



**The top professional supplier in full welding and welding tools**



# Contents

## WELDING EQUIPMENT & TOOLS

### Gas Welding Equipment & tools

1) Cutting Torch	1-13
2) Welding torch	14-22
3) Welding & Cutting Torch	23-25
4) Regulator	26-60
5) Editor 1 Cutting Torch & Regulator & Cutting Welding kit	61-64
6) Editor 2 Cutting torch & Regulator	65-70
7) Editor 3 Regulator	71-77
8) Editor 4 Regulator	78-80
9) Editor 5 Welding & Cutting Torch and Regulator	81-90
10) Flowmeter & Accessories	91-93
11) Pressure Gauge	94-95
12) Thermometer Gauge	96
13) Welding & Cutting kit	97-110
14) Gas Cutting machine	111-120
15) Gas Welding Machine	121
16) Heating Torch	122-128
17) Mapp Torch	129-133
18) Gas Welding Accessories	
-Cutting Nozzle	134-138
-Welding Tip & Heating Nozzle	139
-Welding pipe & Heating Nozzle	140
-Tip Cleaner & Chipping Hammer	141
-Spark Lighter & Flint Stone & Wrench	142
-Soapstone Holder & Soapstone & Localizer & Hose Clamp	143
-Connection	144
-Clamp & Gas Saver & Ferrule & Brush	145
-Flashback Arrestor	146-148
-Gas connector	148
-Gas valve	149-152
-Heating Lamp	153-154
19) Cylinder	155-157

### Electric Welding Equipment & tools

1) Electric Welder	158-170
2) Tig, Mig, Air Plasma Torch	171-176
3) Electric Welding Accessories	
-Electrode Holder	177-180
-Carbon Gouging Holder	181-182
-Cable Joint & Earth Clamp & Charger Clamp	183-186
-Weld Gauge	187
-Electrode Dryer	188-198
-Welding Helmet	199-201
-Automatic Welding Helmet	202-207
-Welding Goggle	208
-Welding Glass	209
-Automatic Welding Lens	210
-Welding Glove	211
-High Temperature Resistant Glove & Fire resistant Suit	212
-Welding Curtain & Welding Blanket	213
-Welding Safety	214
-Work Bag	215

4) Hose	216-217
5) Hose Reel	218
6) Welding Cable	219
7) Welding Material	220-227

## SOLDERING IRON & SOLDERING STATION 228-229

## HEATING GUN & GLUE GUN 230-231

## WORKING SAFETY TOOLS

1) Safety Mask & Cartridge	232
2) Dust Mask	233-234
3) Safety Goggle	235-238
4) Splash-Proof Mask	239
5) Ear Muff & Ear Plug	240
6) Safety Helmet	241-242
7) Working Glove	243-247
8) Safety Belt	248-250
9) Safety Clothes	251-252
10) Safety shoe	253-254
11) Reflective safety Vest	255-256
12) Road Cone	257
13) Warning Light & Warning tape	258

## POWER TOOLS 259-261

## GRINDING WHEEL 262-264

## WIRE BRUSH 265

## TYRE PRESSURE METER & ACCESSORIES

1) Digital Tyre Meter	266
2) Tyre Inflation Gun	267-268
3) Tyre Pressure Meter	269-271
4) Inflatable Bar	272
5) Pencil Tyre Pressure Meter	273
6) Air Chuck & Filter Wrench	274-275

## AUTOMOBILE TOOL 276-280

## JACK & ENGINE CRANE 281-285

## AIR TOOL

1) Spray Gun	286-295
2) Pneumatic Tool	296-298
3) Air Compressor	299-300

## OIL PUMP 301-306

## RIVETER 307

## CLAMP

1) F Clamp	308
2) G Clamp & Gear Puller	309

## GERAMIC TILE CUTTER 310

## LIFTING TOOL 311-312




**Inverter MMA**

Art. No.	ZSW-108A-1	ZSW-108A-2	ZSW-108A-3	ZSW-108A-4	ZSW-108A-5
Welding Current(A)	10-165	10-185	10-205	10-225	10-255
Rated Duty Cycle(%)	80	80	80	80	80
Input Voltage(V)	220	220	220	220	220
Efficiency(%)	85	85	85	85	85
No Load Voltage(V)	58	63	64	64	64
Electrode(MM)	1.6-4.0	1.6-4.0	1.6-5.0	1.6-5.0	1.6-6.0


**Inverter MMA**

Art. No.	ZSW-109A-1	ZSW-109A-2	ZSW-109A-3	ZSW-109A-4	ZSW-109A-5
Welding Current(A)	10-165	10-185	10-205	10-225	10-255
Rated Duty Cycle(%)	80	80	80	80	80
Input Voltage(V)	220	220	220	220	220
Efficiency(%)	85	85	85	85	85
No Load Voltage(V)	58	63	64	64	64
Electrode(MM)	1.6-4.0	1.6-4.0	1.6-5.0	1.6-5.0	1.6-6.0


**Inverter MMA**

Art. No.	ZSW-110A-1	ZSW-110A-2	ZSW-110A-3
Welding Current(A)	1PH/3PH 20-250	3PH 20-315	3PH 20-400
Rated Duty Cycle(%)	60	60	60
Input Voltage(V)	220/380	380	380
Input Capacity(KVA)	9.4	12.8	18
No Load Voltage(V)	54	60	66
Electrode(MM)	1.6-4.0	1.6-5.0	1.6-6.0


**Inverter MMA**

Art. No.	ZSW-81C-1	ZSW-81C-2
Welding Current(A)	20-315	20-400
Rated Duty Cycle(%)	45	35
Input Voltage(V)	380	380
Input Capacity(KVA)	13	18
No Load Voltage(V)	60	60
Electrode(MM)	2.5-5.0	2.5-6.0


**Inverter MMA**

Art. No.	ZSW-82C-1	ZSW-82C-2
Welding Current(A)	20-315	25-400
Rated Duty Cycle(%)	60	60
Input Voltage(V)	380	380
Input Capacity(KVA)	6.5	6.5
No Load Voltage(V)	7.5	7.5
Electrode(MM)	2.5-5.0	2.5-6.0


**Inverter MMA**

Art. No.	ZSW-111A-1	ZSW-111A-2	ZSW-111A-3	ZSW-111A-4
Welding Current(A)	20-315	30-400	40-500	50-630
Rated Duty Cycle(%)	60	60	60	60
Input Voltage(V)	380	380	380	380
Input Capacity(KVA)	13	18	25	35
No Load Voltage(V)	74±5	74±5	74±5	74±5
Electrode(MM)	2.5-5.0	2.5-6.0	2.5-6.0	3.2-8.0




**MMA AC ARC**

Art. No.	ZSW-32C-1	ZSW-32C-2	ZSW-32C-3	ZSW-32C-4	ZSW-32C-5
Welding Current(A)	50-130	60-160	70-180	80-200	90-250
Rated Duty Cycle(%)	10	10	10	10	10
Input Voltage(V)	110/230/400	110/230/400	110/230/400	110/230/400	110/230/400
Input Capacity(KVA)	6	8	9.5	10.7	14.2
No Load Voltage(V)	48	48	50	50	50
Electrode(MM)	2-2.5	2-3.2	2-3.2	2.5-4.0	2.5-5


**BX1**

Art. No.	ZSW-103C-1	ZSW-103C-2	ZSW-103C-3	ZSW-103C-4	ZSW-78C-5
Welding Current(A)	50-130	60-160	70-180	80-200	90-250
Rated Duty Cycle(%)	10	10	10	10	10
Input Voltage(V)	110/230/400	110/230/400	110/230/400	110/230/400	110/230/400
Input Capacity(KVA)	6	8	9.5	10.7	14.2
No Load Voltage(V)	48	48	50	50	50
Electrode(MM)	2-2.5	2-3.2	2-3.2	2.5-4.0	2.5-5.0


**MMA AC ARC**

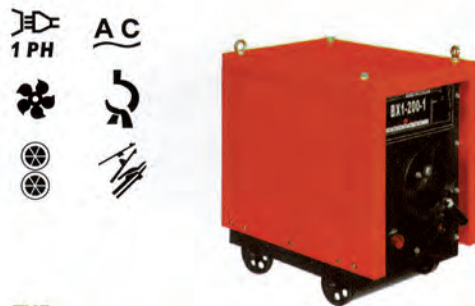
Art. No.	ZSW-33C-1	ZSW-33C-2	ZSW-33C-3	ZSW-33C-4	ZSW-33C-5
Welding Current(A)	50-130	60-160	70-180	80-200	90-250
Rated Duty Cycle(%)	10	10	10	10	10
Input Voltage(V)	110/230/400	110/230/400	110/230/400	110/230/400	110/230/400
Input Capacity(KVA)	6	8	9.5	10.7	14.2
No Load Voltage(V)	48	48	50	50	50
Electrode(MM)	2-2.5	2-3.2	2-3.2	2.5-4.0	2.5-5.0


**MMA AC ARC**

Art. No.	ZSW-104C-1	ZSW-104C-2	ZSW-104C-3	ZSW-104C-4	ZSW-104C-5
Welding Current(A)	50-130	60-160	70-180	80-200	90-250
Rated Duty Cycle(%)	10	10	10	10	10
Input Voltage(V)	110/230/400	110/230/400	110/230/400	110/230/400	110/230/400
Input Capacity(KVA)	7	8	9.5	10.7	14.2
No Load Voltage(V)	48	48	50	50	50
Electrode(MM)	2-2.5	2-3.2	2-3.2	2.5-4.0	2.5-5.0


**MMA AC ARC**

Art. No.	ZSW-34C-1	ZSW-34C-2	ZSW-34C-3	ZSW-34C-4
Welding Current(A)	60-160	70-200	80-250	80-300
Rated Duty Cycle(%)	20	20	20	20
Input Voltage(V)	230/400	230/400	230/400	230/400
Input Capacity(KVA)	8.5	13.5	16.5	22
No Load Voltage(V)	52	58	64	66
Electrode(MM)	1.6-3.2	2.0-4.0	2.5-4.0	2.5-5.0


**ZX5**

Art. No.	ZSW-105C-1	ZSW-105C-2	ZSW-105C-3	ZSW-105C-4	ZSW-105C-5
Welding Current(A)	50-250	60-315	80-400	100-500	125-630
Rated Duty Cycle(%)	20	20	20	20	20
Input Voltage(V)	230/400	230/400	230/400	230/400	230/400
Input Capacity(KVA)	16.5	24	33.4	41.8	52.6
No Load Voltage(V)	55	60	70	76	76
Electrode(MM)	2.5-5	2.5-5	2.5-6	2.5-8	2.5-10




**Bx1**

Art. No.	ZSW-35C-1	ZSW-35C-2	ZSW-35C-3	ZSW-35C-4	ZSW-76C-5
Welding Current(A)	50-250	60-315	80-400	100-500	125-630
Rated Duty Cycle(%)	20	20	20	20	20
Input Voltage(V)	230/400	230/400	400	400	400
Input Capacity(KVA)	16.5	24	33.4	41.8	52.6
No Load Voltage(V)	55	60	70	76	76
Electrode(MM)	1.6-4.0	1.6-5.0	2.5-6.0	2.5-8.0	3.2-10


**BX6 Fortable AC APC**

Art. No.	ZSW-38C-1	ZSW-38C-2	ZSW-38C-3	ZSW-38C-4	ZSW-38C-5
Welding Current(A)	75-160	80-180	80-200	90-250	90-300
Rated Duty Cycle(%)	20	20	20	20	20
Input Voltage(V)	220/380	220/380	220/380	220/380	220/380
Input Capacity(KVA)	9.7	10.5	12.5	15	18
No Load Voltage(V)	48	48	52	52	52
Electrode(MM)	2-3.2	2-3.2	2-4.0	2-4.0	2.5-5.0


**BX6**

Art. No.	ZSW-37C-1	ZSW-37C-2	ZSW-37C-3	ZSW-37C-4	ZSW-37C-5
Welding Current(A)	60-160	80-250	90-300	90-400	100-500
Rated Duty Cycle(%)	20	20	20	20	20
Input Voltage(V)	220/380	220/380	220/380	220/380	220/380
Input Capacity(KVA)	8	16.5	19.8	28.6	38
No Load Voltage(V)	54	55	60	60	60
Electrode(MM)	1.6-4.0	2.5-5.0	2.5-6.0	2.5-8.0	2.5-8.0


