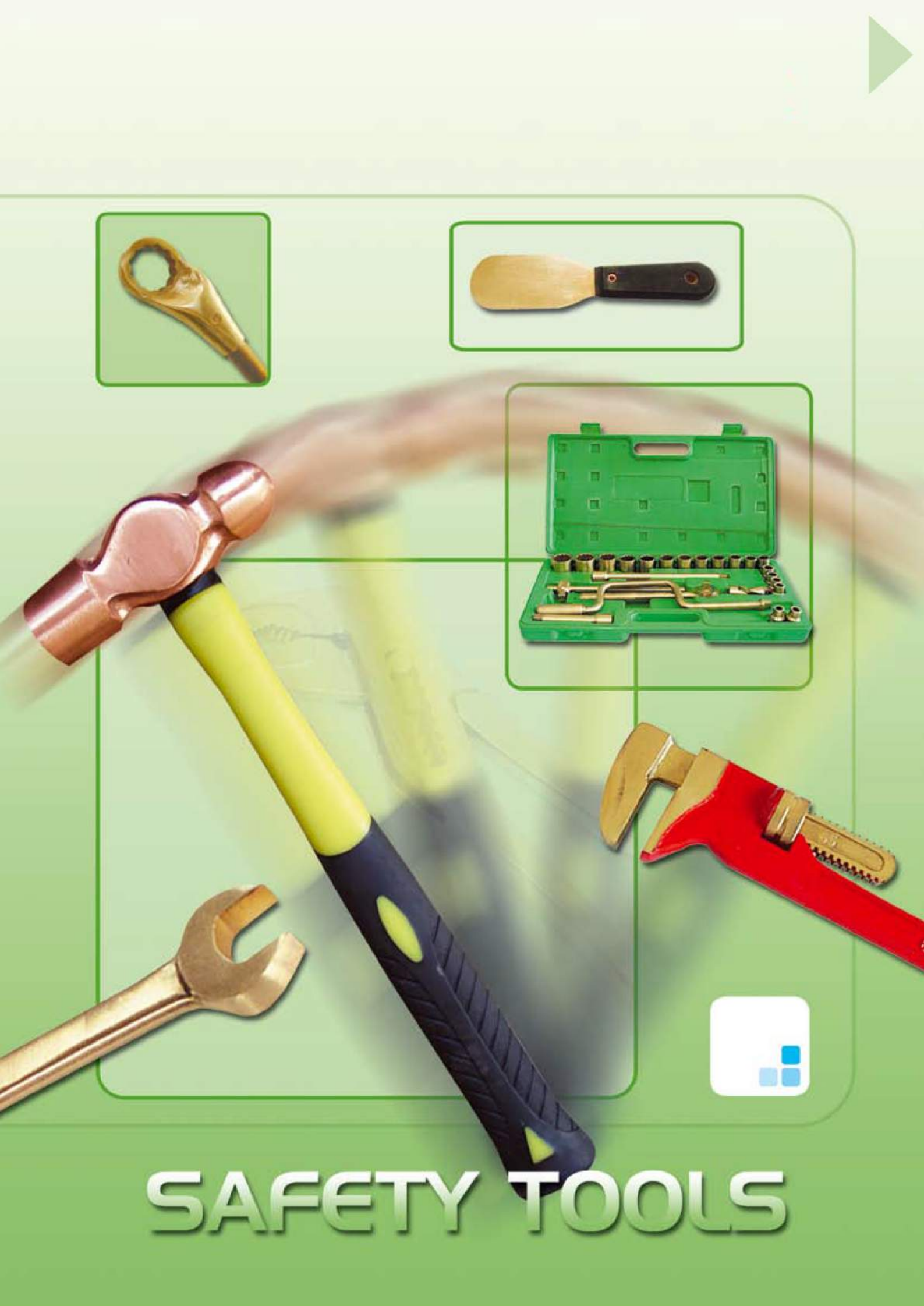

SAFETY TOOLS

Table of Contents

Welcome 9

SOCKET & ACCESSORIES 11

49101A 1/4” Dr Socket Set-8pcs 12
49101B 1/4” Dr Socket Set-9pcst 12
49101C 3/8” Dr Socket Set-11pcs 12
49101D 1/4”*3/8” Dr Socket Set-21pcs 12
49101E 1/2” Dr Socket Set-9pcs 12
49101F 1/2” Dr Socket Set-13pcs 13
49101G 1/2” Dr Socket Set-17pcs 13
49101H 1/2” Dr Socket Set-24pcs 13
49101I 1/2” Dr Socket Set-28pcs 13
49101J 1/2” Dr Socket Set-32pcs 14
49101K 3/4” Dr Socket Set-14pcs 14
49101L 3/4” Dr Socket Set-21pcs 14
49101M 3/4”*1” Dr Socket Set-26pcs 14
49101N 1” Dr Socket Set-18pcs 14
49102 Socket (C=1/4”) 15
49103 Socket (C=3/8”) 15
49104 Socket (C=1/2”) 15
49105 Socket (C=3/4”) 16
49106 Socket (C=1”) 16
49107 Impact Socket (C=3/4”) 17
49108 Impact Socket (C=1”) 17
49109 Impact Socket (C=1-3/16”) 17
49110 Impact Socket (C=1-1/4”) 17
49110A Impact Socket (C=1-1/2”) 17
49111 Flex Ball Joint 18
49111A Internal Hexagon Socket 18
49111B Socket Wrench, Triangular 18
49112 Universal Joint 18
49113 Adaptor 18
49114 Screwdriver Socket 18
49115 Ratchet Wrench 19
49116 Sliding T Type Wrench 19
49117 Sliding T Handle 19
49118 Hinged Handle 19
49119 Ratchet Wrench 19
49120 Ratchet Wrench 19
49121 Offset Handle 20
49121A Wrench, Socket L-Type 20
49122 Driver Extension 20
49123 Speed Handle 20
49124 Driver Type Handle 20

WRENCHES 21

49125 Wrench, Adjustable 22
49126 Wrench, Adjustable 22
49127 Wrench, Monkey 22
49128 Wrench, Swedish Type 22
49128A Pipe Wrench, Swedish Type 22
49129 Wrench, Chain Pipe 23
49129A Wrench, Chain Pipe Light 23
49129B Wrench, Belt Pipe 23
49130 Wrench, Pipe 23
49131 Wrench, Pipe (American Type) 23
49132 Wrench, Combination Set-9pcs 24
49133 Wrench, Combination Set-11pcs 24
49134 Wrench, Combination Set-13pcs 24
49135 Wrench, Combination 24
49135A Wrench, Combination 25
49136 Wrench, Combination 25
49137 Wrench, Combination 25
49138 Wrench, Bent Open End 26
49139 Wrench, Construction with Pin 26
49140 Wrench, Single Open End 26
49140A Crow Foot 26
49140B Wrench, Construction, Offset Type with Pin 27
49140C T-Handle Wrench 27
49141 Wrench, Striking Open 27
49141A Wrench, Striking Open 27
49142 Wrench, Double Open End Set-9pcs 28
49143 Wrench, Double Open End Set-11pcs 28
49144 Wrench, Double Open End Set-13pcs 28
49145 Wrench, Double Open End 28
49147 Wrench, Double Open End 29
49146 Wrench, Double Open End 29
49148 Wrench, Double Box Offset Set-9pcs 30
49149 Wrench, Double Box OffsetSet-11pcs 30
49150 Wrench, Double Box Offset Set-13pcs 30
49151 Wrench, Double Box Offset 30
49152 Wrench, Double Box Offset 31
49153 Wrench, Double Box Offset 31
49153A Wrench, Double Flat Box 31
49154 Wrench, Construction 32
49155 Wrench, Construction 32
49156 Wrench, Single Box 33
49157 Wrench, Single Bent Box 33
49158 Wrench, Single Box Offset 34
49159 Wrench, Single Box Convex 34
49160 Wrench, Striking Box 34
49160A Wrench, Striking Box 35
49161 Wrench, Striking Box 35
49162 Wrench, Striking Box 36
49162A Wrench, Offset Striking Box 36

49163 Wrench, Striking Convex Box 36
49164 Wrench, Striking Box Bent 36
49164A Ring Wrench For Extension 37
51 Extension For No.164A 37
49165 Valve Square Driver 37
49166 Wrench, Hex Key 37
49167 Wrench, Hex Key 38
49167A Wrench, Hex Key with Ball 38
49168 Wrench, C 38
49169 Wrench, C 38
49170 Wrench, C 39
49171 Oxygen Bottle Wrench 39
49172 Wrench T-type Sliding Hex 39
49173 Wrench, Hook 39
49173A Wrench, Hook 39
49173B Wrench, Adjustable Hook 39
49174 Valve Handle 40
49175 Valve Handle 40
49176 Valve Handle 40
49176A Valve Spanner 40
49176B Valve Spanner 40
49176C Valve Spanner 41
49177 Wrench, Bung 41
49178 Wrench, Bung 41
49179 Wrench, Bung 41
49180 Ratchet Wrench 41
49181 Ratchet Wrench 42
49182 Ratchet Wrench 42
49183 Ratchet Wrench 42
49183A Ratchet Wrench 42

HAMMERS 43
49184 Hammer, Bricklayers ’ 44
49185 Hammer, Claw 44
49186 Hammer, Cross Pein Engineers ' 44
49187 Hammer Ball Pein 44
49188 Hammer, Cutoff 44
49189 Hammer, Pein 44
49190 Hammer, Scaling 45
49191 Hammer, Sledge 45
49191A Hammer, Sledge 45
49191B Hammer, Sledge (German Type) 45
49191C Club Hammer 46
49192 Hammer, Testing 46
49193 Hammer, Plumb 46
49194 Pick Railroad 46
49195 Axe Fireman 46
49196 Axe 46
49197 Anvil Block 47
49198 Shovel, Square 47
49199 Dust Pan 47
50200 Shovel, Round Point 47
50201 Folding Spade 48
50201A Edging Spade 48

KINIVES, CHISELS & BARS 49
50202 Knife, Common 50
50203 Knife, Putty 50
50204 Knife, Putty 50
50204A Spatula 50
50204B Electrician Knife 50
50205 Scraper 50
50205A Scraper 51
50206 Scraper, Flat 51
50207 Scraper, Deck 51
50208 Scraper, Deck 51
50209 Scraper, Deck 51
50210 Scraper, Deck 51
50211 Scraper, Spray Booth 52
50212 Scraper 52
50212A Scraper, Hand Style 52
50212B Scraper, Rust 52
50213 Scraper, Arched 52
50214 Opener Carbide Drum 52
50215 Scraper Tile Cleaver 53
50215A Trowel Bricklayer’s 53
50216 Plane’s Blade 53
50217 File, Flat 53
50218 File, Half Round 53
50219 File, Round 53
50220 File, Square 54
50221 File, Triangle 54
50222 Punch, Machinists ' 54
50223 Chisel, Pneumatic Bull Point 54
50223A Punch, Machinists ' 54
50223B Drift Cylindrical 54
50223C Punch 55
50223D Punch, Machinists ' 55
50223E Drift Pin, Barrel Straight 55
50224 Scraper, Triangular 55
50224A Scraper Plate 55
50225 Chisel, Cross 55
50225A Chisel, Cross Cutting 56
50225B Scraper Pick And Scaler 56
50225C Chisel, Flat 56
50226 Chisel, Pneumatic 56

50227 Chisel, Pneumatic 56
50228 Chisel, Pneumatic 56
50229 Chisel, Pneumatic 57
50230 Chisel, Pneumatic 57
50231 Chisel, Flat 57
50232 Chisel Hex/6 Point 57
50233 Chisel 8 Point 57
50233A Chisel, Diamond Point 58
50234 Caulking Tool 58
50234A Caulking Tool 58
50235 Wedge, Flange 58
50236 Punch, Center 58
50237 Bar 59
50237A Bar, Pinch 59
50237B Bar (Hex) Pinch 59
50237C Bar Crow 59
50237D Bar, Pinch 59
50238 Hearing Needle 60
50238A Hearing Needle With Ball 60
50238B Needle 60
50239 Bar, Wrecking 60
50240 Bar, Wrecking 60
50241 Crate Opener 60

SHEARS & PLIERS 61
50242 Shears, Cutting 62
50243 Shears, Cutting 62
50244 Shears, Tin 62
50244A Scissors 62
50245 Pliers, Adjustable Combination 62
50246 Pliers, Lineman 62
50247 Pliers, Cutting 62
50248 Pliers, Diagonal Cutting 63
50249 Pincers 63
50250 Pliers, Flat Nose 63
50251 Pliers, Groove Joint 63
50252 Pliers, Slip Joint 63
50252A Pliers, Water Pump 63
50253 Pliers, Snipe Nose 64
50254 Pliers, Long Nose 64
50255 Pliers, Round Nose 64
50256 Pliers, Snap Ring-Internal 64
50257 Pliers, Snap Ring-External 64
50257A Bolt Chipper 65
50257B Crimping Tool, Insulated Cable Connectors 65
50257C Wire Stripping Pliers 65
50258 Tweezers, Neat Tips 65
50258A Tweezers, Flat Nose 65

Plier, Water Pump 66
Bolt Chipper 66
Crimping Tool, Insulated Cable Connectors 66
Wire Stripping Pliers 66

SCREWDRIVERS 67
50259 Screwdriver, Offset 68
50260 Screwdriver (Standard Type) 68
50261 Screwdriver (Phillips Type) 68
50262 Screwdriver 68
50263 Slotted Screwdriver 69
50263A Electrician Screwdriver 69
50263B Driver Hex Nut 69
50264 Pozidriv Screwdriver 69
50265 Insulated Slotted Screwdriver 70
50266 Insulated Phillips Screwdriver 70

OTHER 71
50267 Marking Tool 72
50268 Marking Tool 72
50269 Awl 72
50270 Hacksaw Frame 72
50271 Hacksaw Blade 72
50272 Hand Saw 72
50272A Hand Saw 72
50273 3 Leg Gear Puller 73
50274 Clamp 73
50274A Clamp 73
50275 Fork, Three Prong 73
50276 Fork, Four Prong 73
50277 Cleaning Rust Rake 73
50278 Oil Funnel 74
50279 Portable Oil Pump 74
50280 Oil Dipper 74
50281 Bucket 74
50282 Dustpan 74
50283 Scoop, Sugar 74
50284 Brush, Flat Back, Scratch 75
50285 Brush 75
50286 Brush 75
50287 Brush,Tube 75
50288 Brush, Wheel 75
50289 Brush, Wheel,Crimped Wire 75
50290 Brush, Cup 75
50291 Hoe 76
50292 Shackle 76

50293 Barrel Hook, Adjustable 76
50294 Manual Portable Oil Pump 76
50295 Screw Clamp 76
50296 Rake 77
51305 Pipe Cutter 77
501306 Hydraulic Pallet Truck 77
50292 Trolley For Chain Hoist 78
51308 Chain Hoist 78
51309 Torque Wrench 78
51310 Flange Prop 78
51311 Parallel Vice 78

TOOLS SETS 79
78 No.A Tool Set-17pcs 80
78 No.B Tool Set-50pcs 80
78 No.C Tool Set-28pcs 81
78 No.D Tool Set-26pcs 81
78 No.E Tool Set-100pcs 82

COOPERS & BRASS HAMMERS 83
502101 Brass Hammer, Sledge 84
502102 Copper Hammer, Sledge 84
502102 Copper Hammer, Drum Type 84
502104 Brass Hammer, Sledge (German Type) 85
502105 Brass Hammer, Ball Pein 85
502106 Copper Hammer Sledge (German Type) 85
502107 Copper Hammer, Ball Pein 85
502108 Brass Hammer, Scaling 86
502109 Brass Hammer, Mallet 86
502110 Copper Hammer, Double face 86

SAFETY TOOLS



Welcome

Our company was established in 1994. From the beginning we have specialized in distribution of professional tools and safety non sparking tools. Due to our e perience , fe ibility as well as thorough knowledge of tools market, we offer wide range of products according to our custormers requirements.

High quality of our service, reliability of manufactured devices, competitive prices and technical support is our most important goal, makes our customers satisfed. We offer high quality non sparking tools for industry, comple equipment of assmebly and repair stands and maintenance.

EUROPOWER safety tools are non sparking, stainless, corrosion-resistant and non-magnetic. Recommended to use in the hazardous environments of the offshore industry, such as natural-gas installations, oil tankers, gas works, oil drilling platforms, oil rafneries and petrochemical plants, to protect you against risk of e plosion, fre and personal in ury.

Every EUROPOWER safety tools have been made from special selected alloys; Copper Beryllium and Aluminium Bronze, beacause of its non sparking feature, hardness and mschanical properties according to its function.

Declaration of Conformity for EUROPOWER safety tools is enclosed to every delivery.

We invite for cooperation.



A

SOCKET & ACCESSORIES



49101A 1/4” Dr Socket Set-8pcs



Number	Contents
49101A65	Socket 4mm, 4.5mm, 5mm, 5.5mm, 6mm, 7mm, 8mm Driver Type Handle 55mm

49101B 1/4” Dr Socket Set-9pcst



Number	Contents
49101B66	Socket 4mm, 5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm Driver Type Handle 55mm

49101C 3/8” Dr Socket Set-11pcs



Number	Contents
49101C67	Socket 10mm, 11mm, 12mm, 13mm, 14mm, 17mm, 19mm, 13/16” Spark Plug Ratchet Wrench 200mm Straight Joint Driver Extension 75mm

49101D 1/4”*3/8” Dr Socket Set-21pcs



Number	Contents
49101D68	4mm, 4.5mm, 5mm, 5.5mm, 6mm, 7mm, 8mm (1/4“Socket) Ratchet Wrench 200mm Straight Joint Driver Extension 75mm, 150mm 10mm, 11mm, 12mm, 13mm, 14mm, 17mm, 19mm (3/8” Socket) 13/16” Spark Plug Adaptor Driver Type Handle 55mm

49101E 1/2” Dr Socket Set-9pcs



Number	Contents
49101E69	Socket 10mm, 11mm, 12mm, 14mm, 17mm, 19mm, 22mm, 24mm Offset Handle 230mm

49101F 1/2” Dr Socket Set-13pcs



Number	Contents
49101F70	Socket 8mm 10mm, 11mm, 12mm, 14mm, 17mm, 19mm, 22mm, 24mm, 27mm Ratchet Wrench 250mm Hinged Handle 250mm Socket Case

49101G 1/2” Dr Socket Set-17pcs



Number	Contents
49101G71	10mm, 11mm, 12mm, 14mm, 17mm, 19mm, 22mm, 24mm, 27mm, 30mm, 32mm Socket Ratchet Wrench 250mm Sliding T-Handle 250mm Speed Handle 400mm Driver Extension 125mm, 250mm Socket Case

49101H 1/2” Dr Socket Set-24pcs



Number	Contents
49101H72	Socket 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 20mm, 21mm, 22mm, 23mm, 24mm, 27mm, 30mm, 32mm Ratchet Wrench 250mm Sliding T-Handle 250mm Speed Handle 400mm Driver Extension 125mm, 250mm Universal Joint 75mm

49101I 1/2” Dr Socket Set-28pcs



Number	Contents
49101I73	10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 20mm, 21mm, 22mm, 23mm, 24mm, 26mm, 27mm, 28mm, 30mm, 32mm Ratchet Wrench 250mm Sliding T-Handle 250mm Speed Handle 400mm Driver Extension 125mm, 250mm Universal Joint 75mm Screwdriver Socket 52mm Socket Case

49101J 1/2” Dr Socket Set-32pcs



Number	Contents
49101J74	Socket 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 20mm, 21mm, 22mm, 23mm, 24mm, 26mm, 27mm, 28mm, 30mm, 32mm 13/16” Spark Plug Ratchet Wrench 250mm Sliding T-Handle 250mm Speed Handle 400mm Driver Extension 125mm, 250mm Universal Joint 75mm Screwdriver Socket 52mm Offset Handle 260mm Socket Case

49101K 3/4” Dr Socket Set-14pcs



Number	Contents
49101K75	Socket 21mm, 24mm, 27mm, 30mm, 32mm, 34mm, 36mm, 38mm, 41mm, 46mm, 50mm Ratchet Wrench 320mm Sliding T-Handle 3/4” *400 Driver Extension 200mm

49101L 3/4” Dr Socket Set-21pcs



Number	Contents
49101L76	Socket 21mm, 22mm, 23mm, 24mm, 26mm, 27mm, 28mm, 29mm, 30mm, 31mm, 32mm, 34mm, 36mm, 38mm, 41mm, 46mm, 50mm Ratchet Wrench 320mm Sliding T-Handle 3/4”*400 Driver Extension 200mm Socket Case

49101M 3/4”*1” Dr Socket Set-26pcs



Number	Contents
49101M77	Socket 21mm, 22mm, 23mm, 24mm, 26mm, 27mm, 28mm, 29mm, 30mm, 31mm, 32mm, 34mm, 36mm, 38mm, 41mm, 46mm, 50mm, 55mm, 60mm, 65mm Ratchet Wrench 160mm Sliding T-Handle 3/4” *400 Driver Extension 200mm, 430mm 3/4” *120mm Flex Ball Joint 3/4” *1” Sliding T-Handle

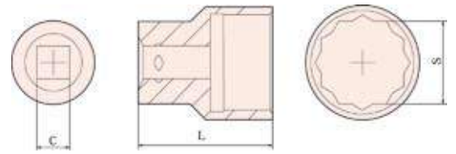
49101N 1” Dr Socket Set-18pcs



Number	Contents
49101N78	Socket 30mm, 31mm, 32mm, 34mm, 36mm, 38mm, 41mm, 46mm, 50mm, 55mm, 60mm, 65mm, 70mm, 75mm, 80mm Sliding T-Handle 3/4”*1” Driver Extension 200mm Flex Ball Joint 1”*120mm

Socket





49102 C=1/4”

Number	S mm	L mm	Be-Cu g	Al-Cu g
49102-452	4	25	11	10
49102-4.553	4.5	25	11	10
49102-553	5	25	12	10
49102-5.553	5.5	25	12	10
49102-654	6	25	13	10
49102-755	7	25	13	10
49102-856	8	25	15	10
49102-957	9	25	21	20
49102-1048	10	25	22	20
49102-1149	11	25	22	20
49102-1250	12	26	25	22
49102-1351	13	26	26	24
49102-1452	14	26	27	25
49102-1553	15	27	33	30
49102-1654	16	27	34	31
49102-1755	17	27	35	32
49102-1856	18	27	36	33
49102-1957	19	27	38	35

Number	S inch	L mm	Be-Cu g	Al-Cu g
49102-100250	5/32	25	11	10
49102-100452	3/16	25	11	10
49102-100654	7/32	25	11	10
49102-100856	1/4	25	11	10
49102-101048	9/32	25	11	10
49102-101250	5/16	25	17	15
49102-101452	11/32	28	21	20
49102-101654	3/8	28	23	21
49102-101856	7/16	28	25	23
49102-102048	1/2	28	33	30

49103 C=3/8”

Number	S mm	L mm	Be-Cu g	Al-Cu g
49103-553	5	28	20	18
49103-5.553	5.5	28	21	19
49103-654	6	28	22	20
49103-755	7	28	22	20
49103-856	8	28	23	21
49103-957	9	28	24	22
49103-1048	10	32	39	35
49103-1149	11	32	40	37
49103-1250	12	32	41	38
49103-1351	13	32	42	39
19103-1452	14	32	45	40
19103-1553	15	32	50	45
19103-2654	16	32	55	50
19103-2755	17	32	59	54
19103-2957	19	32	60	55
19103-2048	20	32	61	56

49103 C=3/8”

Number	S inch	L mm	Be-Cu g	Al-Cu g
49103-100250	5/16	32	22	20
49103-100452	3/8	32	31	28
49103-100654	7/16	32	39	36
49103-100856	1/2	32	40	38
49103-101048	9/16	32	46	42
49103-101250	5/8	35	70	65
49103-101452	11/16	35	72	67
49103-101654	3/4	35	75	69
49103-101856	13/16	35	87	80
49103-102048	7/8	35	93	85
49103-102250	15/16	35	104	95

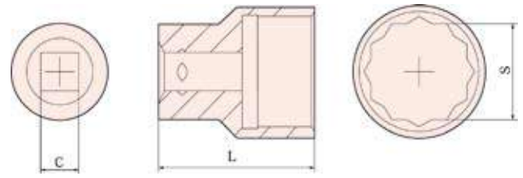
49104 C=1/2”

Number	S mm	L mm	Be-Cu g	Al-Cu g
49104-654	6	40	75	69
49104-755	7	40	77	70
49104-856	8	40	77	70
49104-957	9	40	78	71
49104-1048	10	40	78	71
49104-1149	11	40	79	72
49104-1250	12	40	79	72
49104-1351	13	40	80	73
49104-1452	14	40	80	73
49104-1553	15	40	82	75
49104-1654	16	40	85	77
49104-1755	17	40	88	80
49104-1856	18	42	90	82
49104-1957	19	42	110	100
49104-2048	20	42	120	110
49104-2149	21	43	137	125
49104-2250	22	43	143	130
49104-2351	23	43	159	145
49104-2452	24	43	186	170
49104-2553	25	43	197	180
49104-2654	26	43	207	190
49104-2755	27	46	235	215
49104-2856	28	46	245	225
49104-2957	29	46	250	230
49104-3048	30	46	285	260
49104-3250	32	46	320	290

