



HERRAMIENTAS WEDO GmbH

AÑADIR: Ludwig-Richter-Str. 6, D-42329 Wuppertal, Alemania

WEDO[®]
TOOLS FOR SAFETY

WEDO



TOOLS FOR SAFETY
WE THE CRAFTSMEN DO SAFETY FIRST

2025

- ◆ HERRAMIENTAS ANTIPIRCHISPAS
- ◆ HERRAMIENTAS DE TITANIO
- ◆ HERRAMIENTAS AISLADAS HERRAMIENTAS
- ◆ DE ACERO INOXIDABLE RESISTENTES A LA
- ◆ CORROSIÓN HERRAMIENTAS GIGANTES

01.01.2025

HERRAMIENTAS PROFESIONALES

NON-SPARKING-TOOLS

Aluminium Bronze Non-sparking Tools

Item No. begins with "AL"



● Non-sparking Properties:

1. Appropriate for operation with ethylene concentration 7.8%.
2. Standard code GBEx II B, Hardness HRC20-30, tensile strength δ_b 75-85kgf/mm²;
3. Adopt 4.0 die forging technology, Germany DIN standard, high density, good toughness and long lifetime.

● Application Scope:

Appropriate for all kinds of flammable and explosive environments such as Oil Refinery, Petrochemical Industry, Coal Mine, Oil Field, Natural Gas Chemical Industry, Gunpowder Industry, Chemical-fiber Industry, Paint Industry, Fertilizer Industry, Pharmaceutical Industry, etc. It can efficiently avoid spark arising and explosion while striking, friction and hammering.

NON-SPARKING-TOOLS

Beryllium Copper Non-sparking Tools

Item No. begins with "BE"



● Non-sparking Properties:

1. Appropriate for operation with hydrogen concentration below 21%.
2. Standard code GBEx II C, Hardness HRC30-40, tensile strength δ_b 105-120kgf/mm²;
3. Adopt 4.0 die forging technology, Germany DIN standard, high density, high toughness, long lifetime and anti-magnetic.

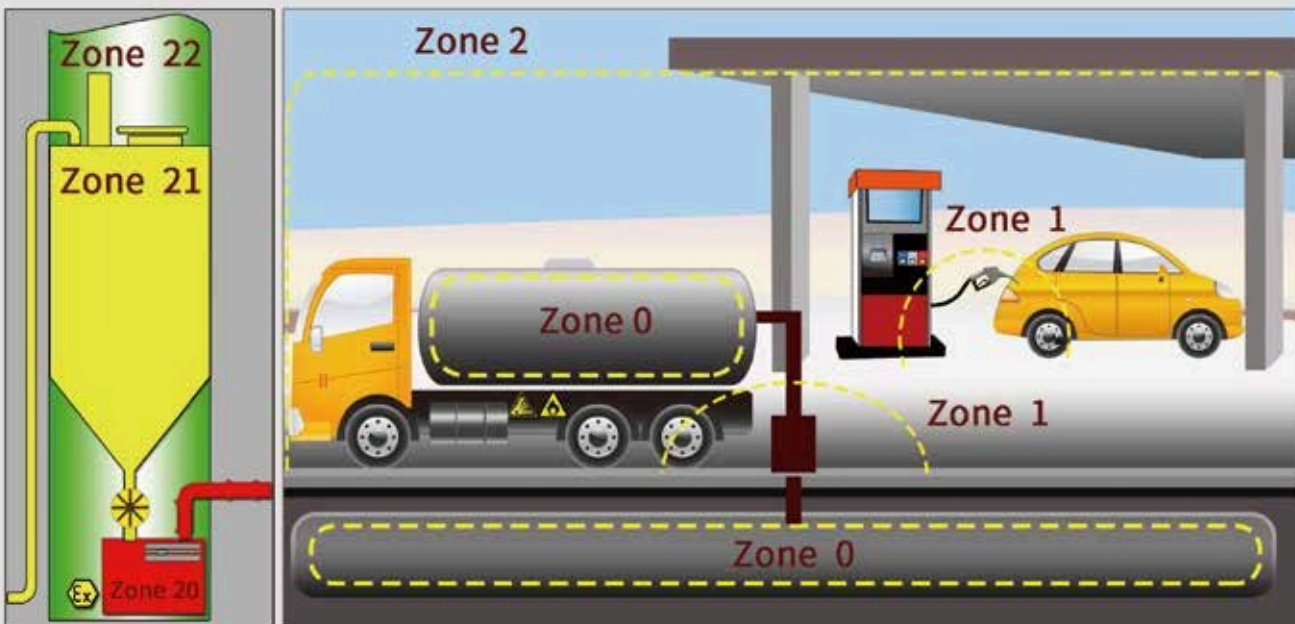
● Application Scope:

Appropriate for all kinds of flammable and explosive environments such as Oil Refinery, Petrochemical Industry, Coal Mine, Oil Field, Natural Gas Chemical Industry, Gunpowder Industry, Chemical-fiber Industry, Paint Industry, Fertilizer Industry, Pharmaceutical Industry, etc. they will not cause any spark when they strike, rub or fall down.

Clasificación de zonas según el riesgo de explosión

Viabilidad de ATEX	Zona alta 0	Zona 1 baja promedio	
Gas, petróleo, niebla o vapor	Se refiere a una atmósfera peligrosa en la que una mezcla de aire y sustancias inflamables en forma de gas, niebla o vapor está presente de forma frecuente, continua o durante un período prolongado.	Se refiere a una atmósfera peligrosa en la que es probable que, durante el funcionamiento normal, se produzca ocasionalmente una mezcla de aire y sustancias inflamables en forma de gas, niebla o vapor.	
Polvo	Zona 20 Se refiere a un entorno peligroso en el que una nube de polvo combustible está presente en el aire de forma frecuente, continua o durante un período prolongado.	Zona 21 Se refiere a un entorno peligroso en el que es probable que se produzca ocasionalmente una nube de polvo combustible en el aire durante el funcionamiento normal.	Zona 22 Se refiere a un entorno peligroso en el que es poco probable que se produzca una nube de polvo combustible en el aire durante el funcionamiento normal, pero si se produce, persistirá solo durante un breve período.

Mina1	En caso de fuga de gas, la operación puede continuar. En caso
Mina2	de fuga de gas, la operación debe interrumpirse.



DIFERENCIAS ENTRE DOS MATERIALES:

Aleación de cobre y berilio (Be-Cu)

Be Co+Ni Co+Ni+Fe Cu+Be+Co+Ni+Fe	Dureza	Resistencia a la tracción	Extensibilidad
	1,5-1,7%	1,8-2,3% más	
Límite de elasticidad Magnético	del 0,2% menos del 1,2%		
	más del 99,0%		
	30-40HRC	1117N/mm ² -	
		1326N/mm ²	$\delta \leq 1,0\%$
		840N/mm ² -880N/mm ²	
		0	

Aleación de bronce de aluminio (Al-Br)

Al Ni Fe+Mn Cu+Al+Ni+Fe+Mn	
	10-12%
Dureza Resistencia a la tracción	4-6% por debajo 5,8%
Extensibilidad Límite de elasticidad	por encima 99,0%
Magnético	20-30HRC 782N/mm ² -
	989N/mm ² $\delta \geq 5\%$
	450N/mm ² -
	550N/mm ² 1.2

PROPIEDADES Y APLICACIONES:

No produce chispas	Adecuado para entornos con potencial explosivo, como los de petróleo y gas. obras, plantas petroquímicas, etc. Puede evitar eficazmente que se produzcan chispas durante el funcionamiento.
Seguridad no magnética	Imprescindible para equipos que requieren un entorno completamente no magnético.
Resistente a la corrosión. Forjado después de la fundición.	Especialmente indicada para aplicaciones en entornos corrosivos, como los que se encuentran en trabajos marítimos o en aplicaciones de extinción de incendios. Proporcionan mejores propiedades mecánicas y un mejor acabado.