**AC/DC MMA**

Art. No.	ZSW-59C-1	ZSW-59C-2
Welding Current(A)	AC80-200/DC60-140	AC90-250/DC70-180
Rated Duty Cycle(%)	AC10%DC10%	AC10%DC10%
Input Voltage(V)	110,230/400	110,230/400
Input Capacity(KVA)	10.7	14.2
No Load Voltage(V)	50-55	50-55
Electrode(MM)	2.5-4.0	2.5-5.0


**ZX5**

Art. No.	ZSW-36C-1	ZSW-36C-2	ZSW-36C-3
Welding Current(A)	AC63-315 DC50-250	AC80-400 DC63-315	AC100-500 DC80-400
Rated Duty Cycle(%)	35	35	40
Input Voltage(V)	380	380	380
No Load Voltage(V)	76-80	76-80	76-80
Electrode(MM)	2.5-5.0	2.5-6.0	2.5-8.0


**ZX5**

Art. No.	ZSW-44C-1	ZSW-44C-2	ZSW-44C-3	ZSW-44C-4	ZSW-44C-5
Welding Current(A)	250	300	400	500	630
Rated Duty Cycle(%)	60	60	60	60	60
Input Voltage(V)	380	380	380	380	380
Input Capacity(KVA)	16	19	24	29	46
No Load Voltage(V)	65	65	65	65	65
Electrode(MM)	1.6-5.0	1.6-5.0	1.6-6.0	1.6-8.0	1.6-8.0




**ZX6**

Art. No.	ZSW-64C-1	ZSW-64C-2	ZSW-64C-3	ZSW-64C-4
Welding Current(A)	80-250	120-315	140-400	140-500
Rated Duty Cycle(%)	35	35	35	35
Input Voltage(V)	380	380	380	380
Input Capacity(KVA)	18	20.5	28	40
No Load Voltage(V)	55-68	55-68	60-80	60-80
Electrode(MM)	2.5-4.0	3.2-5.0	3.2-6.0	3.2-8.0


**Tig/MMA**

Art. No.	ZSW-106C-1	ZSW-106C-2	ZSW-106C-3
Welding Current(A)	5-85	5-120	5-140
Rated Duty Cycle(%)	85@25	120@15	140@10
Input Voltage(V)	115/230	230	230
Input Capacity(KVA)	1.7	2	2.5
No Load Voltage(V)	80	80	80
Electrode(MM)	1.6-2.5	1.6-3.2	1.6-3.2


**Tig**

Art. No.	ZSW-85C-1	ZSW-85C-2
Welding Current(A)	10-160	10-200
Rated Duty Cycle(%)	60	60
Input Voltage(V)	230	230
Input Capacity(KVA)	3.2	4.5
No Load Voltage(V)	43	43
Electrode(MM)	--	--


**AC/DC Tig**

Art. No.	ZSW-66C-1	ZSW-66C-2
Welding Current(A)	10-200	10-250
Rated Duty Cycle(%)	60	60
Input Voltage(V)	230	230
Input Capacity(KVA)	14	22
No Load Voltage(V)	56	56
Electrode(MM)	--	--


**Tig/MMA**

Art. No.	ZSW-99A-1	ZSW-99A-2	ZSW-99A-3
Welding Current(A)	20-160	20-180	20-200
Rated Duty Cycle(%)	60	60	60
Input Voltage(V)	230	230	230
Input Capacity(KVA)	7.5	8.0	10.2
No Load Voltage(V)	60	60	60
Electrode(MM)	1.6-3.2	1.6-4.0	1.6-4.0


**Tig/MMA**

Art. No.	ZSW-29A-1	ZSW-29A-2	ZSW-29A-3
Welding Current(A)	20-160	20-180	20-200
Rated Duty Cycle(%)	60	60	60
Input Voltage(V)	230	230	230
Input Capacity(KVA)	6.0	7.0	7.3
No Load Voltage(V)	60	60	60
Electrode(MM)	1.6-3.2	1.6-4.0	1.6-4.0




**Tig/MMA**

Art. No.	ZSW-88A-1	ZSW-88A-2	ZSW-88A-3
Welding Current(A)	20-160	20-180	20-200
Rated Duty Cycle(%)	60	60	60
Input Voltage(V)	230	230	230
Input Capacity(KVA)	6.0	7.0	7.3
No Load Voltage(V)	60	60	60
Electrode(MM)	1.6-3.2	1.6-4.0	1.6-4.0


**Tig/MMA**

Art. No.	ZSW-84C-1	ZSW-84C-2	ZSW-84C-3
Welding Current(A)	20-160	20-180	20-200
Rated Duty Cycle(%)	60	60	60
Input Voltage(V)	230	230	230
Input Capacity(KVA)	14.4	17.6	19.8
No Load Voltage(V)	56	56	56
Electrode(MM)	1.6-4.0	1.6-4.0	1.6-4.0


**Tig/MMA**

Art. No.	ZSW-63A-1	ZSW-63A-2	ZSW-63A-3
Welding Current(A)	20-250	20-300	20-400
Rated Duty Cycle(%)	60	60	60
Input Voltage(V)	230/380	3-380	3-380
Input Capacity(KVA)	6.3	7.2	13
No Load Voltage(V)	54	55	60
Electrode(MM)	1.6-4.0	1.6-5.0	1.6-6.0


**AC/DC Tig/MMA**

Art. No.	ZSW-100C
Welding Current(A)	10-315
Rated Duty Cycle(%)	70
Input Voltage(V)	380
Input Capacity(KVA)	20
No Load Voltage(V)	60
Electrode(MM)	1.6-5.0


**Tig/MMA**

Art. No.	ZSW-83C-1	ZSW-83C-2
Welding Current(A)	20-315	20-400
Rated Duty Cycle(%)	60	60
Input Voltage(V)	380	380
Input Capacity(KVA)	9.5	14
No Load Voltage(V)	60	60
Electrode(MM)	1.6-5.0	1.6-6.0


**Tig/MMA**

Art. No.	ZSW-67C-1	ZSW-67C-2	ZSW-67C-3
Welding Current(A)	15-250	15-315	15-400
Rated Duty Cycle(%)	60	60	60
Input Voltage(V)	380	380	380
Input Capacity(KVA)	13.5	18	25.8
No Load Voltage(V)	75	75	75
Electrode(MM)	2.5-5.0	2.5-6.0	2.5-7.0




**AC/DC Tig/MMA**

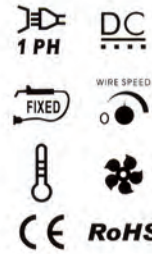
Art. No.	ZSW-54C
Welding Current(A)	TIG10-200 MMA10-150
Rated Duty Cycle(%)	60
Input Voltage(V)	AC220V±15%
Input Capacity(KVA)	28
No Load Voltage(V)	56
Electrode(MM)	1.6-2.5


**AC/DC Tig/MMA/PAC**

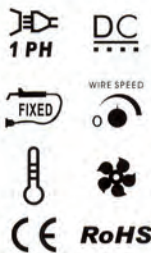
Art. No.	ZSW-107C-1	ZSW-107C-2
Welding Current(A)	TIG10-120 MMA10-150 CUT15-30	TIG10-160 MMA10-160 CUT20-40
Rated Duty Cycle(%)	60	60
Input Voltage(V)	230	230
No Load Voltage(V)	Tig55/MMA55/CUT220	Tig62/MMA62/CUT260


**Flux/Mig/Mag**

Art. No.	ZSW-67A-1	ZSW-67A-2	ZSW-67A-3
Welding Current(A)	40-140	40-160	40-180
Rated Duty Cycle(%)	140A@10% 75A@35%	160A@10% 120A@20%	180A@10% 140A@20%
Input Voltage(V)	230	230	230
No Load Voltage(V)	36	38	40
Welding Wire(MM)	0.6-0.8	0.6-1.0	0.6-1.0


**Flux/Mig/Mag**

Art. No.	ZSW-24C-1	ZSW-24C-2	ZSW-24C-3	ZSW-24C-4	ZSW-24C-5
Welding Current(A)	50-100	50-120	60-140	60-160	60-180
Rated Duty Cycle(%)	80@10%	105@15%	115@15%	140@15%	140@20%
Input Voltage(V)	230	230	230	230	230
Input Capacity(KVA)	2.5	3.6	3.7	5.2	6
No Load Voltage(V)	32	33	34.2	35.8	37
Welding Wire(MM)	0.6-0.8	0.6-0.8	0.6-0.8	0.6-0.8	0.6-0.8

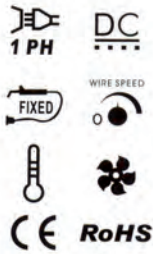

**Flux/Mig/Mag**

Art. No.	ZSW-49C-1	ZSW-49C-2
Welding Current(A)	50-80	50-120
Rated Duty Cycle(%)	10	15
Input Voltage(V)	230	230
Input Capacity(KVA)	2.5	3.6
No Load Voltage(V)	33	37
Welding Wire(MM)	0.8	0.8-0.9

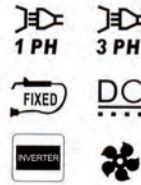

**Flux/Mig/Mag**

Art. No.	ZSW-86C-1	ZSW-86C-2	ZSW-86C-3
Welding Current(A)	50-200	50-250	50-280
Rated Duty Cycle(%)	60	60	60
Input Voltage(V)	380	380	230
Input Capacity(KVA)	17	32	29
No Load Voltage(V)	53	53	52
Welding Wire(MM)	0.8-1.0	0.8-1.0	0.8-1.2




**Flux/Mig/Mag**

Art. No.	ZSW-25C-1	ZSW-25C-2	ZSW-25C-3
Welding Current(A)	50-200	50-240	50-270
Rated Duty Cycle(%)	180@15%	200@15%	230@20%
Input Voltage(V)	230	230	230
Max Absorbed Power(KVA)	7.0	7.7	9.5
No Load Voltage(V)	38	40	42
Welding Wire(MM)	0.8-1.0	0.8-1.0	0.8-1.0


**Inverter Mig/Mag/CO<sub>2</sub>**

Art. No.	ZSW-97A-1	ZSW-97A-2
Welding Current(A)	50-200	50-200
Rated Duty Cycle(%)	60	60
Input Voltage(V)	110V/220V/380V	110V/220V/380V
Input Capacity(KVA)	6.0	6.3
Efficiency(%)	85	85
Welding Wire(MM)	0.8-1.2	0.8-1.2


**Mig/Mag**

Art. No.	ZSW-112A-1	ZSW-112A-2	ZSW-112A-3
Welding Current(A)	60-350	60-500	60-630
Rated Duty Cycle(%)	60	60	60
Input Voltage(V)	380V	380V	380V
Input Capacity(KVA)	13.8	24.3	34.6
Efficiency(%)	85	85	85
Welding Wire(MM)	0.8-1.2	0.8-1.6	0.8-1.6


**Mig/Mag**

Art. No.	ZSW-51C-1	ZSW-51C-2
Welding Current(A)	60-350	80-500
Rated Duty Cycle(%)	60	60
Input Voltage(V)	380	380
Input Capacity(KVA)	18.1	32
No Load Voltage(V)	53	68
Welding Wire(MM)	0.8-1.2	0.8-1.6


**Inverter Plasma Cutting**

Art. No.	ZSW-43C-1	ZSW-43C-2
Welding Current(A)	20-30	20-40
Rated Duty Cycle(%)	60	60
Input Voltage(V)	230	230
Input Capacity(KVA)	3.5	4.8
No Load Voltage(V)	230	230


**Inverter Plasma Cutting**

Art. No.	ZSW-87C
Welding Current(A)	20-60
Rated Duty Cycle(%)	60
Input Voltage(V)	380
Input Capacity(KVA)	7.9
No Load Voltage(V)	236