Number	S inch	L mm	Be-Cu g	Al-Cu g
49104-100250	5/16	40	78	71
49104-100452	3/8	40	78	71
49104-100654	7/16	40	79	72
49104-100856	1/2	40	79	72
49104-101048	9/16	40	80	73
49104-101250	5/8	40	88	80
49104-101452	11/16	40	93	85
49104-101654	3/4	42	99	90
49104-101856	13/16	43	120	110
49104-102048	7/8	43	142	130
49104-102250	15/16	43	148	135
49104-102452	1	43	159	145
49104-102654	1-1/16	46	241	220
49104-102856	1-1/4	47	276	240
49104-103048	1-7/16	47	308	340

Socket





49105 C=3/4”

Number	S mm	L mm	Be-Cu g	Al-Cu g
49105-1755	17	50	246	225
49105-1957	19	50	246	225
49105-2149	21	55	268	245
49105-2250	22	55	268	245
49105-2351	23	55	306	280
49105-2452	24	55	307	280
49105-2654	26	55	307	280
49105-2755	27	55	312	285
49105-2856	28	55	339	310
49105-2957	29	55	350	320
49105-3048	30	60	410	370
49105-3149	31	60	430	380
49105-3250	32	60	465	410
49105-3452	34	60	480	440
49105-3654	36	60	510	465
49105-3856	38	60	555	510
49105-4149	41	65	660	640
49105-4654	46	65	830	705
49105-5048	50	70	945	840

Number	S inch	L mm	Be-Cu g	Al-Cu g
49105-100250	3/4	50	240	220
49105-100452	13/16	55	262	240
49105-100654	7/8	55	267	245
49105-100856	15/16	55	305	280
49105-101048	1	55	310	280
49105-101250	1-1/16	55	315	285
49105-101452	1-1/8	55	345	315
49105-101654	1-3/16	60	400	365
49105-101856	1-1/4	60	437	400
49105-102048	1-5/16	60	472	430
49105-102250	1-3/8	60	515	470
49105-102452	1-7/16	60	525	480
49105-102654	1-1/2	60	580	530
49105-102856	1-5/8	65	702	640
49105-103048	1-3/4	65	761	695
49105-103250	1-13/16	65	830	705
49105-103452	1-7/8	65	850	710
49105-103654	2	70	930	850

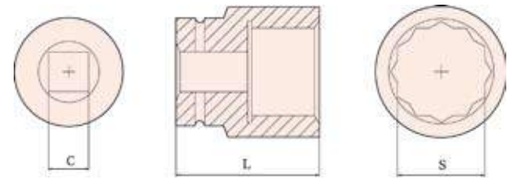
49106 C=1”

Number	S mm	L mm	Be-Cu g	Al-Cu g
49106-2250	22	55	361	330
49106-2452	24	55	372	340
49106-2553	25	55	377	345
49106-2654	26	55	383	350
49106-2755	27	55	394	360
49106-2856	28	55	397	363
49106-2957	29	55	399	365
49106-3048	30	60	443	405
49106-3149	31	60	448	410
49106-3250	32	60	481	440
49106-3452	34	60	497	455
49106-3654	36	60	505	462
49106-3856	38	60	568	520
49106-4149	41	65	630	570
49106-4654	46	65	785	685
49106-5048	50	70	890	790
49106-5553	55	75	1090	940
49106-6048	60	75	1220	1130
49106-6553	65	80	1455	1280
49106-7048	70	80	1550	1417
49106-7553	75	85	2160	1910
49106-8048	80	85	2405	2130

Number	S inch	L mm	Be-Cu g	Al-Cu g
49106-100250	1-1/16	55	394	360
49106-100452	1-1/8	55	398	364
49106-100654	1-3/16	60	442	405
49106-100856	1-1/4	60	470	431
49106-101048	1-5/16	60	483	442
49106-101250	1-3/8	60	490	448
49106-101452	1-7/16	60	520	460
49106-101654	1-1/2	60	562	522
49106-101856	1-5/8	65	633	573
49106-102048	1-7/8	65	778	706
49106-102250	2	70	910	808
49106-102452	2-1/4	75	1192	1072
49106-102654	2-1/2	75	1375	1240
49106-102856	2-3/4	80	1505	1377
49106-103048	3	80	1670	1525

Impact Socket





49107 C=3/4”

Number	S mm	L mm	Be-Cu g	Al-Cu g
49107-2452	24	55	380	330
49107-2755	27	55	430	360
49107-3048	30	60	550	470
49107-3250	32	60	580	515
49107-3654	36	60	635	565
49107-4149	41	65	880	765
49107-4654	46	65	950	870
49107-5048	50	70	1200	1003

49108 C=1”

Number	S mm	L mm	Be-Cu g	Al-Cu g
49108-1957	19	60	680	622
49108-2149	21	60	700	640
49108-2250	22	60	720	658
49108-2452	24	60	725	663
49108-2654	26	60	730	667
49108-2755	27	60	735	672
49108-2957	29	60	760	690
49108-3048	30	60	770	704
49108-3250	32	60	790	710
49108-3452	34	70	850	772
49108-3553	35	70	902	825
49108-3654	36	70	910	835
49108-3856	38	70	930	855
49108-4149	41	70	970	890
49108-4654	46	80	1380	1265
49108-5048	50	80	1630	1490
49108-5250	52	90	1790	1640
49108-5553	55	90	1970	1800
49108-5856	58	90	2080	1900
49108-6048	60	90	2200	2000
49108-6553	65	90	2460	2250
49108-7048	70	90	2890	2600
49108-7553	75	90	3155	2900
49108-8048	80	90	3560	3200

49109 C=1-3/16”

Number	S mm	L mm	Be-Cu g	Al-Cu g
49109-5048	50	90	1930	1755
49109-5250	52	90	2005	1835
49109-5553	55	90	2180	1965
49109-5856	58	90	2200	2000
49109-6048	60	90	2290	2085
49109-6553	65	90	2610	2370
49109-7048	70	90	2840	2585
49109-7553	75	90	3190	2880
49109-8048	80	90	3605	3250

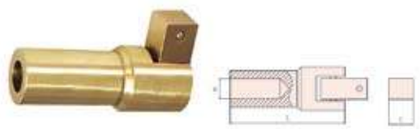
49110 C=1-1/4”

Number	S mm	L mm	Be-Cu g	Al-Cu g
49110-7048	70	90	2750	2475

49110A C=1-1/2”

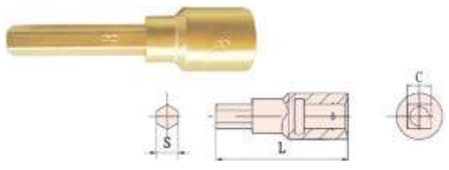
Number	S mm	L mm	Be-Cu g	Al-Cu g
49110A-5553	55	90	2020	1825
49110A-6048	60	90	2360	2135
49110A-6553	65	90	2390	2165
49110A-7048	70	90	2670	2415
49110A-7553	75	100	3180	2875
49110A-8048	80	100	3460	3130
49110A-8553	85	110	3950	3575
49110A-9048	90	110	4230	3830

49111 Flex Ball Joint



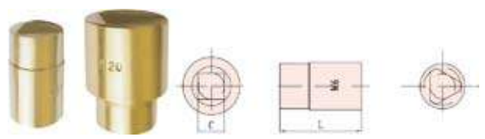
Number	C inch	L mm	Ø mm	Be-Cu g	Al-Cu g
49111-100250	3/4	120	21	860	780
49111-100452	1	120	21	1115	1020

49111A Internal Hexagon Socket



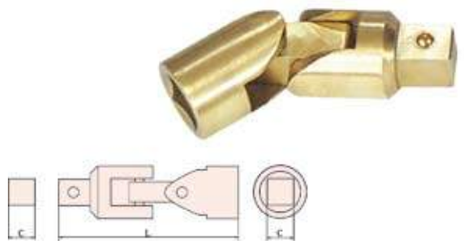
Number	C inch	S mm	L mm	Be-Cu g	Al-Cu g
49111A-100351	1/4	3	55	17	16
49111A-100452		4	55	17	16
49111A-100553		5	55	20	18
49111A-100654		6	55	26	23
49111A-100755		7	55	30	27
49111A-100856		8	65	45	40
49111A-100957		9	65	55	50
49111A-101048		10	65	65	60

49111B Socket Wrench, Triangular



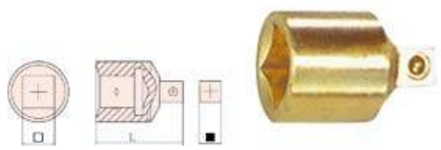
Number	C inch	M mm	L mm	Be-Cu g	Al-Cu g
49111B-100250	1/2	6	40	75	70
49111B-100452		8	40	80	75
49111B-100654		10	40	85	80
49111B-100856		12	40	95	90
49111B-101048		16	50	180	150
49111B-101250		20	50	250	215
49111B-101452		24	60	470	436

49112 Universal Joint



Number	C inch	L mm	Be-Cu g	Al-Cu g
49112-100250	1/2	80	186	170

49113 Adaptor



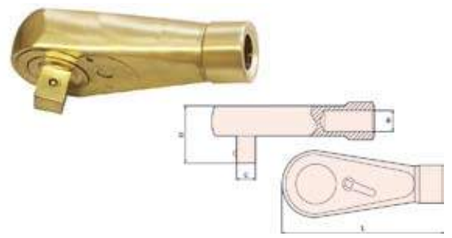
Number	□ inch	■ inch	L mm	Be-Cu g	Al-Cu g
49113-100250	3/8	1/4	26	22	20
49113-100452	1/4	3/8	22	22	20
49113-100654	1/2	3/8	34	80	70
49113-100856	3/8	1/2	34	50	45
49113-101048	3/4	1/2	55	290	260
49113-101250	1/2	3/4	50	170	150
49113-101452	1	3/4	70	855	770
49113-101654	3/4	1	60	360	320
49113-101856	1-1/2	1	85	1675	1510
49113-102048	1	1-1/2	85	1230	1100

49114 Screwdriver Socket



Number	C inch	L mm	H mm	B mm	Be-Cu g	Al-Cu g
49114-100250	1/2	52	2	13	102	91

49115 Ratchet Wrench



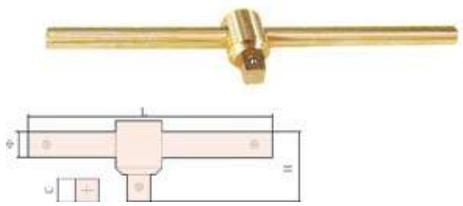
Number	C inch	L mm	Ø mm	H mm	Be-Cu g	Al-Cu g
49115-100250	3/4	160	21	55	1660	1530
49115-100452	1	180	23	60	3270	2960

49116 Sliding T Type Wrench



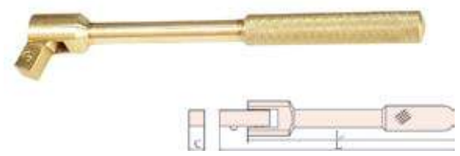
Number	C inch	L mm	Ø mm	H mm	Be-Cu g	Al-Cu g
49116-100250	3/4	350	19	189	1505	1375
49116-100452	1	400	21	190	2525	2310

49117 Sliding T Handle



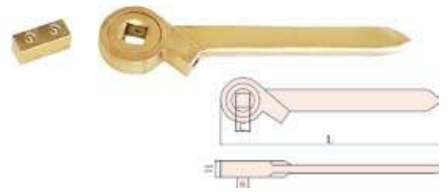
Number	C inch	L mm	H mm	Ø mm	Be-Cu g	Al-Cu g
49117-100250	1/2	250	39	13	330	302
49117-100452	3/4	350	54	19	1070	978
49117-100654	3/4	400	56	21	1335	1221
49117-100856	1	400	62	21	1620	1481

49118 Hinged Handle



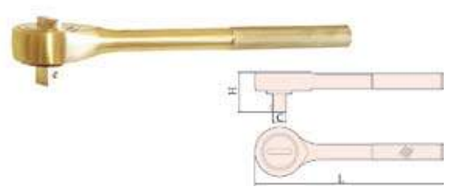
Number	C inch	L mm	L_1 mm	Be-Cu g	Al-Cu g
49118-100250	3/8	190	175	230	210
49118-100452	1/2	250	230	350	310
49118-100654	1/2	320	300	420	380
49118-100856	1/2	400	380	601	550
49118-101048	3/4	286	260	635	570
49118-101250	1	304	270	910	830

49119 Ratchet Wrench



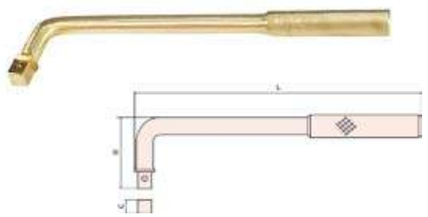
Number	C inch	L mm	H mm	Be-Cu g	Al-Cu g
49119-100250	1/4	200	16.5	350	305
49119-100452	3/8	175	16.5	335	302
49119-100654	3/8	200	16.5	370	313
49119-100856	1/2	250	16.5	460	410
49119-101048	3/4	300	22	1080	1002
49119-101250	1	300	22	1405	1275

49120 Ratchet Wrench



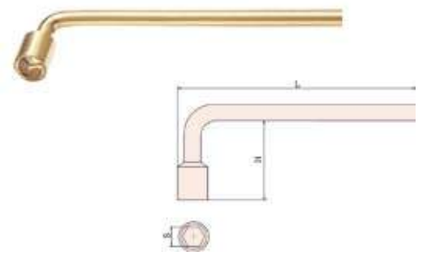
Number	C inch	L mm	H mm	Be-Cu g	Al-Cu g
49120-100250	1/2	245	43	690	615
49120-100452	3/4	320	57	1570	1430
49120-100654	1	550	67	3400	3070

49121 Offset Handle



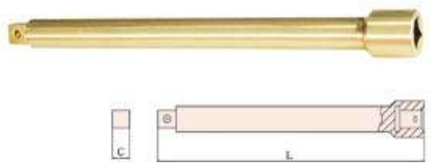
Number	C inch	L mm	H mm	Be-Cu g	Al-Cu g
49121-100250	3/8	200	50	314	287
49121-100452	1/2	230	60	410	380
49121-100654	3/4	280	75	765	699
49121-100856	1	300	85	1160	1060

49121A Wrench, Socket L-Type



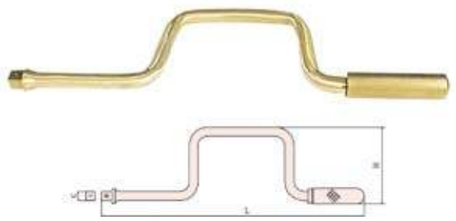
Number	S mm	L mm	H mm	Be-Cu g	Al-Cu g
49121A-100654	6	120	29	100	90
49121A-100856	8	145	33	150	135
49121A-101048	10	168	37	200	180
49121A-101250	12	215	42	220	200
49121A-101351	13	240	45	250	225
49121A-101452	14	245	45	300	275
49121A-101553	15	250	48	350	315
49121A-101654	16	255	48	500	450
49121A-101755	17	260	51	550	500
49121A-101856	18	265	53	550	500
49121A-101957	19	270	55	550	500
49121A-102048	20	272	57	600	545
49121A-102149	21	275	57	750	680
49121A-102250	22	278	59	750	680
49121A-102351	23	282	60	800	725
49121A-102452	24	286	63	850	770
49121A-102755	27	294	69	900	820
49121A-103048	30	302	75	1000	910
49121A-103250	32	310	81	1100	1000
49121A-103654	36	330	85	1300	1180
49121A-104149	41	350	90	1380	1250

49122 Driver Extension



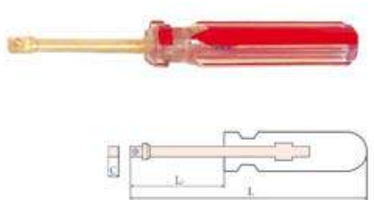
Number	C inch	L mm	Be-Cu g	Al-Cu g
49122-100250	3/8	75	93	80
49122-100452	3/8	150	185	160
49122-100654	1/2	100	245	225
49122-100856	1/2	125	260	230
49122-101048	1/2	200	485	445
49122-101250	1/2	250	510	455
49122-101452	3/4	200	960	870
49122-101654	1	200	1580	1410

49123 Speed Handle



Number	C inch	L mm	H mm	Be-Cu g	Al-Cu g
49123-100250	1/2	390	96	780	700

49124 Driver Type Handle



Number	C inch	L mm	L_1 mm	Be-Cu g	Al-Cu g
49124-100250	1/4	140	55	62	55



B

WRENCHES



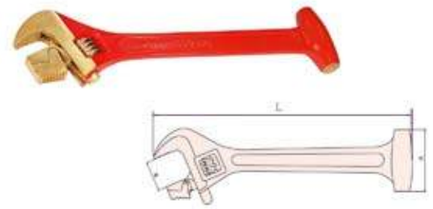


49125 Wrench, Adjustable



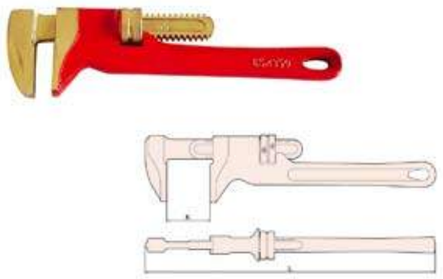
Number	L mm	K_{max} mm	Be-Cu g	Al-Cu g
49125-100250	100	13	33	30
49125-100452	150	18	135	120
49125-100654	200	24	281	255
49125-100856	250	30	440	401
49125-101048	300	36	720	655
49125-101250	375	46	1410	1290
49125-101452	450	55	2261	2065
49125-101654	600	65	4705	4301

49126 Wrench, Adjustable



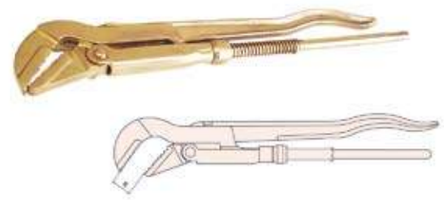
Number	K_{max} mm	L mm	H mm	Be-Cu g	Al-Cu g
49126-100250	36	350	80	1384	1251

49127 Wrench, Monkey



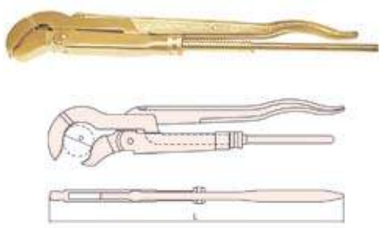
Number	K_{max} mm	L mm	Be-Cu g	Al-Cu g
49127-100250	45	240	510	470
49127-100452	48	254	615	560
49127-100654	58	305	1180	1080
49127-100856	65	350	1220	1120
49127-101048	70	380	1465	1340

49128 Wrench, Swedish Type



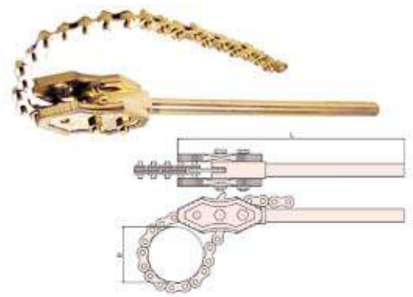
Number	L mm	K mm	Be-Cu g	Al-Cu g
49128-100250	420	38	1427	1305
49128-100452	530	50	1755	1605

49128A Pipe Wrench, Swedish Type



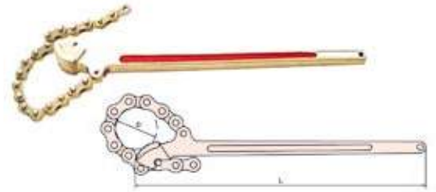
Number	L mm	D inch	Be-Cu g	Al-Cu g
49128A-100250	530	2	2605	2355

49129 Wrench, Chain Pipe



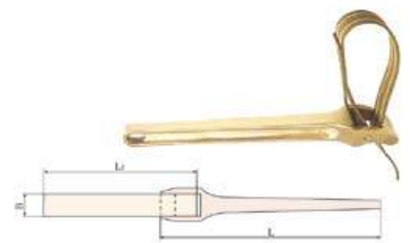
Number	L mm	D_{max} mm	Be-Cu g	Al-Cu g
49129-100250	600	100	3955	3605
49129-100452	600	150	4475	4090
49129-100654	900	200	8705	8005
49129-100856	900	300	9810	9005

49129A Wrench, Chain Pipe Light



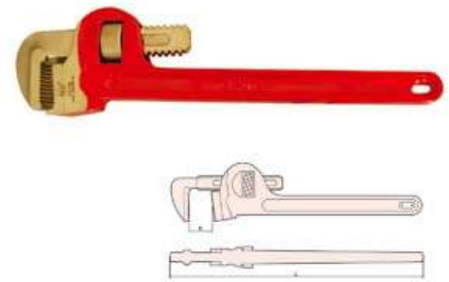
Number	L mm	D mm	Be-Cu g	Al-Cu g
49129A-100250	600	100	2105	1910

49129B Wrench, Belt Pipe



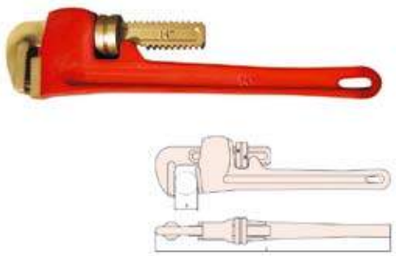
Number	L mm	L_1 mm	B mm	Be-Cu g	Al-Cu g
49129B-100250	300	425	30	810	735

49130 Wrench, Pipe



Number	L mm	K_{max} mm	Be-Cu g	Al-Cu g
49130-100250	200	25	420	380
49130-100452	250	30	615	560
49130-100654	300	40	880	801
49130-100856	350	50	1180	1080
49130-101048	450	60	1590	1450
49130-101250	600	75	3395	3105
49130-101452	900	85	6600	6005
49130-101654	1200	110	12500	11405

49131 Wrench, Pipe (American Type)



Number	L mm	K_{max} mm	Be-Cu g	Al-Cu g
49131-100250	200	25	510	465
49131-100452	250	30	845	770
49131-100654	300	40	1280	1170
49131-100856	350	50	1675	1530
49131-101048	450	60	2650	2420
49131-101250	600	75	3950	3610

49132 Wrench, Combination Set-9pcs



Number	S mm	Be-Cu g	Al-Cu g
4913250	8, 10, 12, 14, 17, 19, 22, 24, 27	1815	1655

49133 Wrench, Combination Set-11pcs



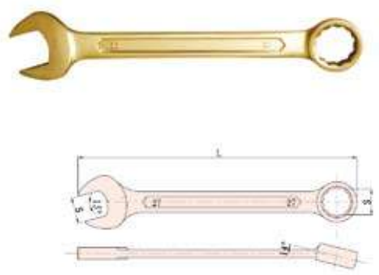
Number	S mm	Be-Cu g	Al-Cu g
4913351	8, 10, 12, 14, 17, 19, 22, 24, 27, 30, 32	3235	2955

49134 Wrench, Combination Set-13pcs



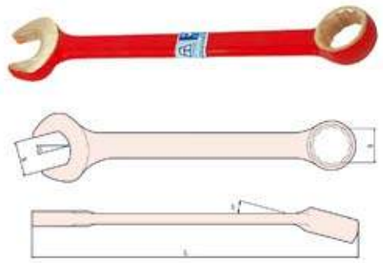
Number	S mm	Be-Cu g	Al-Cu g
4913452	8, 10, 12, 13, 14, 16, 17, 19, 22, 24, 27, 30, 32	3485	3175

49135 Wrench, Combination



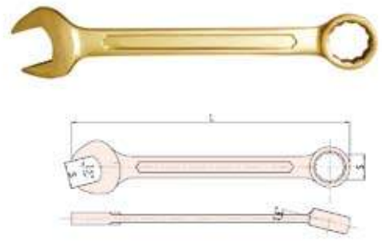
Number	S mm	L mm	Be-Cu g	Al-Cu g
49135-654	6	105	22	20
49135-755	7	105	22	20
49135-856	8	120	37	34
49135-957	9	120	37	34
49135-1048	10	135	55	50
49135-1149	11	135	55	50
49135-1250	12	150	75	70
49135-1351	13	150	75	70
49135-1452	14	175	122	110
49135-1553	15	175	122	110
49135-1654	16	195	155	140
49135-1755	17	195	155	140
49135-1856	18	215	210	190
49135-1957	19	215	210	190
49135-2048	20	230	225	200
49135-2149	21	230	225	200
49135-2250	22	245	250	220
49135-2351	23	245	250	220
49135-2452	24	265	260	230
49135-2553	25	265	260	230
49135-2654	26	290	420	380
49135-2755	27	290	420	380
49135-3048	30	320	560	500
49135-3250	32	340	670	600
49135-3452	34	360	850	750
49135-3553	35	360	890	800
49135-3654	36	360	890	800
49135-3856	38	430	1440	1300
49135-4149	41	430	1440	1300
49135-4654	46	480	1890	1700
49135-5048	50	520	2220	2000
49135-5553	55	560	2780	2500
49135-6048	60	580	3230	2900
49135-6553	65	580	3680	3300
49135-7048	70	590	4770	4300

