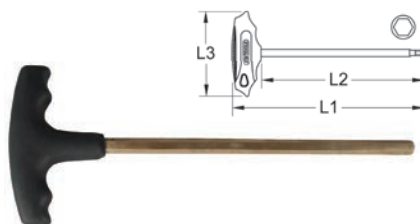
- 6 point
- One component handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	L1 mm	L2 mm	L3 mm	g
963.1572	3,0	143,0	100,0	75,0	20
963.1573	4,0	143,0	100,0	75,0	30
963.1574	5,0	155,0	100,0	91,0	40
963.1575	6,0	155,0	100,0	91,0	40
963.1576	8,0	155,0	100,0	91,0	60
963.1577	10,0	155,0	100,0	91,0	80
963.1578	12,0	155,0	100,0	91,0	160
963.1579	14,0	155,0	100,0	91,0	200

BRONZEplus T-handle hexagon key wrench, long

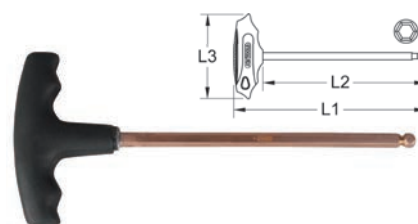
- 6 point
- Extra long execution
- One component handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	L1 mm	L2 mm	L3 mm	g
963.1580	3,0	195,0	150,0	75,0	30
963.1581	4,0	195,0	150,0	75,0	40
963.1582	5,0	205,0	150,0	91,0	60
963.1583	6,0	205,0	150,0	91,0	100
963.1584	8,0	205,0	150,0	91,0	130
963.1585	10,0	205,0	150,0	91,0	140
963.1586	12,0	205,0	150,0	91,0	160
963.1587	14,0	205,0	150,0	91,0	190

BERYLLIUMplus T-handle hexagon key wrench with ball end

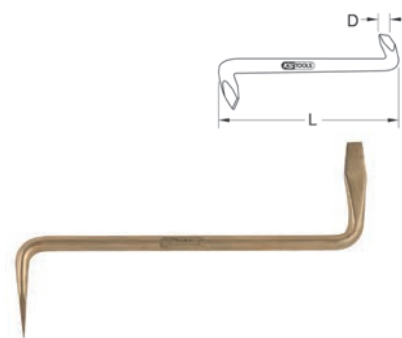
- 6 point
- One component handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	mm	L1 mm	L2 mm	L3 mm	g
962.0960	3,0	145,0	100,0	75,0	40
962.0961	4,0	145,0	100,0	75,0	40
962.0962	5,0	205,0	150,0	91,0	650
962.0963	6,0	205,0	150,0	91,0	90
962.0964	8,0	205,0	150,0	91,0	120
962.0965	10,0	255,0	200,0	91,0	230
962.0966	12,0	255,0	200,0	91,0	300
962.0967	14,0	255,0	200,0	91,0	380

BRONZEplus Key wrench

- Slotted
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

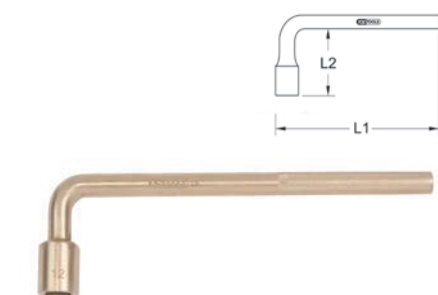


	D mm	L mm	g
963.1588	4,0	125,0	50
963.1589	6,0	130,0	100
963.1590	10,0	140,0	90
963.1591	13,0	190,0	240



BRONZE^{plus} offset screwdriver for square head screws

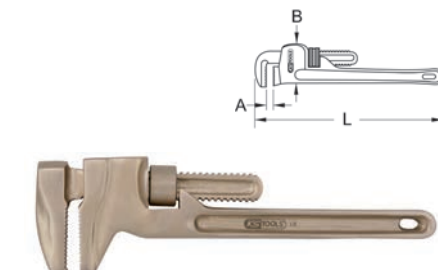
- 4 point
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	mm	L1 mm	L2 mm	kg
963.1592	10	200,0	37,0	0,20
963.1593	11	200,0	37,0	0,20
963.1594	12	200,0	42,0	0,20
963.1595	13	200,0	45,0	0,20
963.1596	14	220,0	45,0	0,40
963.1597	15	220,0	48,0	0,40
963.1598	16	220,0	48,0	0,40
963.1599	17	250,0	51,0	0,60
963.1600	18	250,0	53,0	0,60
963.1601	19	250,0	55,0	0,60
963.1602	20	300,0	57,0	1,00
963.1603	21	300,0	57,0	1,00
963.1604	22	300,0	59,0	1,00
963.1605	24	360,0	63,0	1,60
963.1606	25	360,0	63,0	1,60
963.1607	27	360,0	69,0	1,60
963.1608	28	440,0	69,0	3,20
963.1609	30	440,0	75,0	3,20
963.1610	32	440,0	81,0	3,20

NON SPARKING PLIERS
BRONZE^{plus} one handed pipe wrench

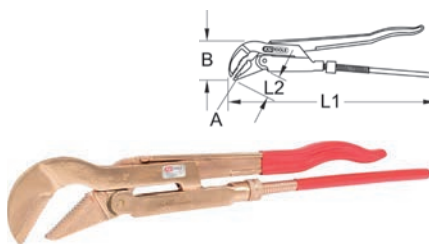
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	A mm	B mm	L mm	kg
963.1705	38,0	50,0	240,0	0,42
963.1706	45,0	50,0	240,0	0,47
963.1707	48,0	53,0	290,0	0,78
963.1708	58,0	64,0	350,0	1,00
963.1709	65,0	64,0	350,0	1,20
963.1710	70,0	75,0	425,0	1,60
963.1711	80,0	80,0	500,0	2,20
963.1712	105,0	90,0	575,0	3,70

BERYLLIUM^{plus} swedish pipe wrench

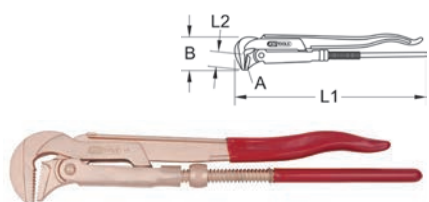
- In accordance to DIN 5234
- 45° angled
- S-shaped jaw
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	A	B mm	L1 mm	L2 mm	kg
962.4005	1"	60,0	200,0	38,0	0,82
962.4006	1.1/2"	70,0	300,0	50,0	1,57
962.4007	2"	72,0	350,0	65,0	3,20
962.4008	3"	100,0	600,0	75,0	4,10
962.4009	4"	122,0	900,0	100,0	6,20

BERYLLIUM^{plus} adjustable pipe wrench

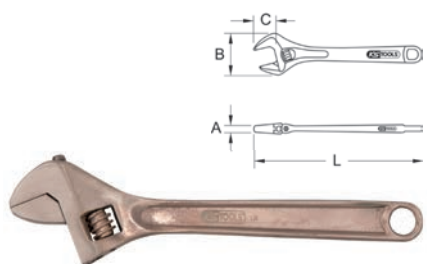
- In accordance to DIN 5234
- 90° angled
- S-shaped jaw
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	A	B mm	L1 mm	L2 mm	kg
962.4015	1.1/2"	80,0	435,0	50,0	1,57
962.4016	2"	95,0	540,0	65,0	3,20

BERYLLIUM^{plus} adjustable spanner

- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	mm	A mm	B mm	C mm	L mm	kg
962.1108	18	9,0	45,0	18,0	150,0	0,10
962.1109	26	10,0	55,0	20,0	200,0	0,20
962.1110	30	11,0	65,0	30,0	250,0	0,40
962.1111	36	12,0	83,0	34,0	300,0	0,70
962.1112	46	15,0	105,0	47,0	380,0	1,40
962.1113	53	17,0	123,0	51,0	450,0	2,70
962.1114	67	19,0	145,0	62,0	600,0	5,10

BRONZE^{plus} chain pipe wrench

- Function is similar to a ratchet
- Light execution
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	Ø mm	L mm	kg
963.1713	50	600,0	1,70
963.1714	100	600,0	2,50
963.1715	150	600,0	3,00
963.1716	450	1600,0	8,00

BRONZE^{plus} chain pipe wrench

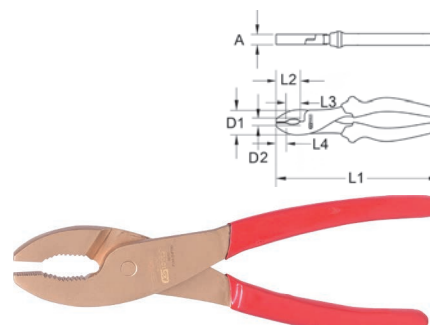
- Function is similar to a ratchet
- American version
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	Ø mm	L mm	kg
963.1717	38	510,0	2,65
963.1718	65	685,0	4,50
963.1719	100	915,0	11,50
963.1720	300	1830,0	30,30

BERYLLIUM^{plus} pipe wrench

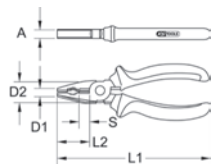
- With PVC dipped handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	L3 mm	L4 mm	kg
962.0607	12,0	30,0	15,0	210,0	40,0	25,0	15,0	370

BERYLLIUM^{plus} combination pliers

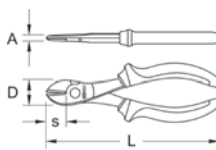
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)
- Two component handle



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm	g
962.0620	10,0	7,0	24,0	160,0	33,0	12,0	350
962.0621	14,0	9,0	29,0	200,0	38,0	16,0	420

BERYLLIUM^{plus} high leverage side cutter

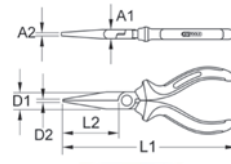
- In accordance to DIN ISO 5749
- Two component handle
- For different wire types
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	A mm	D mm	L mm	S mm	g
962.0617	14,0	30,0	190,0	24,0	290

BERYLLIUM^{plus} flat pliers

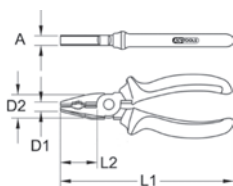
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)
- Two component handle



	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm	g
962.0630	9,0	2,5	18,0	3,2	160,0	48,0	50	
962.0631	11,0	4,0	21,0	5,0	200,0	85,0	150	