### Inverter Plasma Cutting

Art. No.	ZSW-88C-1	ZSW-88C-2
Welding Current(A)	20-80	20-100
Rated Duty Cycle(%)	60	60
Input Voltage(V)	380	380
Input Capacity(KVA)	12	15
No Load Voltage(V)	270	270



### Plasma Cutting

Art. No.	ZSW-31C-1	ZSW-31C-2	ZSW-31C-3
Rated Cutting Current(A)	40	63	100
Rated Duty Cycle(%)	60	60	60
Power Voltage(V)(3PH)	380	380	380
Air Pressure(MPA)	0.5	0.5	0.5
Max Cutting Thickness(MM)	15	20	30
Rated Input Capacity(KVA)	11	17	26



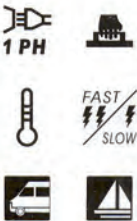
### Spot Welder

Art. No.	ZSW-40C-1	ZSW-40C-2	ZSW-40C-3
Rated Input Capacity(KVA)	10	16	25
Rated Duty Cycle(%)	20	20	20
Input Voltage(V)	220,380	220,380	220,380
Arm Stretch Length(MM)	180	180	200
Welding Thickness(MM)	0.3+0.3-2+2	1+1-2.5+2.5	1+1-4+4
Electrode Pressure(KG)	120	135	155



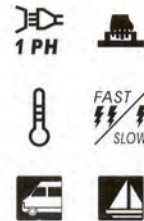
### Spot Welder

Art. No.	ZSW-90A-1	ZSW-90A-2	ZSW-90A-3	ZSW-90A-4	ZSW-90A-5
Rated Duty Cycle(A)	66	105	166	210	263
Rated Duty Cycle(%)	20	20	20	20	20
Input Voltage(V)	380V	380V	380V	380V	380V
Input Capacity(KVA)	25	35	63	80	100
Arm Length(MM)	450	450	450	450	450
Distance Between Arms	220	220	300	300	300



### Battery Charger

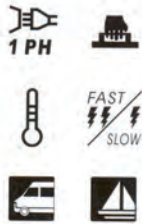
Art. No.	ZSW-41A-1	ZSW-41A-2	ZSW-41A-3	ZSW-41A-4	ZSW-41A-5
Rated Input Voltage(V)	230	230	230	230	230
Charging Voltage & Current(V/A)	6V/7A 12V/3.5A	12V/9A 24V/4A	12V/20A 24V/10A	12V/28A 24V/14A	12V/35.5A 24V/17.5A
Start Current (A)	9	12/6	40	55	75
Rated Input Capacity(Ah)	100	150	350	380	600
Protection Grade	IP21	IP21	IP21	IP21	IP21



### Battery Charger

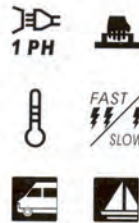
Art. No.	ZSW-78C-1	ZSW-78C-2	ZSW-78C-2	ZSW-78C-2	ZSW-78C-2
Power Voltage(V)	230	230	230	230	230
AC Power Input(W)	45(6V) 90(12V)	180(12V) 240(24V)	300 490	600 1050	800 1400
Rated Duty Current(V/A)	6V/4.5A 12V/4.5A	12V/9.6A 24V/7.5A	12V/16A 24V/14A	12V/29A 24V/25A	12V/40A 24V/35A
Max Charger Current(A)	10	20	30	50	60





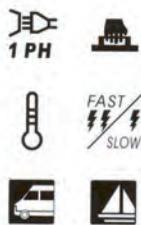
### Battery Charger

Art. No.	ZSW-61A
Rated Input Voltage(V)	230
Charging Voltage(V)	6/12/24/36/48
Start Current(A)	300
Charging Power(Kw)	2.2
Starting Power(Kw)	10
Protection Grade	IP21



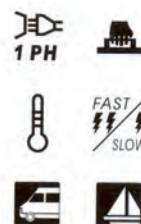
### Battery Charger

Art. No.	ZSW-61C-1	ZSW-61C-2
Power Voltage(V)	230-240	230-240
Frequency(Hz)	50/60	50/60
Ac Power Input(W)	51	51
Max Charger Current(V/A)	DC6V/4A, DC12V/4A	DC6V/4A, DC12V/6A
Rated Output(V/A)	DC6V/2.8A, DC12V/2.8A	DC16V/4A, DC12V/4A
Battery Capacities(Ah)	10-60	15-80



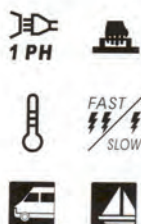
### Battery Charger

Art. No.	ZSW-105A-1	ZSW-105A-2	ZSW-105A-3	ZSW-105A-4	ZSW-105A-5
Rated Input Voltage(V)	230V	230V	230V	230V	230V
Charging Voltage & Current(V/A)	12V/20A 24V/10A	12V/30A 24V/15A	12V/40A 24V/20A	12V/60A 24V/30A	12V/80A 24V/40A
Max Charging Capacity(Ah)	20-400	30-500	40-680	60-800	80-1000
Charging Power(W)	800	1000	1600	2000	2200
Max Starting Current(A)	120	200	250	280	300



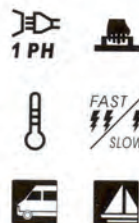
### Battery Charger

Art. No.	ZSW-63C-1	ZSW-63C-2
Power Voltage(V)	230	230
Ac Power Input(W)	700	800
Charging Voltage & Current(V/A)	6V/35A 12V/35A	6V/40A 12V/40A
Capacities(Ah)	20-350	20-400
Start Current(A)	200	220



### Battery Charger

Art. No.	ZSW-45A-1	ZSW-45A-2	ZSW-45A-3	ZSW-45A-4	ZSW-45A-5
Rated Input Voltage(V)	230	230	230	230	230
Charging Voltage & Current(V/A)	12V/50A 24V/25A	12V/70A 24V/35A	12V/80A 24V/40A	12V/90A 24V/45A	12V/100A 24V/50A
Start Current(A)	70	120	160	190	230
Rated Input Capacity (KVA)	3	10	11	12	12.5
Charging Power(W)	1000	1600	1800	2000	2200



### Battery Charger

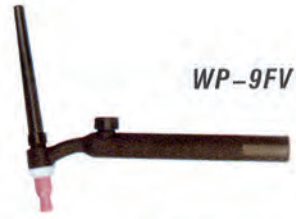
Art. No.	ZSW-45C-1	ZSW-45C-2	ZSW-45C-3	ZSW-45C-4	ZSW-45C-5
Power Voltage(V)	230	230	230	230	230
Charging Voltage & Current(V/A)	12V/33A	12V/38A	12V/42A	12V/46A	12V/56A
Max Charger Current(A)	35	45	60	75	90
Battery Capacities(Ah)	20-200	30-300	40-400	50-500	60-600
Start Current(A)	180	300	400	500	600



**ARGON ARC WELDING TORCH  
GAS-COOLED**

**WP-9**
**ZS-21**  
DC: 125A AC: 80A

**WP-9V**
**ZS-21A**  
DC: 125A AC: 80A

**WP-9F**
**ZS-21B**  
DC: 125A AC: 80A

**WP-9FV**
**ZS-21C**  
DC: 125A AC: 80A

**WP-17**
**ZS-22**  
DC: 150A AC: 120A

**WP-17V**
**ZS-22A**  
DC: 150A AC: 120A

**WP-17F**
**ZS-22B**  
DC: 150A AC: 120A

**WP-17FV**
**ZS-22C**  
DC: 150A AC: 120A

**WP-26**
**ZS-23**  
DC: 250A AC: 200A

**WP-26V**
**ZS-23A**  
DC: 250A AC: 200A

**WP-26F**
**ZS-23B**  
DC: 250A AC: 200A

**WP-26FV**
**ZS-23C**  
DC: 250A AC: 200A

**WATER-COOLED**

**WP-20**
**ZS-24**  
DC: 250A AC: 180A

**WP-20V**
**ZS-24A**  
DC: 250A AC: 180A

**WP-20F**
**ZS-24B**  
DC: 250A AC: 180A

**WP-20P**
**ZS-24C**  
DC: 250A AC: 180A

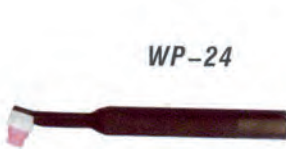


**ARGON ARC WELDING TORCH**
**WATER-COOLED**

**WP-18**
**ZS-25**  
 DC: 350A AC: 250A

**WP-18V**
**ZS-25A**  
 DC: 355A AC: 250A

**WP-18F**
**ZS-25B**  
 DC: 355A AC: 250A

**WP-18P**
**ZS-25C**  
 DC: 355A AC: 250A

**WP-24**
**ZS-26**  
 DC: 180A AC: 150A

**WP-12**
**ZS-27**  
 DC: 500A AC: 350A

**WP-27**
**ZS-28**  
 DC: 500A AC: 350A

**WP-25F**
**ZS-29**  
 DC: 200A AC: 150A

**GAS-COOLED TORCH SET WITH WIRE**

**WP-26V**
**ZS-23D**  
 DC: 250A AC: 200A

**WATER-COOLED TORCH SET WITH WIRE**

**WP-18**
**ZS-25D**  
 DC: 350A AC: 250A

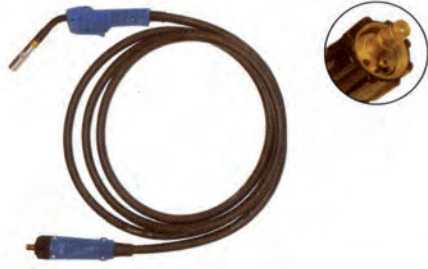
**GAS-COOLED TORCH SET WITH WIRE**

**ZS-37**  
 DC: 250A AC: 200A  
 Europe Type

**WATER-COOLED TORCH SET WITH WIRE**

**ZS-38**  
 DC: 350A AC: 250A  
 Europe Type



**CO<sub>2</sub> SHIELDED WELDING TORCH**
**ZS-18**  
 OTC Type


Type	Wire Dia(mm)
180A	0.8-1.2
200A	0.8-1.2
350A	0.8-1.2
500A	0.8-1.2

**ZS-19**  
 Panasonic Type


Type	Wire Dia(mm)
180A	0.8-1.2
350A	0.9-1.2
500A	1.2-1.6

**ZS-33**  
 Lincoln Type

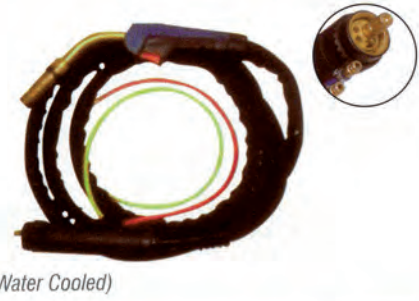

Type	Wire Dia(mm)
200A	0.8-1.0
300A	1.0-1.2
400A	1.0-1.2
500A	1.2-1.6

**ZS-39**  
 Tweco Type


Type	Wire Dia(mm)
200A	0.8-1.0
300A	1.0-1.2
400A	1.0-1.2
500A	1.2-1.6

**ZS-20**  
 Binzel Type







Type	Under CO <sub>2</sub>	Wire Dia(mm)
15AK	180A	0.8-1.2
23AK	200A	0.8-1.2
24KD	200A	0.8-1.2
25AK	230A	0.8-1.2
26KD	290A	0.8-1.2
36KD	340A	0.8-1.2
40KD	500A	0.8-1.2

**ZS-20A**  
 Binzel Type (Water Cooled)






Type	Under CO <sub>2</sub>	Wire Dia(mm)
501D	380A	1.2-2.4



**COLLETS**

Torch	Part No.	In Size(mm)	
WP-9, 9P, 9V, 20, 20P 	13N20	0.020	0.5
	13N21	0.040	1.0
	13N22	1/16	1.6
	13N23	3/32	2.4
	13N24	1/8	3.2
WP-17, 17V, 18, 18V, 26, 26V 	10N22S	0.040	1.0
	10N23S	1/16	1.6
	10N24S	3/32	2.4
	10N25S	1/8	3.2
WP-17, 17V, 18, 18V, 26, 26V 	10N21	0.020	0.5
	10N22	0.040	1.0
	10N23	1/16	1.6
	10N24	3/32	2.4
	10N25	1/8	3.2
	54N20	5/32	4.0
WP-27 	57N45	0.040	1.0
	57N46	1/16	1.6
	57N47	3/32	2.4
	57N48	1/8	3.2
	57N49	5/32	4.0
	57N50	3/16	4.8
WP-12 	85Z14	1/16	1.6
	85Z15	3/32	2.4
	85Z16	1/8	3.2
	85Z17	5/32	4.0
	85Z18	3/16	4.8
	85Z19	1/4	6.4