49135A Wrench, Combination



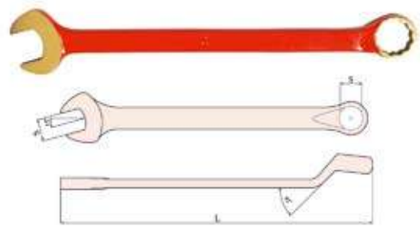
Number	S mm	L mm	Be-Cu g	Al-Cu g
49135A-654	6	115	33	30
49135A-755	7	120	39	35
49135A-856	8	125	45	40
49135A-957	9	130	60	55
49135A-1048	10	135	65	59
49135A-1149	11	140	70	65
49135A-1250	12	145	85	78
49135A-1351	13	155	95	87
49135A-1452	14	165	100	98
49135A-1553	15	175	110	100
49135A-1654	16	185	150	130
49135A-1755	17	195	161	148
49135A-1856	18	205	189	168
49135A-1957	19	215	210	190
49135A-2048	20	225	238	218
49135A-2149	21	235	260	235
49135A-2250	22	245	280	260
49135A-2351	23	255	350	313
49135A-2452	24	265	380	335
49135A-2553	25	270	402	357
49135A-2654	26	275	420	390
49135A-2755	27	285	484	444
49135A-2856	28	293	526	445
49135A-2957	29	300	630	545
49135A-3048	30	310	656	600
49135A-3149	31	320	732	670
49135A-3250	32	330	770	705
49135A-3452	34	337	930	855
49135A-3553	35	337	940	860
49135A-3654	36	345	1090	1002
49135A-3856	38	353	1100	1010
49135A-4048	40	355	1125	1030
49135A-4149	41	366	1220	1120
49135A-4654	46	405	1550	1420
49135A-5048	50	420	1735	1590
49135A-5553	55	435	2210	2025
49135A-6048	60	462	2585	2365
49135A-6553	65	470	2980	2740
49135A-7048	70	480	3560	3230
49135A-7553	75	490	4102	3705
49135A-8048	80	500	4550	4125
49135A-8553	85	515	5350	4850
49135A-9048	90	525	5802	5250

49136 Wrench, Combination



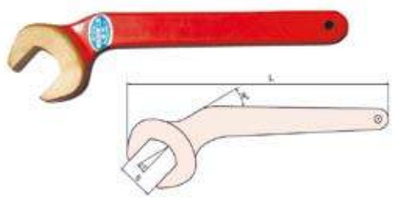
Number	S inch	L mm	Be-Cu g	Al-Cu g
49136-100250	1/4	105	22	20
49136-100452	5/16	120	37	34
49136-100654	3/8	135	55	50
49136-100856	7/16	135	55	50
49136-101048	1/2	150	75	70
49136-101250	9/16	175	122	110
49136-101452	19/32	175	122	110
49136-101654	5/8	195	155	140
49136-101856	11/16	195	155	140
49136-102048	3/4	215	210	190
49136-102250	13/16	230	225	200
49136-102452	7/8	245	250	225
49136-102654	15/16	265	260	230
49136-102856	1	265	260	230
49136-103048	1-1/16	290	420	380
49136-103250	1-1/8	320	560	500
49136-103452	1-3/16	320	560	500
49136-103654	1-1/4	340	670	600
49136-103856	1-5/16	360	850	750
49136-104048	1-3/8	360	890	800

49137 Wrench, Combination



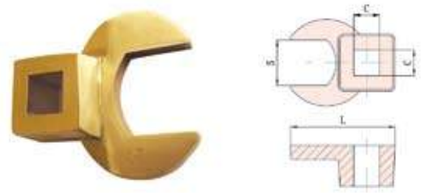
Number	S mm	L mm	Be-Cu g	Al-Cu g
49137-1755	17	240	230	210
49137-1957	19	270	280	250
49137-2149	21	290	380	340
49137-2250	22	295	440	370
49137-2452	24	320	460	390
49137-2755	27	350	605	520

49138 Wrench, Bent Open End



Number	S mm	L mm	Be-Cu g	Al-Cu g
49138-1250	12	120	55	50
49138-1452	14	130	90	80
49138-1755	17	150	125	115
49138-1957	19	170	180	165
49138-2250	22	190	250	230
49138-2452	24	210	255	235
49138-2755	27	230	380	350
49138-3048	30	250	490	450
49138-3250	32	270	590	545
49138-3452	34	280	720	660
49138-3654	36	290	850	780
49138-4149	41	310	1090	1005
49138-4654	46	330	1340	1225
49138-5048	50	350	1615	1480
49138-5553	55	370	2135	1955

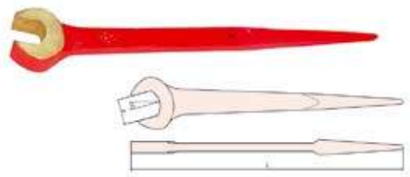
49140A Crow Foot



Number	C inch	S inch	L mm	Be-Cu g	Al-Cu g
49140A-100250	3/8	9/16	35	55	50
49140A-100452	3/8	5/8	37	55	50
49140A-100654	3/8	11/16	38	55	50
49140A-100856	3/8	7/8	43	60	55
49140A-101048	3/8	1-1/8	50	83	75
49140A-101250	3/8	1-1/4	53	95	85
49140A-101452	3/8	1-3/8	56	103	90
49140A-101654	3/8	1-1/2	59	130	120
49140A-101856	3/8	1-7/8	72	180	160
49140A-102048	3/8	2	75	190	165
49140A-102250	3/8	2-1/4	81	200	180

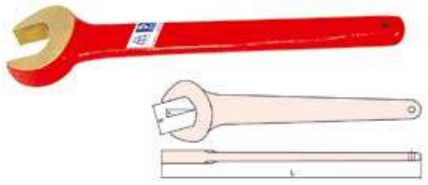
Number	C inch	S mm	L mm	Be-Cu g	Al-Cu g
49140A-102452	1/2	14	40	60	55
49140A-102654	1/2	16	43	62	58
49140A-102856	1/2	17	43	62	58
49140A-103048	1/2	19	49	105	95
49140A-103250	1/2	20	49	105	95
49140A-103452	1/2	22	52	120	102
49140A-103654	1/2	27	59	145	125

49139 Wrench, Construction with Pin



Number	S mm	L mm	Be-Cu g	Al-Cu g
49139-1957	19	240	215	202
49139-2452	24	280	325	302
49139-2755	27	300	390	360
49139-3048	30	320	490	455
49139-3250	32	340	602	550
49139-3654	36	360	775	710

49140 Wrench, Single Open End



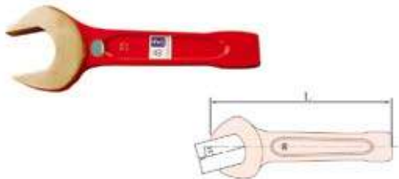
Number	S mm	L mm	Be-Cu g	Al-Cu g
49140-654	6	83	15	10
49140-755	7	87	20	15
49140-856	8	92	25	20
49140-957	9	97	30	25
49140-1048	10	102	40	30
49140-1149	11	107	42	32
49140-1452	14	124	65	50
49140-1755	17	143	105	90
49140-1957	19	157	115	105
49140-2048	20	164	140	125
49140-2149	21	171	202	165
49140-2250	22	180	220	180
49140-2351	23	188	230	190
49140-2452	24	196	235	195
49140-2755	27	225	330	280
49140-3048	30	255	450	390
49140-3250	32	275	602	520
49140-3452	34	285	620	565
49140-3654	36	300	901	775
49140-3957	39	315	950	840
49140-4149	41	325	1040	950
49140-4250	42	330	1060	975
49140-4654	46	350	1180	1080
49140-4856	48	362	1375	1260
49140-5048	50	375	1550	1425
49140-5553	55	400	1910	1750
49140-6048	60	425	2370	2170
49140-6553	65	450	3210	2940
49140-7048	70	475	3550	3280
49140-7553	75	500	4350	3985

49140B Wrench, Construction, Offset Type with Pin



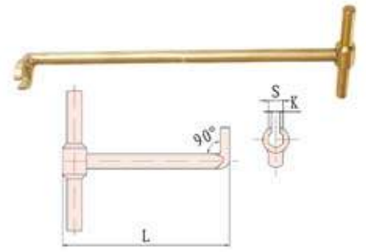
Number	S mm	L mm	Be-Cu g	Al-Cu g
49140B-103250	32	400	890	800
49140B-103654	36	430	1330	1190
49140B-104149	41	470	2030	1820
49140B-104654	46	500	3000	2690
49140B-105048	50	530	4000	3570

49141 Wrench, Striking Open



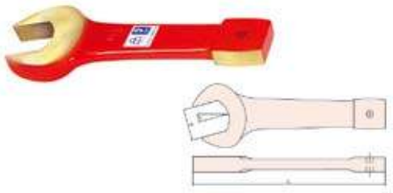
Number	S mm	L mm	Be-Cu g	Al-Cu g
49141-1755	17	125	160	145
49141-1957	19	125	150	135
49141-2250	22	135	195	175
49141-2452	24	150	245	220
49141-2755	27	165	335	300
49141-3048	30	180	435	390
49141-3250	32	190	515	460
49141-3654	36	210	725	655
49141-3856	38	230	955	860
49141-4149	41	230	955	860
49141-4654	46	240	1225	1100
49141-5048	50	255	1340	1200
49141-5250	52	255	1340	1200
49141-5553	55	272	1665	1500
49141-6048	60	290	2190	1970
49141-6553	65	307	2670	2400
49141-7048	70	325	3250	2925
49141-7553	75	343	3660	3300
49141-8048	80	360	4500	4070
49141-8553	85	380	5290	4770
49141-9048	90	400	6640	6000
49141-9553	95	400	6640	6000
49141-10048	100	430	8850	8000
49141-11048	110	465	11060	10000
49141-12048	120	465	11060	10000
49141-13048	130	535	14800	13370
49141-14048	140	560	15850	14330
49141-15048	150	560	15850	14330

49140C T-Handle Wrench



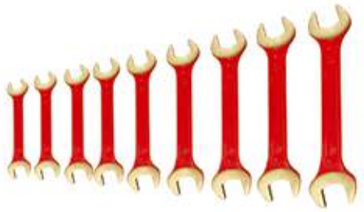
Number	S mm	K mm	L mm	Be-Cu g	Al-Cu g
49140C-856	8	5	215	135	120
49140C-1048	10	6	215	140	125
49140C-1250	12	8	215	145	130
49140C-1452	14	10	215	150	135

49141A Wrench, Striking Open



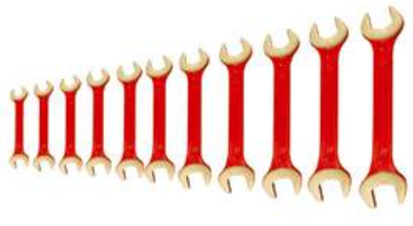
Number	S mm	L mm	Be-Cu g	Al-Cu g
49141A-1755	17	130	133	120
49141A-1856	18	135	150	135
49141A-1957	19	140	172	155
49141A-2250	22	155	252	230
49141A-2452	24	165	305	275
49141A-2654	26	172	350	320
49141A-2755	27	175	385	350
49141A-2856	28	178	415	380
49141A-2957	29	182	430	395
49141A-3048	30	185	515	470
49141A-3250	32	195	585	535
49141A-3654	36	210	851	780
49141A-3856	38	216	910	830
49141A-4149	41	225	1055	965
49141A-4250	42	228	1115	1020
49141A-4553	45	237	1220	1115
49141A-4654	46	240	1245	1140
49141A-5048	50	255	1580	1445
49141A-5250	52	261	1730	1585
49141A-5553	55	270	1865	1705
49141A-5654	56	273	1970	1810
49141A-6048	60	285	2205	2015
49141A-6351	63	297	3005	2740
49141A-6553	65	305	3060	2805
49141A-7048	70	325	3620	3310
49141A-7553	75	345	3905	3570
49141A-7654	76	349	4150	3810
49141A-8048	80	365	4845	4440
49141A-9048	90	385	5370	4920

49142 Wrench, Double Open End Set-9pcs



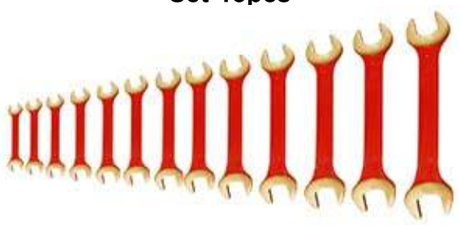
Number	S_1*S_2 mm	Be-Cu g	Al-Cu g
4914250	8*10, 10*12, 12*14, 14*17, 17*19, 19*22, 22*24, 24*27, 30*32	2810	2570

49143 Wrench, Double Open End Set-11pcs



Number	S_1*S_2 mm	Be-Cu g	Al-Cu g
4914351	8*10, 9*11, 10*12, 12*14, 14*17, 17*19, 19*22, 22*24, 24*27, 27*30, 30*32	3530	3230

49144 Wrench, Double Open End Set-13pcs

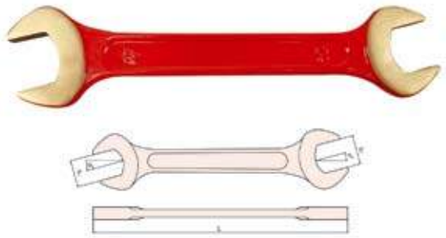


Number	S_1*S_2 mm	Be-Cu g	Al-Cu g
4914452	5.5*7, 6*7, 8*10, 9*11, 10*12, 12*14, 14*17, 17*19, 19*22, 22*24, 24*27, 27*30, 30*32	3610	3295

49145 Wrench, Double Open End



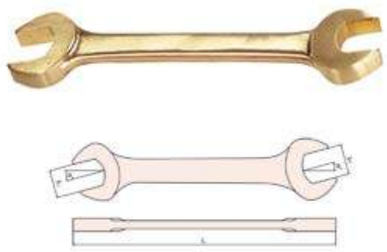
Number	S_1*S_2 mm	L mm	Be-Cu g	Al-Cu g
49145-5755	5,5*7	90	33	30
49145-6755	6*7	92	40	35
49145-6856	6*8	94	45	40
49145-7957	7*9	96	55	50
49145-8957	8*9	98	60	55
49145-81048	8*10	100	65	59
49145-91048	9*10	105	70	64
49145-91149	9*11	110	75	70
49145-101149	10*11	115	85	77
49145-101250	10*12	120	95	87
49145-101452	10*14	124	115	105
49145-111351	11*13	126	125	114
49145-121351	12*13	128	135	125
49145-121452	12*14	130	145	133
49145-131755	13*17	140	150	137
49145-141553	14*15	143	165	150
49145-141755	14*17	150	180	165
49145-161755	16*17	157	200	183
49145-161856	16*18	163	215	197
49145-171957	17*19	170	235	215
49145-172149	17*21	173	255	235
49145-172250	17*22	176	270	250
49145-181957	18*19	179	285	260
49145-192149	19*21	182	305	280
49145-192250	19*22	185	330	302
49145-192452	19*24	190	360	350
49145-202250	20*22	195	390	375
49145-212351	21*23	200	410	390
49145-212654	21*26	205	425	405
49145-222452	22*24	210	445	430
49145-222755	22*27	215	470	445
49145-232654	23*26	220	485	470
49145-242654	24*26	225	515	490
49145-242755	24*27	230	535	490
49145-243048	24*30	233	545	500
49145-252856	25*28	236	565	515
49145-262957	26*29	240	580	530
49145-263250	26*32	243	595	545
49145-272957	27*29	246	630	575
49145-273048	27*30	250	650	593
49145-273250	27*32	255	685	625
49145-293250	29*32	260	730	665
49145-303250	30*32	265	775	710
49145-303654	30*36	270	925	845
49145-323452	32*34	275	1055	965
49145-323654	32*36	290	1155	1055
49145-343654	34*36	305	1475	1350
49145-363856	36*38	320	1585	1450
49145-364149	36*41	335	1610	1470
49145-384048	38*40	345	1715	1570
49145-414654	41*46	355	1790	1640
49145-465048	46*50	370	2220	2030
49145-505553	50*55	385	2610	2385
49145-506048	50*60	400	3085	2820
49145-556048	55*60	415	3270	2990
49145-606553	60*65	435	4540	4150
49145-657048	65*70	460	6130	5605



49146 Wrench, Double Open End

Number	S_1*S_2 mm	L mm	Be-Cu g	Al-Cu g
49146-5755	5.5*7	90	23	20
49146-6755	6*7	92	25	22
49146-6856	6*8	94	28	25
49146-7957	7*9	96	28	25
49146-8957	8*9	98	33	30
49146-81048	8*10	100	34	31
49146-91048	9*10	105	35	32
49146-91149	9*11	110	50	45
49146-101149	10*11	115	52	47
49146-101250	10*12	120	60	55
49146-101351	10*13	122	64	59
49146-101452	10*14	124	68	62
49146-111351	11*13	126	71	65
49146-121351	12*13	128	73	67
49146-121452	12*14	130	75	69
49146-131755	13*17	140	110	100
49146-141553	14*15	143	115	105
49146-141755	14*17	150	120	110
49146-161755	16*17	157	130	120
49146-161856	16*18	163	150	137
49146-171957	17*19	170	170	155
49146-172149	17*21	173	185	169
49146-172250	17*22	176	200	183
49146-181957	18*19	179	215	197
49146-192149	19*21	182	230	210
49146-192250	19*22	185	245	224
49146-192452	19*24	190	260	238
49146-202250	20*22	195	275	252
49146-212351	21*23	200	290	265
49146-212654	21*26	205	305	279
49146-222452	22*24	210	312	285
49146-222755	22*27	215	320	292
49146-232654	23*26	220	330	302
49146-242654	24*26	225	360	329
49146-242755	24*27	230	390	357
49146-243048	24*30	233	420	384
49146-252856	25*28	236	430	393
49146-262957	26*29	240	450	412
49146-263250	26*32	243	495	453
49146-272957	27*29	246	530	485
49146-273048	27*30	250	565	517
49146-273250	2732	255	600	549
49146-293250	29*32	260	635	581
49146-303250	30*32	265	675	617
49146-303654	30*36	270	795	710
49146-323452	32*34	270	795	710
49146-323654	32*36	300	955	860
49146-343654	34*36	300	955	860
49146-363856	36*38	330	1350	1210
49146-364149	36*41	330	1350	1210
49146-384048	38*40	330	1350	1210
49146-414654	41*46	355	1395	1275
49146-465048	46*50	370	1820	1665
49146-505553	50*55	385	2185	1998
49146-506048	50*60	400	2488	2275
49146-556048	55*60	415	2790	2550
49146-606553	60*65	435	3950	3613
49146-657048	65*70	490	4520	4140
49146-657553	65*75	490	5405	4940
49146-708048	70*80	520	6606	6040
49146-758048	75*80	550	7550	6905
49146-758553	75*85	570	8105	7413

49147 Wrench, Double Open End



Number	S_1*S_2 mm	L mm	Be-Cu g	Al-Cu g
49147-100250	1/4*5/16	90	34	30
49147-100452	5/16*3/8	100	45	40
49147-100654	3/8*7/16	110	60	55
49147-100856	3/8*1/2	115	68	60
49147-101048	7/16*1/2	120	85	78
49147-101250	1/2*9/16	130	90	80
49147-101452	9/16*5/8	150	120	105
49147-101654	5/8*11/16	160	155	130
49147-101856	5/8*3/4	165	160	135
49147-102048	11/16*3/4	170	170	145
49147-102250	3/4*13/16	180	225	185
49147-102452	3/4*7/8	185	230	200
49147-102654	13/16*7/8	190	240	215
49147-102856	7/8*15/16	210	305	270
49147-103048	15/16*1	220	365	305
49147-103250	1*1-1/16	230	405	355
49147-103452	1-1/16*1-1/8	235	450	380
49147-103654	1-1/8*1-3/16	245	548	480
49147-103856	1-3/16*1-1/4	250	600	525
49147-104048	1-1/4*1-5/16	260	754	690
49147-104250	1-5/16*1-3/8	295	960	935
49147-104452	1-3/8*1-1/16	320	1050	965
49147-104654	1-7/16*1-5/8	335	1260	1150
49147-104856	1-1/2*1-9/16	345	1340	1225
49147-105048	1-5/8*1-13/16	355	1395	1275
49147-105250	1-13/16*2	370	1820	1665
49147-105452	2*2-3/16	385	218	1998
49147-105654	2*2-3/8	400	2488	2275
49147-105856	2-3/16*2-3/8	415	2790	2550
49147-106048	2-3/8*2-9/16	435	3950	3613

49148 Wrench, Double Box Offset Set-9pcs



Number	S_1*S_2 mm	Be-Cu g	Al-Cu g
4914856	8*10, 10*12, 12*14, 14*17, 17*19, 19*22, 22*24, 24*27, 30*32	2815	2575

49149 Wrench, Double Box Offset Set-11pcs



Number	S_1*S_2 mm	Be-Cu g	Al-Cu g
4914957	8*10, 9*11, 10*12, 12*14, 14*17, 17*19, 19*22, 22*24, 24*27, 27*30, 30*32	3585	3275

49150 Wrench, Double Box Offset Set-13pcs



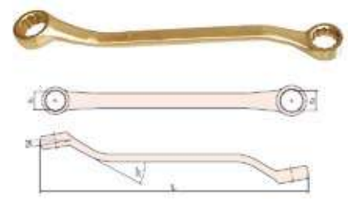
Number	S_1*S_2 mm	Be-Cu g	Al-Cu g
4915048	5.5*7, 6*7, 8*10, 9*11, 10*12, 12*14, 14*17, 17*19, 19*22, 22*24, 24*27, 27*30, 30*32	3630	3320

49151 Wrench, Double Box Offset



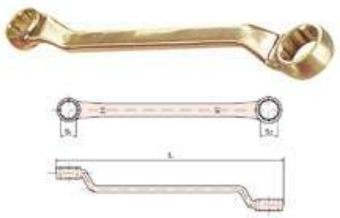
Number	S_1*S_2 mm	L mm	Be-Cu g	Al-Cu g
49151-5755	5.5*7	115	22	20
49151-6755	6*7	115	25	53
49151-6856	6*8	120	35	32
49151-7957	7*9	130	50	46
49151-8957	8*9	130	53	48
49151-81048	8*10	130	55	50
49151-91048	9*10	135	60	55
49151-91149	9*11	140	70	65
49151-101149	10*11	140	80	75
49151-101250	10*12	140	85	78
49151-101351	10*13	140	90	85
49151-101452	10*14	140	102	90
49151-111351	11*13	160	110	102
49151-121351	12*13	160	120	110
49151-121452	12*14	160	151	140
49151-141553	14*15	200	190	170
49151-141755	14*17	220	205	180
49151-161755	16*17	220	210	190
49151-161856	16*18	220	220	202
49151-171957	17*19	250	225	205
49151-172149	17*21	250	280	250
49151-172250	17*22	250	290	265
49151-181957	18*19	250	295	270
49151-192149	19*21	280	305	275
49151-192250	19*22	280	310	280
49151-192452	19*24	310	355	320
49151-202250	20*22	280	305	275
49151-212351	21*23	285	405	360
49151-212654	21*26	320	450	410
49151-222452	22*24	310	455	415
49151-222755	22*27	280	370	330
49151-232654	23*26	340	482	440
49151-242654	24*26	340	482	440
49151-242755	24*27	340	520	475
49151-243048	24*30	350	550	501
49151-252856	25*28	350	580	530
49151-262957	26*29	350	610	550
49151-263250	26*32	370	640	570
49151-272957	27*29	350	670	605
49151-273048	27*30	360	705	645
49151-273250	27*32	380	740	670
49151-293250	29*32	380	780	702
49151-303250	30*32	380	805	736
49151-303654	30*36	395	1050	960
49151-323452	32*34	398	1080	980
49151-323553	32*35	404	1110	1010
49151-323654	32*36	410	1145	1030
49151-343654	34*36	418	1165	1065
49151-354149	35*41	426	1305	1178
49151-363856	36*38	434	1530	1400
49151-364149	36*41	450	1600	1465
49151-384048	38*40	460	1803	1640
49151-414654	41*46	470	2077	1905
49151-465048	46*50	490	2530	2315
49151-505553	50*55	510	2580	2360
49151-506048	50*60	520	3002	2745
49151-556048	55*60	530	3203	2905
49151-607048	60*70	560	4105	3605