BERYLLIUM^{plus} combination pliers, adjustable

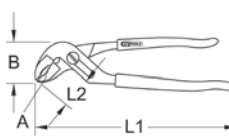
- Two component handle
- Adjustable
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm	g
962.0623	14,0	9,0	29,0	200,0	38,0	340	

BERYLLIUM^{plus} waterpump pliers

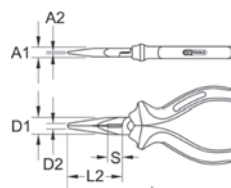
- In accordance to DIN ISO 8976
- Insulated handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	A mm	B mm	L1 mm	L2 mm	S mm	g
962.0605	30,0	53,0	250,0	33,0	350	

BERYLLIUM^{plus} telephone pliers

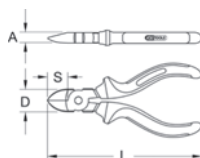
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)
- Two component handle



	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm	g
962.0610	11,0	3,0	22,0	4,0	180,0	60,0	10,0	300

BERYLLIUM^{plus} side cutters

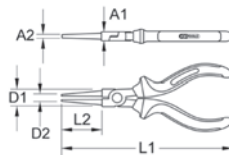
- In accordance to DIN ISO 5749
- Two component handle
- For different wire types
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	A mm	D mm	L mm	S mm	g
962.0616	10,0	23,0	165,0	20,0	200
962.0333	13,0	29,0	200,0	29,0	410

BERYLLIUM^{plus} round nosed pliers

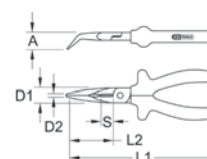
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)
- Substantial through joint
- Two component handle



	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm	g
962.0625	3,0	10,0	20,0	3,0	160,0	36,0	90	
962.0626	5,0	12,0	25,0	4,0	200,0	54,0	160	

BERYLLIUM^{plus} telephone pliers, offset

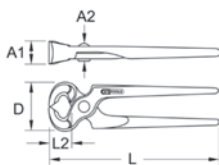
- 45° angled tips
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)
- Insulated handle



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm	g
962.0612	9,0	20,0	4,0	180,0	50,0	9,0	290

BERYLLIUM^{plus} pincers

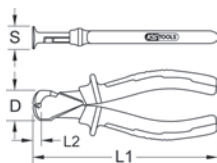
- With PVC dipped handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	A1 mm	A2 mm	D mm	L1 mm	L2 mm	kg
962.0640	16,0	14,0	43,0	175,0	19,0	430
962.0641	20,0	18,0	53,0	200,0	23,0	520

BERYLLIUM^{plus} side cutter

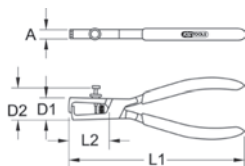
- Strong execution
- With PVC dipped handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	D mm	L1 mm	L2 mm	S mm	kg
962.0615	30,0	175,0	9,0	28	260

BERYLLIUM^{plus} wire stripper

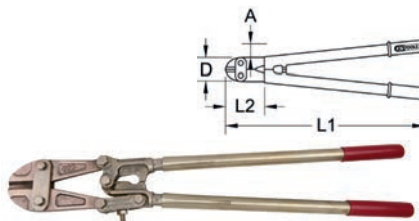
- With spring and locking screw
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	kg
962.0635	10,0	25,0	28,0	170,0	40,0	260

BERYLLIUM^{plus} Bolt cutters

- With PVC dipped handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	A mm	D mm	L1 mm	L2 mm	kg
962.0619	62,0	78,0	620,0	140,0	3,40

BRONZE^{plus} Non-sparking locking pliers

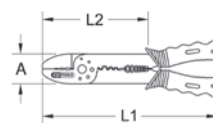
- Forged gripping jaws
- Serrated execution
- Size adjustment using the adjustment wheel
- With loosening lever
- With easy locking action
- For round and flat material
- To hold when welding
- No flaring under the strongest loads
- Loosening under continuous pressure of a national
- Very breakage resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	A mm	L mm	S mm	kg
963.0331	16,0	254,0	42,0	700

BERYLLIUM^{plus} Crimping pliers

- With PVC dipped handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	L1 mm	L2 mm	A mm	kg
962.0636	200,0	120,0	40,0	120



BERYLLIUM^{plus} pliers set

- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)

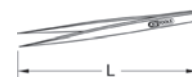


			kg
962.0650	4 pcs	BERYLLIUM ^{plus} pliers set	1,50
1 x		200 mm	
1 x		165 mm	
1 x		180 mm	
1 x		250 mm	

NON SPARKING TWEEZERS

BRONZE^{plus} tweezers

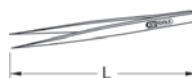
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	kg
963.5604	100,0	100

BRONZE^{plus} neat tweezers

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	kg
963.5605	150,0	30

BRONZE^{plus} flat nose tweezers

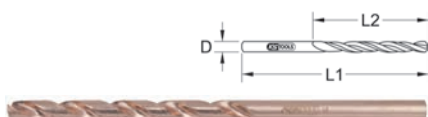
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	g
963.5606	100,0	30

NON SPARKING DRILLS
BERYLLIUM^{plus} twist drill

- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	D mm	L1 mm	L2 mm	Content	g
962.9606	6,0	100,0	60,0	1	20
962.9607	7,0	120,0	70,0	1	30
962.9608	8,0	140,0	80,0	1	50
962.9609	9,0	160,0	100,0	1	70
962.9610	10,0	180,0	120,0	1	100
962.9611	11,0	200,0	130,0	1	120
962.9612	12,0	220,0	150,0	1	170
962.9613	13,0	240,0	160,0	1	220
962.9614	14,0	260,0	180,0	1	280
962.9615	15,0	280,0	200,0	1	360
962.9616	16,0	300,0	220,0	1	440
962.9617	17,0	300,0	220,0	1	500
962.9618	18,0	320,0	230,0	1	600
962.9619	19,0	320,0	230,0	1	700
962.9620	20,0	330,0	240,0	1	800

BERYLLIUM^{plus} twist drill set

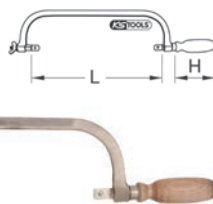
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)
- In durable plastic storage case



	g
962.9630 15 pcs 6-7-8-9-10-11-12-13-14-15-16-17-18-19-20mm	4,00

NON SPARKING SAWS
BRONZE^{plus} hack saw frame

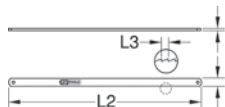
- For saw blade length 300 mm
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	H mm	g
963.5108	300	200	0,90

BERYLLIUM^{plus} hack saw blade for hack saw frame

- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	L2 mm	L3 mm	B mm	D mm	g
962.9034	300,0	1,0-1,3	12,0	0,6	30

BERYLLIUM^{plus} hand saw

- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	L mm	H mm	g
962.9035	370,0	90,0	500

BERYLLIUM^{plus} hand saw, heavy duty

- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	L mm	H mm	g
962.9036	700,0	120,0	770

NON SPARKING WIRE BRUSHES
BRONZE^{plus} tin bronze wire brush, curled

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	B mm	g
963.9580	125,0	55,0	300

BRONZE^{plus} tin bronze wire brush, curled

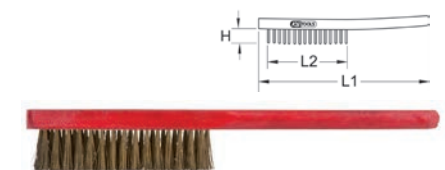
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	rows	H mm	L1 mm	L2 mm	g
963.9581	3	30,0	350,0	120,0	190
963.9582	4	30,0	350,0	120,0	210
963.9583	5	30,0	350,0	120,0	190

BRONZE^{plus} tin bronze wire handbrush, curled

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	rows	H mm	L1 mm	L2 mm	g
963.9584	3	30,0	290,0	120,0	110
963.9585	4	30,0	290,0	120,0	130
963.9586	5	30,0	290,0	120,0	150

BRONZE^{plus} tin bronze wire hand broom, curled

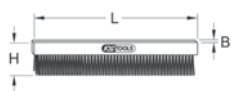
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L1 mm	L2 mm	g
963.9587	310,0	150,0	320

BRONZE^{plus} Hand brush

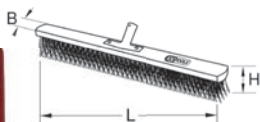
- Without handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	B mm	H mm	g
963.9590	245,0	60,0	50,0	480

BRONZE^{plus} round wire broom

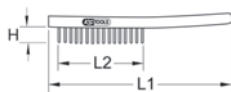
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	B mm	H mm	g
963.9591	240,0	60,0	65,0	0,40

BRONZE^{plus} Brush, spark-plug cleaning, round wire

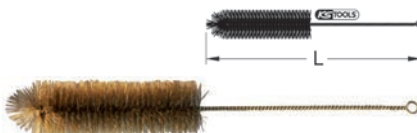
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	H mm	L1 mm	L2 mm	g
963.9593	15,0	225,0	80,0	40

BRONZE^{plus} tube brush, wire curled

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	g
963.9594	300,0	40

BRONZE^{plus} brush end, wire curled

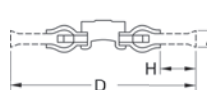
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	D1 mm	D2 mm	H mm	L mm	g
963.9595	26,0	6,0	30,0	80,0	640

BRONZE^{plus} tin bronze wire wheel brush, curled

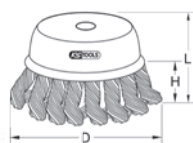
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	A mm	D mm	H mm	g
963.9596	45,0	150,0	20,0	520

BRONZE^{plus} tin bronze wire cup brush, curled

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	D mm	H mm	L mm	g
963.9597	85,0	20,0	35,0	700


NON SPARKING FILES
BERYLLIUM^{plus} flat file

- In accordance to DIN 7261 Form A
- Two component handle
- With hanging hole
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



		B mm	L1 mm	L2 mm		
962.7301	1	25,0	360,0	245,0	330	
962.7302	3	25,0	360,0	245,0	330	

BERYLLIUM^{plus} half round file

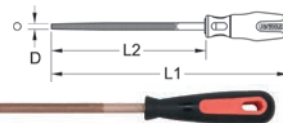
- In accordance to DIN 7261 Form E
- Two component handle
- With hanging hole
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