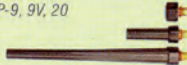


**COLLET BODIES**

Torch	Part No.	In Size(mm)	
WP-9, 9P, 9V, 20, 20P 	13N25	0.020	0.5
	13N26	0.040	1.0
	13N27	1/16	1.6
	13N28	3/32	2.4
	13N29	1/8	3.2
WP-17, 17V, 18, 18V, 18P, 26, 26V 	17CB20	ALL	
WP-17, 17V, 18, 18V, 26, 26V 	10N29	0.020	0.5
	10N30	0.040	1.0
	10N31	1/16	1.6
	10N32	3/32	2.4
	10N28	1/8	3.2
	406488	5/32	4.0
WP-12 	112.08.001	1/16	1.6
	112.08.002	3/32	2.4
	112.08.003	1/8	3.2
	112.08.004	5/32	4.0
	112.08.005	3/16	4.8
	112.08.006	1/4	6.4

**POWER CABLE ADAPTER**

**45V11**

**45V62**
**BACK CAPS**

Torch	Part No.	In Size(mm)
WP-9, 9V, 20 	41V33	Short
	41V35	Medium
	41V24	Long
WP-17, 17V, 18, 18V, 26, 26V 	57Y04	Short
	57Y02S	Long
	57Y02	Long
WP-12 	56Y45	Short
	56Y44	Long

**SWITCH**

Torch	Part No.
	K01

**GAS LENS**

Torch	Part No.	In Size(mm)	
WP-9, 20 	45V41	0.020	0.5
	45V42	0.040	1.0
	45V43	1/16	1.6
	45V44	3/32	2.4
	45V45	1/8	3.2
WP-17, 18, 26 	45V29	0.020	0.5
	45V24	0.040	1.0
	45V25	1/16	1.6
	45V26	3/32	2.4
	45V27	1/8	3.2
WP-17, 18, 26 	45V116	0.020	0.5
		0.040	1.0
		1/16	1.6
WP-17, 18, 26 	45V64	3/32	2.4
	995795	1/8	3.2
	45V63	5/32	4.0
WP-9, 20 	45V116S	0.020	0.5
		0.040	1.0
		1/16	1.6
WP-9, 20 	45V64S	3/32	2.4
	995795S	1/8	3.2
WP-27 	49V22	0.040	1.0
	49V23	1/16	1.6
	49V24	3/32	2.4
	49V25	1/8	3.2
	49V26	5/32	4.0
	49V27	3/16	4.8
	49V28	1/4	6.4

**CABLE LUG**

**ZAO-09**











Size: 35mm, 50mm


**ZAO-10**

Size: 200A, 300A, 500A



**CERAMIC NOZZLES**

Torch	Part No.	Size	Inches	MM
 WP-9, 9P, 9V, 20, 20P	13N08	4	1/4	6
	13N09	5	5/16	8
	13N10	6	3/8	10
	13N11	7	7/16	11
	13N12	8	1/2	13
	13N13	10	5/8	16
 WP-9, 20	796F74	3	0.165	5
	796F75	4	1/4	6
	796F76	5	5/16	8
	796F77	6	3/8	10
 WP-9, 20	796F70	3	0.165	5
	796F71	4	1/4	6
	796F72	5	5/16	8
	796F73	6	3/8	10
 WP-17, 18, 26	10N50	4	1/4	6
	10N49	5	5/16	8
	10N48	6	3/8	10
	10N47	7	7/16	11
	10N46	8	1/2	13
	10N45	10	5/8	16
	10N44	12	3/4	19
 WP-17, 18, 26	10N49L	5L	5/16	8
	10N48L	6L	3/8	10
	10N47L	7L	7/16	11
 WP-9, 20	53N58	4	1/4	6
	53N59	5	5/16	8
	53N60	6	3/8	10
	53N61	7	7/16	11
	53N61S	short	7/16	11
 WP-17, 18, 26	54N18	4	1/4	6
	54N17	5	5/16	8
	54N16	6	3/8	10
	54N15	7	7/16	11
	54N14	8	1/2	13
	54N19	short	11/16	18
 WP-17, 18, 26	54N17L	5L	5/16	8
	54N16L	6L	3/8	10
	54N15L	7L	7/16	11
 WP-9, 12, 17, 18, 26, 27	57N75	6	3/8	10
	57N74	8	1/2	13
	53N88	10	5/8	16
	53N87	12	3/4	19
	53N89	short	short	short
 WP-12	14N57	4	1/4	6
	14N58	5	5/16	8
	14N59	6	3/8	10
	14N60	7	7/16	11
	14N61	8	1/2	13
	14N61-10	10	5/8	16
14N61-12	12	3/4	19	

**ZS-19 TUBE**


Specification	Part No.
200A	TCU 20111
350A	TCU 35022
500A	TCX 00006

**ZS-20 TUBE**


Specification	Part No.
15AK	002.0017
24KD	012.0001
25AK	004.0012
36KD	014.0006
501D	034.0001



**ZS-19 CONTACT TIP**


Specification	Part No.
200A	TET 00837
350A	TET 01054
500A	TET 01266

**ZS-19 NOZZLE**


Specification	Part No.
200A	TGN 01208
350A	TGN 01657
500A	TGN 00004

**ZS-19 GAS DIFFUSER**


Specification	Part No.
350A	TGR 00902
500A	TGR 01007

**ZS-19 INSULATOR**


Specification	Part No.
350A	TFE 35101
500A	TFE 50107

**ZS-20 CONTACT TIP**


Specification	Part No.
15AK	140.0059
24KD / 25AK	140.0242
36KD / 501D	140.0442

**ZS-20 NOZZLE**


Specification	Part No.
15AK	145.0075
24KD	145.0080
25AK	145.0042
36KD	145.0078
501D	ECO 145.0085

**ZS-20 GAS DIFFUSER**


Specification	Part No.
24KD	012.A001
36KD	014.A001
501D	013.A001

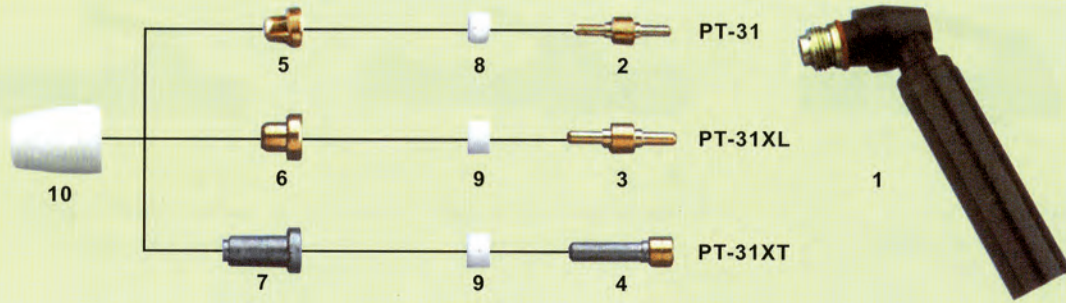
**ZS-20 TIP HOLDER**


Specification	Part No.
15AK	002.0078
24KD	142.0003
25AK	142.0001
36KD	142.0020
501D	142.0022



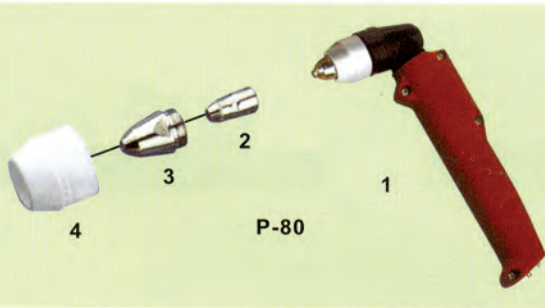
<b>CERAMIC NOZZLES</b>		
<b>Torch</b>	<b>Part No.</b>	<b>In Size(mm)</b>
	21-50	Nozzle Self Insulated
	21-62	Nozzle Self Insulated
	22-50	Nozzle Adjustable
	22-62	Nozzle Adjustable
	24A-50	Nozzle Self Insulated
	24A-62	Nozzle Self Insulated
	23-50	Nozzle Self Insulated
	23-62	Nozzle Self Insulated
	24CT50S	Nozzle Fixed coarse thread
	24CT62S	Nozzle Fixed coarse thread
24CT75S	Nozzle Fixed coarse thread	
	32	Nozzle Insulator Adjustable
	34A	Nozzle Insulator Adjustable
	34CT	Nozzle Insulator Coarse Thread
	35CT	Nozzle Insulator Coarse Thread
	11-23	Contact Tip 0.6mm/.023"
	11-30	Contact Tip 0.8mm/.030"
	11-45	Contact Tip 1.0mm/.040"
	14-23	Contact Tip 1.2mm/.045"
	14-30	Contact Tip 0.6mm/.023"
	14-35	Contact Tip 0.8mm/.030"
	14-40	Contact Tip 0.9mm/.035"
	14-45	Contact Tip 1.0mm/.040"
	14-52	Contact Tip 1.2mm/.045"
	14-116	Contact Tip 1.3mm/1/16"
	14H-30	Contact Tip 0.8mm/.030"
	14H-35	Contact Tip 0.9mm/.035"
	14H-40	Contact Tip 1.0mm/.040"
	14H-45	Contact Tip 1.2mm/.045"
14H-52	Contact Tip 1.3mm/1/16"	
14H-116	Contact Tip 1.6mm/.023"	
14H-564	Contact Tip 2.0mm/5/64"	
	51	Gas Diffuser
	52	Gas Diffuser
	52FN	Gas Diffuser for CT/FN Nozzle
	54A	Gas Diffuser
	64A45	Conductor tube 450
	64A60	Conductor tube 600
	65-45	Conductor tube 450
	65-60	Conductor tube 600
	44-116-15	Steel liner x15ft
	42-3035-15	
	42-4045-15	



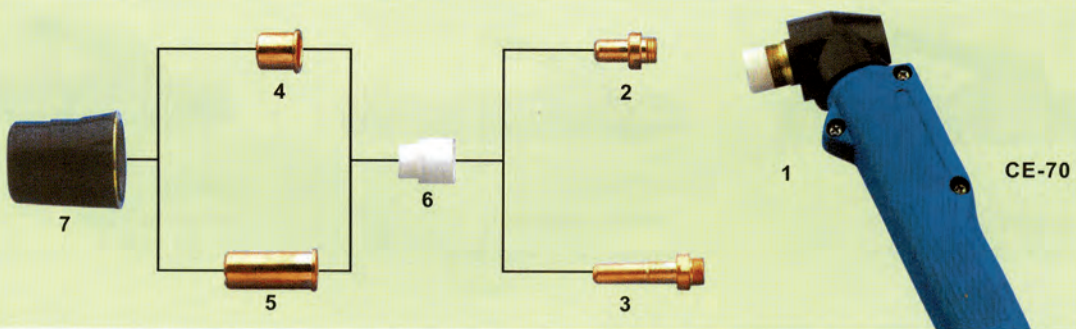
**ZS-34 AIR PLASMA**


Item No.	Part No.	Description
1	20072	Hand Torch Body
2	18205	Electrode
3	19683	Electrode XL
4	20862	Electrode XT
5	18866	Tip, 30-40A, 0.9mm
6	19682	Tip, XL, 30A, 0.96mm

Item No.	Part No.	Description
6a	20079	Tip, XL, 50A, 1.35mm
7	20860	Tip, XT, 30A, 0.96mm
7a	21008	Tip, XT, 40A, 1.07mm
7b	20861	Tip, XT, 50A, 1.17mm
8	18785	Swirl Baffle 4 Holes
9	20463	Swirl Baffle 6 Holes
10	18204	Shield Cup