49152 Wrench, Double Box Offset



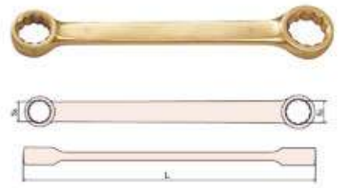
Number	S_1*S_2 mm	L mm	Be-Cu g	Al-Cu g
49152-5755	5.5*7	120	40	35
49152-6755	6*7	122	45	40
49152-7957	7*9	126	50	46
49152-81048	8*10	130	55	50
49152-91048	9*10	135	60	55
49152-91149	9*11	140	70	65
49152-101250	10*12	160	85	80
49152-101351	10*13	164	90	85
49152-101452	10*14	168	110	100
49152-111351	11*13	172	110	105
49152-121351	12*13	176	120	115
49152-121452	12*14	180	125	110
49152-141755	14*17	220	190	170
49152-161856	16*18	240	230	205
49152-171957	17*19	250	240	215
49152-181957	18*19	268	295	270
49152-192250	19*22	280	322	295
49152-202250	20*22	292	365	330
49152-212351	21*23	298	393	360
49152-222452	22*24	310	450	415
49152-232654	23*26	325	465	435
49152-242755	24*27	340	520	476
49152-252856	25*28	346	580	530
49152-273048	27*30	360	705	645
49152-303250	30*32	380	805	736
49152-323452	32*34	398	890	800
49152-343654	34*36	418	1070	960
49152-363856	36*38	434	1200	1080
49152-364149	36*41	450	1560	1400
49152-384048	brak	brak	brak	brak
49152-414654	brak	brak	brak	brak
49152-465048	46*50	490	2530	2314
49152-505553	50*55	510	2040	1830

49153 Wrench, Double Box Offset



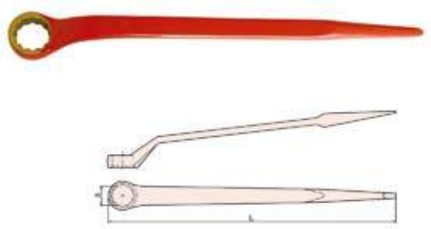
Number	S_1*S_2 mm	L mm	Be-Cu g	Al-Cu g
49153-100250	1/4*5/16	115	30	27
49153-100654	5/16*3/8	125	45	40
49153-100856	3/8*7/16	140	60	55
49153-101048	7/16*1/2	155	90	80
49153-101250	1/2*9/16	175	115	105
49153-101452	9/16*5/8	215	190	170
49153-101654	5/8*11/16	220	205	190
49153-101856	11/16*3/4	245	235	215
49153-102048	3/4*13/16	255	295	270
49153-102250	13/16*7/8	275	350	320
49153-102452	7/8*15/16	305	405	370
49153-102654	15/16*1	310	490	375
49153-102856	1*1-1/16	330	535	490
49153-103048	1-1/16*1-1/8	330	570	520
49153-103250	1-1/8*1-3/16	370	830	760
49153-103452	1-3/16*1-1/4	370	835	765
49153-103654	1-1/4*1-5/16	380	1020	935
49153-103856	1-5/16*1-3/8	410	1050	960
49153-104048	1-3/8*1-7/16	410	1425	1310
49153-104250	1-7/16*1-5/8	450	1585	1450
49153-104452	1-1/2*1-9/16	460	1803	1640
49153-104654	1-5/8*1-13/16	470	2077	1905
49153-104856	1-13/16*2	490	2530	2315
49153-105048	2*2-3/16	510	2580	2360
49153-105149	2*2-3/8	520	3002	2745
49153-105250	2-3/16*2-3/8	530	3203	2905
49153-105452	2-3/8*2-3/4	560	4105	3605

49153A Wrench, Double Flat Box



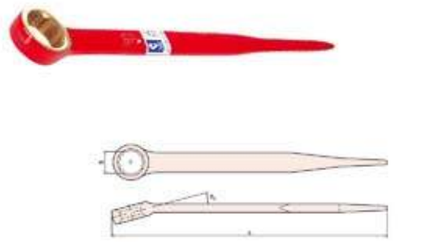
Number	S_1*S_2 mm	L mm	Be-Cu g	Al-Cu g
49153A-7957	7*9	115	40	35
49153A-101149	10*11	140	60	50
49153A-121452	12*14	160	100	90
49153A-141755	14*17	180	115	100
49153A-161856	16*18	200	195	170
49153A-181957	18*19	225	270	240
49153A-172250	17*22	235	300	260
49153A-192149	19*21	240	320	280
49153A-202250	20*22	250	370	330
49153A-212351	21*23	255	410	360
49153A-222452	22*24	280	460	410
49153A-242755	24*27	300	590	520
49153A-252856	25*28	305	620	550
49153A-273048	27*30	310	700	620
49153A-273250	27*32	320	750	670
49153A-303250	30*32	340	790	700

49154 Wrench, Construction



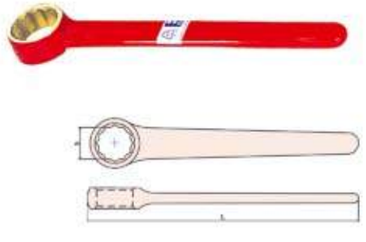
Number	S mm	L mm	Be-Cu g	Al-Cu g
49154-1048	10	200	90	85
49154-1149	11	210	100	92
49154-1250	12	220	110	100
49154-1351	13	230	120	105
49154-1452	14	240	145	133
49154-1553	15	250	180	165
49154-1654	16	260	202	185
49154-1755	17	270	210	192
49154-1957	19	300	280	256
49154-2149	21	310	350	320
49154-2250	22	330	360	330
49154-2351	23	340	375	345
49154-2452	24	350	390	357
49154-2654	26	360	540	495
49154-2755	27	370	600	550
49154-2856	28	380	625	570
49154-2957	29	390	640	585
49154-3048	30	400	650	595
49154-3250	32	420	780	715
49154-3452	34	430	855	785
49154-3553	35	440	905	830
49154-3654	36	450	970	890
49154-3856	38	460	1105	1005
49154-4149	41	480	1390	1280
49154-4654	46	500	1750	1605

49155 Wrench, Construction



Number	S mm	L mm	Be-Cu g	Al-Cu g
49155-856	8	140	60	55
49155-1048	10	150	70	64
49155-1149	11	160	80	73
49155-1250	12	170	90	83
49155-1351	13	180	102	91
49155-1452	14	190	115	102
49155-1553	15	200	125	110
49155-1654	16	210	130	122
49155-1755	17	220	165	145
49155-1856	18	230	180	165
49155-1957	19	240	230	195
49155-2048	20	250	242	220
49155-2149	21	260	251	230
49155-2250	22	270	303	274
49155-2351	23	280	330	302
49155-2452	24	290	361	330
49155-2553	25	300	403	366
49155-2654	26	310	450	412
49155-2755	27	320	472	430
49155-2856	28	330	550	503
49155-2957	29	340	605	550
49155-3048	30	350	650	585
49155-3250	32	370	680	620
49155-3452	34	380	803	730
49155-3553	35	385	902	823
49155-3654	36	390	950	850
49155-3856	38	400	1005	880
49155-4149	41	410	1430	1025
49155-4654	46	420	1460	1310
49155-5048	50	430	1580	1420
49155-5553	55	440	1870	1690
49155-6048	60	460	2330	2095
49155-6553	65	480	2802	2535
49155-7048	70	500	3150	2845

49156 Wrench, Single Box



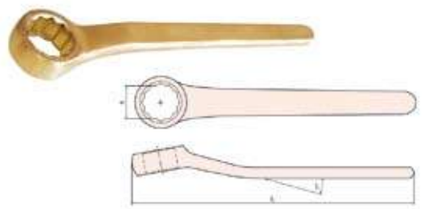
Number	S mm	L mm	Be-Cu g	Al-Cu g
49156-856	8	100	24	20
49156-1048	10	110	38	35
49156-1250	12	120	55	50
49156-1452	14	130	75	70
49156-1654	16	143	125	115
49156-1755	17	150	130	118
49156-1856	18	160	135	120
49156-1957	19	170	170	155
49156-2048	20	176	180	165
49156-2149	21	183	185	170
49156-2250	22	190	202	185
49156-2452	24	210	260	240
49156-2755	27	230	355	325
49156-3048	30	250	470	430
49156-3250	32	270	595	454
49156-3452	34	280	66	605
49156-3654	36	290	765	702
49156-3856	38	298	920	845
49156-4149	41	310	1010	930
49156-4553	45	326	1205	1105
49156-4654	46	330	1295	1185
49156-4856	48	340	1480	1360
49156-5048	50	350	1610	1475
49156-5553	55	370	1770	1620
49156-5654	56	374	1840	1685
49156-6048	60	390	1995	1825
49156-6553	65	410	2390	2195
49156-7048	70	430	2805	2565
49156-7553	75	450	3405	3110
49156-8048	80	470	4080	375
49156-8553	85	490	4620	4230

49157 Wrench, Single Bent Box



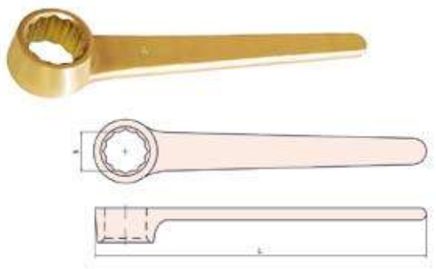
Number	S mm	L mm	Be-Cu g	Al-Cu g
49157-1048	10	119	65	57
49157-1250	12	151	90	82
49157-1452	14	151	95	85
49157-1654	16	174	160	145
49157-1755	17	174	160	145
49157-1957	19	207	230	205
49157-2250	22	207	230	205
49157-2452	24	207	350	315
49157-2755	27	207	350	315
49157-3048	30	250	560	520
49157-3250	32	250	585	550
49157-3452	34	295	650	580
49157-3654	36	295	650	580
49157-3856	38	307	860	770
49157-4149	41	307	860	770
49157-4654	46	340	1100	1000
49157-5048	50	340	1670	1500
49157-5553	55	370	2110	1900
49157-6048	60	400	2570	220
49157-6553	65	430	2660	2400
49157-7048	70	450	3670	3310
49157-7553	75	470	4100	3700
49157-8048	80	490	4460	4030

49158 Wrench, Single Box Offset



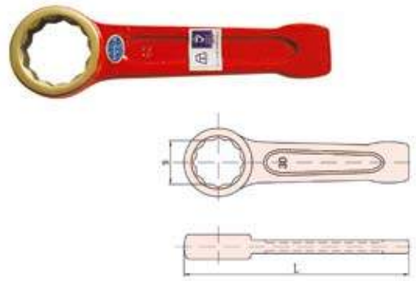
Number	S mm	L mm	Be-Cu g	Al-Cu g
49158-1755	17	150	135	122
49158-1957	19	170	175	150
49158-2149	21	183	220	190
49158-2250	22	190	230	202
49158-2452	24	210	302	250
49158-2755	27	230	380	330
49158-3048	30	270	620	540
49158-3250	32	270	620	540
49158-3654	36	290	805	710

49159 Wrench, Single Box Convex



Number	S mm	L mm	Be-Cu g	Al-Cu g
49159-1048	10	110	61	65
49159-1250	12	120	92	102
49159-1452	14	130	111	120
49159-1755	17	150	145	130
49159-1957	19	170	183	160
49159-2250	22	190	240	215
49159-2452	24	210	320	290
49159-2755	27	230	401	370
49159-3048	30	250	520	475
49159-3250	32	270	650	595
49159-3452	34	280	780	715
49159-3654	36	290	802	730

49160 Wrench, Striking Box



Number	S mm	L mm	Be-Cu g	Al-Cu g
49160-1755	17	125	140	120
49160-1957	19	125	140	120
49160-2250	22	125	160	140
49160-2452	24	140	210	185
49160-2755	27	15	310	275
49160-3048	30	165	400	355
49160-3250	32	180	470	425
49160-3452	34	200	580	520
49160-3654	36	200	580	520
49160-3856	38	230	790	710
49160-4149	41	230	790	710
49160-4654	46	235	990	890
49160-5048	50	250	1145	1030
49160-5553	55	265	1350	1175
49160-6048	60	280	1620	1450
49160-6553	65	295	1900	1700
49160-7048	70	310	2270	2040
49160-7553	75	325	2680	2400
49160-8048	80	340	2820	2530
49160-8553	85	355	4000	3590
49160-9048	90	390	5300	4770
49160-9553	95	390	5300	4770
49160-10048	100	420	6730	6060
49160-10553	105	420	6730	6060
49160-11048	110	450	8660	7800
49160-12048	120	480	11000	9800
49160-13048	130	510	14260	12850
49160-14048	140	520	15360	13850
49160-15048	150	565	16580	14950

49160A Wrench, Striking Box



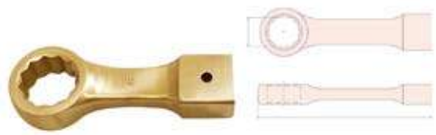
Number	S mm	L mm	Be-Cu g	Al-Cu g
49160A-1755	17	108	105	95
49160A-1957	19	117	135	125
49160A-2250	22	127	192	185
49160A-2452	24	138	270	250
49160A-2654	26	146	320	295
49160A-2755	27	150	350	320
49160A-2856	28	154	365	330
49160A-3048	30	163	460	420
49160A-3250	32	177	610	555
49160A-3452	34	192	690	630
49160A-3654	36	208	780	710
49160A-3856	38	215	875	805
49160A-4048	40	222	895	815
49160A-4149	41	225	985	902
49160A-4250	42	229	1010	920
49160A-4553	45	239	1150	1050
49160A-4654	46	243	1275	1160
49160A-5048	50	254	1545	1410
49160A-5250	52	258	1570	1430
49160A-5553	55	264	1720	1560
49160A-6048	60	275	2080	1880
49160A-6553	65	286	2440	2202
49160A-7048	70	298	2735	2470
49160A-7553	75	311	3190	2905
49160A-8048	80	325	3485	3160
49160A-8553	85	339	3990	3650
49160A-9048	90	355	4350	3960
49160A-9553	95	370	5046	4560
49160A-10048	100	387	5630	5125
49160A-10553	105	405	6250	5690
49160A-11048	110	410	5480	5960
49160A-12048	120	425	7405	6735
49160A-13048	130	450	7905	7205
49160A-14048	140	465	8105	7405

49161 Wrench, Striking Box



Number	S mm	L mm	Be-Cu g	Al-Cu g
49161-100250	11/16	125	145	125
49161-100452	3/4	125	145	125
49161-100654	7/8	125	160	140
49161-100856	1	150	310	275
49161-101048	1-1/16	150	310	275
49161-101250	1-1/8	165	400	355
49161-101452	1-3/16	165	400	355
49161-101654	1-1/4	180	470	425
49161-101856	1-3/8	200	580	520
49161-102048	1-13/32	200	580	520
49161-102250	1-1/2	230	790	710
49161-102452	1-5/8	230	790	710
49161-102654	1-3/4	235	990	890
49161-102856	1-13/16	235	990	890
49161-103048	2	250	1145	1030
49161-103250	2-1/16	250	1145	1030
49161-103452	2-3/16	265	1350	1175
49161-103654	2-13/64	265	1350	1175
49161-103856	2-5/16	280	1620	1450
49161-104048	2-3/8	280	1620	1450
49161-104250	2-1/2	195	1900	1700
49161-104452	2-9/16	295	1900	1700
49161-104654	2-5/8	295	1900	1700
49161-104856	2-3/4	310	2270	2040
49161-105048	2-15/16	325	2680	2400
49161-105250	3	325	2680	2400
49161-105452	3-1/16	340	2820	2530
49161-105654	3-1/8	340	2820	2530
49161-105856	3-3/8	355	4000	3590
49161-106048	3-9/16	390	5300	4770
49161-106250	3-3/4	390	5300	4770
49161-106452	3-15/16	420	6730	6060
49161-106654	4-1/8	420	6730	6060

49162 Wrench, Striking Box



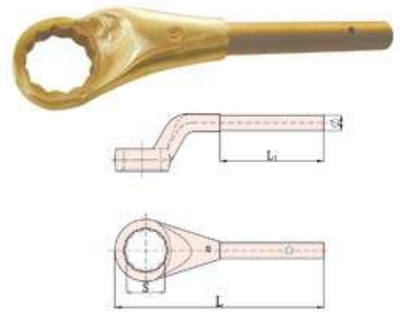
Number	S mm	L mm	Be-Cu g	Al-Cu g
49162-3250	32	180	790	710
49162-3654	36	190	990	900
49162-4149	41	200	1450	1300
49162-4654	46	210	1770	1600
49162-5049	50	230	1930	1730
49162-5553	55	260	3400	3060
49162-6048	60	290	4200	3800
49162-6553	65	320	5430	4900
49162-7048	70	350	6480	5850
49162-7553	75	380	7890	7130
49162-8048	80	410	10350	9350

49163 Wrench, Striking Convex Box



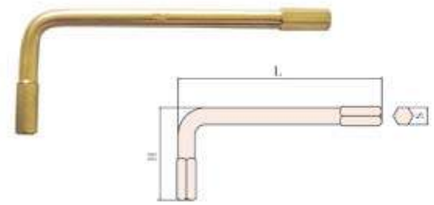
Number	S mm	L mm	Be-Cu g	Al-Cu g
49163-2452	24	140	305	275
49163-2654	26	146	342	322
49163-2755	27	150	415	381
49163-3048	30	165	515	470
49163-3250	32	180	705	640
49163-3654	36	210	880	805
49163-4149	41	227	1135	1035
49163-4654	46	245	1435	1310
49163-5048	50	257	1725	1575
49163-5553	55	267	2005	1830
49163-6048	60	278	2235	2040

49164A Ring Wrench For Extension



Number	S mm	L mm	L_1 mm	Be-Cu g	Al-Cu g
49164A-3048	30	200	95	800	720
49164A-3250	32	235	115	950	850
49164A-3654	36	245	115	1000	900
49164A-4149	41	265	125	1100	990
49164A-4654	46	280	130	1500	1350
49164A-5048	50	290	130	1550	1400
49164A-5553	55	300	135	1700	1530
49164A-6048	60	345	150	2500	2250
49164A-6553	65	355	160	3000	2720
49164A-7048	70	375	160	3850	3490

49166 Wrench, Hex Key



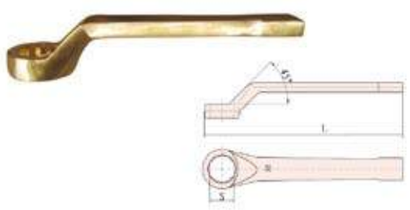
Number	S mm	L mm	H mm	Be-Cu g	Al-Cu g
49166-1.553	1.5	38	13	6	5
49166-250	2	38	13	6	5
49166-2.553	2.5	38	13	6	5
49166-351	3	59	25	8	7
49166-452	4	65	30	10	8
49166-553	5	79	32	16	12
49166-654	6	85	37	25	20
49166-755	7	88	43	34	30
49166-856	8	92	44	50	45
49166-957	9	97	44	61	55
49166-1048	10	110	45	82	70
49166-1149	11	119	48	114	105
49166-1250	12	130	52	145	130
49166-1351	13	140	54	180	160
49166-1452	14	150	58	211	191
49166-1553	15	156	60	260	230
49166-1654	16	162	63	330	301
49166-1755	17	168	65	370	335
49166-1856	18	173	69	450	402
49166-1957	19	177	72	490	445
49166-2149	21	184	74	652	595
49166-2250	22	186	77	675	615
49166-2351	23	189	80	741	671
49166-2452	24	192	82	825	755
49166-2553	25	200	81	925	840
49166-2654	26	206	90	1025	940
49166-2755	27	213	93	1220	1115
49166-2856	28	222	95	1350	1235
49166-2957	29	231	100	1480	1350
49166-3048	30	240	105	1615	1475
49166-3250	32	266	116	2065	1885
49166-3654	36	294	128	2905	2650
49166-4149	41	320	140	4120	3760

51 Extension For No.164A



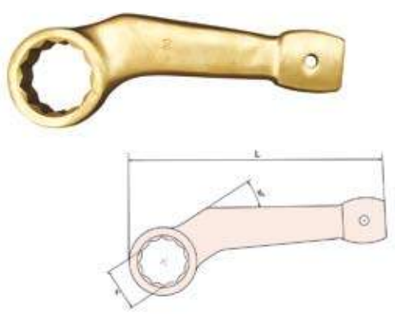
Number	Ø mm	L mm	Be-Cu g	Al-Cu g
5130-4149	22	600	1600	1450
5246-5553	25	750	2400	2170
5460-7048	30	850	3800	3430

49162A Wrench, Offset Striking Box



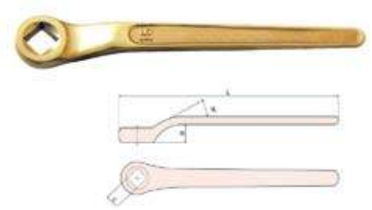
Number	S mm	L mm	Be-Cu g	Al-Cu g
49162A-2755	27	245	670	600
49162A-3048	30	270	970	870
49162A-3250	32	270	970	870
49162A-3654	36	280	1060	950
49162A-4149	41	305	1430	1280
49162A-4654	46	310	1830	1640
49162A-5048	50	320	2100	1890
49162A-5553	55	320	2350	2110
49162A-6048	60	355	2900	2610
49162A-6553	65	380	3470	3120
49162A-7048	70	400	4050	3640
49162A-7553	75	420	4350	4180
49162A-8048	80	435	5500	4950
49162A-8553	85	440	6500	5850
49162A-9048	90	440	6270	5650
49162A-9553	95	440	7750	6980
49162A-10048	100	440	7430	6700
49162A-11048	110	440	8060	7270
49162A-12048	120	440	8480	7650

49164 Wrench, Striking Box Bent



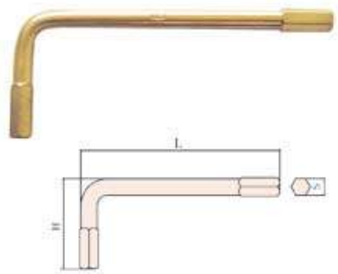
Number	S mm	L mm	Be-Cu g	Al-Cu g
49164-2452	24	160	310	280
49164-2755	27	170	440	401
49164-3048	30	180	505	460
49164-3250	32	190	655	605
49164-3654	36	210	865	790
49164-4149	41	225	1095	1003
49164-4654	46	240	1260	1150
49164-5048	50	255	1575	1440
49164-5553	55	270	1905	1740
49164-6048	60	285	2330	2130
49164-6553	65	300	2480	2265
49164-7048	70	315	2903	2650

49165 Valve Square Driver



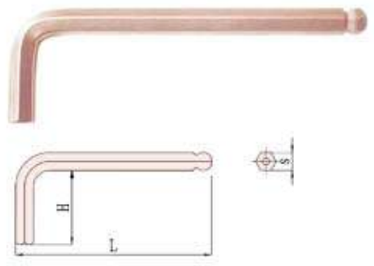
Number	S mm	L mm	H mm	Be-Cu g	Al-Cu g
49165-654	6	110	9	65	55
49165-856	8	120	10	75	61
49165-957	9	140	11	90	75
49165-1048	10	140	12	105	85
49165-1149	11	160	13	130	102
49165-1250	12	190	14	180	145
49165-1351	13	200	15	185	151
49165-1452	14	250	16	300	261
49165-1654	16	250	18	335	285
49165-1755	17	300	19	420	366
49165-1957	19	350	20	740	662
49165-2250	22	400	22	1000	896
49165-2452	24	500	24	1330	1182

49167 Wrench, Hex Key



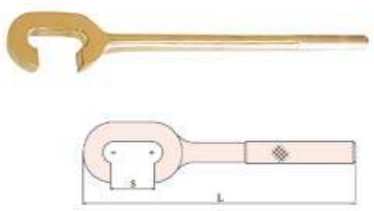
Number	S inch	L mm	H mm	Be-Cu g	Al-Cu g
49167-100250	1/16	38	13	6	5
49167-100452	5/64	38	13	6	5
49167-100654	3/32	38	13	6	5
49167-100856	7/64	58	24	8	6
49167-101048	1/8	58	24	8	6
49167-101250	9/64	64	29	8	7
49167-101452	5/32	65	30	10	9
49167-101654	3/16	79	31	15	14
49167-101856	7/32	85	37	20	18
49167-102048	1/4	85	37	30	27
49167-102250	9/32	88	43	45	40
49167-102452	5/16	92	44	48	44
49167-102654	11/32	97	44	50	45
49167-102856	3/8	110	45	85	80
49167-103048	7/16	119	48	110	100
49167-103250	1/2	140	55	170	155
49167-103452	9/16	150	58	195	180
49167-103654	5/8	162	63	270	245
49167-103856	11/16	168	65	355	325
49167-104048	3/4	178	73	450	415
49167-104250	13/16	184	77	565	520
49167-104452	7/8	187	79	650	595
49167-104654	15/16	192	82	825	755
49167-104856	1	200	85	925	840
49167-105048	1-1/16	213	93	1220	1115
49167-105250	1-1/8	222	95	1350	1235
49167-105452	1-3/16	240	105	1615	1475
49167-105654	1-1/4	266	116	2065	1885
49167-105856	1-7/16	294	128	2905	2650
49167-106048	1-5/8	320	140	4120	3760

49167A Wrench, Hex Key with Ball



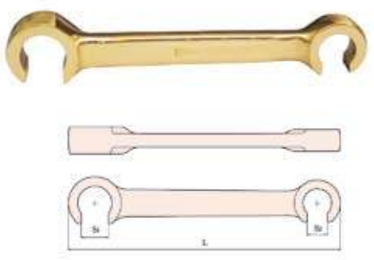
Number	S mm	L mm	H mm	Be-Cu g	Al-Cu g
49167A-100250	2	50	16	3	
49167A-100351	3	63	20	5	
49167A-100452	4	70	25	12	
49167A-100553	5	80	28	22	
49167A-100654	6	90	32	30	
49167A-100755	7	95	34	50	
49167A-100856	8	100	36	56	
49167A-100957	9	106	38	85	
49167A-101048	10	112	40	100	
49167A-101149	11	118	42	140	
49167A-101250	12	125	45	162	