PRINCIPALES ÁREAS DE APLICACIÓN:

Petroquímicos	Industria química	Industria	Minas, Defensa, Fuerzas Aéreas,
Refinerías Gasoductos y oleoductos	Centrales eléctricas	Fabricación de pinturas	Fabricación de plásticos
Industria farmacéutica	Industria química	Industria de procesamiento de alcohol	Destilerías
	Industria química	Silos y molinos de harina	Cervecerías
	Industria química	Industria de procesamiento de alcohol	Destilerías
	Industria química	Bomberos	
	Industria química		

WE THE CRAFTSMEN DO SAFETY FIRST

Materias primas de alta calidad

Non-sparking tools are made of expensive and rare non-ferrous metal in good proportion(Be-Cu & Al-Br). The final products are in golden or silver yellow.



Advanced Die-forged Process

One-time die-forged, high hardness, strong torque, completely in accordance with Germany DIN standard. Low physical effort and increasing 30% lifespan.



Beryllium-Copper(Be-Cu) Alloy

Hardness	30-40HRC
Tensile Strength	1117N/mm ² -1326N/mm ²
Extensibility	6±1.0%
Elasticity limit	840-880N/mm ²
Magnetic	0

Aluminium-Bronze(AL-Br) Alloy

Hardness	20-30HRC
Tensile Strength	782N/mm ² -989N/mm ²
Extensibility	6±5.0%
Elasticity limit	450-550N/mm ²
Magnetic	1.2



Technical process of WEDO non-sparking tools

01 The use of raw materials must strictly adhere to a scientific ratio, in full accordance with the requirements for non-sparking tool material composition. This is the most critical factor in ensuring non-sparking properties.

02 The raw materials are then smelted and synthesized using scientific ratio methods. Samples are extracted to undergo drop weight and friction tests in accordance with the GB10686 standard, ensuring that the safety coefficient of the materials meets the required standards.

03 Large friction press machines, ranging from 150T to 2500T and beyond, are used to forge the qualified smelting roughcast into precise shapes according to specified sizes.

04 The qualified forging blanks, after passing inspection, are assigned to respective production lines for precise CNC machining based on their varieties. Once pipeline processing is complete, the products are heated according to material standards and requirements to ensure strength, toughness, and mechanical properties meet the specified standards.

Tools that meet the standards undergo surface treatment before being moved to storage. To guarantee safe and reliable products for customers, we conduct sample quality inspections during packaging for shipment. This ensures that the non-sparking properties are maintained with a 100% qualified rate."

Instruction of Wrench

1. Use the right size wrench.
2. Do not use the wrench as a lever.
3. Do not use with extension bar at random, unless this tool has such designed function.
4. Do not strike wrench with a hammer, unless this tool has such designed function, such as striking wrench.
5. Apply a force on wrench when the wrench is placed in the correct station.
6. Box wrench transmits torque more smoothly, so it is more suitable for high torque.
7. Damaged wrench should not be used again. Do not repair damaged wrench.

WE DO

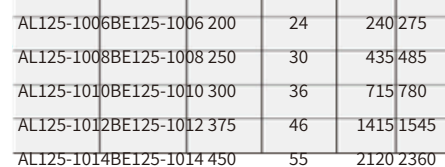


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AL125116BE125116	150	18 150 165
AL125117BE125117	200	24 275 305
AL125118BE125118	250	30 500 550
AL125119BE125119	300	36 790 870
AL125120BE125120	375	46 1310 1450
AL125121BE125121	450	55 1980 2160
AL125122BE125122	600	65 3730 4130



ITEM CODE	SIZE	N.W (g)
AL125E-1002 BE125E-	150	18 150 175
I002 AL125E-1004	200	24 250 290
BE125E-1004 AL125E-	250	30 420 485

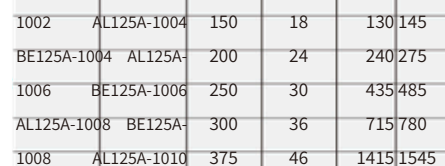
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AL125-1002BE125-1002	100	13 30 33
AL125-1004BE125-1004	150	18 130 145
AL125-1006BE125-1006	200	24 240 275
AL125-1008BE125-1008	250	30 435 485
AL125-1010BE125-1010	300	36 715 780
AL125-1012BE125-1012	375	46 1415 1545
AL125-1014BE125-1014	450	55 2120 2360
AL125-1016BE125-1016	600	65 4300 4700



ITEM CODE	SIZE	N.W (g)
AL125A-1002 BE125A-	100	13 30 33
I002 AL125A-1004	150	18 130 145
BE125A-1004 AL125A-	200	24 240 275
1006 BE125A-1006	250	30 435 485
AL125A-1008 BE125A-	300	36 715 780
I008 AL125A-1010	375	46 1415 1545
BE125A-1010 AL125A-	450	55 2120 2360
1012 BE125A-1012	600	65 4300 4700
AL125A-1014 BE125A-		
1014 AL125A-1016		
BE125A-1016		



ITEM CODE	SIZE	N.W (g)
AL127-1002 BE127-	240	45 470 510
I002 AL127-1004	254	48 560 615
BE127-1004 AL127-	305	58 820 910
1006 BE127-1006	350	65 1120 1220
AL127-1008 BE127-	380	70 1340 1465
I008 AL127-1010		
BE127-1010		

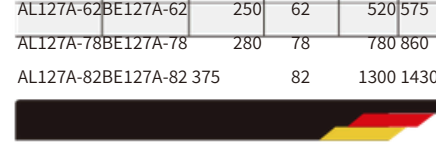


ITEM CODE	SIZE	N.W (g)
AL128A-1002 BE128A-	530	2 2355 2605
I002 AL128A-1004	650	3 4060 4500
BE128A-1004 AL128A-	790	4 5600 6200
I006 BE128A-1006		

WE DO

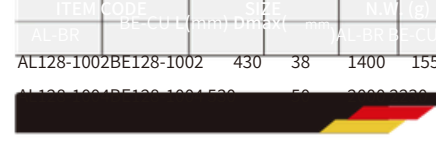


ITEM CODE	SIZE	N.W (g)
AL127A-62BE127A-62	250	62 520 575
AL127A-78BE127A-78	280	78 780 860
AL127A-82BE127A-82	375	82 1300 1430