		B mm	L1 mm	L2 mm	 g	
962.7101	1	22,0	365,0	250,0	340	
962.7102	3	22,0	365,0	250,0	340	

BERYLLIUM^{plus} round file

- In accordance to DIN 7261 Form F
- Two component handle
- With hanging hole
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



		D mm	L1 mm	L2 mm	
962.7201	1	8,0	360,0	250,0	180
962.7202	3	8,0	360,0	250,0	180

NON SPARKING KNIVES
BERYLLIUM^{plus} cutter

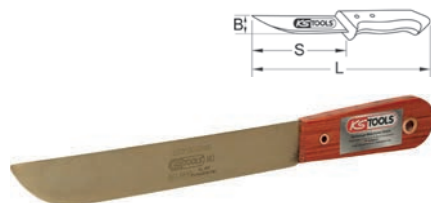
- Durable and fixed blade
- With plastic handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	B mm	L mm	S mm	g
962.9030	30,0	180,0	80	60

BRONZE_{plus} cutter

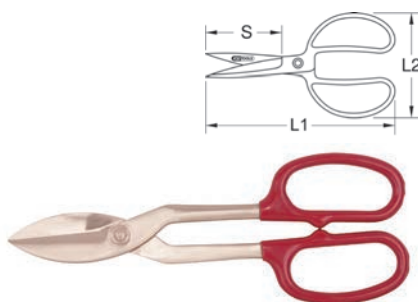
- Durable and fixed blade
- With wooden handle
- Reinforced execution
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	B mm	L mm	S mm	Weight kg
963.9510	30,0	300,0	200	300

NON SPARKING SHEARS
BERYLLIUM_{plus} metal shears

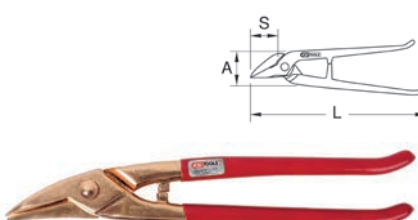
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	L1 mm	L2 mm	S mm	Weight kg
962.9015	300,0	120,0	70,0	450

BERYLLIUM_{plus} Ideal pattern

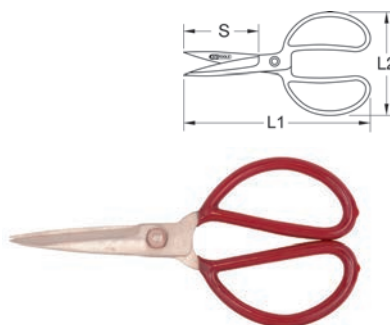
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	A mm	L mm	S mm	Weight kg
962.9016	35,0	280,0	50	520

BERYLLIUM_{plus} universal shear

- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	L1 mm	L2 mm	S mm	Weight kg
962.9017	210,0	110,0	80,0	300

BERYLLIUM_{plus} universal shear

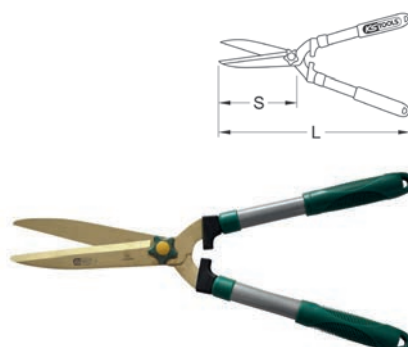
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	L1 mm	L2 mm	S mm	Weight kg
962.9018	220,0	90,0	100	450

BERYLLIUM_{plus} hedge shears

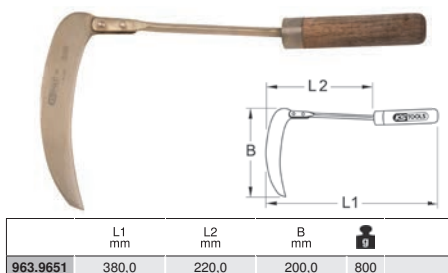
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	L mm	S mm	Weight kg
962.9033	520,0	300	1,40

NON SPARKING CUTTING TOOLS
BRONZE_{plus} reaping hook

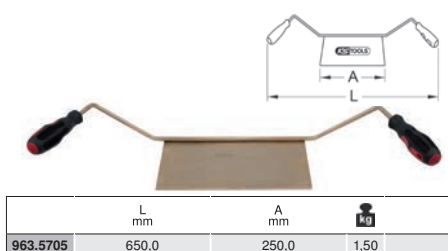
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L1 mm	L2 mm	B mm	Weight kg
963.9651	380,0	220,0	200,0	800

BRONZE_{plus} draw knife

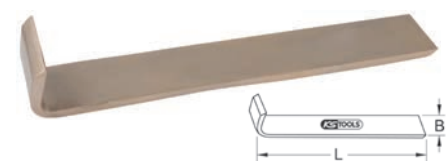
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	A mm	Weight kg
963.5705	650,0	250,0	1,50

NON SPARKING SCRAPERS
BRONZE_{plus} deck scraper

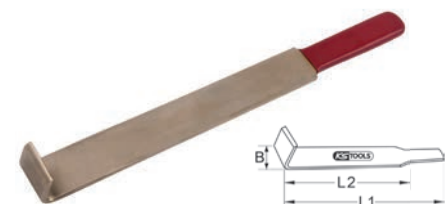
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	B mm	Weight kg
963.9520	200,0	22,0	210
963.9521	255,0	40,0	480
963.9522	300,0	50,0	570

BRONZE_{plus} deck scraper with handle

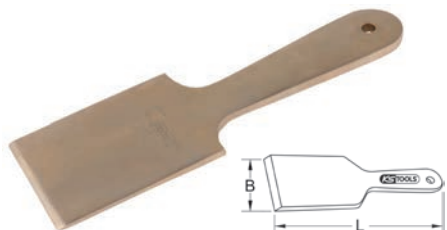
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L1 mm	L2 mm	B mm	Weight kg
963.9523	380,0	280,0	38,0	780

BRONZE^{plus} spray booth scraper

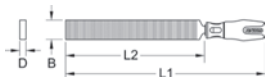
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	B mm	g
963.9530	235,0	75,0	450

BRONZE^{plus} flat scraper

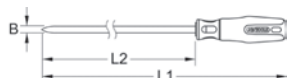
- In accordance to DIN 8350 Form A
- Work areas ground
- Two component handle
- With hanging hole
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	B mm	D mm	L1 mm	L2 mm	g
963.9531	37,0	6,0	315,0	205,0	290

BRONZE^{plus} triangular scraper

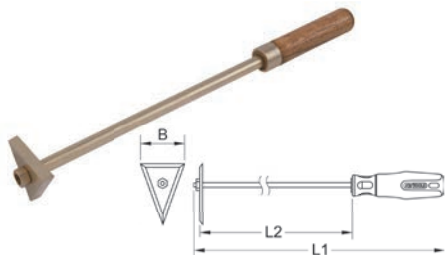
- In accordance to DIN 8350 Form C
- Work areas ground
- Two component handle
- With hanging hole
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	B mm	L1 mm	L2 mm	g
963.9532	16,0	365,0	255,0	220

BRONZE^{plus} ship scraper

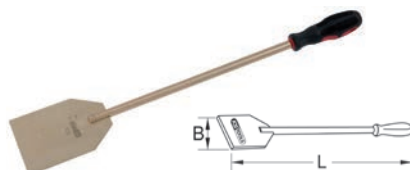
- In accordance to DIN 8350 Form C
- Work areas ground
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L1 mm	L2 mm	B mm	g
963.9533	420,0	100,0	70,0	650

BRONZE^{plus} scraper with handle

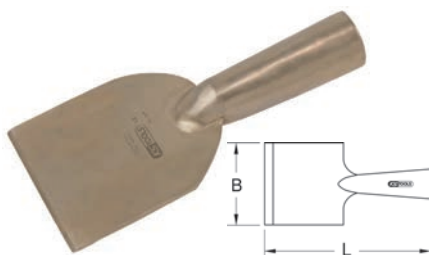
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	B mm	g
963.9534	480,0	95,0	620

BRONZE^{plus} scraper

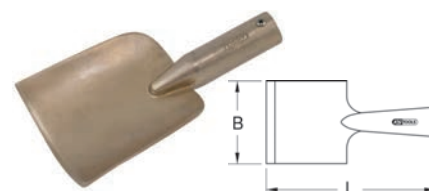
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	B mm	g
963.9535	220,0	75,0	0,58
963.9536	220,0	100,0	0,83
963.9537	220,0	125,0	0,88
963.9538	220,0	150,0	1,02

BRONZE^{plus} scraper, concave

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

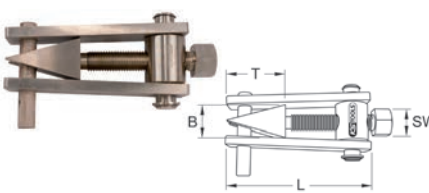


	L mm	B mm	g
963.9539	240,0	100,0	0,90
963.9540	240,0	150,0	1,35

NON SPARKING FLANGE SPREADERS

BRONZE^{plus} flange spreader

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

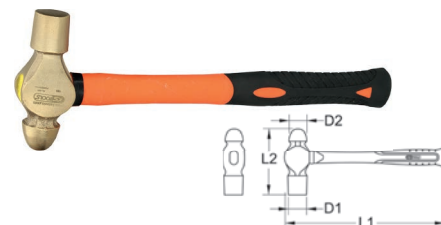


	mm	L mm	B mm	T mm	g
963.5607	46	300,0	60,0	55,0	7,20

NON SPARKING HAMMERS

BRONZE^{plus} ball pin hammer

- With fibreglass handle
- English type
- Surfaces polished ground
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	g	D1 mm	D2 mm	L1 mm	L2 mm	g
963.0323	200	23,0	23,0	270,0	80,0	0,23
963.0324	300	26,0	26,0	285,0	90,0	0,34
963.0325	350	29,0	28,0	310,0	101,0	0,45
963.0326	600	34,0	37,0	345,0	116,0	0,68
963.0327	750	38,0	34,0	355,0	127,0	0,91
963.0328	950	40,0	38,0	355,0	137,0	1,13
963.0329	1100	42,0	41,0	405,0	147,0	1,35