49168 Wrench, C



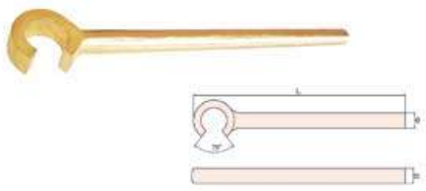
Number	S mm	L mm	Be-Cu g	Al-Cu g
49168-100250	450	40	1205	1102

49169 Wrench, C



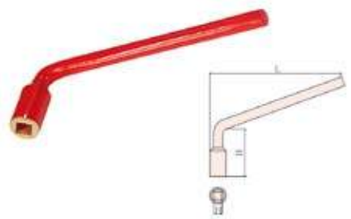
Number	L mm	S_1 mm	S_2 mm	Be-Cu g	Al-Cu g
49169-100250	200	20	15	392	360

49170 Wrench, C



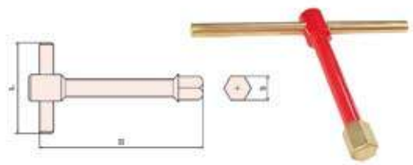
Number	L mm	Ø mm	H mm	Be-Cu g	Al-Cu g
49170-100250	600	32	32	4500	4115

49171 Oxygen Bottle Wrench



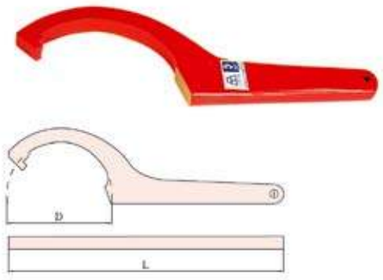
Number	C mm	L mm	H mm	Be-Cu g	Al-Cu g
49171-100250	3/8	154	40	185	170

49172 Wrench T-type Sliding Hex



Number	S mm	L mm	H mm	Be-Cu g	Al-Cu g
49172-1048	10	150	10	70	245
49172-1250	12	170	130	290	265
49172-1452	14	170	140	400	365
49172-1755	17	190	150	465	423
49172-1957	19	220	160	615	563
49172-2250	22	240	170	660	605
49172-2452	24	260	180	935	855
49172-2755	27	260	190	1000	915
49172-3048	30	280	200	1306	1195
49172-3250	32	280	210	1505	1375
49172-3654	36	300	216	1802	1645
49172-4149	41	300	226	2075	1895

49173 Wrench, Hook



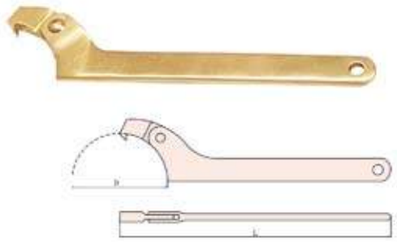
Number	D mm	H mm	Be-Cu g	Al-Cu g
49173-1250	12-14	100	25	20
49173-1654	16-20	100	30	25
49173-3048	30-32	120	55	50
49173-4048	40-42	150	85	75
49173-5250	52-55	180	140	125
49173-6856	68-75	210	230	202
49173-9553	95-100	240	410	365

49173A Wrench, Hook



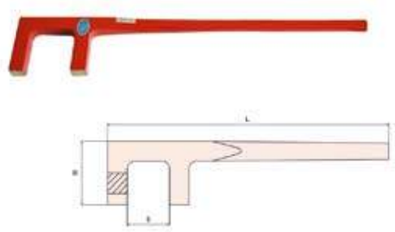
Number	L mm	Be-Cu g	Al-Cu g
49173A-100250	280	350	310

49173B Wrench, Adjustable Hook



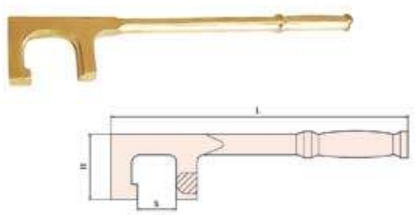
Number	D mm	L mm	Be-Cu g	Al-Cu g
49173B-100250	32-75	212	185	165
49173B-100452	50-120	285	490	430
49173B-100654	115-170	310	1000	800

49174 Valve Handle



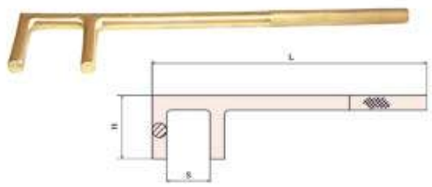
Number	S mm	L mm	H mm	Be-Cu g	Al-Cu g
49174-3048	30	200	44	405	340
49174-3553	35	250	49	465	410
49174-4048	40	300	50	595	540
49174-4553	45	350	61	835	762
49174-4856	48	375	62	865	790
49174-5048	50	400	67	892	815
49174-5553	55	450	73	1270	1110
49174-6048	60	500	79	1570	1435
49174-6553	65	550	80	1920	1755
49174-7048	70	600	80	1945	1775
49174-7553	75	650	85	2245	2055
49174-8048	80	700	91	2405	2190
49174-8553	85	750	97	3050	2770
49174-9048	90	800	103	3360	3060
49174-9351	93	850	107	3553	3250
49174-9654	96	900	110	3870	3515
49174-10048	100	1000	114	4170	3795
49174-10351	103	1200	120	6330	5765

49175 Valve Handle



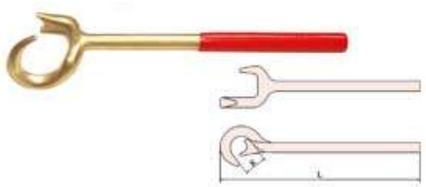
Number	S mm	L mm	H mm	Be-Cu g	Al-Cu g
49175-2250	22	200	50	390	345
49175-2856	28	250	53	550	475
49175-3452	34	300	56	722	615
49175-3957	39	350	60	905	780
49175-4452	44	400	64	1050	910
49175-4856	48	450	69	1260	1130
49175-5351	53	500	74	1405	1250
49175-5856	58	550	79	1890	1720
49175-6351	63	600	84	2220	2005

49176 Valve Handle



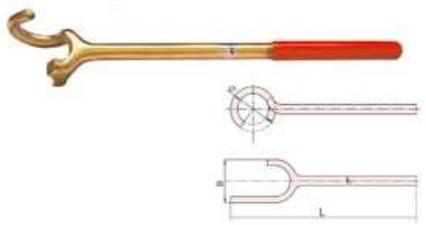
Number	S mm	L mm	H mm	Be-Cu g	Al-Cu g
49176-3048	30	200	44	280	250
49176-3250	32	300	50	540	490
49176-3553	35	250	47	364	325
49176-4048	40	300	50	470	422
49176-4553	45	350	58	610	540
49176-4856	48	375	62	660	595
49176-5048	50	400	67	705	615
49176-5553	55	450	73	960	870
49176-6048	60	500	79	1205	1105
49176-6553	65	550	82	1370	1250
49176-7048	70	600	85	1540	1360
49176-7553	75	650	88	1705	1540
49176-8048	80	700	91	1910	1650
49176-8553	85	750	97	2250	2015
49176-9048	90	800	103	2380	2130

49176A Valve Spanner



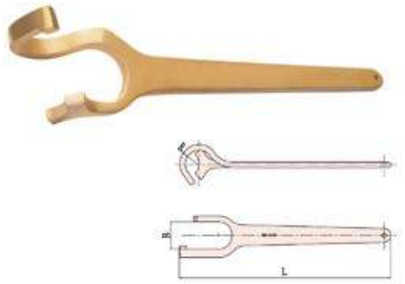
Number	K mm	L mm	Be-Cu g	Al-Cu g
49176A-100250	40	355	915	825

49176B Valve Spanner



Number	B mm	Ø mm	L mm	Be-Cu g	Al-Cu g
49176B-100250	60	36	370	730	650
49176B-100452	80	48	430	1520	1350
49176B-100654	102	62	550	2250	2000

49176C Valve Spanner



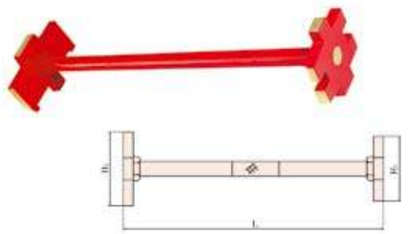
Number	B mm	R mm	L mm	Be-Cu g	Al-Cu g
49176C-100250	30	15	250	415	375
49176C-100452	40	20	300	540	485
49176C-100654	50	25	400	1050	950
49176C-100856	60	30	550	1800	1630
49176C-101048	130	65	750	4900	4430

49177 Wrench, Bung



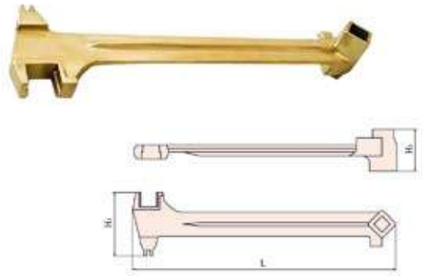
Number	L mm	H mm	Be-Cu g	Al-Cu g
49177-100250	300	70	630	580

49178 Wrench, Bung



Number	L mm	H_1 mm	H_2 mm	Be-Cu g	Al-Cu g
49178-100250	350	70	95	1165	1070

49179 Wrench, Bung



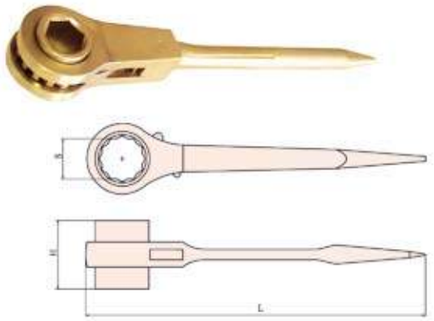
Number	L mm	H_1 mm	H_2 mm	Be-Cu g	Al-Cu g
49179-100250	385	93	61	1250	1150

49180 Ratchet Wrench



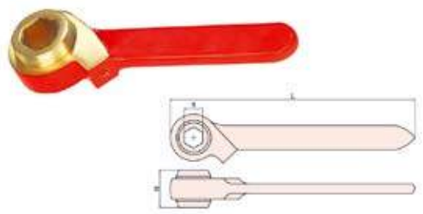
Number	S mm	L mm	H mm	Be-Cu g	Al-Cu g
49180-2250	22	270	18	580	520
49180-2452	24	280	19	620	560
49180-2755	27	290	20	730	660
49180-3048	30	300	21	800	720
49180-3250	32	310	22	900	810
49180-3654	36	320	23	1000	900
49180-3856	38	320	65	1150	1030
49180-4149	41	330	70	1500	1350

49181 Ratchet Wrench



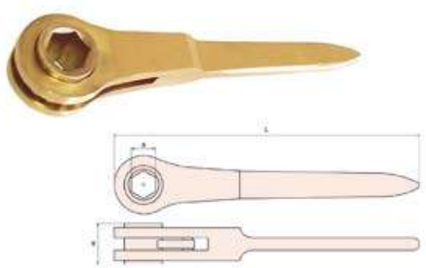
Number	S mm	L mm	H mm	Be-Cu g	Al-Cu g
49181-1755	17	290	35	720	650
49181-1957	19	300	35	850	750
49181-2250	22	320	38	995	890
49181-2452	24	329	39	1230	1100
49181-2755	27	380	39	1500	1350
49181-3048	30	433	42	1900	1720
49181-3250	32	435	42	1935	1670
49181-3654	36	487	43	2580	2320

49183 Ratchet Wrench



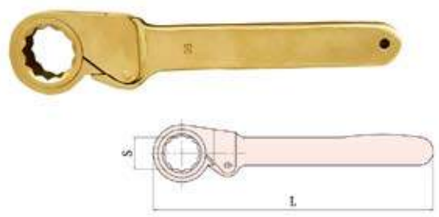
Number	S mm	L mm	H mm	Be-Cu g	Al-Cu g
49183-1755	17	250	35	710	650
49183-1957	19	250	42	896	820
49183-2149	21	250	42	1030	940
49183-2250	22	250	42	1105	1010
49183-2452	24	250	48	1345	1230
49183-2654	26	250	48	1365	1250
49183-2755	27	250	48	1580	1450
49183-3048	30	250	53	1795	1640
49183-3250	32	250	53	1990	1820
49183-3553	35	250	60	2010	1840
49183-3654	36	250	60	2225	2035

49182 Ratchet Wrench



Number	S mm	L mm	H mm	Be-Cu g	Al-Cu g
49182-1755	17	230	35	725	621
49182-1957	19	240	35	745	652
49182-2149	21	250	38	942	831
49182-2250	22	260	38	963	835
49182-2452	24	270	39	1175	1022
49182-2654	26	280	39	1221	1053
49182-2755	27	285	39	1253	1102
49182-3048	30	300	42	1532	1325
49182-3250	32	315	42	1622	1427
49182-3553	35	325	43	1821	1633
49182-3654	36	330	43	1829	1673
49182-4149	41	330	45	2129	1948

49183A Ratchet Wrench



Number	S mm	L mm	Be-Cu g	Al-Cu g
49183A-957	9	150	125	110
49183A-1149	11	150	125	110
49183A-1351	13	155	160	140
49183A-1452	14	155	160	140
49183A-1755	17	200	260	230
49183A-1957	19	200	260	230
49183A-2250	22	220	340	300
49183A-2452	24	220	340	300
49183A-2755	27	245	560	500
49183A-3048	30	280	840	750
49183A-3250	32	280	840	750
49183A-3654	36	290	1180	1050
49183A-4149	41	295	1230	1100
49183A-4654	46	360	2060	1850
49183A-5048	50	360	2230	2000
49183A-5553	55	440	2900	2600
49183A-6048	60	440	2900	2600



C

HAMMERS



49184 Hammer, Bricklayers ’



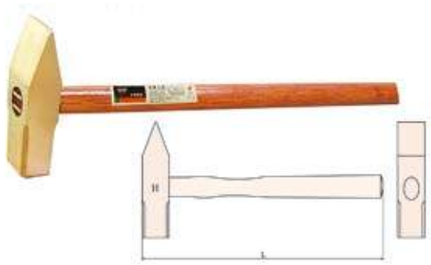
Number	H g	L mm	g
49184-100250	600	305	750

49185 Hammer, Claw



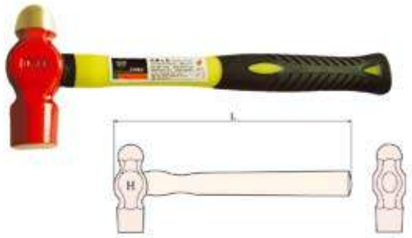
Number	H g	L mm	g
49185-100250	230	280	405
49185-100452	450	300	652
49185-100654	680	330	953
49185-100856	910	390	1205

49186 Hammer, Cross Pein Engineers '



Number	H g	L mm	g
49186-100250	500	310	655
49186-100452	1000	340	1175
49186-100654	1500	400	1850
49186-100856	2000	450	2455
49186-101048	5000	900	6005

49187 Hammer Ball Pein



Number	H g	L mm	g
49187-100250	230	280	403
49187-100452	340	280	502
49187-100654	450	310	680
49187-100856	680	340	950
49187-101048	910	350	1205
49187-101250	1130	400	1470

49188 Hammer, Cutoff



Number	H g	L mm	g
49188-100250	450	310	650

49189 Hammer, Pein



Number	H g	L mm	g
49189-100250	250	330	461
49189-100452	300	330	570

49190 Hammer, Scaling



Number	H g	L mm	g
49190-100250	150	330	205
49190-100452	300	350	370

49191 Hammer, Sledge

Number	H g	L mm	g
49191-100250	450	310	610
49191-100452	1000	400	1300
49191-100654	1400	400	1700
49191-100856	1500	400	1800
49191-101048	1800	400	2100
49191-101250	2000	400	2300
49191-101452	2200	400	2500
49191-101654	2500	900	3410
49191-101856	2700	900	3610
49191-102048	3000	900	3910
49191-102250	3600	900	4510
49191-102452	4000	900	4910
49191-102654	4500	900	5410
49191-102856	5000	900	5910
49191-103048	5400	900	6310
49191-103250	6400	900	7310
49191-103452	7200	900	8110
49191-103654	8000	900	8910
49191-103856	8200	900	9110
49191-104048	9100	900	10010
49191-104250	9900	900	10810

49191A Hammer, Sledge



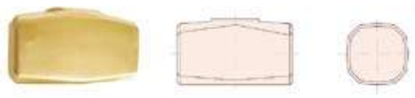
Number	H g	L mm	g
49191A-100250	450	310	450
49191A-100452	1000	400	1000
49191A-100654	1400	400	1400
49191A-100856	1500	400	1500
49191A-101048	1800	400	1800
49191A-101250	2000	400	2000
49191A-101452	2200	400	2200
49191A-101654	2500	900	2500
49191A-101856	2700	900	2700
49191A-102048	300	900	3000
49191A-102250	3600	900	3600
49191A-102452	4000	900	4000
49191A-102654	4500	900	4500
49191A-102856	5000	900	5000
49191A-103048	5400	900	5400
49191A-103250	6400	900	6400
49191A-103452	7200	900	7200
49191A-103654	8000	900	8000
49191A-103856	8200	900	8200
49191A-104048	9100	900	9100
49191A-104250	9900	900	9900

49191B Hammer, Sledge (German Type)



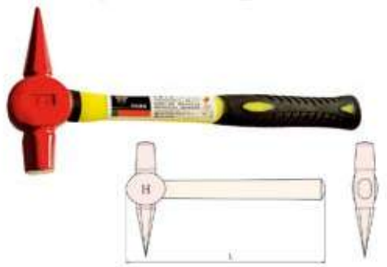
Number	H mm	L mm	g
49191B-100250	500	350	650
49191B-100452	1000	400	1300
49191B-100654	1500	400	1800
49191B-100856	2000	400	2300
49191B-101048	4000	900	4900
49191B-101250	5000	900	5900

49191C Club Hammer



Number	H lb	g
49191C-100250	2	910
49191C-100452	4	1800

49192 Hammer, Testing



Number	H g	L mm	g
49192-100250	150	300	206
49192-100452	250	335	345

49193 Hammer, Plumb



Number	H mm	Ø mm	Be-Cu g	Al-Cu g
49193-100250	59	50	275	247

49194 Pick Railroad



Number	L mm	H mm	B mm	Be-Cu g	Al-Cu g
49194-100250	1050	360	53	1200	1075
49194-100452	1050	385	55	1885	1690
49194-100654	1050	410	56	1885	1690
49194-100856	1050	470	56	2685	2420

49195 Axe Fireman



Number	L mm	H mm	B mm	Be-Cu g	Al-Cu g
49195-100250	340	200	98	1425	1300

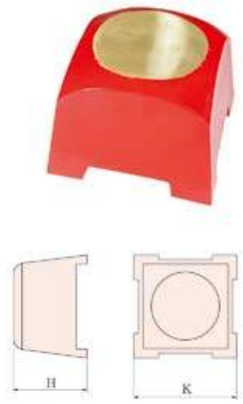
49196 Axe





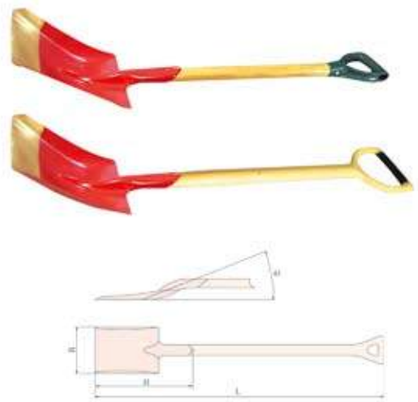
Number	L mm	H mm	B mm	Be-Cu g	Al-Cu g
49196-100250	340	145	82	980	890

49197 Anvil Block



Number	Size g	H mm	K mm
49197-100250	3000	63	92
49197-100452	5000	75	111
49197-100654	16000	114	160

49198 Shovel, Square



Number	L mm	B mm	H mm	Be-Cu g	Al-Cu g
49198-100250	940	175	340	1410	1290
49198-100452	990	240	418	1804	1650

49199 Dust Pan



Number	L mm	B mm	H mm	Be-Cu g	Al-Cu g
49199-100250	990	270	520	2330	2130

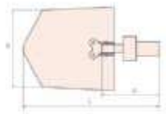
50200 Shovel, Round Point



Number	L mm	B mm	H mm	Be-Cu g	Al-Cu g
50200-100250	990	240	420	1553	1420

50201 Folding Spade

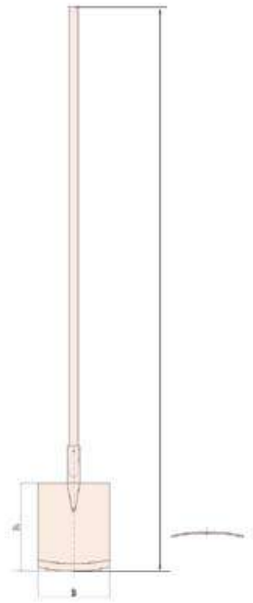




Number	L mm	B mm	H mm	Be-Cu g	Al-Cu g
49193-100250	320	180	130	1427	1305

50201A Edging Spade





Number	H mm	B mm	H_1 mm	Be-Cu g	Al-Cu g
50201A-100250	1390	175	290	3500	3200
50201A-100452	1440	195	340	3700	3480



D

KINIVES, CHISELS & BARS

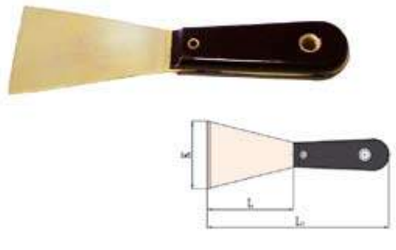


50202 Knife, Common



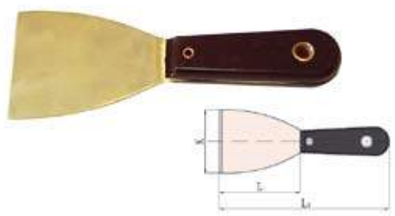
Number	L mm	L_1 mm	Be-Cu g	Al-Cu g
50202-100250	145	250	95	125

50203 Knife, Putty



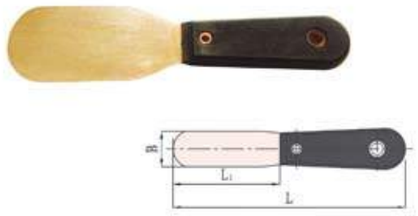
Number	K mm	L mm	L_1 mm	Be-Cu g	Al-Cu g
50203-100250	25	95	200	75	90
50203-100452	40	95	200	95	115
50203-100654	50	95	200	105	120
50203-100856	65	95	200	115	125

50204 Knife, Putty



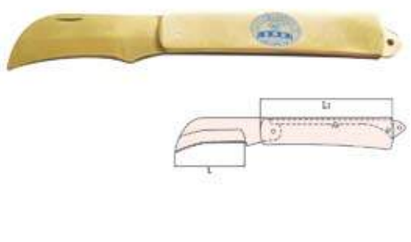
Number	K mm	L mm	L_1 mm	Be-Cu g	Al-Cu g
50204-100250	75	95	200	100	165
50204-100452	100	95	200	105	195
50204-100654	150	145	250	215	310

50204A Spatula



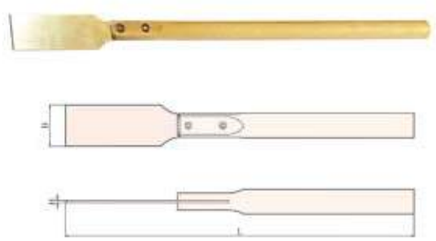
Number	B mm	L mm	L_1 mm	Be-Cu g	Al-Cu g
50204A-100250	30	195	90	85	80
50204A-100452	50	210	105	115	110
50204A-100654	90	225	120	160	145

50204B Electrician Knife



Number	L mm	L_1 mm	Be-Cu g	Al-Cu g
50204B-100250	145	250	95	125

50205 Scraper



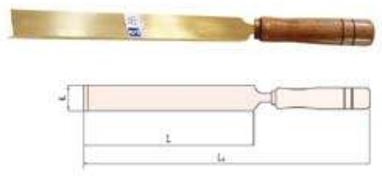
Number	L mm	B mm	H mm	Be-Cu g	Al-Cu g
50205-100250	902	50	2	683	625

50205A Scraper



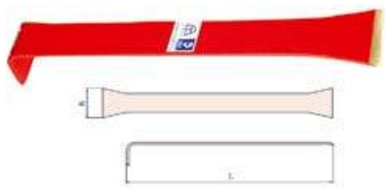
Number	L mm	B mm	H mm	Be-Cu g	Al-Cu g
50205A-100250	902	50	2	683	625

50206 Scraper, Flat



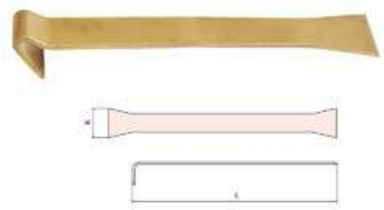
Number	L mm	K mm	L_1 mm	Be-Cu g	Al-Cu g
50206-100250	200	30	345	330	300
50206-100452	300	30	445	480	440
50206-100654	350	35	500	640	580
50206-100856	350	50	500	1020	910
50206-101048	400	60	560	1520	1330