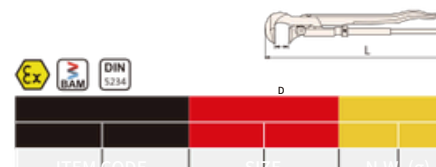


ITEM CODE	SIZE	N.W (g)
AL125E-1002 BE125E-	150	18 150 175
I002 AL125E-1004	200	24 250 290
BE125E-1004 AL125E-	250	30 420 485

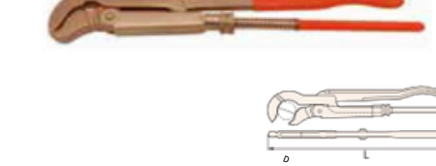
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AL128-1002BE128-1002	430	38 1400 1550
AL128-1004BE128-1004	530	48 2000 2200
AL128-1006BE128-1006	650	60 3000 3300



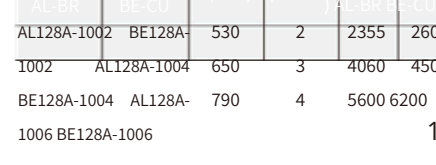
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AL125A-1002 BE125A-	100	13 30 33
I002 AL125A-1004	150	18 130 145
BE125A-1004 AL125A-	200	24 240 275
1006 BE125A-1006	250	30 435 485
AL125A-1008 BE125A-	300	36 715 780
I008 AL125A-1010	375	46 1415 1545
BE125A-1010 AL125A-	450	55 2120 2360
1012 BE125A-1012	600	65 4300 4700
AL125A-1014 BE125A-		
1014 AL125A-1016		
BE125A-1016		



ITEM CODE	SIZE	N.W (g)
AL127-1002 BE127-	240	45 470 510
I002 AL127-1004	254	48 560 615
BE127-1004 AL127-	305	58 820 910
1006 BE127-1006	350	65 1120 1220
AL127-1008 BE127-	380	70 1340 1465
I008 AL127-1010		
BE127-1010		



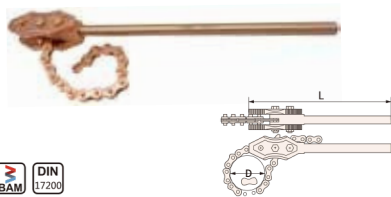
ITEM CODE	SIZE	N.W (g)
AL128A-1002 BE128A-	530	2 2355 2605
I002 AL128A-1004	650	3 4060 4500
BE128A-1004 AL128A-	790	4 5600 6200
I006 BE128A-1006		



NON-SPARKING-TOOLS

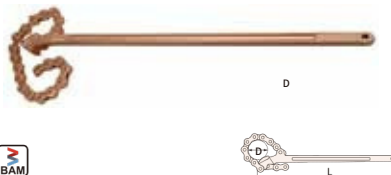
NON-SPARKING-TOOLS

Wrench, Chain Pipe



ITEM CODE	SIZE	N.W. (g)	
		AL-PP	BE-CU
AL129-1002	BE129-1002 600 100	3605	3955
AL129-1004	BE129-1004 600 150	4200	4650
AL129-1006	BE129-1006 900 200	7800	8600
AL129-1008	BE129-1008 900 300	9000	9810

Wrench, Light Chain Pipe



ITEM CODE	SIZE	N.W. (g)	
		AL-PP	BE-CU
AL129A-1002	BE129A-1002 600 100	1910	2105
1002	AL129A-1004 1600 450	9500	10500
BE129A-1004	AL129A-1004 300 60	940	1030
1006	BE129A-1006		

Wrench, Belt Pipe



ITEM CODE	SIZE	N.W. (g)	
		AL-PP	BE-CU
AL129B-1002	BE129B-1002 425 30	735	810

Wrench, Pipe



ITEM CODE	SIZE	N.W. (g)	
		AL-PP	BE-CU
AL130-1002	BE130-1002 200 25	365	400
1002	AL130-1004 250 30	560	615
BE130-1004	AL130-1004 300 40	750	825
1006	BE130-1006 350 50	1000	1100
AL130-1008	BE130-1008 450 60	1625	1785
1008	AL130-1010 600 75	2960	3255
BE130-1010	AL130-1010 900 125	5490	6035
1012	BE130-1012 1200 150	10870	12280
AL130-1014	BE130-1014 1014 130		
1014	AL130-1016		
BE130-1016			

Universal Wrench



ITEM CODE	SIZE	N.W. (g)	
		AL-PP	BE-CU
AL129C-1002	BE129C-1002 250	780	870
AL129C-1004	BE129C-1004 450	2200	2450

Wrench, Pipe (British Type)



ITEM CODE	SIZE	N.W. (g)	
		AL-PP	BE-CU
AL130B-1002	BE130B-1002 250	380	430
AL130B-1004	BE130B-1004 450	520	580
AL130B-1006	BE130B-1006 600	780	880
AL130B-1008	BE130B-1008 850	1080	1250
AL130B-1010	BE130B-1010 1045	1660	1910
AL130B-1012	BE130B-1012 1260	2710	3115

Wrench, Pipe (Germany Light Type)



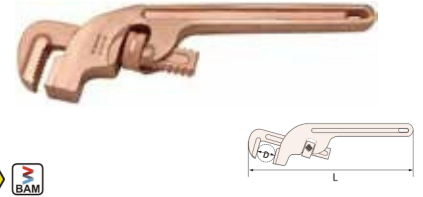
ITEM CODE	SIZE	N.W. (g)	
		AL-PP	BE-CU
AL130C-1002	BE130C-1002 350	1200	1300

Wrench, Pipe (American Type)



ITEM CODE	SIZE	N.W. (g)	
		AL-PP	BE-CU
AL131-1002	BE131-1002 200 25	380	420 670
AL131-1004	BE131-1004 250 30	735	955 1050
AL131-1006	BE131-1006 300 40	1195	1315
AL131-1008	BE131-1008 350 50	2050	2255
AL131-1010	BE131-1010 450 60	3150	3465
AL131-1012	BE131-1012 600 75	5345	5880
AL131-1014	BE131-1014 900 85	11450	12600
AL131-1016	BE131-1016 1200 110		

Wrench, Pipe (Diagonal Type)



ITEM CODE	SIZE	N.W. (g)	
		AL-PP	BE-CU
AL131B-1002	BE131B-1002 200 34	510	560
1002	AL131B-1004 250 48	840	930
BE131B-1004	AL131B-1004 300 50	1330	1470
1006	BE131B-1006 375 60	1610	1780
AL131B-1008	BE131B-1008 450 76	2400	2650

Wrench, Pipe (Bent Type)



ITEM CODE	SIZE	N.W. (g)	
		AL-PP	BE-CU
AL131C-1002	BE131C-1002 200 34	450	500
1002	AL131C-1004 250 48	780	850
BE131C-1004	AL131C-1004 300 50	1090	1200
1006	BE131C-1006 375 60	1770	1950
AL131C-1008	BE131C-1008 450 76	2480	2730

Wrench, Pipe (Hex Type)



ITEM CODE	SIZE	N.W. (g)	
		AL-PP	BE-CU
AL131D-1002	BE131D-1002 250 30	1130	1250
1002	AL131D-1004 350 50	1620	1785

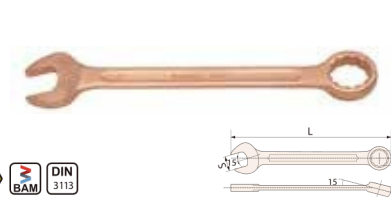
Wrench, Pipe (Bent & Hex Type)