BRONZE^{plus} ball pin hammer

- With hickory handle
- American form
- Surfaces polished ground
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	g	D1 mm	D2 mm	L1 mm	L2 mm	g
963.2105	100	20,0	17,0	310,0	50,0	0,25
963.2106	150	24,0	20,0	310,0	55,0	0,30
963.2107	200	25,0	21,0	310,0	60,0	0,35
963.2108	300	30,0	25,0	310,0	65,0	0,45
963.2109	400	34,0	18,0	340,0	70,0	0,60
963.2110	500	36,0	30,0	340,0	75,0	0,66
963.2111	600	38,0	32,0	340,0	80,0	0,76
963.2112	700	40,0	34,0	340,0	85,0	0,86
963.2113	800	42,0	36,0	380,0	90,0	0,97
963.2114	900	44,0	38,0	380,0	95,0	1,06
963.2115	1000	45,0	40,0	380,0	100,0	1,17
963.2116	1300	50,0	42,0	400,0	110,0	1,47
963.2117	1500	52,0	44,0	400,0	120,0	1,67
963.2118	2000	54,0	46,0	400,0	130,0	2,20

BRONZE^{plus} ball pin hammer

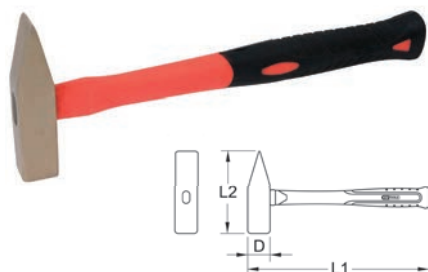
- In accordance to DIN 1041
- With hickory handle
- Head and edge areas ground
- Rounded edges
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



		D mm	L1 mm	L2 mm	
963.2005	100	15,0	260,0	82,0	0,17
963.2006	150	16,0	260,0	87,0	0,22
963.2007	200	19,0	280,0	95,0	0,27
963.2008	300	23,0	280,0	105,0	0,37
963.2009	400	25,0	310,0	112,0	0,47
963.2010	500	27,0	310,0	115,0	0,50
963.2011	600	29,0	310,0	120,0	0,72
963.2012	700	30,0	340,0	125,0	0,82
963.2013	800	33,0	340,0	128,0	0,93
963.2014	900	34,0	360,0	133,0	1,05
963.2015	1000	35,0	360,0	136,0	1,15
963.2016	1250	40,0	380,0	140,0	1,40
963.2017	1500	42,0	400,0	145,0	1,70
963.2018	2000	45,0	400,0	155,0	2,30

BRONZEplus ball pin hammer

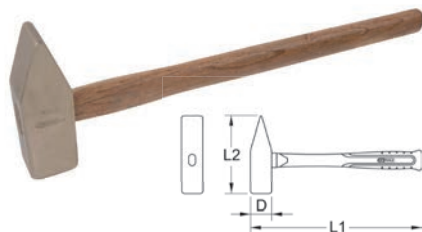
- In accordance to DIN 1041
- With fibreglass handle
- Head and edge areas ground
- Rounded edges
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



		D mm	L1 mm	L2 mm	
963.2019	300	23,0	310,0	105,0	0,37
963.2020	400	25,0	310,0	112,0	0,47
963.2021	500	27,0	310,0	115,0	0,60
963.2022	800	33,0	340,0	130,0	0,90
963.2023	1000	35,0	340,0	135,0	1,13
963.2024	1500	42,0	400,0	145,0	1,70
963.2025	2000	45,0	400,0	155,0	2,40

BRONZEplus Sledge hammer

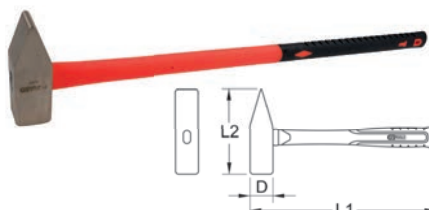
- In accordance to DIN 1042
- With hickory handle
- Head and edge areas ground
- Rounded edges
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



		D mm	L1 mm	L2 mm	
963.2030	2500	50,0	900,0	165,0	3,00
963.2031	3000	55,0	900,0	175,0	3,70
963.2032	4000	60,0	900,0	180,0	4,80
963.2033	5000	68,0	900,0	185,0	5,80
963.2034	6000	74,0	900,0	190,0	6,80
963.2035	8000	78,0	900,0	195,0	8,90
963.2036	9000	82,0	900,0	200,0	9,90
963.2037	10000	85,0	900,0	210,0	10,90
963.2038	12000	90,0	900,0	220,0	13,00
963.2039	15000	100,0	900,0	230,0	16,00

BRONZEplus Sledge hammer

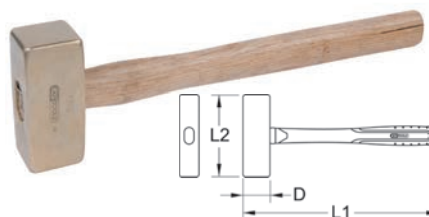
- In accordance to DIN 1041
- With fibreglass handle
- Head and edge areas ground
- Rounded edges
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



		D mm	L1 mm	L2 mm	
963.2040	3000	55,0	900,0	175,0	4,05
963.2041	4000	60,0	900,0	180,0	5,10
963.2042	5000	68,0	900,0	185,0	6,10
963.2043	8000	78,0	900,0	195,0	9,10
963.2044	10000	85,0	900,0	210,0	11,15

BRONZEplus club hammer

- In accordance to DIN 6475
- With hickory handle
- Surfaces polished ground
- Rounded edges
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

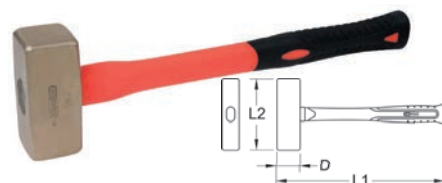


		D mm	L1 mm	L2 mm	
963.2050	1000	40,0	400,0	95,0	1,17
963.2051	1250	40,0	400,0	115,0	1,40
963.2052	1500	45,0	400,0	115,0	1,70
963.2053	2000	50,0	400,0	115,0	2,20
963.2054	2500	55,0	400,0	130,0	2,70
963.2055	3000	55,0	900,0	145,0	3,70
963.2056	4000	60,0	900,0	150,0	4,70
963.2057	5000	65,0	900,0	170,0	5,70
963.2058	6000	70,0	900,0	170,0	6,80
963.2059	8000	75,0	900,0	190,0	8,80
963.2060	10000	80,0	900,0	210,0	10,90



BRONZEplus club hammer

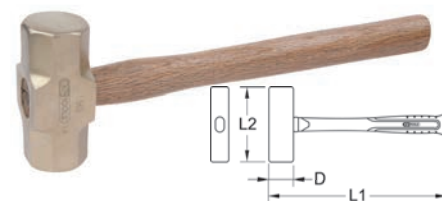
- In accordance to DIN 6475
- With fibreglass handle
- Surfaces polished ground
- Rounded edges
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



		D mm	L1 mm	L2 mm	
963.2061	1000	40,0	400,0	105,0	1,30
963.2062	1250	42,0	400,0	110,0	1,60
963.2063	1500	44,0	400,0	115,0	1,90
963.2064	2000	48,0	400,0	130,0	2,40
963.2065	2500	52,0	400,0	150,0	2,90
963.2066	3000	54,0	900,0	155,0	4,00
963.2067	4000	58,0	900,0	160,0	5,10
963.2068	5000	64,0	900,0	165,0	6,10
963.2069	6000	67,0	900,0	175,0	7,10
963.2070	8000	75,0	900,0	190,0	9,10
963.2071	10000	78,0	900,0	205,0	10,10

BRONZEplus Mining hammer

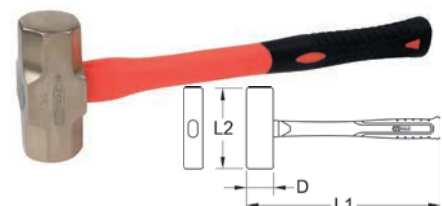
- In accordance to DIN 6475
- With hickory handle
- Surfaces polished ground
- Rounded edges
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



		D mm	L1 mm	L2 mm	
963.2080	1000	40,0	350,0	115,0	1,40
963.2081	1500	44,0	400,0	118,0	1,95
963.2082	2500	55,0	400,0	150,0	3,00
963.2083	3500	58,0	900,0	160,0	4,20
963.2084	5000	65,0	900,0	175,0	5,75
963.2085	8000	80,0	900,0	200,0	8,75

BRONZEplus Mining hammer

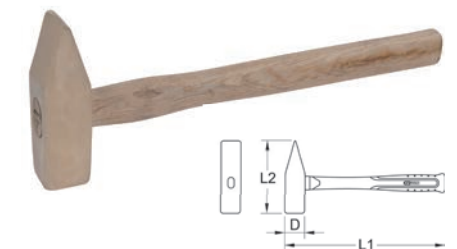
- In accordance to DIN 6475
- With fibreglass handle
- Surfaces polished ground
- Rounded edges
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



		D mm	L1 mm	L2 mm	
963.2086	1000	40,0	350,0	115,0	1,50
963.2087	1500	44,0	400,0	118,0	2,05
963.2088	2500	55,0	400,0	150,0	3,10
963.2089	3500	58,0	900,0	160,0	4,60
963.2090	5000	65,0	900,0	175,0	6,10
963.2091	8000	80,0	900,0	200,0	8,10

BRONZEplus Hand hammer

- In accordance to DIN 1041
- With hickory handle
- American form
- Surfaces polished ground
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	g	D mm	L1 mm	L2 mm	kg
963.2120	700	30,0	310,0	115,0	0,90
963.2121	1200	40,0	400,0	135,0	1,40
963.2122	1600	40,0	400,0	140,0	1,85

BRONZEplus machinist's hammer

- With hickory handle
- American form
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	g	D mm	L1 mm	L2 mm	kg
963.2140	100	20,0	310,0	50,0	0,24
963.2141	300	28,0	310,0	65,0	0,44
963.2142	500	32,0	310,0	80,0	0,64
963.2143	600	33,0	340,0	90,0	0,74
963.2144	800	36,0	340,0	100,0	0,95
963.2145	900	37,0	380,0	110,0	1,10
963.2146	1100	38,0	380,0	120,0	1,25

BRONZEplus brick hammer

- With hickory handle
- American form
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	g	D mm	L1 mm	L2 mm	S mm	kg
963.2163	700	22,0	360,0	170,0	34,0	840