50207 Scraper, Deck



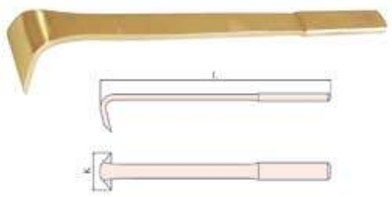
Number	L mm	K mm	Be-Cu g	Al-Cu g
50207-100250	250	39	400	365
50207-100452	300	45	450	412
50207-100654	350	55	555	507
50207-100856	400	50	725	664
50207-101048	650	56	1405	1285
50207-101250	750	58	1655	1514

50208 Scraper, Deck



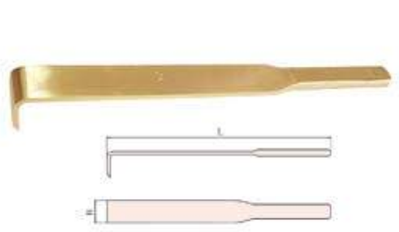
Number	L mm	B mm	Be-Cu g	Al-Cu g
50208-100250	270	40	371	338

50209 Scraper, Deck



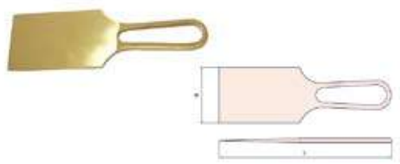
Number	L mm	K mm	Be-Cu g	Al-Cu g
50209-100250	300	48	432	391

50210 Scraper, Deck



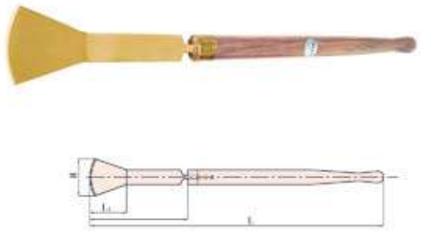
Number	L mm	B mm	Be-Cu g	Al-Cu g
50210-100250	380	38	821	720

50211 Scraper, Spray Booth



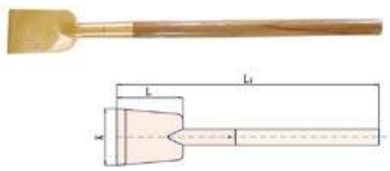
Number	L mm	B mm	Be-Cu g	Al-Cu g
50211-100250	235	76	392	358

50212B Scraper, Rust



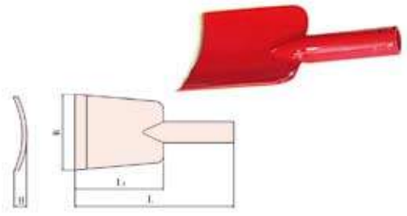
Number	L mm	B mm	L_1 mm	Be-Cu g	Al-Cu g
50212B-100250	600	75	75	700	620

50212 Scraper



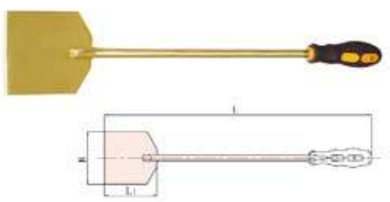
Number	K mm	L_1 mm	L mm	H mm	Be-Cu g	Al-Cu g
50212-100250	50	695	98	5	902	854
50212-100452	75	710	117	5.5	1125	1059
50212-100654	100	710	117	6	1215	1143
50212-100856	150	750	150	7	2122	1972

50213 Scraper, Arched



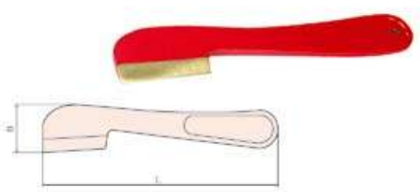
Number	K mm	L mm	L_1 mm	H mm	Be-Cu g	Al-Cu g
50203-100250	50	190	120	10	411	376
50203-100452	100	210	120	19	655	600
50203-100856	150	220	120	34	865	792

50212A Scraper, Hand Style



Number	L mm	B mm	L_1 mm	Be-Cu g	Al-Cu g
50212A-100250	480	95	95	700	620

50214 Opener Carbide Drum



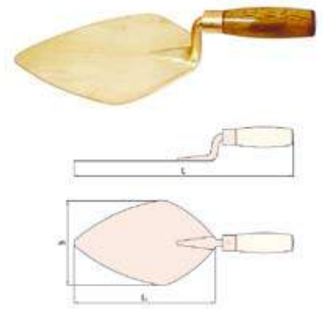
Number	B mm	L mm	Be-Cu g	Al-Cu g
50214-100250	280	53	655	595

50215 Scraper Tile Cleaver



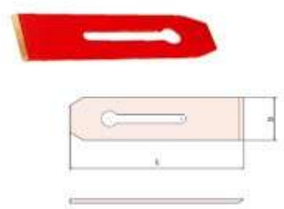
Number	L mm	L_1 mm	B mm	Be-Cu g	Al-Cu g
50215-100250	180	350	55	552	485

50215A Trowel Bricklayer's



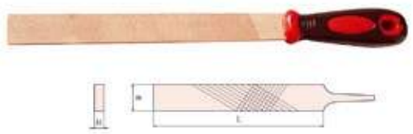
Number	L mm	B mm	L_1 mm	Be-Cu g	Al-Cu g
50215A-100250	335	130	215	700	620

50216 Plane's Blade



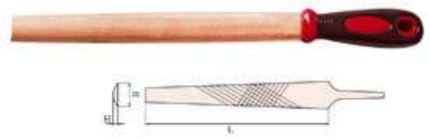
Number	B mm	L mm	Be-Cu g
50216-100250	43	175	130

50217 File, Flat



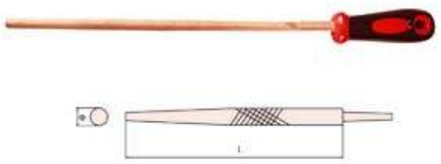
Number	L inch	L mm	B mm	H mm	Be-Cu g
50217-100250	6	150	16	4	75
50217-100452	8	200	21	4.5	160
50217-100654	10	250	25	6	282
50217-100856	12	300	30	6.5	455
50217-101048	14	350	32	8	675
50217-101250	16	400	32	9.5	925

50218 File, Half Round



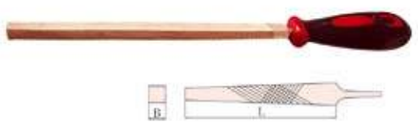
Number	L inch	L mm	B mm	H mm	Be-Cu g
50218-100250	6	150	22	6	105
50218-100452	8	200	23	7	190
50218-100654	10	250	26	8	255
50218-100856	12	300	28	9	375
50218-101048	14	350	30	10	565

50219 File, Round



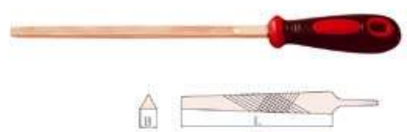
Number	L inch	L mm	Be-Cu g	Al-Cu g
50219-100250	6	150	6.5	45
50219-100452	8	2++	7.5	91
50219-100654	10	250	8.5	122
50219-100856	12	300	9.5	180
50219-101048	14	350	10.5	250

50220 File, Square



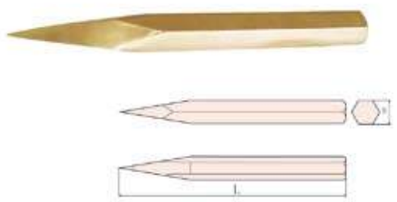
Number	L inch	L mm	B mm	Be-Cu g
50220-100250	8	200	8	130
50220-100452	10	250	10	155
50220-100654	12	300	11	202
50220-100856	14	350	12	303

50221 File, Triangle



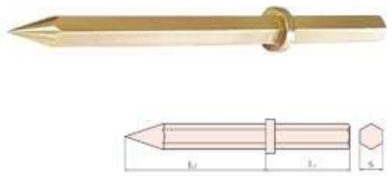
Number	L inch	L mm	B mm	Be-Cu g
50221-100250	8	200	12	115
50221-100452	10	250	13	125
50221-100654	12	300	14	160
50221-100856	14	350	14	205

50222 Punch, Machinists '



Number	S mm	L mm	Be-Cu g	Al-Cu g
50222-100250	14	150	165	151
50222-100452	18	200	385	352
50222-100654	20	250	603	552
50222-100856	20	300	715	654

50223 Chisel, Pneumatic Bull Point

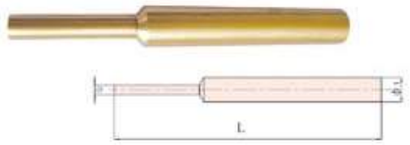


Number	S mm	L_1 mm	L_2 mm	Be-Cu g	Al-Cu g
50223-100250	28	150	350	3380	3050

50223A Punch, Machinists '

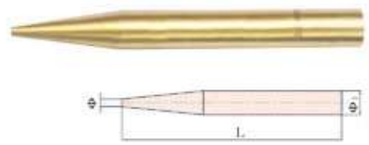
Number	Ø mm	L mm	Be-Cu g	Al-Cu g
50223A-100250	5	150	235	215
50223A-100452	8	150	285	255
50223A-100654	10	150	345	315

50223B Drift Cylindrical



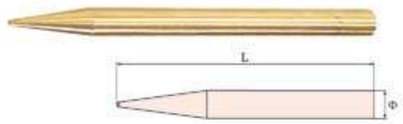
Number	Ø mm	$Ø_1$ mm	L mm	Be-Cu g	Al-Cu g
50223B-100351	3	9	110	20	15
50223B-100452	4	10	110	57	50
50223B-100654	6	12	115	105	95
50223B-100856	8	14	120	130	115
50223B-101048	10	16	145	200	180
50223B-101250	12	18	160	280	260
50223B-101452	14	20	180	410	380
50223B-101654	16	24	200	640	600
50223B-101856	18	30	225	1070	960
50223B-102048	20	32	225	1230	1110

50223C Punch



Number	Ø mm	$Ø_1$ mm	L mm	Be-Cu g	Al-Cu g
50223C-100553	5	11	150	105	95
50223C-100654	6	12	150	130	115
50223C-100755	7	13	150	150	135
50223C-100856	8	14	150	170	150
50223C-101048	10	16	175	255	230
50223C-101250	12	18	175	335	300
50223C-101351	13	29	255	1180	1060

50223D Punch, Machinists '



Number	L mm	Ø mm	Be-Cu g	Al-Cu g
50223D-100250	160	18	290	265
50223D-100452	250	18	470	425
50223D-100654	300	18	600	545
50223D-100856	300	20	700	635
50223D-101048	300	25	1100	995
50223D-101250	400	18	800	725
50223D-101351	400	20	1000	885

50223E Drift Pin, Barrel Straight



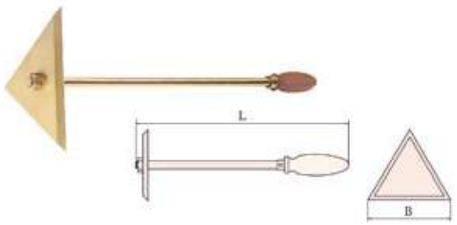
Number	L mm	Ø mm	Be-Cu g	Al-Cu g
50223E-100856	150	8	125	118
50223E-101048	150	10	155	140
50223E-101250	150	12	215	190
50223E-101452	200	14	420	380
50223E-101553	200	15	435	390
50223E-101654	200	16	480	435
50223E-101755	200	17	570	540
50223E-101856	250	18	600	560
50223E-101957	250	19	860	780
50223E-102048	250	20	875	790
50223E-102149	250	21	950	885
50223E-102250	250	22	965	920
50223E-102452	250	24	1270	1150
50223E-102553	250	25	1300	1170
50223E-102654	250	26	1390	1250
50223E-102755	300	27	1900	1770

50224 Scraper, Triangular



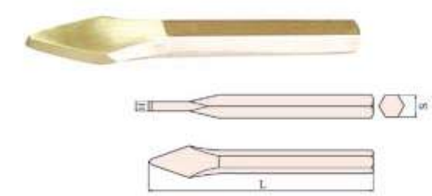
Number	L mm	L_1 mm	K mm	Be-Cu g	Al-Cu g
50224-100250	160	300	22	245	225
50224-100452	300	400	26	645	590

50224A Scraper Plate



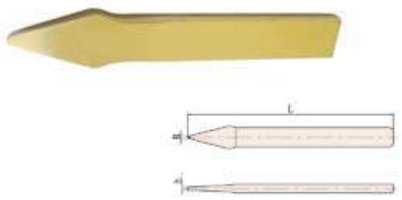
Number	L mm	B mm	Be-Cu g	Al-Cu g
50224A-100250	470	150	1010	905

50225 Chisel, Cross



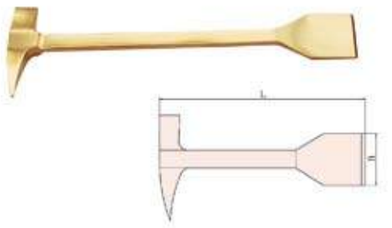
Number	S mm	L mm	H mm	Be-Cu g	Al-Cu g
50225-100250	20	200	8	475	432

50225A Chisel, Cross Cutting



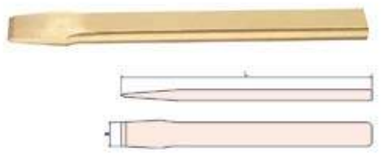
Number	L mm	B mm	h mm	Be-Cu g	Al-Cu g
50225A-100250	140	4	4	280	255
50225A-100452	200	4	4	480	435
50225A-100654	300	5	5	840	760

50225B Scraper Pick And Scaler



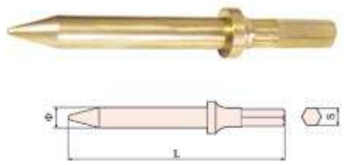
Number	L mm	B mm	Be-Cu g	Al-Cu g
50225B-100250	450	75	1285	1155

50225C Chisel, Flat



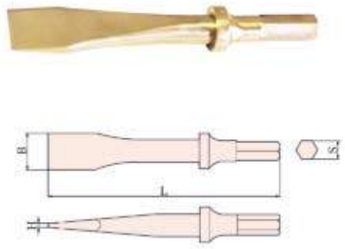
Number	B mm	L mm	Be-Cu g	Al-Cu g
50225C-100250	22	150	235	205
50225C-100452	22	200	320	280
50225C-100654	24	250	490	440
50225C-100856	25	300	770	700
50225C-101048	27	400	1220	1100

50226 Chisel, Pneumatic



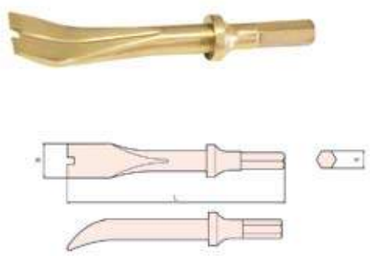
Number	S mm	L mm	Ø mm	Be-Cu g	Al-Cu g
50226-100250	10	125	12	117	102
50226-100452	10	175	12	168	143

50227 Chisel, Pneumatic



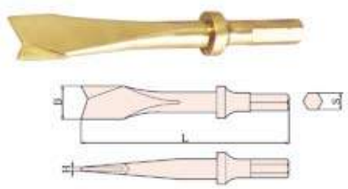
Number	S mm	L mm	B mm	H mm	Be-Cu g	Al-Cu g
50227-100250	10	125	20	2	160	141
50227-100452	10	175	20	2	210	182

50228 Chisel, Pneumatic



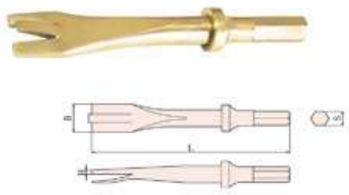
Number	S mm	L mm	B mm	Be-Cu g	Al-Cu g
50228-100250	10	125	20	152	117
50228-100452	10	175	20	190	122

50229 Chisel, Pneumatic



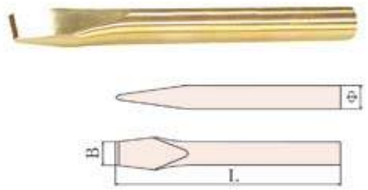
Number	S mm	L mm	H mm	B mm	Be-Cu g	Al-Cu g
50229-100250	10	125	2	20	162	142
50229-100452	10	175	2	20	213	183

50230 Chisel, Pneumatic



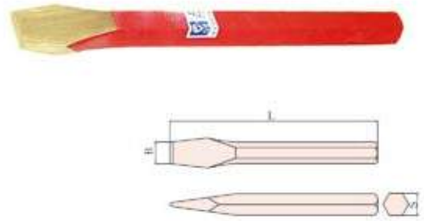
Number	S mm	L mm	B mm	H mm	Be-Cu g	Al-Cu g
50230-100250	10	125	20	2	127	112
50230-100452	10	175	20	2	178	153

50231 Chisel, Flat



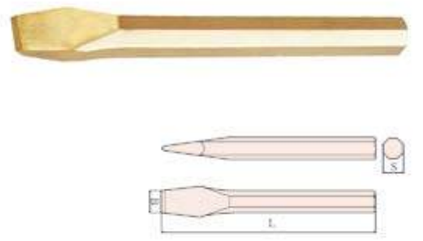
Number	L mm	Ø mm	B mm	Be-Cu g	Al-Cu g
50231-100250	160	14	14	175	160
50231-100452	160	16	16	231	210
50231-100654	160	18	18	295	271
50231-100856	200	18	18	382	342
50231-101048	200	20	20	473	430
50231-101250	250	24	24	822	751
50231-101452	300	24	24	1025	942
50231-101654	300	25	25	1302	1002
50231-101856	400	25	25	1502	1360
50231-102048	500	25	25	1903	1730
50231-102250	500	30	30	2730	2481

50232 Chisel Hex/6 Point



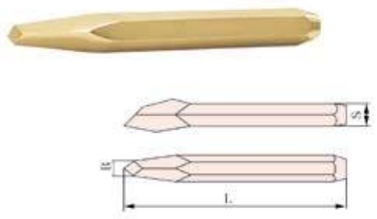
Number	S mm	L mm	B mm	Be-Cu g	Al-Cu g
50232-101048	10	150	12	98	92
50232-101250	14	200	16	251	231
50232-101452	16	160	18	262	242
50232-101654	14	250	16	320	302
50232-101856	17	300	19	772	701
50232-102048	17	350	19	903	821
50232-102250	22	600	24	1861	1702
50232-102452	25	300	28	1204	1090
50232-102654	30	500	35	2860	2620

50233 Chisel 8 Point



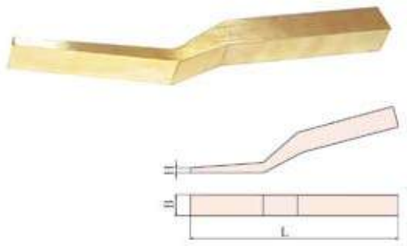
Number	L mm	S mm	B mm	Be-Cu g	Al-Cu g
50233-101250	160	14	14	186	170
50233-101452	160	16	16	255	230
50233-101654	180	19	19	402	366
50233-101856	200	19	19	451	411
50233-102048	200	22	22	650	562
50233-102250	250	24	24	880	792
50233-102452	300	24	24	1052	950
50233-102654	300	30	30	1603	1450
50233-102856	400	27	27	1780	1620

50233A Chisel, Diamond Point



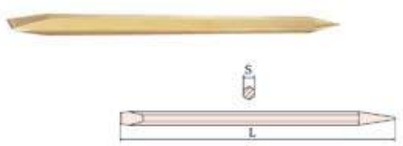
Number	S mm	L mm	B mm	Be-Cu g	Al-Cu g
50233A-100250	20	200	13	580	525

50234 Caulking Tool



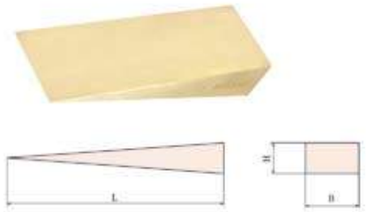
Number	L mm	B mm	H mm	Be-Cu g	Al-Cu g
50234-100250	200	20	5	495	455
50234-100452	250	20	8	652	585

50234A Caulking Tool



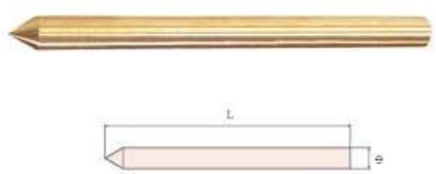
Number	S mm	L mm	Be-Cu g	Al-Cu g
50234A-100250	50	1200	1845	16850

50235 Wedge, Flange



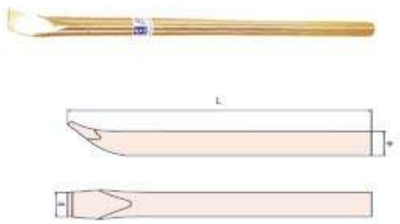
Number	L mm	B mm	H mm	Be-Cu g	Al-Cu g
50235-100250	80	13	6	25	23
50235-100452	100	50	10	201	185
50235-100654	135	50	18	497	455
50235-100856	150	40	8	200	180
50235-101048	150	25	8	122	112
50235-101250	150	25	13	205	185
50235-101452	150	50	13	400	365
50235-101654	180	32	13	305	280
50235-101856	180	50	19	700	640
50235-102048	200	20	30	490	451
50235-102250	200	30	30	740	675
50235-102452	200	40	40	1315	1200
50235-102654	200	50	12	500	450
50235-102856	230	40	20	751	690
50235-103048	250	40	30	1230	1125
50235-103250	300	50	40	2460	2250

50236 Punch, Center



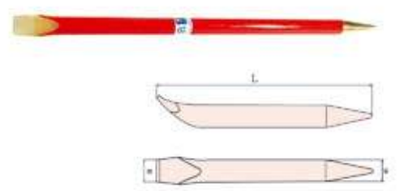
Number	L mm	Ø mm	Be-Cu g	Al-Cu g
50236-100250	100	16	145	125
50236-100452	150	16	230	205
50236-100654	200	18	392	340
50236-100856	300	18	615	540
50236-101048	400	18	820	740
50236-101250	500	20	1230	1102
50236-101452	500	30	2740	2480

50237 Bar



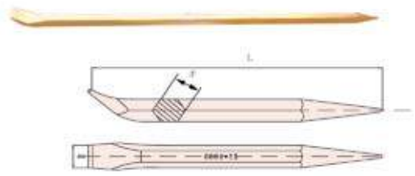
Number	L mm	Ø mm	B mm	Be-Cu g	Al-Cu g
50237-100250	500	15	15	738	675
50237-100452	500	19	19	1150	1050
50237-100654	500	20	20	1295	1185
50237-100856	500	25	25	1975	1805
50237-101048	500	30	30	2925	2675
50237-101250	600	25	25	2380	2175
50237-101452	600	30	30	3450	3155
50237-101654	800	23	23	2290	2095
50237-101856	800	25	25	3175	2905
50237-102048	800	30	30	4490	4105
50237-102250	850	30	30	4870	4455
50237-102452	1000	25	25	3985	3645
50237-102654	1000	28	28	4710	4305
50237-102856	1000	30	30	5595	5115
50237-103048	1200	25	25	4795	4385
50237-103250	1200	30	30	6970	6375
50237-103452	1500	30	30	8665	7925

50237A Bar, Pinch



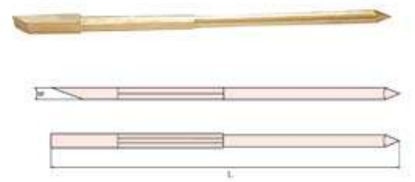
Number	L mm	Ø mm	B mm	Be-Cu g	Al-Cu g
50237A-100250	500	15	16	672	615
50237A-100452	500	19	20	1093	1001
50237A-100654	500	20	20	1148	1052
50237A-100856	500	23	23	1481	1355
50237A-101048	600	25	25	2132	1950
50237A-101250	800	23	23	2530	2293
50237A-101452	1000	30	28	5193	4752

50237B Bar (Hex) Pinch



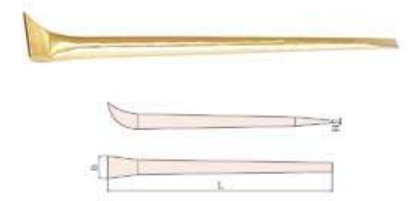
Number	L mm	S mm	B mm	Be-Cu g	Al-Cu g
50237B-100250	500	18	20	1200	1090
50237B-100452	500	20	22	1450	1320
50237B-100654	600	20	22	1750	1600
50237B-100856	1000	22	24	3500	3200
50237B-101048	1000	25	27	4500	4080
50237B-101250	1500	25	27	6750	6120
50237B-101452	1000	35	37	8800	8000

50237C Bar Crow



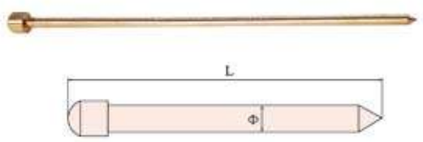
Number	L mm	B mm	Be-Cu g	Al-Cu g
50237C-100250	1500	30	8910	8110