ITEM CODE	SIZE	N.W. (g)	
		AL-PP	BE-CU
AL131E-1002	BE131E-1002 250 30	1130	1250
1002	AL131E-1004 350 50	1620	1785

BE131E-1004

Wrench, Combination



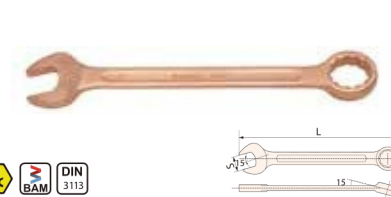
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		AL-PP	BE-CU
AL135-6	BE135-6 6 7	105	20 22
AL135-7	BE135-7 8 9	120	34 37
AL135-8	BE135-8 120 34	37	
AL135-9	BE135-9 135 50	55	
AL135-10	BE135-10 135 50	55	
11BE135-11	AL135-11 150 70	75	
12BE135-12	AL135-12 175 110	122	
13BE135-13	AL135-13 175 110	122	
14BE135-14	AL135-14 195 145	160	
15BE135-15	AL135-15 195 140	155	
16BE135-16	AL135-16 195 140	155	
17BE135-17	AL135-17 215 190	210	
18BE135-18	AL135-18 215 190	210	
19BE135-19	AL135-19 230 200	225	
20BE135-20	AL135-20 245 200	225	
21BE135-21	AL135-21 265 220	250	
22BE135-22	AL135-22 265 233	265	
23BE135-23	AL135-23 265 230	260	
24BE135-24	AL135-24 290 380	420	
25BE135-25	AL135-25 290 380	420	
26BE135-26	AL135-26 320 380	420	
27BE135-27	AL135-27 320 500	560	
30BE135-30	AL135-30 340 600	670	
32BE135-32	AL135-32 360 750	850	
34BE135-34	AL135-34 360 800	890	
35BE135-35	AL135-35 360 800	890	
36BE135-36	AL135-36 395 1150	1200 460	
38BE135-38	AL135-38 1300 1440	480 1700	
41BE135-41	AL135-41 1890 520	2000 2220	
46BE135-46	AL135-46 560 2230	2460 595	
50BE135-50	AL135-50 2950 3300	595 2900	
55BE135-55	AL135-55 3250 630	4100 4550	
60BE135-60			
65BE135-65			
70BE135-70			

Wrench, Combination



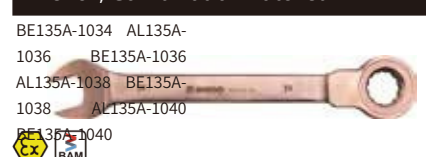
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		AL-PP	BE-CU
AL137-17	BE137-17 17 240	210	230
AL137-19	BE137-19 19 270	250	280
AL137-21	BE137-21 21 290	340	380
AL137-22	BE137-22 22 295	370	440
AL137-24	BE137-24 24 320	390	460
AL137-27	BE137-27 27 350	520	605

Wrench, Combination



ITEM CODE	SIZE	N.W. (g)	
		AL-PP	BE-CU
AL135A-1002	BE135A-1002 1/4 105	20	22
1002	AL135A-1004 5/16 120	34	37
BE135A-1004	AL135A-1004 3/8 135	50	55
1006	BE135A-1006 7/16 150	70	75
AL135A-1008	BE135A-1008 1/2 175	115	125
1008	AL135A-1010 9/16 175	110	122
BE135A-1010	AL135A-1010 19/32 195	145	160
1012	BE135A-1012 5/8 195	140	155
AL135A-1014	BE135A-1014 11/16 195	140	155
1014	AL135A-1016 3/4 215	190	210
BE135A-1016	AL135A-1016 13/16 230	200	225
1018	BE135A-1018 7/8 245	225	250
AL135A-1020	BE135A-1020 15/16 265	230	260
1020	AL135A-1022 1 290	380	420
BE135A-1022	AL135A-1022 1-1/16 290	380	420
1024	BE135A-1024 1-1/8 320	500	560
AL135A-1026	BE135A-1026 1-3/16 320	500	560
1026	AL135A-1028 1-1/4 340	600	670
BE135A-1028	AL135A-1028 1-5/16 360	750	850
1030	BE135A-1030 1-3/8 360	800	890

Wrench, Combination Ratchet



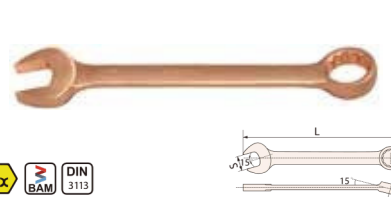
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BE135A-1036	AL135A-1038		
AL135A-1038	BE135A-1038		
BE135A-1040			
AL136A-17	BE136A-17 17 220	225	250 280
AL136A-19	BE136A-19 19 240	310	380 420
AL136A-22	BE136A-22 22 270	510	570 675
AL136A-24	BE136A-24 24 290	750	900
AL136A-27	BE136A-27 27 315	1000	
AL136A-30	BE136A-30 30 350		
AL136A-32	BE136A-32 32 370	1040	1155

Wrench, Bent Open End



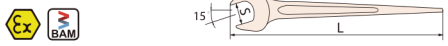
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AL138-12	BE138-12 12 120	50	55
AL138-14	BE138-14 14 130	80	90
AL138-17	BE138-17 17 150	115	125
AL138-19	BE138-19 19 170	165	180
AL138-22	BE138-22 22 190	230	250
AL138-24	BE138-24 24 210	235	255
AL138-27	BE138-27 27 230	350	380
AL138-30	BE138-30 30 250	450	490
AL138-32	BE138-32 32 270	545	590
AL138-34	BE138-34 34 280	660	720
AL138-36	BE138-36 36 290	780	850
AL138-41	BE138-41 41 310	1005	1090 330
AL138-46	BE138-46 46 1225	1340 350	1480
AL138-50	BE138-50 50 1615	370 1955	2135
AL138-55	BE138-55 55		

Wrench, Combination



ITEM CODE	SIZE	N.W. (g)	
		AL-PP	BE-CU
AL136-6	BE136-6 6 105	16	18
AL136-7	BE136-7 7 120	40	40
AL1			

Wrench, Construction With Pin



ITEM CODE	SIZE	N.W. (g)	
		AL-BR	BE-CU
AL139-17	17	115	125
AL139-19	19	160	190
AL139-22	22	240	265
AL139-24	24	350	405
AL139-27	27	480	530
AL139-30	30	720	910
AL139-32	32	1010	
AL139-36	36	360	
AL139-41	41	380	
AL139-46	46	400	1010
AL139-50	50	1055	1165
AL139-55	55	1485	1825
AL139-60	60		

Wrench, Single Open End



ITEM CODE	SIZE	N.W. (g)	
		AL-BR	BE-CU
BE140-8	8	45	50
AL140-10	10	105	115
AL140-12	12	125	170
AL140-14	14	140	250
AL140-17	17	160	320
AL140-19	19	170	410
AL140-22	22	195	530
AL140-24	24	220	615
AL140-27	27	240	950
AL140-30	30	260	1080
AL140-32	32	275	
AL140-34	34	290	
AL140-36	36	310	
AL140-41	41	345	
AL140-46	46	375	
AL140-50	50	410	
AL140-55	55	450	1200
AL140-60	60	1700	1950
AL140-65	65	2250	2550
AL140-70	70	610	2800
AL140-75	75		