**ZS-35 AIR PLASMA**


Item No.	Part No.	Description
1	TKU08103	Hand Torch Body
2	TET02033	Electrode
2a	TET02033N	New Electrode
3	TET01305	Tip, $\Phi$ 1.3, 60A
3a	TET01507	Tip, $\Phi$ 1.5, 100A
3b	TET01310	New Tip, $\Phi$ 1.3, 60A
3c	TET01512	New Tip, $\Phi$ 1.5, 100A
4	TGN02004	Shield Cup

**ZS-36 AIR PLASMA**


Item No.	Part No.	Description
1	C1351	Hand Torch Body
2	C1402	Electrode
3	C1403	Long Electrode
4	C1309	Tip, 35A, 0.9mm
4a	C1396	Tip, 50A, 1.0mm
4b	C1308	Tip, 70A, 1.2mm

Item No.	Part No.	Description
5	C1366	Long Tip, 35A, 0.9mm
5a	C1395	Long Tip, 50A, 1.0mm
5b	C1395L	Long Tip, 70A, 1.2mm
6	C1510	Swirl Ring Ceramic
7	C5.710.171	Nozzle Retaining Cap



**ELECTRODE HOLDER**


**ZAD-03**  
*Germany Type* (Brass or Steel)  
 Ampere: 300A, 500A, 600A, 800A



**ZAD-27**  
*Germany Type* (Brass or Steel)  
 Ampere: 300A, 500A, 600A



**ZAD-28**  
*Germany Type* (Brass or Steel)  
 Ampere: 300A, 500A



**ZAD-52**  
*Germany Type* (Brass)  
 Ampere: 500A, 600A



**ZAD-44**  
*Germany Type* (Brass)  
 Ampere: 600A



**ZAD-23**  
*Holland Type* (Brass or Steel)  
 Ampere: 300A, 500A, 600A



**ZAD-24**  
*Holland Type* (Brass or Steel)  
 Ampere: 300A, 500A, 600A



**ZAD-24A**  
*Holland Type* (Brass)  
 Ampere: 300A, 500A, 600A



**ZAD-53**  
*Holland Type* (Brass)  
 Ampere: 300A, 500A



**ZAD-05**  
*Holland Type* (Brass or Steel)  
 Ampere: 300A, 500A, 600A



**ZAD-40**  
*Holland Type* (Brass)  
 Ampere: 300A, 400A, 500A



**ZAD-58**  
*Holland Type* (Brass)  
 Ampere: 500A



**ZAD-25**  
*Holland Type* (Brass)  
 Ampere: 300A, 400A, 500A



**ZAD-08**  
*American Type* (Brass or Steel)  
 Ampere: 300A, 500A



**ZAD-08A**  
*American Type* (Brass or Steel)  
 Ampere: 250A, 500A



**ELECTRODE HOLDER**


**ZAD-06**  
*American Type* (Brass or Steel)  
 Ampere: 200A, 300A, 500A



**ZAD-06A**  
*American Type* (Brass or Steel)  
 Ampere: 500A, 600A



**ZAD-46**  
*American Type* (Brass)  
 Ampere: 300A, 500A



**ZAD-08B**  
*American Type* (Brass)  
 Ampere: 300A, 500A



**ZAD-09**  
*Italy Type* (Brass)  
 Ampere: 300A, 500A



**ZAD-54**  
*Italy Type* (Brass)  
 Ampere: 300A, 500A



**ZAD-43**  
*Italy Type* (Brass)  
 Ampere: 300A



**ZAD-49**  
*Italy Type* (Aluminium)  
 Ampere: 160A



**ZAD-47**  
*Italy Type* (Brass)  
 Ampere: 200A, 250A



**ZAD-55**  
*Italy Type* (Brass)  
 Ampere: 500A



**ZAD-33**  
*Italy Type* (Brass)  
 Ampere: 300A, 500A



**ZAD-42**  
*Italy Type* (Brass)  
 Ampere: 400A



**ZAD-42A**  
*Italy Type* (Brass)  
 Ampere: 300A, 400A, 600A



**ZAD-39**  
*French Type* (Brass)  
 Ampere: 300A, 500A



**ZAD-39A**  
*French Type* (Brass)  
 Ampere: 300A, 500A



**ELECTRODE HOLDER**


**ZAD-21**  
*Europe Type (Brass)*  
 Ampere: 400A, 600A



**ZAD-18**  
*Europe Type (Brass)*  
 Ampere: 400A, 600A



**ZAD-20**  
*Europe Type (Brass)*  
 Ampere: 400A, 600A



**ZAD-50**  
*Europe Type (Brass)*  
 Ampere: 400A



**ZAD-51**  
*Europe Type (Brass)*  
 Ampere: 300A, 500A



**ZAD-32**  
*French Type (Brass)*  
 Ampere: 300A, 500A



**ZAD-15**  
*Korea Type (Brass or Steel)*  
 Ampere: 300A, 500A



**ZAD-16**  
*Korea Type (Brass or Steel)*  
 Ampere: 300A, 500A



**ZAD-16A**  
*Korea Type (Brass)*  
 Ampere: 500A, 600A



**ZAD-11**  
*Japan Type (Brass or Steel)*  
 Ampere: 300A, 500A



**ZAD-12**  
*Japan Type (Brass or Steel)*  
 Ampere: 300A, 500A



**ZAD-12A**  
*Japan Type (Brass)*  
 Ampere: 300A, 500A, 600A



**ZAD-26**  
*Japan Type (Brass or Steel)*  
 Ampere: 300A, 500A



**ZAD-11A**  
*Japan Type (Copper)*  
 Ampere: 500A, 600A



**ZAD-56**  
*Egypt Type (Brass)*  
 Ampere: 500A, 600A

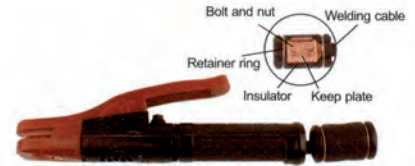


**ELECTRODE HOLDER**

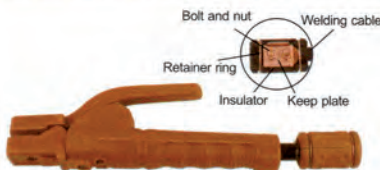

**ZAD-01**  
*Chinese Type* (Light duty) (Brass or Steel)  
 Ampere: 300A, 500A



**ZAD-02**  
*Chinese Type* (Heavy duty) (Brass or Steel)  
 Ampere: 300A, 500A



**ZAD-101**  
*Chinese Type* (Copper)  
 Ampere: 400A, 600A



**ZAD-102**  
*Chinese Type* (Copper)  
 Ampere: 400A, 600A



**ZAD-106**  
*Chinese Type* (Copper)  
 Ampere: 300A, 500A



**ZAD-107**  
*Chinese Type* (Copper)  
 Ampere: 400A, 600A



**ZAD-105**  
*Chinese Type* (Copper)  
 Ampere: 300A, 500A



**ZAD-109**  
*Chinese Type* (Brass or Steel)  
 Ampere: 600A



**ZAD-111**  
*Chinese Type* (Brass or Steel)  
 Ampere: 800A



**ZAD-112**  
*Chinese Type* (Brass or Steel)  
 Ampere: 500A



**ZAD-113**  
*Chinese Type* (Brass or Steel)  
 Ampere: 500A



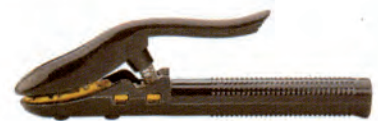
**ZAD-114**  
*Chinese Type* (Brass or Steel)  
 Ampere: 600A



**ZAD-117**  
*Chinese Type* (Brass or Steel)  
 Ampere: 500A



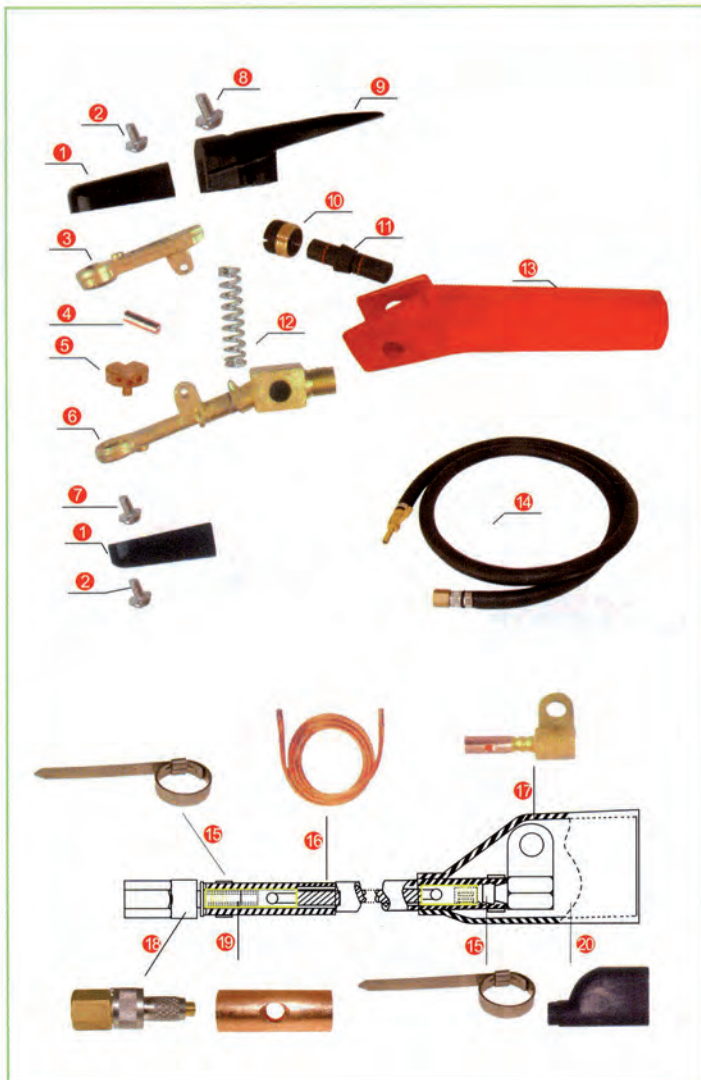
**ZAD-123**  
*Chinese Type* (Brass or Steel)  
 Ampere: 500A



**ZAD-129**  
*Chinese Type* (Brass or Steel)  
 Ampere: 500A



**CARBON GOUGING HOLDER**

**ZCD-03 (K-4000)**
*American Type*


Art. No.	Description
1	Insulated Lid
2	Screw
3	Upper Arm
4	Column Pin
5	Head Ass'y
6	Main Body
7	Screw
8	Screw
9	Level Nip
10	Shaft Bonnet
11	Valve Core
12	Spring
13	Handle
14	Synthetical Rolling Cable
15	Fur Pipe Button
16	Wire
17	Mother Linker
18	Father Linker
19	Copper Sleeve
20	Insulated Cover



**CARBON GOUGING HOLDER**

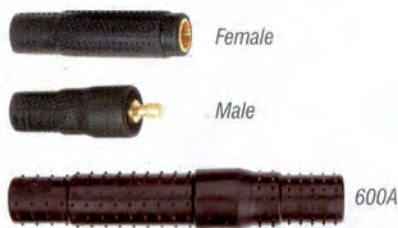
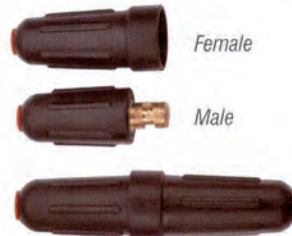
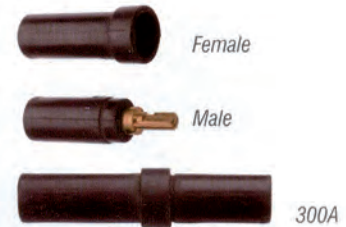