BRONZEplus Set hammer

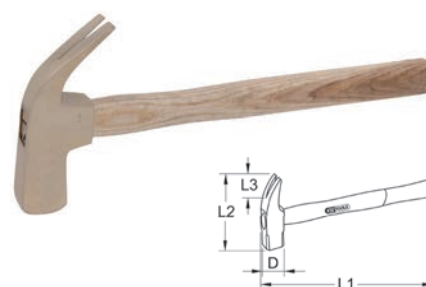
- In accordance to DIN 1041
- With hickory handle
- Head and edge areas ground
- Rounded edges
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	g	D mm	L1 mm	L2 mm	kg
963.2125	1500	42,0	395,0	145,0	1,70

BRONZEplus claw hammer

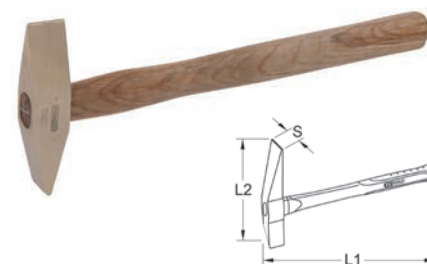
- With hickory handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	g	D mm	L1 mm	L2 mm	L3 mm	kg
963.2150	300	24,0	310,0	110,0	25,0	440
963.2151	400	29,0	340,0	120,0	30,0	540
963.2152	500	32,0	340,0	125,0	30,0	640
963.2153	600	35,0	340,0	135,0	30,0	740

BRONZEplus scaling hammer

- With hickory handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	g	L1 mm	L2 mm	S mm	kg
963.2170	200	280,0	115,0	19,0	0,25
963.2171	400	310,0	125,0	27,0	0,50
963.2172	500	310,0	140,0	30,0	0,62
963.2173	600	310,0	145,0	32,0	0,75
963.2174	800	340,0	150,0	35,0	0,95
963.2175	900	340,0	155,0	38,0	1,10
963.2176	1400	380,0	160,0	45,0	1,60

BRONZEplus Hole/Drift punch

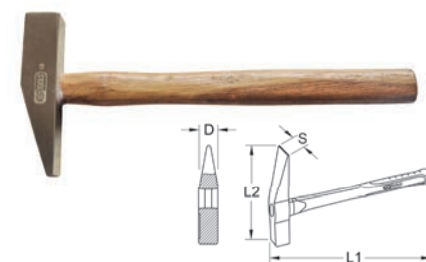
- With hickory handle
- Head and edge areas ground
- Rounded edges
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	g	D mm	L1 mm	L2 mm	kg
963.2130	1000	32,0	400,0	140,0	1,15
963.2131	2000	45,0	600,0	160,0	2,15
963.2132	3000	50,0	900,0	180,0	3,80
963.2133	5000	60,0	900,0	220,0	5,80

BRONZEplus brick hammer

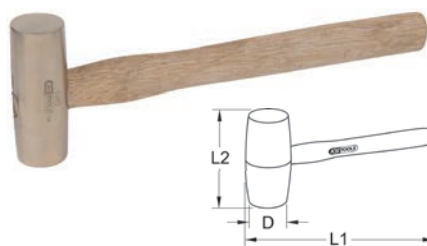
- In accordance to DIN 5108
- With hickory handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	g	D mm	L1 mm	L2 mm	S mm	kg
963.2160	600	27,0	310,0	120,0	40,0	0,70
963.2161	800	35,0	310,0	135,0	45,0	0,90
963.2162	1000	40,0	400,0	145,0	48,0	1,15

BRONZEplus mallet

- With hickory handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	g	D mm	L1 mm	L2 mm	kg
963.2180	900	45,0	380,0	75,0	1,10
963.2181	1800	60,0	380,0	85,0	2,00
963.2182	2700	70,0	790,0	90,0	3,00

BRONZE^{plus} cutoff hammer

- With hickory handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	g	D mm	L1 mm	L2 mm	kg
963.2595	1300	40,0	400,0	140,0	1,53
963.2596	2100	45,0	400,0	155,0	2,62

BRONZE^{plus} pin punch

- With hickory handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	g	D mm	L1 mm	L2 mm	kg
963.2405	800	8,0	340,0	140,0	0,95
963.2406	800	10,0	340,0	140,0	0,95
963.2407	1200	12,0	380,0	160,0	1,40
963.2408	1200	16,0	380,0	160,0	1,40

BRONZE^{plus} securing for hammers

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



		kg
963.5602	up to 2 kg	80
963.5603	2 - 6 kg	140

NON SPARKING AXES
BRONZE^{plus} hoe

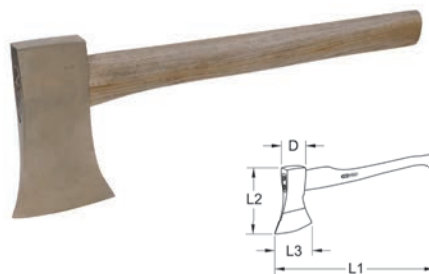
- With beech handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	S mm	L mm	kg
963.9605	120,0	950,0	2,30

BRONZE^{plus} hatchet

- With hickory handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	D mm	L1 mm	L2 mm	L3 mm	kg
963.9606	50,0	480,0	155,0	110,0	1,45
963.9607	70,0	610,0	185,0	110,0	1,50

BRONZE^{plus} axe

- With hickory handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	D mm	L1 mm	L2 mm	L3 mm	kg
963.9608	60,0	750,0	185,0	130,0	1,60
963.9609	60,0	900,0	185,0	130,0	2,20

BRONZE^{plus} fireman's axe

- In accordance to DIN 14900
- With hickory handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L1 mm	L2 mm	L3 mm	kg
963.9610	800,0	240,0	100,0	2,60

BERYLLIUM^{plus} fireman's hatchet

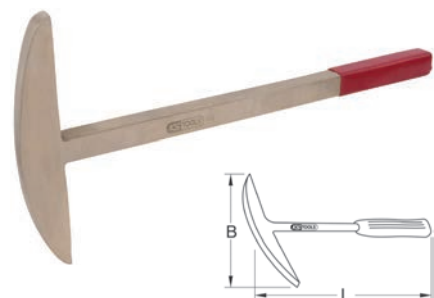
- With fibreglass handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	A mm	L1 mm	L2 mm	L3 mm	kg
962.9032	27,0	400,0	200,0	85,0	900

BRONZE^{plus} hand pick

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

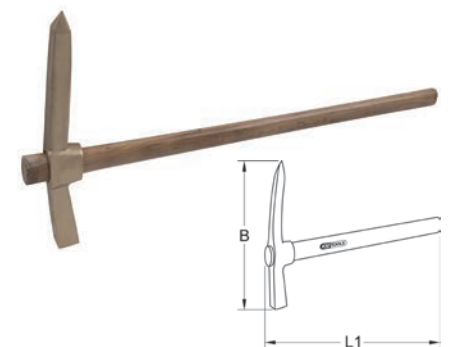


	L mm	B mm	kg
963.9611	420,0	220,0	2,15

NON SPARKING PICKS

BRONZE^{plus} miner's pick

- Without handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	B mm	kg
963.9612	890,0	400,0	2,20

BRONZE^{plus} fireman's hook

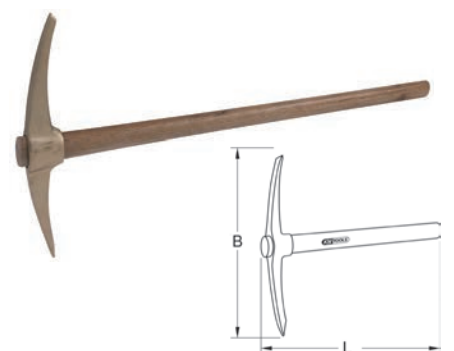
- In accordance to DIN 14851
- Without handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	Width mm	kg
963.9613	380,0	176,0	1,80

BRONZE^{plus} pick axe

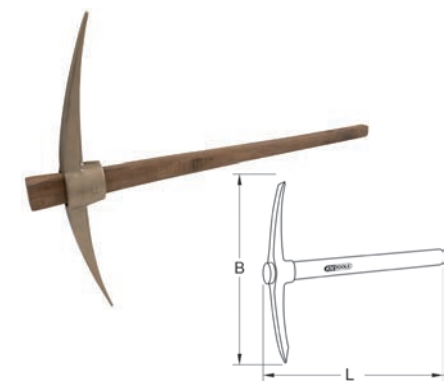
- In accordance to DIN 20109
- With beech handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	B mm	kg
963.9620	800,0	400,0	2,15
963.9621	950,0	500,0	3,50
963.9622	950,0	550,0	4,00

BRONZE^{plus} pick axe

- With beech handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

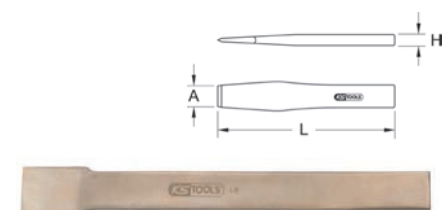


	L mm	B mm	kg
963.9623	950,0	650,0	4,10

NON SPARKING CHISELS

BRONZE^{plus} flat chisel

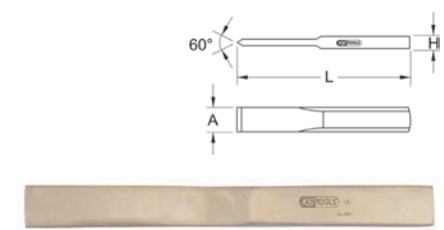
- In accordance to DIN 6453
- Flat oval form
- Burr-free cutting
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	A mm	H mm	kg
963.2415	150,0	20,0	8,0	200
963.2416	200,0	25,0	8,0	320
963.2417	250,0	25,0	10,0	550
963.2418	300,0	25,0	10,0	560
963.2419	400,0	30,0	12,0	630
963.2420	450,0	30,0	12,0	750
963.2421	500,0	30,0	12,0	920

BRONZE^{plus} slitting chisel

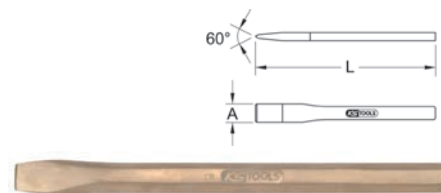
- Flat oval form
- Burr-free cutting
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



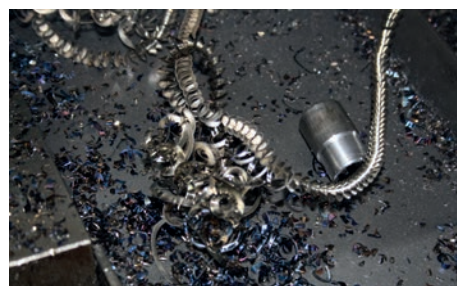
	L mm	A mm	H mm	kg
963.2430	200,0	25,0	5,0	360
963.2431	250,0	25,0	5,0	460
963.2432	300,0	25,0	5,0	550