50237D Bar, Pinch



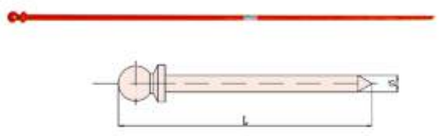
Number	L mm	H mm	B mm	Be-Cu g	Al-Cu g
50237D-100250	600	3	52	2435	2221

50238 Hearing Needle



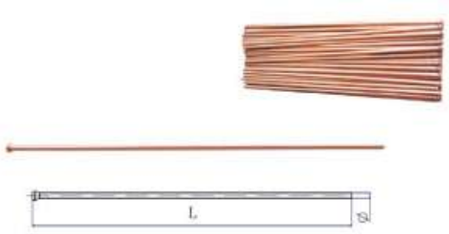
Number	L mm	Ø mm	Be-Cu g	Al-Cu g
50238-100250	250	6	85	75
50238-100452	300	8	150	135
50238-100654	400	7	160	145
50238-100856	500	10	335	305

50238A Hearing Needle With Ball



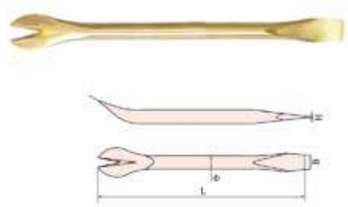
Number	L mm	Ø mm	Be-Cu g	Al-Cu g
50238A-100250	500	6	130	115

50238B Needle



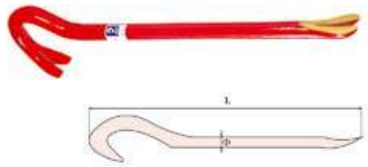
Number	L mm	Ø mm	Be-Cu g
50238B-100250	180	3	12

50239 Bar, Wrecking



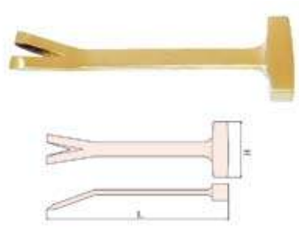
Number	L mm	Ø mm	B mm	H mm	Be-Cu g	Al-Cu g
50239-100250	250	13	15	1.5	235	215

50240 Bar, Wrecking



Number	L mm	Ø mm	Be-Cu g	Al-Cu g
50240-100250	400	16	752	685
50240-100452	600	16	1102	1002
50240-100654	800	19	2200	2011
50240-100856	1200	20	3570	3266

50241 Crate Opener

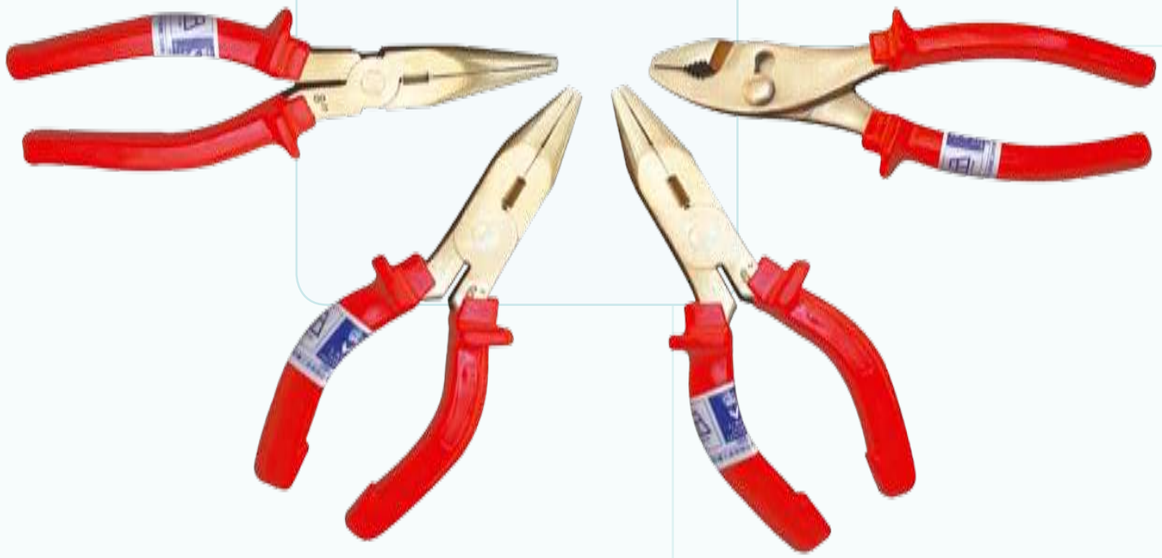


Number	L mm	H mm	Be-Cu g	Al-Cu g
50241-100250	230	70	471	430

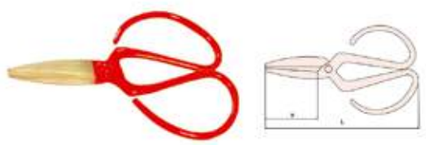


E

SHEARS & PLIERS

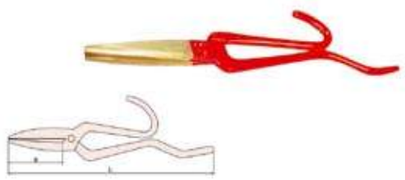


50242 Shears, Cutting



Number	L mm	B mm	Be-Cu g	Al-Cu g
50238-100250	150	61	90	82

50243 Shears, Cutting



Number	L mm	B mm	Be-Cu g	Al-Cu g
50243-100250	290	91	235	215
50243-100452	360	107	900	823

50244 Shears, Tin



Number	L mm	B mm	Be-Cu g	Al-Cu g
50244-100250	300	75	488	410

50244A Scissors



Number	L inch	L mm	B mm	Be-Cu g	Al-Cu g
50244A-100250	9	225	98	245	210

50245 Pliers, Adjustable Combination



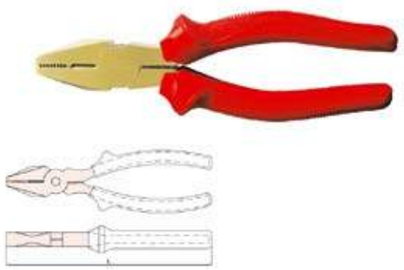
Number	L inch	L mm	K mm	Be-Cu g	Al-Cu g
50245-100250	6	152	8	213	195
50245-100452	8	203	13	323	295

50246 Pliers, Lineman



Number	L inch	L mm	Be-Cu g	Al-Cu g
50246-100250	6	150	180	165
50246-100452	7	175	306	280
50246-100654	8	200	405	370
50246-100856	10	250	502	460

50247 Pliers, Cutting



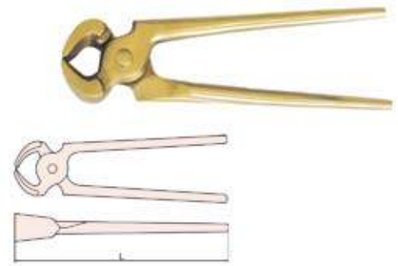
Number	L mm	L mm	Be-Cu g	Al-Cu g
50247-100250	8	200	470	420

50248 Pliers, Diagonal Cutting



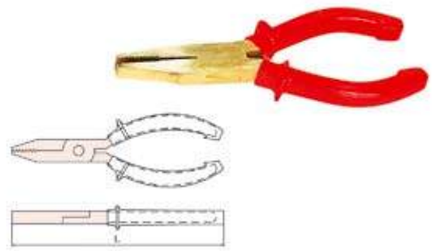
Number	L inch	L mm	Be-Cu g	Al-Cu g
50248-100250	6	150	205	188
50248-100452	8	200	310	284

50249 Pincers



Number	L inch	L mm	Be-Cu g	Al-Cu g
50249-100250	8	190	325	300

50250 Pliers, Flat Nose



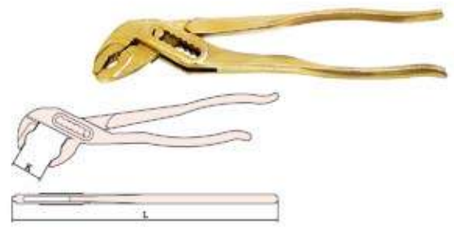
Number	L inch	L mm	Be-Cu g	Al-Cu g
50250-100250	6	150	165	151
50250-100452	8	200	281	257

50251 Pliers, Groove Joint



Number	L inch	L mm	K_{max} mm	Be-Cu g	Al-Cu g
50251-100250	6	150	25	150	137
50251-100452	10	250	45	453	414
50251-100654	12	300	55	745	700
50251-100856	14	360	55	790	723

50252 Pliers, Slip Joint



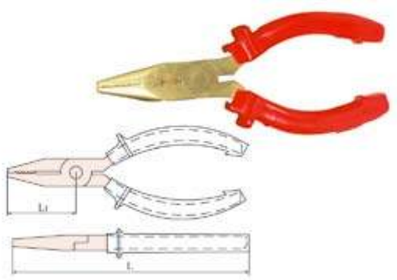
Number	L inch	L mm	K_{max} mm	Be-Cu g	Al-Cu g
50252-100250	10	250	32	365	335

50252A Pliers, Water Pump



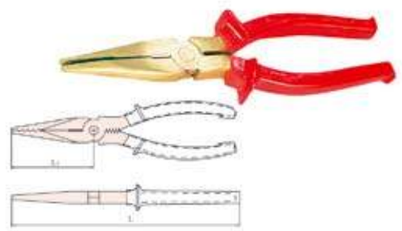
Number	L inch	L mm	K_{max} mm	Be-Cu g	Al-Cu g
50252A-100250	10	250	32	325	310
50252A-100452	12	300	52	665	610

50253 Pliers, Snipe Nose



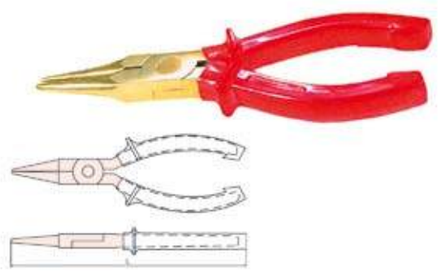
Number	L inch	L mm	L_1 mm	Be-Cu g	Al-Cu g
50253-100250	6	150	54	165	151
50253-100452	8	200	74	305	280

50254 Pliers, Long Nose



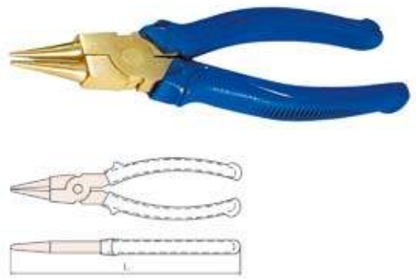
Number	L inch	L mm	L_1 mm	Be-Cu g	Al-Cu g
50254-100250	6	150	54	165	151
50254-100452	8	200	74	305	280

50255 Pliers, Round Nose



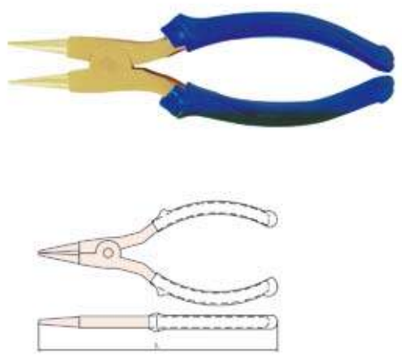
Number	L inch	L mm	Be-Cu g	Al-Cu g
50255-100250	6	150	145	133

50256 Pliers, Snap Ring-Internal



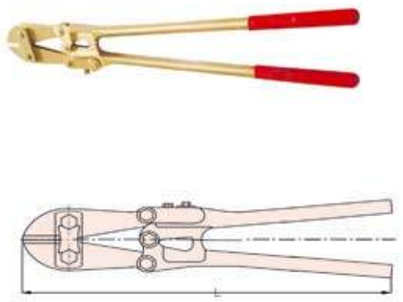
Number	L inch	L mm	Be-Cu g	Al-Cu g
50256-100250	8	200	280	256
50256-100452	10	250	415	380

50257 Pliers, Snap Ring-External



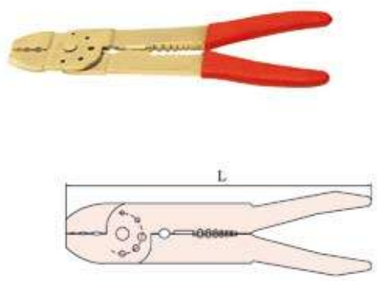
Number	L inch	L mm	Be-Cu g	Al-Cu g
50257-100250	8	200	290	265
50257-100452	10	250	415	380

50257A Bolt Chipper



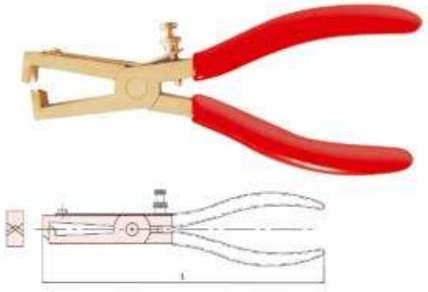
Number	L mm	Be-Cu g	Al-Cu g
50257A-100250	600	3350	3070

50257B Crimping Tool, Insulated Cable Connectors



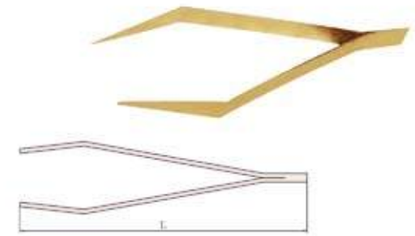
Number	L inch	L mm	Be-Cu g	Al-Cu g
50257B-100250	8	200	225	205

50257C Wire Stripping Pliers



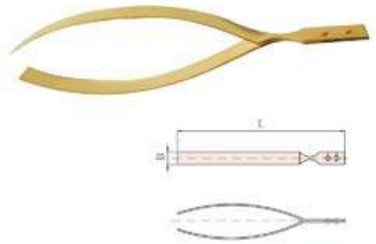
Number	L mm	Be-Cu g	Al-Cu g
50257C-100250	170	225	205

50258 Tweezers, Neat Tips



Number	L mm	Al-Cu g	Be-Cu g
50258-100250	150	30	25
50258-100452	200	50	40

50258A Tweezers, Flat Nose



Number	L mm	B mm	Be-Cu g	Al-Cu g
50258A-100250	100	8	30	25
50258A-100452	200	15	65	55

INTRODUCTION OF NEW PRODUCTS

Plier, Water Pump



1. Specjal groove type design, hand can't be hurt from the handles.
2. The mouth can automatically clamp pipe or nut without slippery.

Crimping Tool, Insulated Cable Connectors



1. The tool can peel or cut wire.
2. The tool with plastic cover on handle is more comfortable.
3. The shape of tool is light and handy, easy to carry.

Bolt Chipper



The long handle with plastic cover on the end is more laborsaving and comfortable.

Wire Stripping Pliers



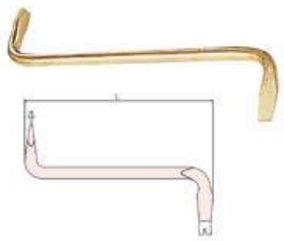
1. Adjustable spring sheet on fank is conve - nient to use.
2. Sharp mouth of pliers is laborsaving and speedy to strip wires.



SCREWDRIVERS

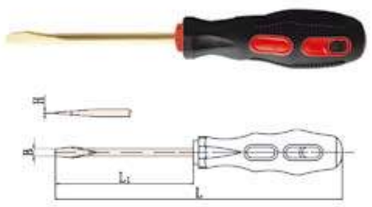


50259 Screwdriver, Offset



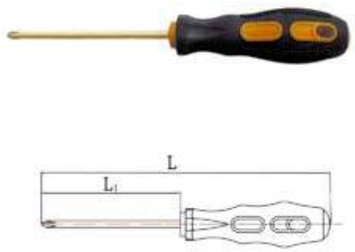
Number	L mm	H mm	K mm	Be-Cu g	Al-Cu g
49181-1755	72	1	6	25	23
49181-1957	125	1.5	8	55	50
49181-2250	196	1.5	10	135	124

50260 Screwdriver (Standard Type)



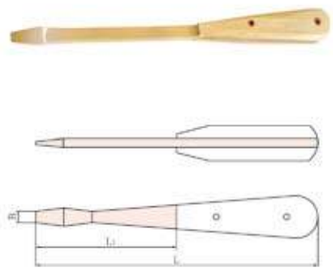
Number	L_1 inch	L_1 mm	L mm	H mm	B mm	Be-Cu g	Al-Cu g
50260-100250	2	50	132	0.4	3	35	33
50260-100452	2	50	132	0.5	4.5	43	40
50260-100654	3	75	157	0.4	3	35	32
50260-100856	3	75	157	0.5	4	45	42
50260-101048	3	75	178	0.6	5	70	65
50260-101250	4	100	182	0.5	4	45	42
50260-101452	4	100	203	0.6	5	75	70
50260-101654	4	100	203	0.8	6	85	80
50260-101856	5	125	237	0.8	6	100	95
50260-102048	6	150	262	0.8	6	110	105
50260-102250	6	150	262	1	7	125	120
50260-102452	6	150	262	1.2	8	140	135
50260-102654	8	200	312	1.2	8	165	155
50260-102856	10	250	362	1.4	9	185	175
50260-103048	10	250	362	2	11	260	245
50260-103250	12	300	412	1.8	10	245	230
50260-103452	12	300	412	2	11	290	275
50260-103654	14	350	462	2	11	320	300
50260-103856	16	400	550	2.4	12	450	430
50260-104048	18	450	600	2.4	13	530	510

50261 Screwdriver (Phillips Type)



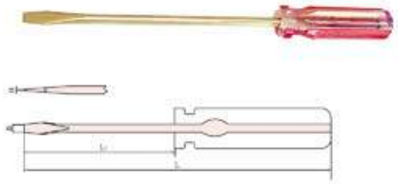
Number	L_1 inch	Size	L_1 mm	L mm	Be-Cu g	Al-Cu g
50261-100250	2	0	50	132	35	32
50261-100452	3	2	75	178	70	63
50261-100654	4	2	100	203	75	70
50261-100856	5	2	125	237	100	95
50261-101048	6	2	150	262	110	105
50261-101250	8	3	200	312	165	155
50261-101452	10	3	250	362	185	170
50261-101654	12	4	300	412	245	230
50261-101856	14	4	350	462	470	255
50261-102048	16	4	400	550	295	280
50261-102250	18	4	450	600	320	300

50262 Screwdriver



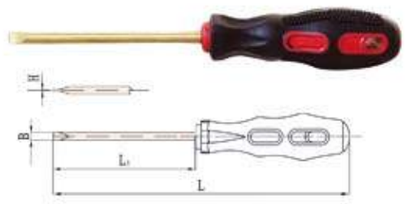
Number	L mm	L_1 mm	B mm	Be-Cu g	Al-Cu g
50262-100250	200	100	8	135	125
50262-100452	250	110	8	220	204
50262-100654	300	160	10	305	275
50262-100856	500	350	11	505	461

50263 Slotted Screwdriver



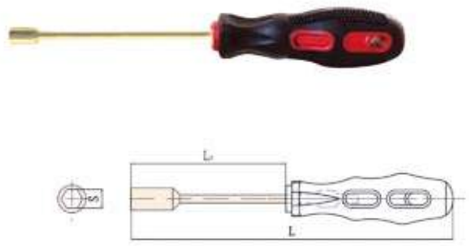
Number	L_1 inch	L_1 mm	L mm	H mm	B mm	Be-Cu g	Al-Cu g
50263-100250	2	50	108	0.4	3	35	32
50263-100452	3	75	133	0.5	3	48	44
50263-100654	3	75	153	0.5	4	50	45
50263-100856	3	75	153	0.6	5	51	46
50263-101048	4	100	178	0.5	4	60	55
50263-101250	4	100	178	0.6	5	71	65
50263-101452	4	100	193	0.8	6	77	70
50263-101654	6	150	243	1	7	115	105
50263-101856	8	200	305	1.2	8	197	180
50263-102048	10	250	355	1.4	9	221	202
50263-102250	12	300	420	1.8	10	304	278
50263-102452	14	350	470	2	11	365	335

50263A Electrician Screwdriver



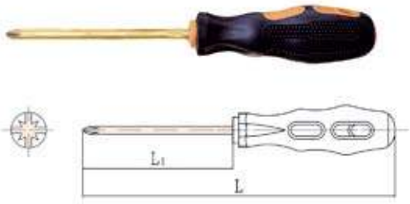
Number	L_1 inch	L_1 mm	L mm	H mm	B mm	Be-Cu g	Al-Cu g
50263A-100250	2	50	132	0.4	3	37	35
50263A-100452	4	100	182	0.5	4	47	45
50263A-100654	4	100	204	0.8	6	95	90
50263A-100856	6	150	262	1.2	8	145	135
50263A-101048	8	200	312	1.8	10	230	210

50263B Driver Hex Nut



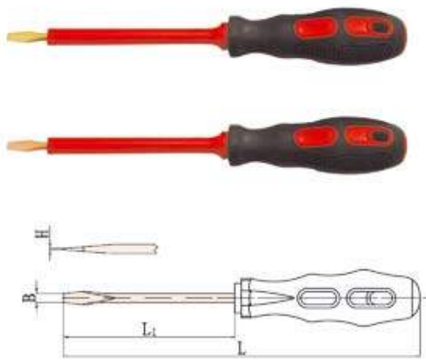
Number	L_1 mm	L mm	S mm	Be-Cu g	Al-Cu g
50263B-100250	90	190	6	85	81
50263B-100452	100	210	8	100	85
50263B-100654	110	220	10	140	130
50263B-100856	110	230	13	185	172
50263B-101048	120	240	16	220	205
50263B-101250	120	240	17	230	218

50264 Pozidriv Screwdriver



Number	L_1 inch	Size	L_1 mm	L mm	Be-Cu g	Al-Cu g
50264-100250	2	0	50	132	35	33
50264-100452	3	1	75	157	45	42
50264-100654	4	2	100	212	85	80
50264-100856	6	3	150	262	145	135
50264-101048	8	4	200	312	230	210

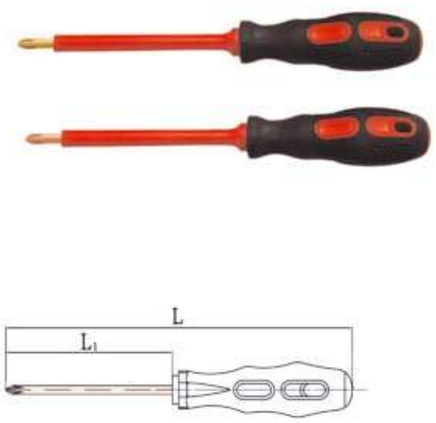
50265 Insulated Slotted Screwdriver



1. Used in disassembly or tightening electric standard type screw.
2. 1000v.

Number	L_1 inch	L_1 mm	L mm	H mm	B mm	Be-Cu g	Al-Cu g
50265-100250	2	50	132	0.4	3	35	33
50265-100452	2	50	132	0.5	4.5	43	40
50265-100654	3	75	157	0.4	3	35	32
50265-100856	3	75	157	0.5	4	45	42
50265-101048	3	75	178	0.6	5	70	65
50265-101250	4	100	182	0.5	4	45	42
50265-101452	4	100	203	0.6	5	75	70
50265-101654	4	100	203	0.8	6	85	80
50265-101856	5	125	237	0.8	6	100	95
50265-102048	6	150	262	0.8	6	110	105
50265-102250	6	150	262	1	7	125	120
50265-102452	6	150	262	1.2	8	140	135
50265-102654	8	200	312	1.2	8	165	155
50265-102856	10	250	362	1.4	9	185	175
50265-103048	10	250	362	2	11	260	245
50265-103250	12	300	412	1.8	10	245	230
50265-103452	12	300	412	2	11	290	275
50265-103654	14	350	462	2	11	320	300
50265-103856	16	400	550	2.4	12	450	430
50265-104048	18	450	600	2.4	13	530	510

50266 Insulated Phillips Screwdriver



1. Used in disassembly or tightening electric phillips type screw.
2. 1000v.

Number	L_1 inch	Size	L_1 mm	L mm	Be-Cu g	Al-Cu g
50266-100250	2	0	50	132	35	32
50266-100452	3	2	75	178	70	63
50266-100654	4	2	100	203	75	70
50266-100856	5	2	125	237	100	95
50266-101048	6	2	150	262	110	105
50266-101250	8	3	200	312	165	155
50266-101452	10	3	250	362	185	170
50266-101654	12	4	300	412	245	230
50266-101856	14	4	350	462	270	255
50266-102048	16	4	400	550	295	280
50266-102250	18	4	450	600	320	300

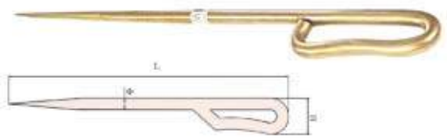




G OTHER

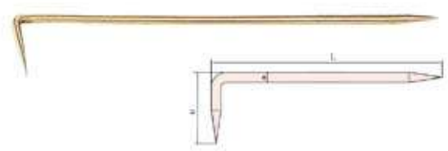


50267 Marking Tool



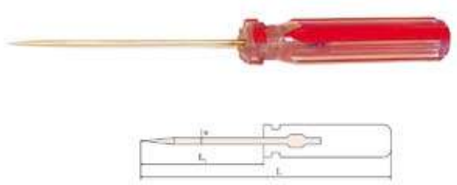
Number	L mm	H mm	Ø mm	Be-Cu g	Al-Cu g
50267-100250	400	40	12	502	445
50267-100452	600	50	16	1152	1036