Crow Foot Open End



ITEM CODE	SIZE	N.W. (g)	
		AL-BR	BE-CU
AL140A-1002	3/8	115	135
AL140A-1004	3/8	160	180
AL140A-1006	3/8	240	265
AL140A-1008	3/8	350	405
AL140A-1010	3/8	480	530
AL140A-1012	3/8	720	910
AL140A-1014	3/8	1010	
AL140A-1016	3/8	120	180
AL140A-1018	3/8	160	180
AL140A-1020	3/8	165	190
AL140A-1022	1/2	180	200
AL140A-1024	1/2	305	
AL140A-1026	1/2	335	
AL140A-1028	1/2	335	
AL140A-1030	1/2	495	
AL140A-1032	1/2	102	120
AL140A-1034	1/2		
AL140A-1036	1/2	125	145

T-Handle Wrench



ITEM CODE	SIZE	N.W. (g)	
		AL-BR	BE-CU
AL140C-8	8	5	215
AL140C-10	10	6	215
AL140C-12	12	8	215
AL140C-14	14	10	215
AL140C-16	16	12	215
AL140C-18	18	14	215
AL140C-20	20	16	215
AL140C-22	22	18	215
AL140C-24	24	20	215
AL140C-26	26	22	215
AL140C-28	28	24	215
AL140C-30	30	26	215
AL140C-32	32	28	215
AL140C-34	34	30	215
AL140C-36	36	32	215
AL140C-38	38	34	215
AL140C-40	40	36	215
AL140C-42	42	38	215
AL140C-44	44	40	215
AL140C-46	46	42	215
AL140C-48	48	44	215
AL140C-50	50	46	215
AL140C-52	52	48	215
AL140C-54	54	50	215
AL140C-56	56	52	215
AL140C-58	58	54	215
AL140C-60	60	56	215
AL140C-62	62	58	215
AL140C-64	64	60	215
AL140C-66	66	62	215
AL140C-68	68	64	215
AL140C-70	70	66	215
AL140C-72	72	68	215
AL140C-74	74	70	215
AL140C-76	76	72	215
AL140C-78	78	74	215
AL140C-80	80	76	215
AL140C-82	82	78	215
AL140C-84	84	80	215
AL140C-86	86	82	215
AL140C-88	88	84	215
AL140C-90	90	86	215
AL140C-92	92	88	215
AL140C-94	94	90	215
AL140C-96	96	92	215
AL140C-98	98	94	215
AL140C-100	100	96	215

Rectangular Open End



ITEM CODE	SIZE	N.W. (g)	
		AL-BR	BE-CU
AL140E-1002	9*12	7	40
AL140E-1004	9*12	8	39
BE140E-1004	9*12	9	38
1006	9*12	10	42
AL140E-1008	9*12	12	43
1008	9*12	13	52
BE140E-1010	9*12	14	52
1012	9*12	17	60
AL140E-1014	9*12	19	74
1014	14*18	13	129
BE140E-1016	14*18	14	129
1018	14*18	17	136
AL140E-1020	14*18	19	147
1020	14*18	22	165
BE140E-1022	14*18	24	167
1024	14*18	27	219
AL140E-1026	14*18	30	245
1026	14*18	32	246
BE140E-1028	14*18	36	275
1030	14*18	38	265
AL140E-1032	14*18	41	307
1032	14*18		
BE140E-1034	14*18		
1036	14*18		

Wrench, Striking Open



ITEM CODE	SIZE	N.W. (g)	
		AL-BR	BE-CU
AL141-17	17	125	135
AL141-19	19	125	135
AL141-22	22	135	175
AL141-24	24	150	220
AL141-27	27	175	385
AL141-30	30	190	420
AL141-32	32	190	460
AL141-36	36	210	615
AL141-41	41	230	860
AL141-46	46	250	1100
AL141-50	50	1420	1530
AL141-55	55	2025	2120
AL141-60	60	335	2780
AL141-65	65	3660	4030
AL141-70	70	4660	5130
AL141-75	75	400	5400
AL141-80	80	7050	7800
AL141-85	85	7730	485
AL141-90	90	10500	1600
AL141-95	95	12000	3500
AL141-100	100		
AL141-110	110		

Wrench, Bent Striking Open



ITEM CODE	SIZE	N.W. (g)	
		AL-BR	BE-CU
AL141B-17	17	140	140
AL141B-19	19	140	155
AL141B-22	22	150	170
AL141B-24	24	150	220
AL141B-27	27	175	380
AL141B-30	30	190	440
AL141B-32	32	190	440
AL141B-34	34	210	620
AL141B-36	36	210	620
AL141B-38	38	230	800
AL141B-41	41	230	860
AL141B-46	46	250	1150
AL141B-50	50	1250	1380
AL141B-55	55	1780	2350
AL141B-60	60	335	2750
AL141B-65	65		

Wrench, Double Open End



ITEM CODE	SIZE	N.W. (g)	
		AL-BR	BE-CU
AL146A-1002	14*17	160	100
1002	17*19	180	110
BE146A-1004	19*22	200	140
1006	19*24	220	160
AL146A-1008	22*24	230	220
1008	24*27	255	305
BE146A-1010	27*30	280	380
1012	30*32	300	480
AL146A-1014	32*36	320	570
1014	34*36	330	670
BE146A-1016	36*41	350	810
1018	41*46	380	955
AL146A-1020	46*50	420	1190
1020	50*55	460	1720
BE146A-1022	55*60	500	2530
1024			
BE146A-1026			
1026			
AL146A-1028			
1028			
BE146A-1030			
1032			
AL141-1034			
1034			
BE141-1036			
1038			
AL141-1040			
1042			
BE146A-1024			
1026			
AL146A-1028			
1026			

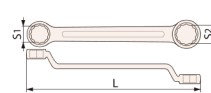
Wrench, Double Open End



ITEM CODE	SIZE	N.W. (g)	
		AL-BR	BE-CU
AL146-0507	5.5*7	90	20
0507	6*7	92	22
BE146-0607	7*9	96	25
0709	8*10	100	31
AL146-0810	9*11	110	45
0810	10*11	115	47
BE146-0911	10*12	120	55
1011	10*14	124	62
AL146-1012	12*13	128	67
1012	12*14	130	69
BE146-1014	13*17	150	110
1213	14*15	143	110
AL146-1214	14*17	150	105
1214	16*17	157	110
BE146-1317	16*18	163	120
1415	17*19	170	130
AL146-1417	17*21	173	165
1417	18*19	175	180
BE146-1617	19*21	182	190
1618	19*22	185	200
AL146-1719	19*24	190	210
1719	20*22	195	210
BE146-1721	21*23	200	225
1819	21*26	205	235
AL146-1921	22*24	210	245
1921	22*27	215	285
BE146-1922	23*26	220	292
1924	24*27	230	302
AL146-2022	24*30	233	310
2022	25*28	236	330
BE146-2123	26*32	243	330
2126	27*30	250	420
AL146-2224	27*32	255	430
2224	30*32	265	549
BE146-2227	30*36	270	540
2326	32*34	270	730
AL146-2427	32*36	300	730
2427	34*36	300	885
BE146-2430	36*38		800
2528	36*41		885
AL146-2632	38*40	330	1210
2632	41*46	1210	1350
BE146-2730	46*50	1350	1530
2732	50*55	1370	1850
AL146-3032	50*60	1950	2160
3032	55*60	2488	415
BE146-3036	60*65	435	3600
3234			3950
AL146-3236			
3236			
BE146-3436			
3638			