BRONZE^{plus} bricklayer's chisel

- In accordance to DIN 7254
- Burr-free cutting
- 6 point
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	A mm	kg
963.2440	200,0	6,0	0,15
963.2441	150,0	8,0	0,04
963.2442	150,0	10,0	0,12
963.2443	150,0	14,0	0,20
963.2444	200,0	14,0	0,25
963.2445	250,0	14,0	0,30
963.2446	300,0	14,0	0,40
963.2447	150,0	17,0	0,30
963.2448	250,0	17,0	0,45
963.2449	300,0	17,0	0,55
963.2450	200,0	19,0	0,50
963.2451	250,0	19,0	0,60
963.2452	350,0	19,0	0,85
963.2453	400,0	19,0	1,00
963.2454	250,0	22,0	0,85
963.2455	300,0	22,0	1,00
963.2456	500,0	22,0	1,60
963.2457	600,0	22,0	2,00
963.2458	250,0	27,0	0,58
963.2459	300,0	32,0	0,85



BRONZE^{plus} cross cut chisel

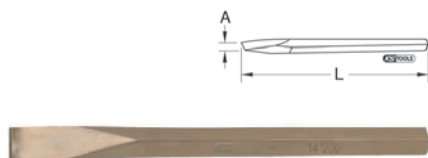
- In accordance to DIN 6451
- Flat oval form
- Burr-free cutting
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	A mm	H mm	kg
963.2470	150,0	8,0	18,0	250
963.2471	200,0	8,0	20,0	340
963.2472	250,0	8,0	22,0	480
963.2473	300,0	10,0	25,0	640

BRONZEplus cross cut chisel

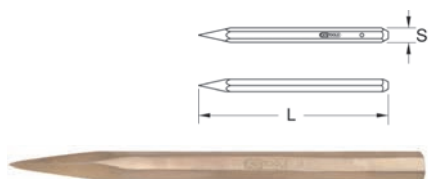
- In accordance to DIN 6451
- 6 point
- Burr-free cutting
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	A mm	Wt g
963.2480	200,0	14,0	270
963.2481	250,0	14,0	330
963.2482	300,0	17,0	550
963.2483	400,0	19,0	960

BRONZEplus pointed chisel

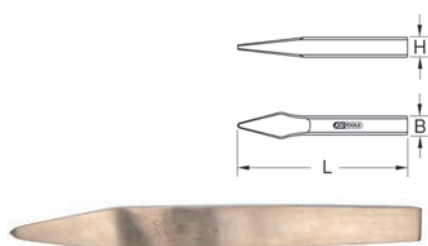
- In accordance to DIN 6451
- 6 point
- Burr-free cutting
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	S mm	Wt g
963.2490	200,0	14,0	270
963.2491	250,0	14,0	330
963.2492	300,0	17,0	550
963.2493	400,0	19,0	960

BRONZEplus concrete chisel

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	H mm	B mm	Wt g
963.2505	380,0	33,0	33,0	5,00

NON SPARKING PIN PUNCHES & PUNCHES

BRONZEplus scriber

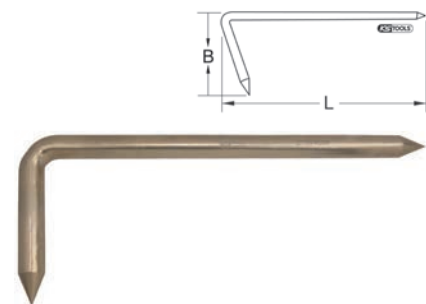
- For marking of work pieces
- Straight and 70° bent tip
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	Ø mm	Wt g
963.2510	190,0	4,0	50
963.2511	225,0	6,0	50

BRONZEplus offset pin

- For marking of work pieces
- Straight and 90° bent tip
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	B mm	Ø mm	Wt g
963.2515	300,0	100,0	13,0	0,20
963.2516	450,0	150,0	19,0	1,30
963.2517	450,0	150,0	16,0	0,93
963.2518	450,0	150,0	24,0	2,00
963.2519	450,0	150,0	27,0	2,30
963.2520	450,0	150,0	30,0	3,30
963.2521	500,0	150,0	16,0	1,30
963.2522	600,0	200,0	20,0	2,40
963.2523	800,0	200,0	22,0	3,40

BRONZEplus square blade awl

- For piercing and widening of holes
- Two component handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L1 mm	L2 mm	Ø mm	Wt g
963.2525	180,0	100,0	5,0	80

BRONZEplus pin punch set

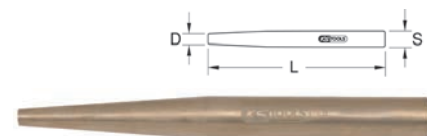
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)
- In a roll bag



	6 pcs	BRONZEplus pin punch set	Wt g
963.2560	6 pcs	BRONZEplus pin punch set	310
1 x	4 mm		
5 x	1 - 2 - 3 - 4 - 5 mm		

BRONZEplus pin punch

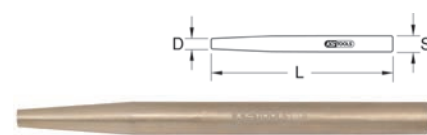
- In accordance to DIN 6450
- Conical form
- Strong execution
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	D mm	S mm	Wt g
963.2561	120,0	1,0	8,0	40
963.2562	120,0	2,0	8,0	40
963.2563	120,0	3,0	8,0	40
963.2564	120,0	4,0	8,0	40
963.2565	120,0	5,0	10,0	60
963.2530	150,0	6,0	13,0	100
963.2531	150,0	7,0	17,0	100
963.2532	200,0	8,0	21,0	320
963.2533	250,0	12,0	24,0	450
963.2534	250,0	13,0	30,0	600

BRONZEplus pin punch

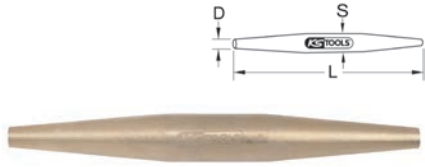
- In accordance to DIN 6450
- Conical form
- Extra strong execution
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	D mm	S mm	Wt g
963.2535	220,0	5,0	16,0	280
963.2536	230,0	10,0	19,0	420
963.2537	250,0	13,0	24,0	880

BRONZEplus pin punch

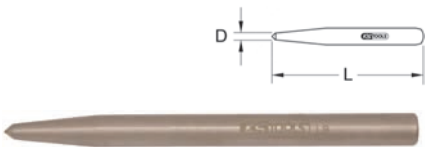
- Barrel type
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	D mm	S mm	Ø
963.2540	200,0	8,0	17,0	230
963.2541	200,0	8,0	21,0	360
963.2542	200,0	10,0	24,0	270
963.2543	200,0	13,0	27,0	630
963.2544	200,0	18,0	30,0	880
963.2545	200,0	22,0	32,0	1050

BRONZEplus centre punch

- In accordance to DIN 7250
- Shaft coded
- Beveled
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	D mm	Ø
963.2550	100,0	3,0	30
963.2551	110,0	4,0	60
963.2552	125,0	5,0	100
963.2553	150,0	6,0	200

BRONZEplus split pin puncher set

- In accordance to DIN 6450
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)
- In a roll bag



		Ø
963.2590	6 pcs 3 - 4 - 5 - 6 - 8 - 10 mm	440

BRONZEplus split pin puncher

- In accordance to DIN 6450
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	D mm	S mm	Ø
963.2591	110,0	3,0	9,0	35
963.2592	110,0	4,0	10,0	40
963.2593	120,0	5,0	11,0	78
963.2594	120,0	6,0	12,0	86
963.2597	130,0	8,0	14,0	178
963.2598	140,0	10,0	16,0	205

BRONZEplus taper punch

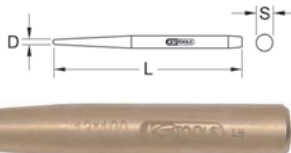
- 4 point
- In accordance to DIN 6450
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	D mm	S mm	Ø
963.2566	500,0	5,0	20,0	1,20

BRONZEplus straight pin

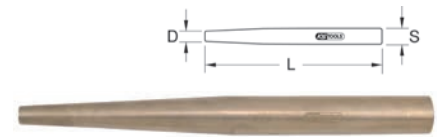
- In accordance to DIN 6451
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	D mm	S mm	Ø
963.2570	85,0	8,0	12,0	40
963.2571	90,0	10,0	14,0	50
963.2572	100,0	13,0	16,0	70
963.2573	110,0	16,0	20,0	100
963.2574	140,0	19,0	25,0	180
963.2575	160,0	21,0	28,0	270
963.2576	200,0	25,0	30,0	450
963.2577	240,0	29,0	35,0	630

BRONZEplus setting punch

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	D mm	S mm	Ø
963.2580	180,0	5,0	12,0	110
963.2581	200,0	6,0	13,0	150
963.2582	200,0	8,0	16,0	220
963.2583	200,0	9,0	20,0	340
963.2584	230,0	10,0	22,0	460
963.2585	250,0	11,0	25,0	620
963.2586	280,0	12,0	27,0	870
963.2587	320,0	14,0	30,0	1260
963.2588	350,0	15,0	32,0	1570
963.2589	380,0	16,0	36,0	2230

BRONZEplus thread cleaning pin

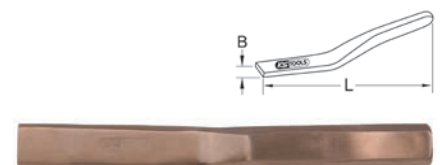
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	Ø mm	L mm	Ø
963.9505	6,0	300,0	20
963.9506	10,0	300,0	180
963.9507	13,0	300,0	350

BERYLLIUMplus caulking tool

- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	B mm	L mm	Ø
962.0202	2,0	150,0	370
962.0203	3,0	160,0	410
962.0204	4,0	180,0	390
962.0205	5,0	200,0	520
962.0206	6,0	200,0	420
962.0207	7,0	220,0	500
962.0208	8,0	220,0	520
962.0209	9,0	220,0	520
962.0210	10,0	250,0	600
962.0212	12,0	250,0	540