Model	Capacity	Compressed Air Pressure	Flow Rate	Description
ZCD-03	600A, 800A, 1000A, 1200A	80PSI(5.6kg/cm <sup>2</sup> )	36cfm(1m <sup>3</sup> /Min)	Pointed and Flat Carbons: 1/8"(3.2mm) to 5/8"(16mm)
ZCD-04	600A, 800A	80PSI(5.6kg/cm <sup>2</sup> )	36cfm(1m <sup>3</sup> /Min)	Pointed and Flat Carbons: 1/8"(3.2mm) to 3/8"(10mm)
ZCD-05	600A, 800A	80PSI(5.6kg/cm <sup>2</sup> )	36cfm(1m <sup>3</sup> /Min)	Pointed and Flat Carbons: 1/8"(3.2mm) to 1/2"(12.7mm)
ZCD-06	600A, 800A, 1000A, 1200A	80PSI(5.6kg/cm <sup>2</sup> )	36cfm(1m <sup>3</sup> /Min)	Pointed and Flat Carbons: 1/8"(3.2mm) to 5/8"(16mm)
ZCD-07	600A, 800A, 1000A, 1200A	80PSI(5.6kg/cm <sup>2</sup> )	36cfm(1m <sup>3</sup> /Min)	Pointed and Flat Carbons: 1/8"(3.2mm) to 5/8"(16mm)
ZCD-09	600A, 800A	80PSI(5.6kg/cm <sup>2</sup> )	36cfm(1m <sup>3</sup> /Min)	Jointed and Flat Carbons: 1/2"(12.7mm) to 1"(25mm)
ZCD-10	600A, 800A, 1000A, 1200A	80PSI(5.6kg/cm <sup>2</sup> )	36cfm(1m <sup>3</sup> /Min)	Pointed and Flat Carbons: 1/8"(3.2mm) to 5/8"(16mm)



**CABLE JOINT**

**ZAJ-01** Japan Type

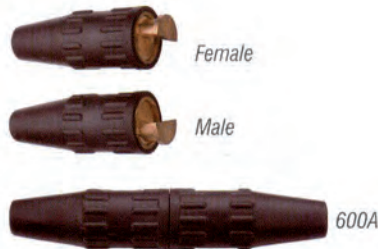
**ZAJ-01A** Japan Type

**ZAJ-02A** Japan Type

**ZAJ-02B** Japan Type

**ZAJ-23** Japan Type

**ZAJ-20** Japan Type

**ZAJ-15** American Type

**ZAJ-17** American Type

**ZAJ-16A** British Type

**ZAJ-16B** British Type

**ZAJ-24** British Type

**ZAJ-21** British Type



**CABLE JOINT**


Female  
10-25mm<sup>2</sup>



Female  
30-50mm<sup>2</sup>



Female  
50-70mm<sup>2</sup>



Female  
70-95mm<sup>2</sup>



Male  
50-70mm<sup>2</sup>

**ZAJ-18 British Type**


Female Male  
10-25mm<sup>2</sup>



Female Male  
35-50mm<sup>2</sup>



Female Male  
50-70mm<sup>2</sup>



Female Male  
70-95mm<sup>2</sup>



Female Male  
95-120mm<sup>2</sup>

**ZAJ-19 British Type**
**EARTH CLAMP**


600A  
British Type  
**ZAE-01**



600A  
British Type  
**ZAE-01E**



600A  
British Type  
**ZAE-01B**



150A  
British Type  
**ZAE-01C**



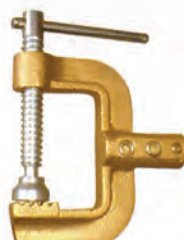
200A  
British Type  
**ZAE-01D**



300A  
Italy Type  
**ZAE-13**



500A  
Italy Type  
**ZAE-13A**



500A  
Italy Type  
**ZAE-13B**



300A  
Japan Type  
**ZAE-27A**



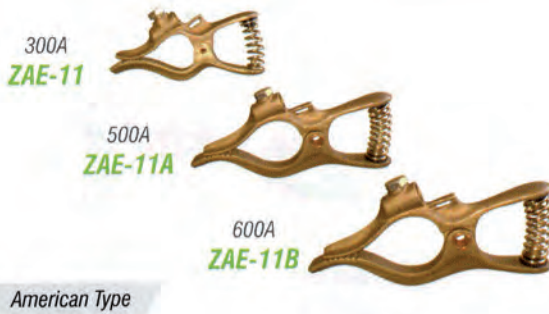
500A  
Japan Type  
**ZAE-27B**



500A  
Japan Type  
**ZAE-06A**



**EARTH CLAMP**





**EARTH CLAMP**

300A  
Holland Type  
**ZAE-07A**



500A  
Holland Type  
**ZAE-07B**



300A  
American Type  
**ZAE-08A**



500A  
American Type  
**ZAE-08B**



200A  
Holland Type  
**ZAE-07C**



300A/500A  
Holland Type  
**ZAE-25**



300A  
Holland Type  
**ZAE-07**



300A/500A  
American Type  
**ZAE-26**



600A  
Australian Type  
**ZAE-15**



600A  
Holland Type  
**ZAE-22**



500A  
Italy Type  
**ZAE-24**

**CHARGER CLAMP**



120A  
**ZAE-10D**



200A  
**ZAE-10A**



200A  
**ZAE-29**



300A  
**ZAE-10E**



500A  
**ZAE-28**



**WELD GAUGE**

**ZWV-01**  
 MG-8 CAM Type

- Measures depth of undercut
- Measures excess weld (capping size)
- Measures fillet length
- Measures fillet throat size
- Measures angle of preparation (0 to 60°)
- Measures misalignment (high-low)


**ZWV-02**  
 Taper

- Checks plate fit-up
- Checks flang fit-up


**ZWV-03**  
 V-WAC

- Checks undercut depth
- Checks amount of porosity per linear inch
- Checks porosity comparison
- Checks crown height

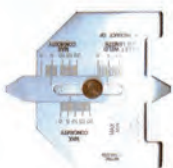

**ZWV-04**  
 Seltor

**ZWV-05**  
 Economy Single Purpose

- Available in standard or metric
- Eliminates rejects, improves productivity
- Internal misalignment
- Rootweld space


**ZWV-06**  
 MG-11 Cam Type

- Permits quick and accurate measuring of the most popular weld fillet sizes in imperial: 1/8"-1" and metric: (3.2-25.4mm)
- All sizes and numerals are etched into the surface for clarity and easier reading.


**ZWV-07**  
 Automatic

- To determine the size of a fillet weld
- To check the permissible tolerance of convexity
- To check the permissible tolerance of convexity and underfill
- To check the permissible tolerance of reinforcement


**ZWV-08**  
 HJC60 Type

- Measurement the height of flat weld
- Measurement of thickness of fillet weld
- Measurement of width of weld seam
- Measurement bevel angle of weldment
- Measurement of undercut depth of weld seam
- Measurement of gap size


**ZWV-09**  
 HJC45 Type

- Measurement plate thickness
- Measurement the height of butt weld bead
- Measurement the fillet weld bead height
- Measurement weldment groove angle
- Measurement weldment gap


**ZWV-10**

- Changes from standard to metric, simply remove gauge body, turn scale over and replace body.
- Measure internal misalignment
- Measure fit-up gap
- Measure bevel on end preparation
- Measure the crown height of the butt welds
- Measure fillet weld size
- Measure scribe line, socket welds
- Measure pipe wall thickness
- Can be calibrated to NBS standard



**ELECTRODE DRYER**

Japan Type



Model	Electrode Capacity	Input Voltage	Power	Max. Temperature	Electrode Length
ZAK-01	5KG	AC 220V AC/DC 60V-110V	500W/50-190W	150±15°C	450mm
ZAK-02	10KG	AC 220V AC/DC 60V-110V	600W/80-240W	150±15°C	450mm
ZAK-08	5KG	AC 220V	500W	50-320°C	450mm
ZAK-07	10KG	AC 220V	800W	50-400°C	450mm
ZAK-18	10KG	AC 220V	800W	50-400°C	450mm
ZAK-31	20KG	AC 220V	1000W	50-400°C	450mm

Japan Type

Europe Type



Model	Electrode Capacity	Input Voltage	Power	Max. Temperature	Electrode Length
ZAK-74	5KG	AC 220V	500W/50W-190W	50-200°C	450mm
ZAK-72	5KG	AC/DC 60V-110V	200W	50-150°C	450mm
ZAK-73	10KG	AC/DC 60V-110V	300W	50-150°C	450mm
ZAK-76	10KG	24V/36V/110V/230V	300W	100°C	450mm
ZAK-77	20KG	AC 230V OR 110V	800W	50-350°C	450mm
ZAK-78	5KG	AC 230V	100W	100°C	450mm



**ELECTRODE DRYER**
*Europe Type*

**ZAK-10**

**ZAK-09**

**ZAK-13**

**ZAK-13A**

**ZAK-79**

**ZAK-80**

Model	Electrode Capacity	Input Voltage	Power	Max. Temperature	Electrode Length
ZAK-10	5KG	AC 220V	600W	50-300°C	450mm
ZAK-09	10KG	AC 220V	700W	50-300°C	450mm
ZAK-13	5KG	AC 220V	600W	50-300°C	450mm
ZAK-13A	10KG	AC 220V	700W	50-300°C	450mm
ZAK-79	5KG	AC220V OR AC/DC 60V-110V	200W	30-110°C	450mm
ZAK-80	20KG	AC 220V	1200W	50-350°C	450mm

*Europe Type*
*French Type*

**ZAK-108**

**ZAK-108A**

**ZAK-112**

**ZAK-41**

**ZAK-42**

Model	Electrode Capacity	Input Voltage	Power	Max. Temperature	Electrode Length
ZAK-108	5KG	AC 220V OR AC/DC 60V-110V	200W	30-110°C	450mm
ZAK-108A	20KG	AC 220V	1200W	50-350°C	450mm
ZAK-112	12KG	AC 220V	800W	50-350°C	450mm
ZAK-41	20KG	AC 220V OR AC/DC 60V-110V	600W	150°C	450mm
ZAK-42	10KG	AC 220V	800W	50-350°C	450mm



**ELECTRODE DRYER**
*Europe Type*

**ZAK-39**
**ZAK-40**
**ZAK-37**
**ZAK-38**
**ZAK-91**
**ZAK-92**

Model	Electrode Capacity	Input Voltage	Power	Max. Temperature	Electrode Length
ZAK-39	5KG	AC 220V OR AC/DC 60V-110V	300W	150°C	450mm
ZAK-40	14KG	AC 220V OR AC/DC 60V-110V	500W	150°C	450mm
ZAK-37	7KG	AC 220V OR AC/DC 60V-110V	300W	150°C	450mm
ZAK-38	8.6KG	AC 220V OR AC/DC 60V-110V	700W	50-300°C	450mm
ZAK-91	25KG	AC 220V	900W	50-300°C	450mm
ZAK-92	50KG	AC 220V	1200W	50-300°C	450mm

*Eurasian Type*

**ZAK-81**
**ZAK-82**
**ZAK-83**
**ZAK-84**
**ZAK-85**
**ZAK-86**

Model	Electrode Capacity	Input Voltage	Power	Max. Temperature	Electrode Length
ZAK-81	2.5KG	AC/DC 60V-110V	100W	150°C	450mm
ZAK-82	4.5KG	AC/DC 60V-110V	200W	150°C	450mm
ZAK-83	5KG	AC 220V OR AC.DC 60V-110V	500W	150°C	450mm
ZAK-84	10KG	AC 220V OR AC.DC 60V-110V	600W	150°C	450mm
ZAK-85	18KG	AC 220V	900W	50-150°C	450mm
ZAK-86	24KG	AC 220V	1000W	50-300°C	450mm



**ELECTRODE DRYER**
*Australian Type*


Model	Electrode Capacity	Input Voltage	Power	Max. Temperature	Electrode Length
ZAK-88	5KG	AC/DC 60V-90V	190W	100°C	450mm
ZAK-59	5KG	AC/DC 220V OR 110V	500W	150°C	450mm
ZAK-59A	5KG	AC/DC 220V OR 110V	500W	50-150°C	450mm
ZAK-61	22KG	AC/DC 220V OR 110V	800W	50-150°C	450mm
ZAK-89	5KG	AC 220V OR 110V	450W	50-180°C	450mm
ZAK-114	22KG	AC/DC 220V OR 110V	800W	50-150°C	450mm