50268 Marking Tool



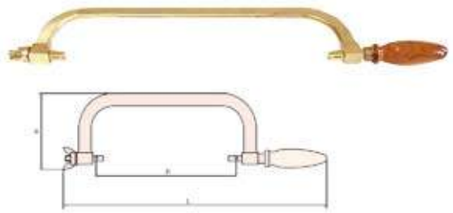
Number	L mm	H mm	Ø mm	Be-Cu g	Al-Cu g
50268-100250	187	32	4	15	10
50268-100452	252	42	4	20	15

50269 Awl



Number	L_1 inch	L_1 mm	Ø mm	L mm	Be-Cu g	Al-Cu g
50269-100250	4	100	3	200	50	45

50270 Hacksaw Frame



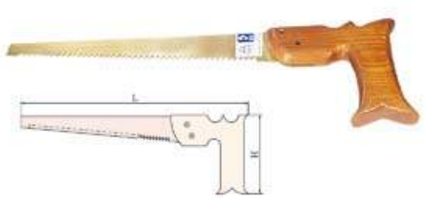
Number	L mm	D mm	H mm	Be-Cu g	Al-Cu g
50270-100250	500	300	110	645	590

50271 Hacksaw Blade



Number	L mm	B mm	Be-Cu g
50271-100250	300	12	32

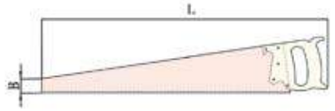
50272 Hand Saw



Number	L mm	H mm	Be-Cu g	Al-Cu g
50272-100250	370	114	125	265

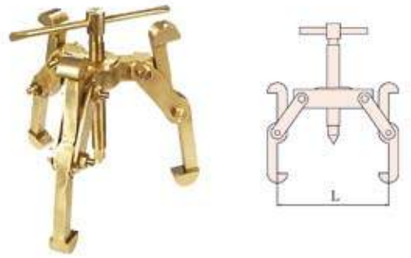
50272A Hand Saw





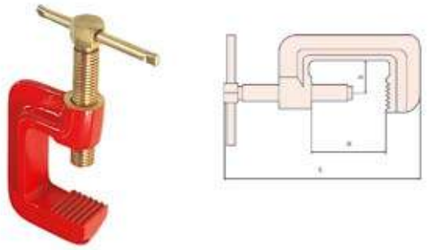
Number	L mm	B mm	Be-Cu g	Al-Cu g
50272A-100250	700	35	555	520

50273 3 Leg Gear Puller



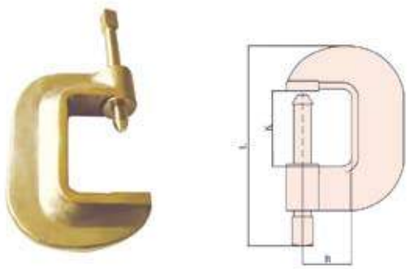
Number	L_{max} mm	Be-Cu g	Al-Cu g
50273-100250	100	3282	2991
50273-100452	150	4052	3675
50273-100654	200	5991	5432
50273-100856	350	12352	11231

50274 Clamp



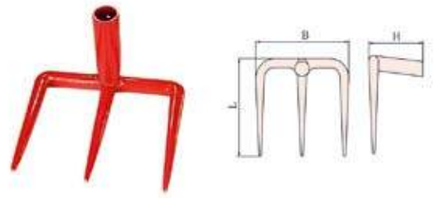
Number	L mm	H mm	h mm	Be-Cu g	Al-Cu g
50274-100250	210	60	36	1250	1152
50274-100452	250	80	36	1510	1383
50274-100654	290	100	36	1770	1615
50274-100856	340	150	50	2155	1970

50274A Clamp



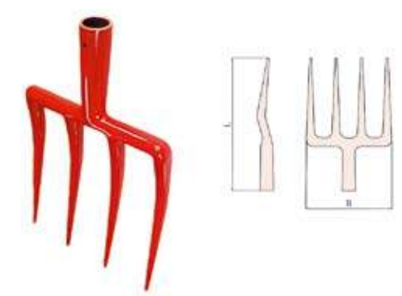
Number	L mm	B mm	K mm	Be-Cu g	Al-Cu g
50274A-101957	76	19	19	200	180
50274A-111553	290	75	115	5600	5000
50274A-116553	370	90	165	11100	10000

50275 Fork, Three Prong



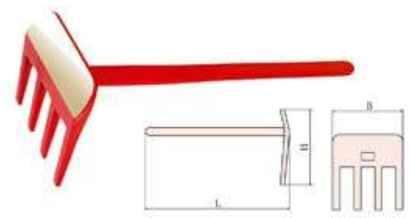
Number	L mm	B mm	H mm	Be-Cu g	Al-Cu g
50275-100250	208	200	125	1693	1542

50276 Fork, Four Prong



Number	L mm	B mm	Be-Cu g	Al-Cu g
50276-100250	327	200	2150	1965

50277 Cleaning Rust Rake



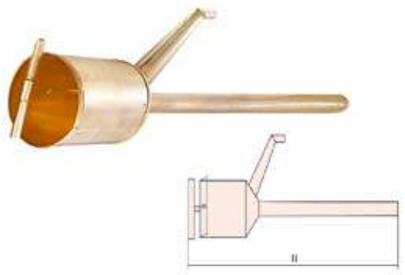
Number	L mm	H mm	B mm	Be-Cu g	Al-Cu g
50277-100250	350	105	98	985	901

50278 Oil Funnel



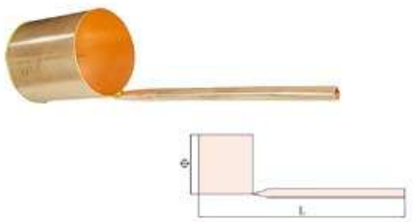
Number	Ø mm	H mm	Be-Cu g
50278-100250	160	130	245
50278-100452	160	150	247

50279 Portable Oil Pump



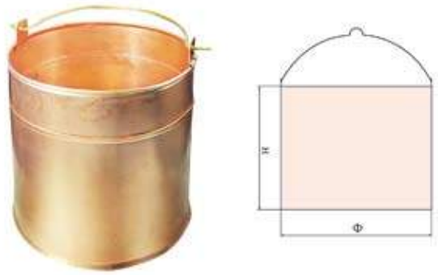
Number	Ø mm	H mm	Be-Cu g
50279-100250	165	1100	2315

50280 Oil Dipper



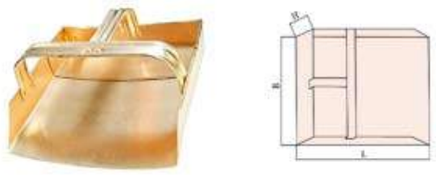
Number	Ø mm	L mm	Be-Cu g
50280-100250	85	350	163

50281 Bucket



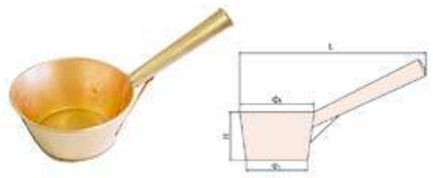
Number	Ø mm	H mm	Be-Cu g
50281-100250	270	248	1515

50282 Dustpan



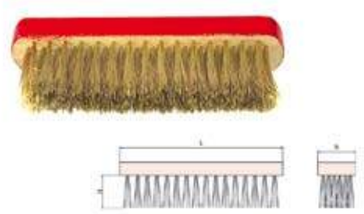
Number	L mm	B mm	H mm	Be-Cu g
50282-100250	150	130	20	130
50282-100452	200	200	50	335
50282-100654	270	250	50	635

50283 Scoop, Sugar



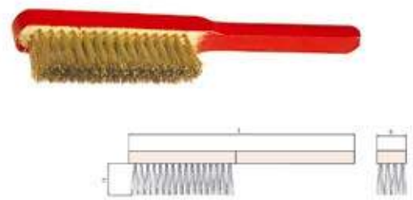
Number	L mm	H mm	Ø$_1$ mm	Ø$_2$ mm	Be-Cu g
50283-100250	350	90	160	135	580

50284 Brush, Flat Back, Scratch



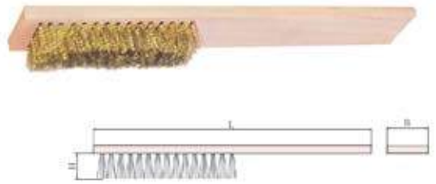
Number	Block Size L•B mm	Rows	Trim Lenght H mm	⚖
50284-100250	205•48	6•16	41	260

50285 Brush



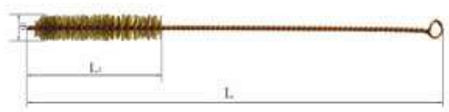
Number	Block Size L•B mm	Rows	Trim Lenght H mm	⚖
50285-100250	290•29	4•16	28	115

50286 Brush



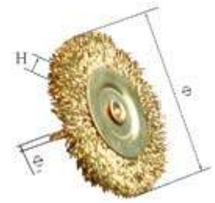
Number	Block Size L•B mm	Rows	Trim Lenght H mm	⚖
50286-100250	215•29	6•15	15	30

50287 Brush,Tube



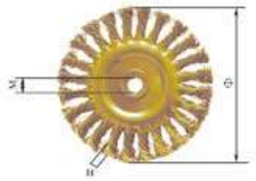
Number	Ø mm	L_1 mm	L mm
50287-100250	20	100	320

50288 Brush, Wheel



Number	Ø mm	H mm	Ø$_1$ mm
50288-100250	75	10	6

50289 Brush, Wheel,Crimped Wire



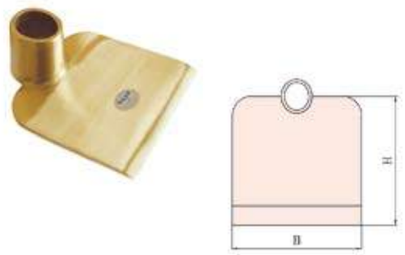
Number	Ø mm	H mm	M mm
50289-100250	125	15	6

50290 Brush, Cup



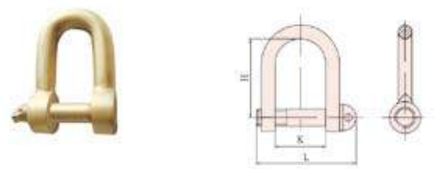
Number	Ø mm	H mm	M mm
50290-100250	100	30	1/2

50291 Hoe



Number	B mm	H mm	Be-Cu g	Al-Cu g
50291-100250	130	130	1080	970
50291-100452	200	200	1780	1600

50292 Shackle



Number	K mm	L mm	H mm	Be-Cu g	Al-Cu g
50292-100250	30	60	40	135	130
50292-100452	37	99	78	915	830

50293 Barrel Hook, Adjustable



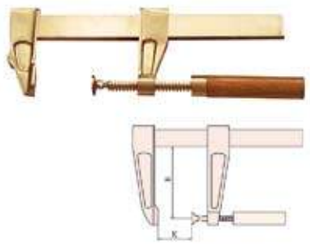
Number	H kg	K mm	Be-Cu g	Al-Cu g
50293-100250	700	1060	3300	3050

50294 Manual Portable Oil Pump



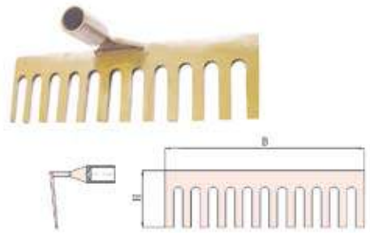
Number	L mm	Be-Cu g	Al-Cu g
50294-100250	1350	5500	5000

50295 Screw Clamp



Number	B_{max} mm	K mm	Be-Cu g	Al-Cu g
50295-100250	120	400	2395	2200

50296 Rake



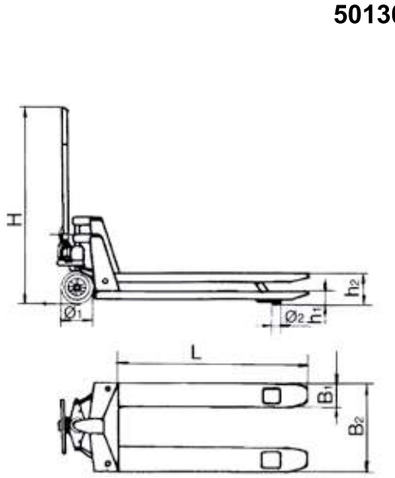
Number	B mm	H mm	Be-Cu g	Al-Cu g
50296-100250	350	100	1380	1235
50296-100452	450	120	1600	1435

51305 Pipe Cutter



Number	D inch	D mm	Be-Cu g	Al-Cu g
51305-100250	2	50	2210	2010

501306 Hydraulic Pallet Truck





Number	Load (kg)	L (mm)	H (mm)	B_1 (mm)	B_2 (mm)	h_1 (mm)	h_2 (mm)	$Ø_1$ (inch)	$Ø_2$ (inch)	Weight (kg)
51306-100250	2000	1070	1240	160	555	80	195	7	3	120

50292 Trolley For Chain Hoist



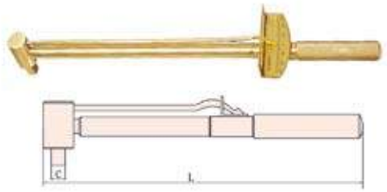
Number	Capacity T	
51307-100250	0.5	Making Sizes according to customers' requirement
51307-100452	1	
51307-100654	2	
51307-100856	3	
51307-101048	5	

51308 Chain Hoist



Number	Capacity T	kg
51307-100250	0.5	10.2
51307-100452	1	13.6
51307-100654	2	22
51307-100856	3	23.6
51307-101048	5	36

51309 Torque Wrench



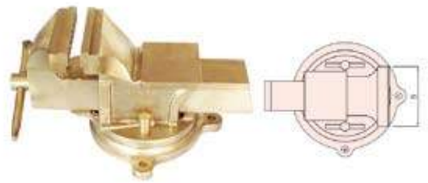
Number	C inch	C mm	L mm	Be-Cu g	Al-Cu g
51309-100250	3/8	9.53	310	600	540
51309-100452	1/2	12.7	490	1340	1210
51309-100654	3/4	19.05	560	2050	1930

51310 Flange Prop



Number	Size mm	g
51310-100250	FZM16-24	6600
51310-100452	FZM27-36	9000

51311 Parallel Vice



Number	B mm	K_{max} mm	Be-Cu g	Al-Cu g
51311-100250	90	90	8150	7400
51311-100452	125	125	19550	16800
51311-100654	150	150	30000	26500
51311-100856	170	170	30000	26500





H

TOOLS SETS

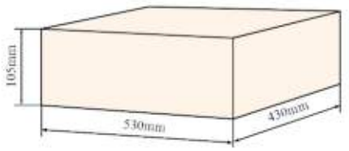




78 No.A Tool Set-17pcs



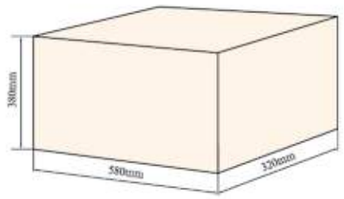




Tools	Descriptions
Wrench Pipe	350 mm
Wrench Adjustable	200 mm, 300 mm
Wrench Combination	14 mm, 17 mm, 19 mm, 22 mm, 24 mm, 27 mm
Pliers Lineman	200 mm
Pliers Long Nose	200 mm
Pliers Adjustable Combination	200 mm
Punch Machinists	Ø 18 mm ⋆160 mm
Chisel Flat	Ø 18 mm ⋆160 mm
Screwdriver (Slotted phillips)	150 mm
Screwdriver (Phillips Type)	150 mm
Hammer Ball Pein	0.91 kg

78 No.B Tool Set-50pcs

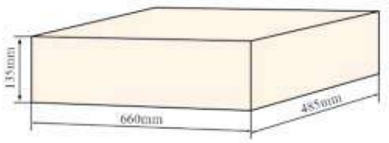




Tools	Descriptions
Hammer Sledge	1.8 kg
Hammer Ball Pein	0.91 kg
Hammer Claw	0.45 kg
Wrench Pipe	300 mm, 450 mm
Wrench Adjustable	200 mm ⋆ 24 mm, 300 mm ⋆ 36 mm
Wrench Combination	8 mm, 10 mm, 12 mm, 14 mm, 17 mm, 19 mm, 22 mm, 24 mm, 27 mm, 30 mm, 32 mm
Pliers Lineman	200 mm
Pliers Long Nose	200 mm
Pliers Adjustable Combination	200 mm
Bar Pinch	Ø 25 ⋆ 300 mm
Chisel Flat	Ø 25 ⋆ 300 mm
Punch Machinists	Ø 18 mm ⋆ 160 mm
Slotted Screwdriver	100 mm, 200 mm
Phillips Screwdriver	100 mm, 200 mm
Valve Handle	400 mm
Knife Common	250 mm
Saw - Hacksaw Frame	500 mm
Saw - Hacksaw Blade	300 mm
1/2" Socket	10 mm, 11 mm, 12 mm, 14 mm, 17 mm, 19 mm, 22 mm, 24 mm, 27 mm, 30 mm, 32 mm
Ratchet Wrench	250 mm
Driver Extension	125 mm, 250 mm
Speed Handle	400 mm
Sliding T Handle	250 mm
Universal Joint	1/2"
Putty Knife	25 ⋆ 200 mm

78 No.C Tool Set-28pcs



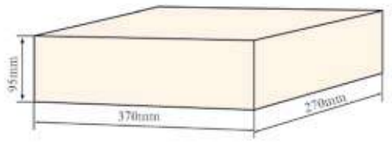




Tools	Descriptions
Hammer Sledge	1.8 kg
Hammer Ball Pein	0.91 kg
Hammer Claw	0.45 kg
Wrench Pipe	300 mm, 450 mm
Wrench Adjustable	200 mm, 300 mm
Wrench Combination	8 mm, 10 mm, 12 mm,14 mm, 17 mm, 19 mm, 22 mm, 24 mm, 27 mm, 30 mm, 32 mm
Pliers Lineman	200 mm
Pliers Long Nose	200 mm
Pliers Adjustable Combination	200 mm
Bar Pinch	Ø 25 ⋆ 300 mm
Chisel Flat	Ø 25 ⋆ 300 mm
Punch Machinists	Ø 18 mm ⋆ 160 mm
Slotted Screwdriver	100 mm, 200 mm
Phillips Screwdriver	100 mm, 200 mm
Valve Handle	400 mm

78 No.D Tool Set-26pcs

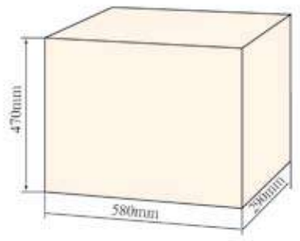




Tools	Descriptions
Chisel Flat	18 ⋆ 180
Wrench Adjustable	150 mm
Pliers Lineman	200 mm
Pliers Adjustable	20 mm
Pliers Snipe Nose Combination	150 mm
Phillips Screwdriver	150 mm, 200 mm
Slotted Screwdriver	150 mm, 200 mm
1/2" Socket	8 mm, 10 mm, 12 mm, 14 mm, 17 mm
Sliding T Handle	1/2" ⋆ 250 mm
Hammer, Testing	0.15 kg
Wrench Combination	8 mm, 10 mm, 12 mm, 14 mm, 17 mm
Wrench Hex Key	4 mm, 5 mm, 6 mm, 8 mm, 10 mm

78 No.E Tool Set-100pcs





Tools	Descriptions
Hammer Ball Pein	0.23 kg
Hammer Claw	0.23 kg
Wrench Adjustable	150 mm * 18 mm, 200 mm * 24 mm, 250 mm * 30 mm
Wrench Combination	8 mm, 10 mm, 12 mm, 14 mm, 17 mm, 19 mm, 22 mm, 24 mm, 27 mm, 30 mm, 32 mm
Pliers Lineman	200 mm
Pliers Snipe Nose	150 mm
Pliers Adjustable Combination	150 mm
Pliers Flat Nose	150 mm
Pincers	200 mm
Pliers Round Nose	150 mm
Pliers Diagonal Cutting	200 mm
Tweezer, Neat Tips	150 mm
Flat 6 Chisel	14 * 160 mm, 16 * 160 mm, 18 * 160 mm
Centre Punch	Ø 16 * 100 mm, Ø 18 * 200 mm
Punch Machinist	Ø 18 * 160 mm, Ø 18 * 250 mm, Ø 20 * 300 mm
Slotted Screwdriver	5 * 75 mm, 6 * 100 mm, 7 * 150 mm, 8 * 200 mm, 9 * 300 mm, 10 * 350 mm
Phillips Srewdriver	5 * 75 mm, 6 * 150 mm, 8 * 250 mm, 9 * 300 mm
Knife Common	250 mm
Hacksaw Frame	500 mm
Hacksaw Blade	300 mm
Hand Saw	370 mm
Scraper Flat	35 * 350 mm
File - Half Round With Handle	200 mm
File - Flat With Handle	200 mm
File - Square With Handle	200 mm
File - Traingle With Handle	200 mm
1/4" * 3/8" Socket Set - 20 pcs	
3/4" * 1" Socket Set - pcs	2"
Torch	
Case	



COOPERS & BRASS HAMMERS



502101 Brass Hammer, Sledge



Number	Size g	L(A) mm	L(B) mm	g
502101-100250	300	280	350	300
502101-100452	500	310	350	500
502101-100654	1000	400	400	1000
502101-100856	1500	400	450	1500
502101-101048	2000	400	450	2000
502101-101250	3000	900	800	3000
502101-101452	4000	900	900	4000
502101-101654	5000	900	900	5000
502101-101856	7000	900	900	7000
502101-102048	10000	900	900	10000

Number	Size lb	L(A) mm	L(B) mm	g
502101-102250	1	350	350	450
502101-102452	2	400	400	910
502101-102654	3	400	400	1400
502101-102856	4	400	400	1800
502101-103048	5	400	400	2250
502101-103250	6	900	900	2700
502101-103452	8	900	900	3600
502101-103654	10	900	900	4500
502101-103856	12	900	900	5400
502101-104048	14	900	900	6400
502101-104250	16	900	900	7200
502101-104452	20	900	900	9000

502102 Copper Hammer, Sledge



Number	Size g	L(A) mm	L(B) mm	g
502102-100250	450	350	310	450
502102-100452	1000	400	400	1000
502102-100654	2500	800	900	2500
502102-100856	3600	900	900	3600
502102-101048	4500	900	900	4500
502102-101250	5400	900	900	5400
502102-101452	6400	900	900	6400
502102-101654	10000	900	900	10000

502102 Copper Hammer, Drum Type



Number	Size lb	L mm	g
502103-100250	1/2	280	300
502103-100452	1	310	570
502103-100654	1-1/2	340	810
502103-100856	2	350	1085
502103-101048	3	400	1625
502103-101250	4	400	2270

502104 Brass Hammer, Sledge (German Type)



Number	Size g	L(A) mm	L(B) mm	g
502104-100250	500	350	350	500
502104-100452	1000	400	400	1000
502104-100654	1500	400	400	1500
502104-100856	1800	400	450	1800
502104-101048	2000	400	450	2000
502104-101250	2700	900	800	2700
502104-101452	3600	900	900	3600
502104-101654	4000	900	900	4000
502104-101856	5000	900	900	5000

502106 Copper Hammer Sledge (German Type)



Number	Size g	L(A) mm	L(B) mm	g
502106-100250	500	350	350	500
502106-100452	1000	400	400	1000
502106-100654	1500	400	400	1500
502106-100856	1800	400	450	1800
502106-101048	2000	400	450	2000
502106-101250	2700	900	800	2700
502106-101452	3600	900	900	3600
502106-101654	4000	900	900	4000
502106-101856	5000	900	900	5000

502105 Brass Hammer, Ball Pein



Number	H g	L mm	g
502105-100250	230	280	230
502105-100452	340	280	340
502105-100654	450	310	450
502105-100856	680	340	680
502105-101048	910	350	910
502105-101250	1130	400	1130

502107 Copper Hammer, Ball Pein



Number	H g	L mm	g
502107-100250	230	280	230
502107-100452	340	280	340
502107-100654	450	310	450
502107-100856	680	340	680
502107-101048	910	350	910
502107-101250	1130	400	1130

502108 Brass Hammer, Scaling



Number	H g	L mm	g
502108-100250	150	330	205
502108-100452	300	350	370

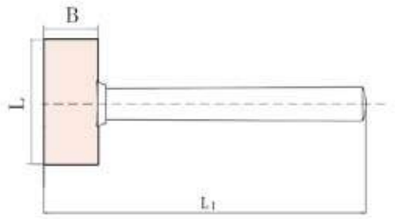
502109 Brass Hammer, Mallet



Number	H lb	L mm	g
502109-100250	8	900	4500
502109-100452	10	900	5400
502109-100654	15	900	7650

502110 Copper Hammer, Double face





Number	L_1 mm	L mm	B mm	g
502110-100250	350	90	40	1330

SAFETY TOOLS