WE THE CRAFTSMEN DO SAFETY FIRST

Wrench, Double Box Offset



ITEM CODE	AL BR	BE CU	SIZE		N.W. (g)	
			S1*S2(mm)	L(mm)	AL-BR	BE-CU
AL151-0507	BE151-		5.5*7	115	20	22
0507	AL151-0607		6*7	115	23	25
BE151-0607	AL151-		7*9	130	46	50
0709	BE151-0709		8*10	130	50	55
AL151-0810	BE151-		9*11	140	65	70
0810	AL151-0911		10*11	140	75	80
BE151-0911	AL151-		10*12	140	78	85
1011	BE151-1011		12*13	160	110	140
AL151-1012	BE151-		12*14	151	220	220
1012	AL151-1213		14*17	202	220	225
BE151-1213	AL151-		16*18	250	265	270
1214	BE151-1214		17*19	295	280	310
AL151-1417	BE151-		17*22	320	255	360
1417	AL151-1618		18*19	320	410	415
BE151-1618	AL151-		19*22	455	340	520
1719	BE151-1719		19*24	501	550	350
AL151-1722	BE151-		21*23	370	570	645
1722	AL151-1819		21*26	705	380	405
BE151-1819	AL151-		22*24	1030	1145	980
1922	BE151-1922		24*27	1080	405	1145
AL151-1924	BE151-		24*30	420	1065	1165
1924	AL151-2123		25*28	1465	1600	1905
BE151-2123	AL151-		26*32	2077	490	2315
2126	BE151-2126		27*30	510	2360	2580
AL151-2224	BE151-		30*32	2745	3002	2905
2224	AL151-2427		30*36	3203	560	4105
BE151-2427	AL151-		32*34			
2430	BE151-2430		32*36			
AL151-2528	BE151-		34*36			
2528	AL151-2632		36*41			
BE151-2632	AL151-		41*46			
2730	BE151-2730		46*50			
AL151-3032	BE151-		50*55			
3032	AL151-3036		50*60			
BE151-3036	AL151-		55*60			
3234	BE151-3234		60*70			
AL151-3236	BE151-					
3236	AL151-3436					
BE151-3436	AL151-					

WEDO
TOOLS FOR SAFETY

WEDO NON-SPARKING COMBINATION WRENCH

Adjustable with the forging technology, great handles and excellent performance.

According to Germany standard (DIN 111)

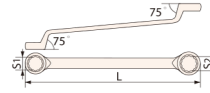
Laser marking, color and wear resistant.

With 27 degree angle.

Both ends are suitable for disassembling of nuts and bolts with the same size.

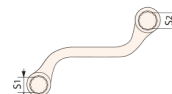
Non-sparking, Non-magnetic, AFD static, used for various ferrous and explosive atmosphere, with complete size and factory direct sales.

Wrench, Double Box Offset



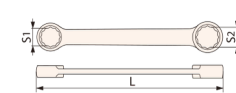
ITEM CODE	AL BR	BE CU	SIZE		N.W. (g)	
			S1*S2(mm)	L(mm)	AL-BR	BE-CU
AL151A-1719	BE151A-17		19*19	280	160	180
1719	AL151A-1922	BE151A-1922	19*22	210	320	290
1922	AL151A-1924	BE151A-1924	19*24	335	370	330
1924	AL151A-2123	BE151A-2123	21*23	340	430	480
2123	AL151A-2224	BE151A-2224	22*24	530	370	620
2224	AL151A-2427	BE151A-2427	24*27	910	1000	470
2427	AL151A-2730	BE151A-2730	27*30	1270	500	1430
2730	AL151A-3032	BE151A-3032	30*32	525	1720	1900
3032	AL151A-3236	BE151A-3236	32*36	2580	2850	
3236	AL151A-3641	BE151A-3641	36*41			

Wrench, Double Box S Type



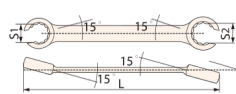
ITEM CODE	AL BR	BE CU	SIZE		N.W. (g)	
			S1*S2(mm)	L(mm)	AL-BR	BE-CU
AL152A-0607	BE152A-0607		6*7	90	40	45
0607	AL152A-0709	BE152A-0709	7*9	90	50	55
0709	AL152A-0810	BE152A-0810	8*10	100	70	80
0810	AL152A-0911	BE152A-0911	9*11	100	80	90
0911	AL152A-1012	BE152A-1012	10*12	110	110	125
1012	AL152A-1214	BE152A-1214	12*14	125	140	160
1214	AL152A-1417	BE152A-1417	14*17	140	200	230
1417	AL152A-1719	BE152A-1719	17*19	170	270	310
1719	AL152A-1922	BE152A-1922	19*22	185	370	420
1922	AL152A-1924	BE152A-1924	19*24	185	400	450
1924	AL152A-2123	BE152A-2123	21*23	185	430	490
2123	AL152A-2126	BE152A-2126	21*26	185	435	500
2126	AL152A-2224	BE152A-2224	22*24	210	600	670
2224	AL152A-2326	BE152A-2326	23*26	210	600	670
2326	AL152A-2427	BE152A-2427	24*27	225	640	720
2427	AL152A-2430	BE152A-2430	24*30	225	650	740
2430	AL152A-2528	BE152A-2528	25*28	225	670	750
2528	AL152A-2730	BE152A-2730	27*30	250	780	870
2730	AL152A-3032	BE152A-3032	30*32	275	980	1100

Wrench, Double Flat Box



ITEM CODE	AL BR	BE CU	SIZE		N.W. (g)	
			S1*S2(mm)	L(mm)	AL-BR	BE-CU
AL153A-0810	BE153A-		8*10	115	29	32
0810	AL153A-0911		9*11	125	34	37
0911	BE153A-0911	AL153A-	10*12	140	48	55
0911	BE153A-1012		12*14	145	62	70
1012	AL153A-1214	BE153A-	14*17	165	90	100
1214	AL153A-1417		17*19	185	120	132
1417	BE153A-1417	AL153A-	19*22	165	180	215
1417	BE153A-1719		22*24	240	255	280
1719	AL153A-2027	BE153A-	24*27	280	340	385
2027	AL153A-2224	AL153A-	27*30	415	465	330
2224	BE153A-2224	AL153A-	30*32	600	365	845
2224	BE153A-3032		32*36			
3032	AL153A-3236	BE153A-	36*41			
3236	AL153A-3641					