*India Type*
*Danmark Type*


Model	Electrode Capacity	Input Voltage	Power	Max. Temperature	Electrode Length
ZAK-56A	2.5KG	AC 220V OR AC/DC 60V-110V	300W	150°C	450mm
ZAK-56B	2.5KG	AC 220V OR AC/DC 60V-110V	300W	50-200°C	450mm
ZAK-90	5KG	220V	300W	50-150°C	450mm
ZAK-69	10KG	AC230V OR AC/DC110V/36V/24V	270W	200°C	500mm
ZAK-69A	10KG	AC230V OR AC/DC110V/36V/24V	270W	50-200°C	500mm
ZAK-69B	10KG	AC230V OR AC/DC110V/36V/24V	270W	50-200°C	500mm



**ELECTRODE DRYER**
*American Type*


Model	Electrode Capacity	Input Voltage	Power	Max. Temperature	Electrode Length
ZAK-107	5KG	AC 220V	200W	50-150°C	450mm
ZAK-107A	9KG	AC 220V	250W	50-150°C	450mm
ZAK-109	5KG	AC 230V OR 120V	500W/190W	150°C	450mm
ZAK-109A	5KG	AC 230V	100W	50-300°C	450mm
ZAK-03	5KG	AC 220V OR AC/DC 60V-120V	260W/120W	150°C	450mm
ZAK-04	10KG	AC 220V OR AC/DC 60V-120V	380W/180W	150°C	450mm

*American Type*


Model	Electrode Capacity	Input Voltage	Power	Max. Temperature	Electrode Length
ZAK-03A	5KG	AC 230V OR AC/DC 60V-110V	260W/120W	150°C	450mm
ZAK-04A	10KG	AC 230V OR AC/DC 60V-110V	360W/180W	150°C	450mm
ZAK-34	5KG	AC 230V /110V	260W/120W	50-150°C OR 50-200°C	450mm
ZAK-35	10KG	AC 220V/110V	360W/180W	50-150°C OR 50-200°C	450mm
ZAK-52	8KG	120V OR 230V/AC 50/60HZ	130W	50-200°C	450mm
ZAK-53	15KG	120V OR 230V/AC 50/60HZ	300W	50-200°C	450mm



**ELECTRODE DRYER**
*American Type*

**ZAK-34A**

**ZAK-35B**

**ZAK-05**

**ZAK-06**

**ZAK-36A**

**ZAK-36B**

Model	Electrode Capacity	Input Voltage	Power	Max. Temperature	Electrode Length
ZAK-34A	5KG	AC 220V OR AC.DC 110V	500W OR 190W	150°C	500mm
ZAK-35B	10KG	AC 220V OR AC.DC 110V	780W OR 310W	50-150°C	500mm
ZAK-05	6.8KG	AC 230V OR 120V	500W OR 250W	150°C	450mm
ZAK-06	22KG	AC 230V OR 120V	500W OR 250W	50-150°C	450mm
ZAK-36A	22KG	AC 230V OR 120V	500W OR 250W	50-150°C	450mm
ZAK-36B	22KG	AC 230V OR 120V	500W OR 250W	50-150°C	450mm

*American Type*

**ZAK-110**

**ZAK-110A**

**ZAK-111**

**ZAK-111A**

**ZAK-113**


Model	Electrode Capacity	Input Voltage	Power	Max. Temperature	Electrode Length
ZAK-110	15KG	120V OR 230V.AC50/60HZ	300W	150°C	450mm
ZAK-110A	8KG	120V OR 230V.AC50/60HZ	130W	150°C	450mm
ZAK-111	23KG	AC230/120V	400W	50-200°C	450mm
ZAK-111A	54KG	AC 230V	2000W	50-200°C	450mm
ZAK-113	22KG	AC230/120V	500W/250W	50-150°C	450mm



**ELECTRODE DRYER**
*American Type*


Model	Electrode Capacity	Input Voltage	Power	Max. Temperature	Electrode Length
ZAK-93	5KG	AC 220V OR AC/DC 60V-120V	260W/120W	150°C	450mm
ZAK-94	10KG	AC 220V OR AC/DC 60V-120V	360W/180W	150°C	450mm
ZAK-95	22.8KG	AC 230V OR AC 120V	650W	150°C	450mm
ZAK-57	2.5KG	AC.DC 60V-110V	100W	150°C	450mm
ZAK-19	5KG	AC 240V OR AC/DC 60V-110V	270W/120W	150°C	450mm
ZAK-19A	5KG	AC 240V OR AC/DC 60V-110V	270W/120W	50-150°C	450mm

*American Type*


Model	Electrode Capacity	Input Voltage	Power	Max. Temperature	Electrode Length
ZAK-20	10KG	AC 240V OR AC/DC 60V-110V	360W/180W	50-150°C	500mm
ZAK-20A	10KG	AC 240V OR AC/DC 60V-110V	360W/180W	50-150°C	500mm
ZAK-21	25KG	AC 240V OR AC/DC 60V-110V	600W/300W	50-150°C	500mm
ZAK-21A	25KG	AC 240V OR AC/DC 60V-110V	600W/300W	50-150°C	500mm
ZAK-22	25KG	AC 240V OR AC/DC 60V-110V	600W/300W	50-150°C	500mm
ZAK-22A	25KG	AC 220V OR AC/DC 60V-110V	600W/300W	50-150°C	500mm



**ELECTRODE DRYER**
*American Type*

**ZAK-23**

**ZAK-24**

**ZAK-32**

Model	Electrode Capacity	Input Voltage	Power	Max. Temperature	Electrode Length
ZAK-23	70KG	AC 240V OR AC/DC 60V-110V	1000W	50-150°C	500mm
ZAK-24	70KG	AC 240V OR AC/DC 60V-110V	1000W	50-150°C	500mm
ZAK-32	90.7KG	AC 230V OR 120V	1000W OR 500W	50-150°C	450mm

*American Type*

**ZAK-33**

**ZAK-25**

**ZAK-30**

Model	Electrode Capacity	Input Voltage	Power	Max. Temperature	Electrode Length
ZAK-33	90.7KG	AC 230V OR 120V	1000W OR 500W	50-200°C	450mm
ZAK-25	24KG	AC 230V OR 120V	700W/350W	50-200°C	450mm
ZAK-30	6.8KG	AC 230V OR 120V	260W OR 130W	150°C	350mm/400mm/450mm

*Europe Type*

**ZAK-55**

**ZAK-96**

**ZAK-97**

Model	Electrode Capacity	Input Voltage	Power	Max. Temperature	Electrode Length
ZAK-55	135KG	AC230V OR 110V	4800W	500°C	450mm
ZAK-96	15KG	AC230V	800W	50-300°C	500mm
ZAK-97	5KG	AC230V/60V-110V	500W/50W-190W	150°C	450mm



**ELECTRODE DRYER**

Europe Type

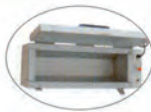

**ZAK-98**

**ZAK-103**

**ZAK-117**

Model	Electrode Capacity	Input Voltage	Power	Max. Temperature	Electrode Length
ZAK-98	10KG	AC 230V OR 110V	700W	50-300°C	450mm
ZAK-103	5KG	AC/DC 60V-110V	54W-234W	150°C	400mm
ZAK-117	20KG	AC220V	500W	50-200°C	450mm

Europe Type


**ZAK-118**

**ZAK-115**

**ZAK-116**

Model	Electrode Capacity	Input Voltage	Power	Max. Temperature	Electrode Length
ZAK-118	6.8KG	AC230V OR 120V	300W	50-150°C	450mm
ZAK-115	6KG	AC230V	1000W	50-320°C	450mm
ZAK-116	8KG	AC230V	700W	50-350°C	450mm

Korea Type


**ZAK-11**

**ZAK-15**

**ZAK-14**

Model	Electrode Capacity	Input Voltage	Power	Max. Temperature	Electrode Length
ZAK-11	5KG	AC 220V OR AC/DC 60V-110V	500W/220V,380W/60V-110V	50-200°C	450mm
ZAK-15	5KG	AC 220V OR AC/DC 60V-110V	500W/220V,380W/60V-110V	50-200°C	450mm
ZAK-14	5KG	AC 220V AC/DC 110V	500W/220V,380W/110V	50-200°C	450mm



**ELECTRODE DRYER**
*Korea Type*

**ZAK-26**

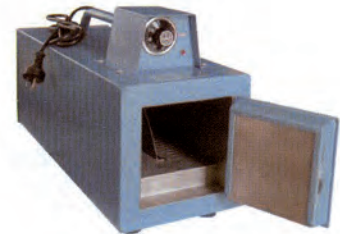
**ZAK-27**

**ZAK-29**

Model	Electrode Capacity	Input Voltage	Power	Max. Temperature	Electrode Length
ZAK-26	5KG	AC220V OR AC/DC 110V	500W/220V, 380W/110V	150°C	450mm
ZAK-27	5KG	AC/DC 60V-110V	54W-234W	150°C	400mm
ZAK-29	8KG	AC230V	400W	50-350°C	450mm

*Australian Type*

**ZAK-119**

**ZAK-99**

**ZAK-100**

Model	Electrode Capacity	Input Voltage	Power	Max. Temperature	Electrode Length
ZAK-119	5KG	AC220V	500W	50-150°C	400mm
ZAK-99	14KG	AC220V/240V	700W	50-300°C	450mm
ZAK-100	14KG	AC220V/240V	700W	50-300°C	450mm

*Australian Type*

**ZAK-101**

**ZAK-102**

**ZAK-104**

Model	Electrode Capacity	Input Voltage	Power	Max. Temperature	Electrode Length
ZAK-101	5KG	AC220V/240V OR 110V/120V	450W	50-180°C	450mm
ZAK-102	10KG	AC220V/240V OR 110V/120V	450W	50-180°C	450mm
ZAK-104	159KG	AC220V/240V	2000W	50-300°C	450mm



**ELECTRODE DRYER**
*Australian Type*

**ZAK-105**

**ZAK-50**

**ZAK-120**

Model	Electrode Capacity	Input Voltage	Power	Max. Temperature	Electrode Length
ZAK-105	130KG	AC220V/240V	3000W	50-400°C	450mm
ZAK-50	55KG	AC110V/220V	1200/2400W	50-250°C	500mm
ZAK-120	50KG	240V/380V	2400W	50-350°C	450mm

*Australian Type*

**ZAK-121**

**ZAK-122**

**ZAK-123**

Model	Electrode Capacity	Input Voltage	Power	Max. Temperature	Electrode Length
ZAK-121	100KG	240V/380V	2400W	50-350°C	450mm
ZAK-122	150KG	240V/380V	2400W	50-350°C	450mm
ZAK-123	300KG	240V/380V	4800W	50-350°C	450mm

**ELECTRODE DRYER OVEN**
*Australian Type*

**ZAK-106**

**ZAK-43**

**ZAK-12A**

Model	Electrode Capacity	Input Voltage	Power	Max. Temperature	Electrode Length
ZAK-106	204KG	AC110V OR 220V	1.6KW	50-300°C	600mm
ZAK-43	159KG, 500KG	AC110V OR 220V	1.6KW/3.2KW	50-300°C	450mm/600mm
ZAK-12A	30KG, 60KG, 100KG	AC220V	1.6KW/3.2KW	50-500°C	450mm



**WELDING HELMETS**
**Function**

- Impact-resistant Shell;
- Wear well, protect face and head from hurt by spark;
- Adapt for welding, cutting, gas cutting, etc;
- Anti-UV and IR lenses adopted can soundly protect user's eyes.