NON SPARKING CONSTRUCTION TOOLS

BRONZE^{plus} rust scraper

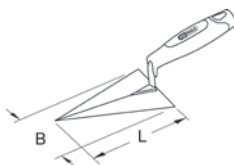
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	B mm	kg
963.9545	600,0	75,0	0,53
963.9546	800,0	75,0	0,62
963.9547	1000,0	75,0	0,74
963.9548	1200,0	75,0	1,16

BRONZE^{plus} brick trowel

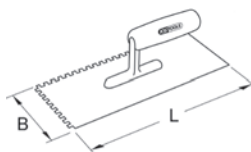
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	B mm	kg
963.9550	215,0	130,0	350
963.9551	240,0	135,0	540

BRONZE^{plus} plastering trowel

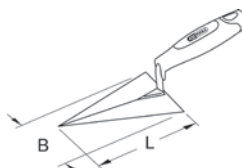
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	B mm	kg
963.9552	280,0	120,0	810

BRONZE^{plus} pointed trowel

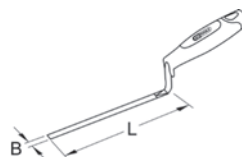
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	B mm	kg
963.9553	180,0	92,0	180

BRONZE^{plus} jointing trowel

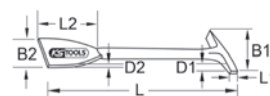
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	B mm	kg
963.9554	100,0	10,0	100

BRONZE^{plus} pick scraper

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	B1 mm	B2 mm	D1 mm	D2 mm	L1 mm	L2 mm	kg
963.9565	480,0	110,0	70,0	20,0	10,0	40,0	125,0	1,20

BRONZE^{plus} floor scraper

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	B mm	kg
963.9570	170,0	150,0	720



BRONZE^{plus} deck scraper

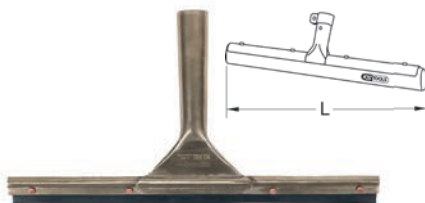
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	B mm	Weight g
963.9575	150,0	75,0	500
963.9576	235,0	125,0	800

BRONZE^{plus} rubber pusher

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	Weight g
963.9592	300,0	300

Non-sparking buckets

- Revolving stop handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant

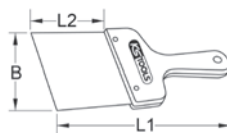


	Material	H mm	D mm	Weight g
963.5505	10 brass	270,0	185,0	1,46
963.5506	12 aluminium	290,0	200,0	0,74

NON SPARKING SPATULAS

BRONZE^{plus} wide scraper, stiff blade

- With wooden handle
- With hanging hole
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

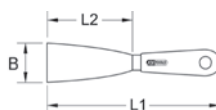


	L1 mm	L2 mm	B mm	Weight g
963.9560	195,0	80,0	120,0	250
963.9561	195,0	80,0	140,0	270
963.9562	205,0	90,0	160,0	300
963.9563	205,0	90,0	180,0	350



BERYLLIUM^{plus} scraper, flexible blade

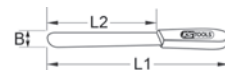
- With wooden handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	L1 mm	L2 mm	B mm	Weight g
962.0301	200,0	95,0	25,0	75
962.0302	200,0	95,0	30,0	85
962.0303	200,0	95,0	40,0	95
962.0304	200,0	95,0	50,0	105
962.0305	200,0	95,0	60,0	115
962.9031	200,0	95,0	75,0	130
962.0306	200,0	95,0	100,0	145

BRONZE^{plus} spatula

- With wooden handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

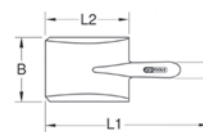


	L1 mm	L2 mm	B mm	Weight g
963.9515	260,0	150,0	25,0	350
963.9516	350,0	230,0	40,0	800
963.9517	490,0	355,0	50,0	1750

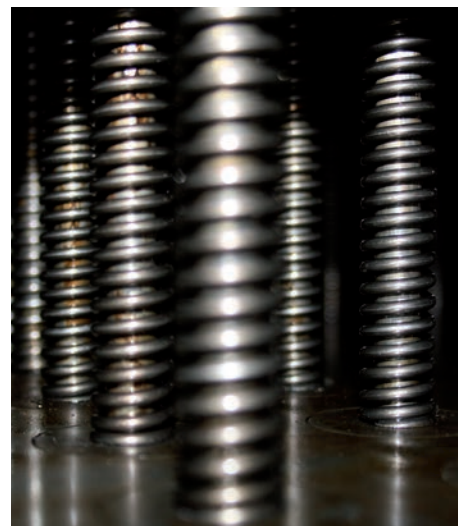
NON SPARKING SHOVELS & FORKS

BRONZE^{plus} spades

- With beech handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L1 mm	L2 mm	B mm	Weight g
963.9630	1250,0	260,0	180,0	straight 3,50
963.9631	1250,0	260,0	180,0	D handle 3,65



BRONZE_{plus} folding spade

- With beech handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L1 mm	L2 mm	B mm	
963.9632	670,0	210,0	160,0	1,30

BRONZE_{plus} round point shovel

- With beech handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L1 mm	L2 mm	B mm		
963.9635	1400,0	340,0	260,0	straight	1,85
963.9636	1000,0	340,0	260,0	D handle	1,85

BRONZE_{plus} shovel

- With beech handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L1 mm	L2 mm	B mm		
963.9637	1400,0	400,0	270,0	straight	1,95
963.9638	1000,0	400,0	270,0	D handle	1,95

BRONZE_{plus} hand shovel

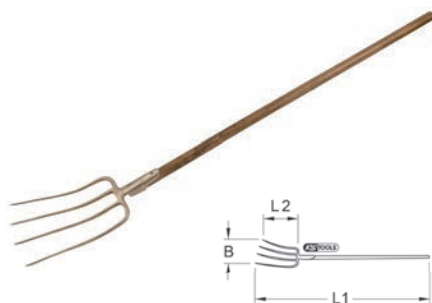
- With beech handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L1 mm	L2 mm	B mm	
963.9639	540,0	220,0	180,0	720

BRONZE_{plus} manure fork

- With beech handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L1 mm	L2 mm	B mm	
963.9645	1600,0	330,0	230,0	1,64

BRONZE_{plus} spade fork

- With beech handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L1 mm	L2 mm	B mm	
963.9646	1000,0	290,0	180,0	2,10

BRONZE_{plus} hay fork

- With beech handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L1 mm	L2 mm	B mm	
963.9647	1600,0	290,0	180,0	1,28

BRONZE_{plus} fork for gun cotton

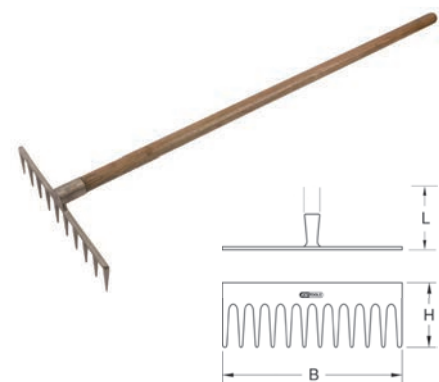
- Without handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L1 mm	L2 mm	B mm	
963.9648	200,0	140,0	90,0	0,60
963.9649	370,0	250,0	150,0	1,80

BRONZE_{plus} rake

- With beech handle
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

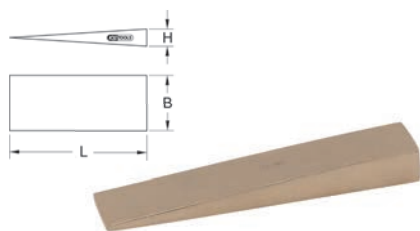


	L mm	B mm	H mm	
963.9650	1600,0	360,0	90,0	1,53

NON SPARKING WEDGES

BRONZE^{plus} wedge

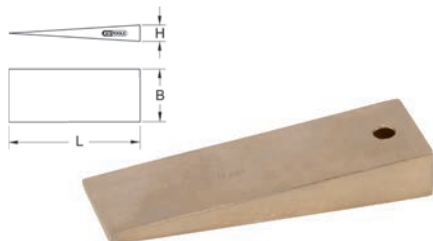
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	B mm	H mm	kg
963.2205	80,0	15,0	6,0	0,04
963.2206	90,0	50,0	10,0	0,20
963.2207	100,0	50,0	10,0	0,21
963.2208	105,0	19,0	13,0	0,10
963.2209	150,0	25,0	13,0	0,25
963.2210	150,0	30,0	13,0	0,28
963.2211	150,0	38,0	19,0	0,40
963.2212	150,0	40,0	13,0	0,35
963.2213	180,0	32,0	13,0	0,30
963.2214	180,0	50,0	10,0	0,40
963.2215	180,0	50,0	19,0	0,70
963.2216	200,0	38,0	25,0	0,90
963.2217	200,0	38,0	41,0	1,30
963.2218	200,0	40,0	40,0	1,38
963.2219	200,0	50,0	19,0	0,80
963.2220	215,0	50,0	32,0	1,40
963.2221	230,0	40,0	20,0	1,00

BRONZE^{plus} wedge with hole

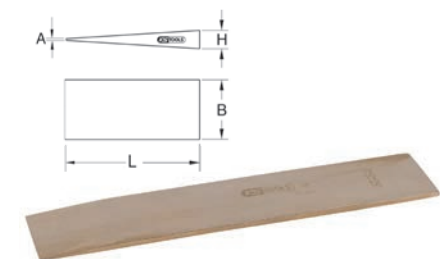
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	B mm	H mm	hole diameter	kg
963.2225	100,0	30,0	15,0	6 mm	220

BRONZE^{plus} space wedge

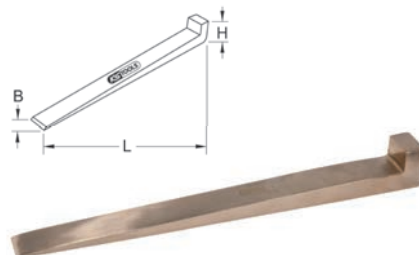
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	B mm	H mm	A mm	kg
963.2226	250,0	50,0	5,0	1,2	200