Flare Nut Open Ring Wrench

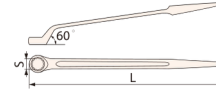


ITEM CODE	AL BR	BE CU	SIZE		N.W. (g)	
			S1*S2(mm)	L(mm)	AL-BR	BE-CU
AL153B-0607	BE153B-		6*7	95	15	17
0607	AL153B-0810		8*10	115	29	32
0810	BE153B-0810	AL153B-	9*11	125	34	37
0810	BE153B-0911		10*12	140	48	55
0911	AL153B-1012	BE153B-	12*14	145	62	70
1012	AL153B-1214		14*15	155	80	90
1214	BE153B-1214	AL153B-	14*17	165	90	100
1415	BE153B-1415		16*18	170	115	127
1415	AL153B-1417	BE153B-	17*19	185	120	132
1417	AL153B-1618		19*22	200	165	180
1618	BE153B-1618	AL153B-	22*24	220	215	240
1719	BE153B-1719		24*27	255	288	320
1719	AL153B-1922	BE153B-	24*30	270	340	375
1922	AL153B-2224		25*28	265	345	380
2224	BE153B-2224	AL153B-	27*30	280	389	430
2427	BE153B-2427		30*32	295	450	498
2427	AL153B-2430	BE153B-	30*34	310	535	588
2430	AL153B-2528		30*36	330	595	657
2528	BE153B-2528	AL153B-	34*36	345	685	758
2730	BE153B-2730		36*41	365	845	935

AL153B-3032 BE153B-3032 AL153B-3034 BE153B-3034 AL153B-

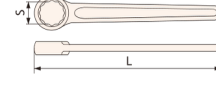
WE THE CRAFTSMEN DO SAFETY FIRST

Wrench, Construction



ITEM CODE	AL BR	BE CU	SIZE		N.W. (g)	
			S(mm)	L(mm)	AL-BR	BE-CU
AL154-10	BE154-10		10	230	85	90
AL154-12	BE154-12		12	250	105	110
AL154-14	BE154-14		14	270	145	180
AL154-17	BE154-17		17	310	225	250
AL154-19	BE154-19		19	330	320	350
AL154-22	BE154-22		22	350	450	500
AL154-24	BE154-24		24	370	700	600
AL154-27	BE154-27		27	400	800	900
AL154-30	BE154-30		30	430	1090	
AL154-32	BE154-32		32	430		
AL154-36	BE154-36		36	460		
AL154-41	BE154-41		41	490		
AL154-46	BE154-46		46	520	1420	1560
AL154-50	BE154-50		50	1550	1700	560
AL154-55	BE154-55		55	2050	610	2550
AL154-60	BE154-60		60			

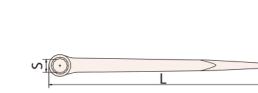
Wrench, Single Box



ITEM CODE	AL BR	BE CU	SIZE		N.W. (g)	
			S(mm)	L(mm)	AL-BR	BE-CU
AL156-8	BE156-8		8	110	45	
AL156-10	BE156-10		10	120	55	
AL156-12	BE156-12		12	130	65	
AL156-14	BE156-14		14	140	80	
AL156-17	BE156-17		17	155	105	
AL156-19	BE156-19		19	170	130	
AL156-22	BE156-22		22	190	150	175
AL156-24	BE156-24		24	215	200	220
AL156-27	BE156-27		27	230	245	270
AL156-30	BE156-30		30	255	335	370
AL156-32	BE156-32		32	265	385	425
AL156-36	BE156-36		36	295	500	550
AL156-41	BE156-41		41	330	750	825
AL156-46	BE156-46		46	365	1010	1120
AL156-50	BE156-50		50	1150	1270	445
AL156-55	BE156-55		55	1590	474	1680
AL156-60	BE156-60		60	510	1875	2030
AL156-65	BE156-65		65	2300	2530	590
AL156-70	BE156-70		70	2700		
AL156-75	BE156-75		75			

AL156-8 BE156-8 AL156-10 BE156-10 AL156-12 BE156-12 AL156-14 BE156-14 AL156-17 BE156-17 AL156-19 BE156-19 AL156-22 BE156-22 AL156-24 BE156-24 AL156-27 BE156-27 AL156-30 BE156-30 AL156-32 BE156-32 AL156-36 BE156-36 AL156-41 BE156-41 AL156-46 BE156-46 AL156-50 BE156-50 AL156-55 BE156-55 AL156-60 BE156-60 AL156-65 BE156-65 AL156-70 BE156-70 AL156-75 BE156-75

Wrench, Construction



ITEM CODE	AL BR	BE CU	SIZE		N.W. (g)	
			S(mm)	L(mm)	AL-BR	BE-CU
BE155-8			8	140	70	80
AL155-10	BE155-10		10	150	102	115
AL155-11	BE155-11		11	160	125	

WE THE CRAFTSMEN DO SAFETY FIRST

WE THE CRAFTSMEN DO SAFETY FIRST

NON-SPARKING-TOOLS

Wrench, Single Box Convex



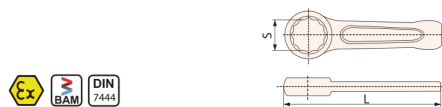
ITEM CODE	AL BR	BE CU	SIZE		N.W. (g)	
			S (mm)	L (mm)	AL-BR	BE-CU
AL159-10	BE159-10		10	110	65	75
AL159-12	BE159-12		12	120	102	115
AL159-14	BE159-14		14	130	120	135
AL159-17	BE159-17		17	150	130	145
AL159-19	BE159-19		19	170	160	185
AL159-22	BE159-22		22	190	215	240
AL159-24	BE159-24		24	210	290	320
AL159-27	BE159-27		27	230	370	401
AL159-30	BE159-30		30	250	475	520
AL159-32	BE159-32		32	270	595	650
AL159-34	BE159-34		34	280	715	780
AL159-36	BE159-36		36	290	730	802

Wrench, Striking Box



ITEM CODE	AL BR	BE CU	SIZE		N.W. (g)	
			S (mm)	L (mm)	AL-BR	BE-CU
AL160-17	BE160-17		17	145	125	140
AL160-19	BE160-19		19	145	125	140
AL160-22	BE160-22		22	155	160	180
AL160-24	BE160-24		24	165	220	250
AL160-27	BE160-27		27	175	315	350
AL160-30	BE160-30		30	185	430	475
AL160-32	BE160-32		32	185	450	490
AL160-34	BE160-34		34	200	490	540
AL160-36	BE160-36		36	205	520	580
AL160-38	BE160-38		38	215	620	680
AL160-41	BE160-41		41	225	680	755
AL160-46	BE160-46		46	235	890	990
AL160-50	BE160-50		50	250	1030	1145
AL160-55	BE160-55		55	1300	1440	274
AL160-60	BE160-60		60	1620	298	1800
AL160-65	BE160-65		65	320	2200	2485
AL160-70	BE160-70		70	2720	3010	350
AL160-75	BE160-75		75	3600	355	3915
AL160-80	BE160-80		80	380	4700	5200
AL160-85	BE160-85		85	4920	5450	410
AL160-90	BE160-90		90	6750	420	6320
AL160-95	BE160-95		95	445	7250	8000
AL160-100	BE160-100		100	9930	11000	520
AL160-105	BE160-105		105	11400	12610	520
AL160-110	BE160-110		110	11750	13000	565
AL160-120	BE160-120		120	13100	14500	
AL160-130	BE160-130		130			
AL160-140	BE160-140		140			
AL160-150	BE160-150		150			