BRONZE^{plus} nosekey

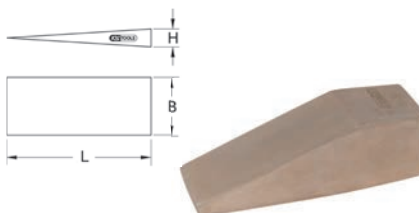
- for a positive connection of the shaft and hub
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	B mm	H mm	kg
963.2230	340,0	20,0	40,0	2,60
963.2231	340,0	30,0	40,0	2,80
963.2232	400,0	30,0	40,0	3,50

BRONZE^{plus} stone wedge

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	B mm	H mm	kg
963.2235	120,0	50,0	44,0	1,10
963.2236	150,0	45,0	45,0	1,40
963.2237	190,0	55,0	47,0	2,00
963.2238	240,0	60,0	50,0	3,00

BRONZE^{plus} straight gasket knife with mandrel

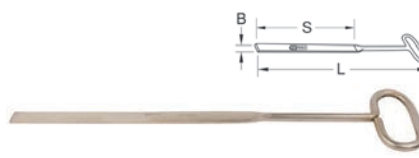
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	B mm	S mm	kg
963.9655	400,0	25,0	220	300

BRONZE^{plus} round gasket knife

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

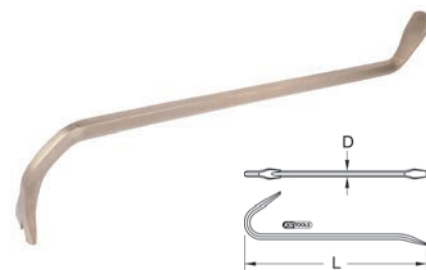


	L mm	B mm	S mm	kg
963.9656	690,0	30,0	400	1,20
963.9657	1240,0	40,0	800	2,00

NON SPARKING PRY BARS

BRONZE^{plus} pry bar/crowbar

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	D mm	kg
963.9705	300,0	14,0	0,40
963.9706	450,0	9,0	1,10
963.9707	600,0	19,0	1,50
963.9708	750,0	22,0	2,50
963.9709	900,0	22,0	3,00

BRONZE^{plus} wrecking bar

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	D mm	kg
963.9715	300,0	14,0	0,40
963.9716	450,0	19,0	1,10
963.9717	600,0	19,0	1,50
963.9718	750,0	22,0	2,50
963.9719	900,0	22,0	3,00

NON SPARKING CROWBARS

BRONZE^{plus} crowbar

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	S mm	kg
963.9720	450,0	19,0	1,10
963.9721	600,0	19,0	1,50
963.9722	750,0	22,0	2,50
963.9723	900,0	22,0	3,00
963.9724	1000,0	22,0	3,30
963.9725	1250,0	27,0	6,10
963.9726	1500,0	27,0	7,30
963.9727	1800,0	30,0	11,10
963.9728	2000,0	30,0	12,30

BRONZEplus crowbar with point and edge

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	L mm	Ø mm	
963.9730	1000,0	30	6,15
963.9731	1250,0	30	7,70
963.9732	1500,0	30	9,25
963.9733	1800,0	30	11,10
963.9734	2000,0	30	12,30

BRONZEplus crowbar with point and claw

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	L mm	Ø mm	
963.9735	1000,0	30	6,15
963.9736	1250,0	30	7,70
963.9737	1500,0	30	9,25
963.9738	1800,0	30	11,10
963.9739	2000,0	30	12,30

BRONZEplus crowbar with edge and ball end

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	L mm	Ø mm	
963.9745	1000,0	30	6,15
963.9746	1250,0	30	7,70
963.9747	1500,0	30	9,25
963.9748	1800,0	30	11,10
963.9749	2000,0	30	12,30

BRONZEplus crowbar with point and ball end

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	L mm	Ø mm	
963.9755	1000,0	30	6,15
963.9756	1250,0	30	7,70
963.9757	1500,0	30	9,25
963.9758	1800,0	30	11,10
963.9759	2000,0	30	12,30

BRONZEplus lifting rod

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	L mm	B mm	
963.9765	650,0	20,0	2,00
963.9766	800,0	20,0	2,70
963.9767	1000,0	20,0	3,40
963.9768	1250,0	25,0	6,20
963.9769	1500,0	25,0	7,70

BRONZEplus bending lever

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	L mm	A mm		
963.9775	200,0	5,0	19	0,66
963.9776	300,0	5,0	19	1,00
963.9777	400,0	5,0	19	1,30
963.9778	500,0	5,0	19	1,60
963.9779	600,0	5,0	19	2,00

BRONZEplus tyre lever

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	L mm	A mm	
963.9785	200,0	20,0	350
963.9786	300,0	25,0	470
963.9787	400,0	30,0	600
963.9788	500,0	35,0	770
963.9789	600,0	38,0	900

BRONZEplus tyre lever, heavy and robust execution

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	L mm	A mm	
963.9790	600,0	25,0	1,00

BRONZEplus crate opener

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	H mm	L1 mm	L2 mm	L3 mm	
963.5105	22,0	230,0	70,0	30,0	490

BRONZEplus carbide drum opener

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	H mm	L1 mm	L2 mm	
963.5106	10,0	300,0	75,0	750

NON SPARKING DRUM LIFTERS
BRONZEplus drum lifter

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

	L mm	Max load kg	
963.5107	1060,0	600	3,80

NON SPARKING SHACKLES
BERYLLIUMplus shackle

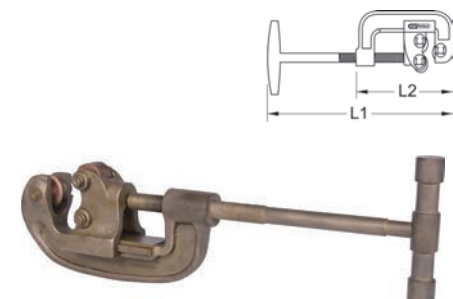
- Straight design
- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)

	D mm	L mm	B mm	
962.9520	25,0	40,0	30,0	100
962.9521	28,0	78,0	37,0	150

NON SPARKING PIPE CUTTERS

BRONZE^{plus} pipe cutter

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)

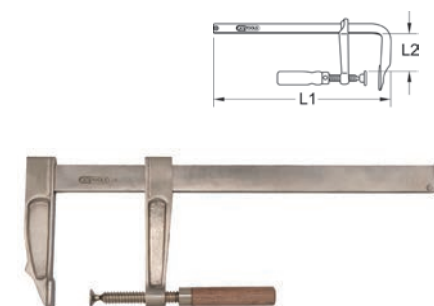


	Ø mm	L1 mm	kg
963.5109	50,0	340,0	2,50

NON SPARKING CLAMPING TOOLS

BRONZE^{plus} tension clamp

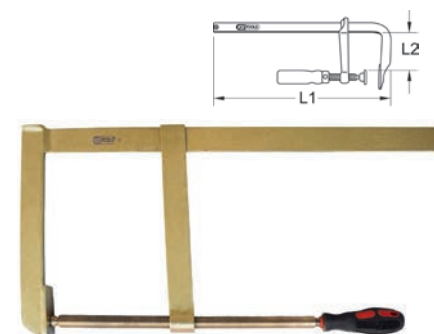
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L1 mm	L2 mm	kg
963.5020	480,0	130,0	2,10

BRONZE^{plus} deep tension clamp

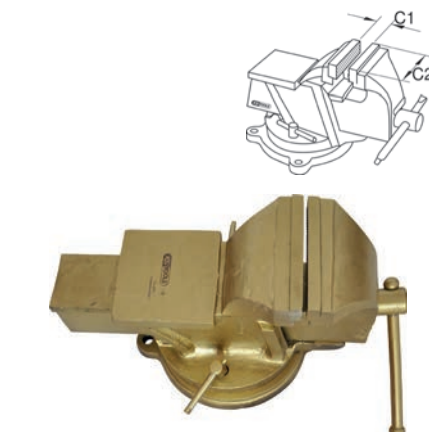
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L1 mm	L2 mm	kg
963.5021	480,0	250,0	3,70

BRONZE^{plus} bench vice

- With swivel base
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	C1 mm	C2 mm	kg
963.5005	100,0	90,0	6,50
963.5006	130,0	125,0	15,50
963.5007	150,0	150,0	26,50
963.5008	170,0	170,0	27,40

NON SPARKING NEEDLES

BERYLLIUM^{plus} hearing needle

- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	L mm	Ø mm	kg
962.0220	250,0	6,0	70
962.0221	300,0	8,0	150
962.0222	400,0	7,0	160
962.0223	500,0	10,0	330

BERYLLIUM^{plus} hearing needle with ball end

- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	L mm	Ø mm	kg
962.0224	500,0	6,0	130

BERYLLIUM^{plus} needle

- Non-sparking
- Explosion proof
- Corrosion resistant
- Very breakage resistant
- Copper Beryllium (Non-Ferrous-Alloy)



	L mm	Ø mm	kg
962.0225	180,0	3,0	20

NON SPARKING OIL PUMPS

BRONZE^{plus} portable manual oil pump

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	L mm	kg
963.5805	1350,0	5,00

NON SPARKING HOISTS

BRONZE^{plus} hand lift truck

- Pallet truck capacity 2.0 t
- Fork length approx. 1.100 mm
- Guide rod length approx. 1.250 mm
- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	Load capacity kg	Total length mm	Width mm	Total depth mm	kg
963.5905	2000	1.100,0	470,0	1250,0	120,00

BRONZE^{plus} chain hoist

- Non-sparking
- Explosion proof
- Corrosion resistant
- Wear resistant
- Aluminium-Bronze (Non-Ferrous-Alloy)



	Chain length	Max capacity t	kg
963.9905	2 chains à 2,5 m	0,5 t	10,20
963.9906	2 chains à 2,5 m	1,0 t	13,60
963.9907	2 chains à 2,5 m	1,5 t	15,60
963.9908	2 chains à 2,5 m	2,0 t	22,00
963.9909	2 chains à 3 m	3,0 t	23,60
963.9910	2 chains à 3 m	5,0 t	36,00
963.9911	2 chains à 3 m	10,0 t	68,50
963.9912	2 chains à 3 m	16,0 t	187,00



Innovation is
our mission!

**NON SPARKING
TOOLS**

BRONZE *plus*
BERYLLIUM *plus*

- Chemical industries
- Petro refineries
- Oil and gas carriages
- Pipeline business
- Drilling platforms
- Fuel service (cleaning etc.)
- Gas and electricity works
- Varnishing
- Federal armed forces, army
- Civil defence and civil protection
- Fire department

You can use it on all places where sparks create potential danger of explosion and fire. For the activities which require the use (application) of a hundred percent non-magnetic and extremely rustproof tools.