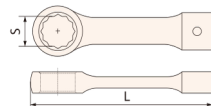
Wrench, Striking Box



ITEM CODE	AL BR	BE CU	SIZE		N.W. (g)	
			S (inch)	L (mm)	AL-BR	BE-CU
AL161-1002	BE161-1002		11/16	145	190	210
1002	AL161-1004		3/4	145	200	220
BE161-1004	AL161-1004		7/8	155	315	350
1006	BE161-1006		1	175	350	410
AL161-1008	BE161-1008		1-1/16	175	430	475
1008	AL161-1010		1-1/8	185	470	500
BE161-1010	AL161-1010		1-3/16	185	710	790
1012	BE161-1012		1-1/4	185	755	920
AL161-1014	BE161-1014		1-3/8	200	1020	890
1014	AL161-1016		1-1/2	215	990	
BE161-1016	AL161-1016		1-5/8	225		
1018	BE161-1018		1-3/4	235		
AL161-1020	BE161-1020		1-13/16	235		
1020	AL161-1022		2	250	1030	1145

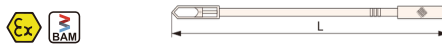
BE161-1022	AL161-1022					
1024	BE161-1024					
AL161-1026	BE161-1026					

Wrench, Striking Box



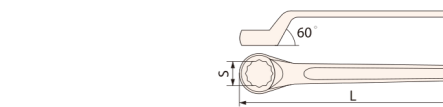
ITEM CODE	AL BR	BE CU	SIZE		N.W. (g)	
			S (mm)	L (mm)	AL-BR	BE-CU
AL162-32	BE162-32		32	180	710	790
AL162-36	BE162-36		36	190	900	990
AL162-41	BE162-41		41	200	1300	1450
AL162-46	BE162-46		46	1600	1770	230
AL162-50	BE162-50		50	1930	260	3060
AL162-55	BE162-55		55	290	3800	4200
AL162-60	BE162-60		60	4900	5430	350
AL162-65	BE162-65		65	6480	380	7130
AL162-70	BE162-70		70	410	9350	10350
AL162-75	BE162-75		75			
AL162-80	BE162-80		80			

Safety Handrail For Striking Wrench



ITEM CODE	AL BR	BE CU	SIZE		N.W. (g)	
			S (mm)	L (mm)	AL-BR	BE-CU
AL160B-1002	BE160B-1002		27-50	500	1000	1100
AL160B-1004	BE160B-1004		50-100	610	1300	1430
AL160B-1006	BE160B-1006		100-150	650	1500	1650

Wrench, Single Box Offset



ITEM CODE	AL BR	BE CU	SIZE		N.W. (g)	
			S (mm)	L (mm)	AL-BR	BE-CU
AL159A-22	BE159A-22		22	190	165	185
AL159A-24	BE159A-24		24	215	235	270
AL159A-27	BE159A-27		27	230	380	430
AL159A-30	BE159A-30		30	255	450	540
AL159A-32	BE159A-32		32	265	770	855
AL159A-36	BE159A-36		36	295	1000	
AL159A-41	BE159A-41		41	330		
AL159A-46	BE159A-46		46	365		
AL159A-50	BE159A-50		50	400	1200	1350
AL159A-55	BE159A-55		55	1800	2000	474
AL159A-60	BE159A-60		60	2260	510	2500
AL159A-65	BE159A-65		65	555	2900	3250
AL159A-70	BE159A-70		70	3090	3450	
AL159A-75	BE159A-75		75			

Wrench, Offset Striking Box



ITEM CODE	AL BR	BE CU	SIZE		N.W. (g)	
			S (mm)	L (mm)	AL-BR	BE-CU
AL162A-27	BE162A-27		27	245	600	670
AL162A-30	BE162A-30		30	270	970	870
AL162A-32	BE162A-32		32	270	950	1060
AL162A-36	BE162A-36		36	280		
AL162A-41	BE162A-41		41	305	1280	1430
AL162A-46	BE162A-46		46	1640	1830	320
AL162A-50	BE162A-50		50	2100	320	2110
AL162A-55	BE162A-55		55	355	2640	2900
AL162A-60	BE162A-60		60	3120	3470	400
AL162A-65	BE162A-65		65	4050	420	4180
AL162A-70	BE162A-70		70	435	4950	5500
AL162A-75	BE162A-75		75	5850	6500	445
AL162A-80	BE162A-80		80	6820	450	7000
AL162A-85	BE162A-85		85	455	7130	7900
AL162A-90	BE162A-90		90	7590	8400	470
AL162A-95	BE162A-95		95	8900		
AL162A-100	BE162A-100		100			
AL162A-110	BE162A-110		110			
AL162A-120	BE162A-120		120			

Wrench, Offset Striking Box



ITEM CODE	AL BR	BE CU	SIZE		N.W. (g)	
			S (mm)	L (mm)	AL-BR	BE-CU
AL162B-24	BE162B-24		24	160	335	370
AL162B-27	BE162B-27		27	180	430	475
AL162B-30	BE162B-30		30	200	555	615
AL162B-32	BE162B-32		32	200	555	615
AL162B-36	BE162B-36		36	220	745	825
AL162B-41	BE162B-41		41	240	860	950
AL162B-46	BE162B-46		46	250	1200	1330
AL162B-50	BE162B-50		50	1450	1650	295
AL162B-55	BE162B-55		55	2000	317	2200
AL162B-60	BE162B-60		60	330	2490	2750
AL162B-65	BE162B-65		65	3060	3385	370
AL162B-70	BE162B-70		70	4655	385	4540
AL162B-75	BE162B-75		75			
AL162B-80	BE162B-80		80			

Wrench, Striking Convex Box



ITEM CODE	AL BR	BE CU	SIZE		N.W. (g)	
			S (mm)	L (mm)	AL-BR	BE-CU
AL163-22	BE163-22		22	165	300	330
AL163-24	BE163-24		24	165	300	330
AL163-27	BE163-27		27	175	335	370
AL163-30	BE163-30		30	185	480	530
AL163-32	BE163-32		32	185	430	475
AL163-36	BE163-36		36	210	670	740
AL163-41	BE163-41		41	227	860	950
AL163-46	BE163-46		46	245	1145	1270
AL163-50	BE163-50		50	1435	1590	267
AL163-55	BE163-55		55	1800	278	1910
AL163-60	BE163-60		60	298	2340	2580
AL163-65	BE163-65		65	2680	2960	326
AL163-70	BE163-70		70	3350		
AL163-75	BE163-75		75			

Offset Slogging Box Wrench (American Type)



ITEM CODE	AL BR	BE CU	SIZE		N.W. (g)	
			S (mm)	L (mm)	AL-BR	BE-CU
AL163A-24	BE163A-24		24	240	860	950
AL163A-27	BE163A-27		27	270	1035	1150
AL163A-30	BE163A-30		30	1340	1480	
AL163A-32	BE163A-32		32	290	1530	1690
36BE163A-36	AL163A-36		36	300	1720	1900
41BE163A-41	AL163A-41		41	1910	2110	340
46BE163A-46	AL163A-46					