**ELECTRODE DRYER**
*Australian Type*

**ZAK-105**

**ZAK-50**

**ZAK-120**

Model	Electrode Capacity	Input Voltage	Power	Max. Temperature	Electrode Length
ZAK-105	130KG	AC220V/240V	3000W	50-400°C	450mm
ZAK-50	55KG	AC110V/220V	1200/2400W	50-250°C	500mm
ZAK-120	50KG	240V/380V	2400W	50-350°C	450mm

*Australian Type*

**ZAK-121**

**ZAK-122**

**ZAK-123**

Model	Electrode Capacity	Input Voltage	Power	Max. Temperature	Electrode Length
ZAK-121	100KG	240V/380V	2400W	50-350°C	450mm
ZAK-122	150KG	240V/380V	2400W	50-350°C	450mm
ZAK-123	300KG	240V/380V	4800W	50-350°C	450mm

**ELECTRODE DRYER OVEN**
*Australian Type*

**ZAK-106**

**ZAK-43**

**ZAK-12A**

Model	Electrode Capacity	Input Voltage	Power	Max. Temperature	Electrode Length
ZAK-106	204KG	AC110V OR 220V	1.6KW	50-300°C	600mm
ZAK-43	159KG, 500KG	AC110V OR 220V	1.6KW/3.2KW	50-300°C	450mm/600mm
ZAK-12A	30KG, 60KG, 100KG	AC220V	1.6KW/3.2KW	50-500°C	450mm



**WELDING HELMETS**

**ZAM-23** *Italy Type*

**ZAM-21** *Italy Type*

**ZAM-33** *Italy Type*

**ZAM-08** *Italy Type*

**ZAM-08A** *Italy Type*

**ZAM-06** *Japan Type*

**ZAM-47** *Japan Type*

**ZAM-39** *Japan Type*

**ZAM-29** *Japan Type*

**ZAM-71** *Chinese Type*

**ZAM-72** *Chinese Type*

**ZAM-73** *Italy Mini Type*



**WELDING HELMET**

**ZAM-49** Chinese Type

**ZAM-26A** Chinese Type

**ZAM-40** Chinese Type

**ZAM-95** Chinese Type

**ZAM-70** Chinese Type

**ZAM-96** Chinese Type

**ZAM-100** For Sky Working

**ZAM-46** For Sky Working

**ZAM-89** For Sky Working

**ZAM-90** For Sky Working

**ZAM-91** Chinese Type

**ZAM-92** Chinese Type



**AUTOMATIC WELDING HELMET**

**ZAM-14**

**ZAM-14-1**

**ZAM-14-2**

**ZAM-14-3**

**ZAM-14-4**

Light State	Shade Option	Switching Time	Recovery Time	Power Supply	View Window	Filter Size
DIN.4	DIN.9-13	1/25000s	0.6s	Solar Cells + Lithium Cells	90x40mm 98x40mm	110x90mm


**ZAM-87**

**ZAM-87-1**

**ZAM-87-2**

**ZAM-87-3**

**ZAM-87-4**

Light State	Shade Option	Switching Time	Recovery Time	Power Supply	View Window	Filter Size
DIN.4	DIN.9-13	1/25000s	0.6-0.8s	Solar Cells + Lithium Cells	90x40mm 92x42mm 98x48mm	105x86mm



**AUTOMATIC WELDING HELMET**

**ZAM-54**

**ZAM-54-1**

**ZAM-54-2**

**ZAM-54-3**

**ZAM-54-4**

Light State	Shade Option	Switching Time	Recovery Time	Power Supply	View Window	Filter Size
DIN.4	DIN.9-13	1/25000s	0.15-0.80s	Solar Cells + Lithium Cells	90x40mm 92x42mm 98x40mm	110x90mm


**ZAM-78**

**ZAM-78-1**

**ZAM-78-2**

**ZAM-78-3**

**ZAM-78-4**

Light State	Shade Option	Switching Time	Recovery Time	Power Supply	View Window	Filter Size
DIN.4	DIN.9-13	1/25000s	0.6-0.8s	Solar Cells + Lithium Cells	90x40mm 92x42mm 98x48mm	105x86mm



**AUTOMATIC WELDING HELMET**

**ZAM-14A**

**ZAM-14A-1**

**ZAM-14A-2**

**ZAM-14A-3**

**ZAM-14A-4**

Light State	Shade Option	Switching Time	Recovery Time	Power Supply	View Window	Filter Size
DIN.4	DIN.9-13	1/25000s	0.6s	Solar Cells + Lithium Cells	90x40mm 98x40mm	110x90mm


**ZAM-15A**

**ZAM-15A-1**

**ZAM-15A-2**

**ZAM-15A-3**

**ZAM-15A-4**

Light State	Shade Option	Switching Time	Recovery Time	Power Supply	View Window	Filter Size
DIN.4	DIN.9-13	1/25000s	0.6-0.8s	Solar Cells + Lithium Cells	90x40mm 92x42mm 98x48mm	110x90mm



**AUTOMATIC WELDING HELMET**

**ZAM-77**

**ZAM-77-1**

**ZAM-77-2**

**ZAM-77-3**

**ZAM-77-4**

Light State	Shade Option	Switching Time	Recovery Time	Power Supply	View Window	Filter Size
DIN.4	DIN.9-13	1/25000s	0.15-0.80s	Solar Cells + Lithium Cells	92x42mm 100x49mm 100x67mm	110x90mm


**ZAM-84**

**ZAM-84-1**

**ZAM-84-2**

**ZAM-84-3**

**ZAM-84-4**

Light State	Shade Option	Switching Time	Recovery Time	Power Supply	View Window	Filter Size
DIN.4	DIN.9-13	1/25000s	0.15-0.80s	Solar Cells + Lithium Cells	92x42mm 100x49mm 100x67mm	110x90mm



**AUTOMATIC WELDING HELMET**

**ZAM-85**

**ZAM-85-1**

**ZAM-85-2**

**ZAM-85-3**

**ZAM-85-4**

Light State	Shade Option	Switching Time	Recovery Time	Power Supply	View Window	Filter Size
DIN.4	DIN.9-13	1/25000s	0.6-0.80s	Solar Cells + Lithium Cells	90x40mm 92x42mm 98x48mm	105x86mm


**ZAM-101**

**ZAM-101-1**

**ZAM-101-2**

**ZAM-101-3**

**ZAM-101-4**

Light State	Shade Option	Switching Time	Recovery Time	Power Supply	View Window	Filter Size
DIN.4	DIN.9-13	1/25000s	0.6-0.8s	Solar Cells + Lithium Cells	90x40mm 92x42mm 98x48mm	105x86mm



**AUTOMATIC WELDING HELMET**

**ZAM-53**

**ZAM-53-1**

**ZAM-53-2**

**ZAM-53-3**

**ZAM-53-4**

Light State	Shade Option	Switching Time	Recovery Time	Power Supply	View Window	Filter Size
DIN.4	DIN.9-13	1/25000s	0.6-0.80s	Solar Cells + Lithium Cells	90x40mm 92x42mm 98x48mm	110x90mm


**ZAM-83A**

**ZAM-83**

**ZAM-19**

Light State	DIN.4
Shade Option	DIN.9-13
Switching Time	1/25000s
Recovery Time	0.6s
Power Supply	Solar Cells +Lithium Cells
View Window	90x40mm 98x40mm
Filter Size	110x90mm

Light State	DIN.4
Shade Option	DIN.9-13
Switching Time	1/25000s
Recovery Time	0.6s
Power Supply	Solar Cells +Lithium Cells
View Window	90x40mm 98x40mm
Filter Size	110x90mm

Light State	DIN.4
Shade Option	DIN.9-13
Switching Time	1/10000s
Recovery Time	0.6s
Power Supply	AAA
View Window	90x40mm
Filter Size	120x95mm



**WELDING GOGGLES**
**Function**

- Flip design with open-close locking positioning, easy to use;
- Inner lenses are clear, outer lenses adopt colored inorganic glass;
- Adapt to safeguard in gas welding, brazing, gas cutting, etc;
- Protection grade: 5th grade.


**ZAR-01B** 2000

**ZAR-04B**

**ZAR-02** 1000

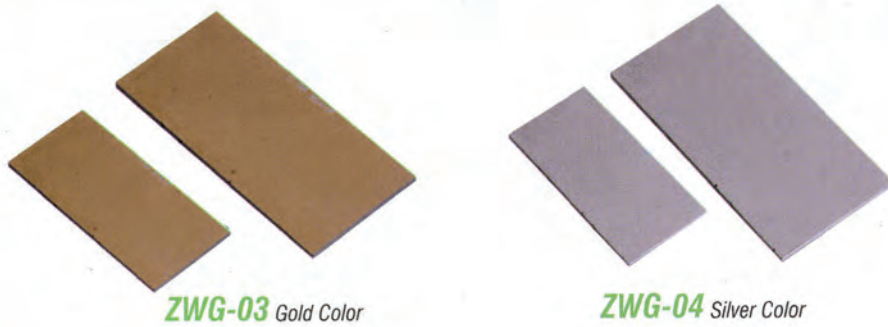
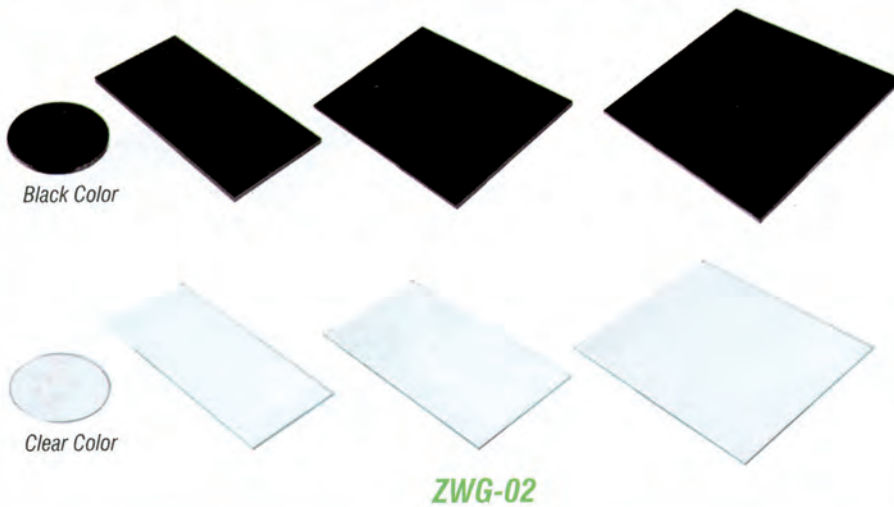
**ZAR-01**

**ZAR-01C**

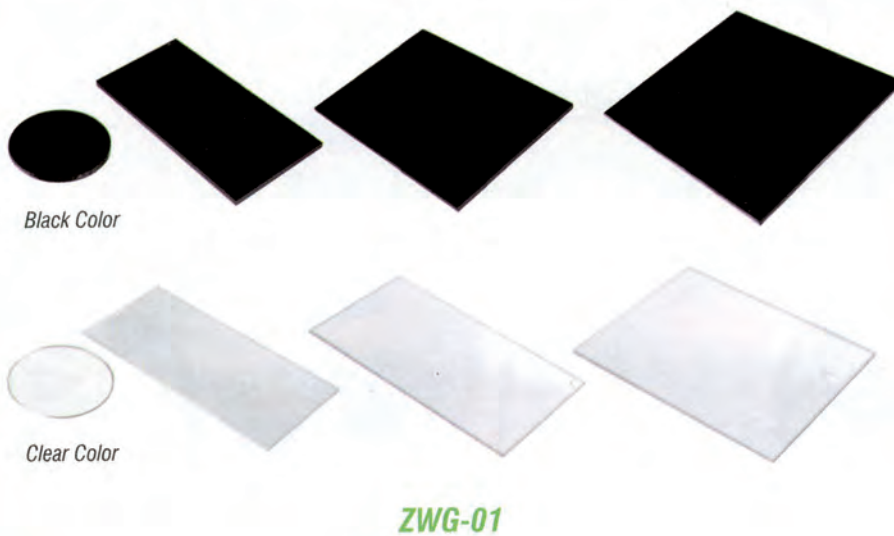
**ZAR-03B**

**ZAR-05**



**WELDING GLASS**

**Size**

- 100×50×3mm
- 105×50×3mm
- 108×50×3mm
- 110×50×3mm
- 110×55×3mm
- 110×60×3mm
- 98×75×3mm
- 110×51×3mm
- 100×80×3mm
- 110×80×3mm
- 108×83×3mm
- 110×90×3mm
- 50×3mm
- 2"×4-1/4"×3mm
- 4-1/2"×5-1/4"×3mm
- 4-1/4"×3-1/4"×3mm

**WELDING LENS OF POLYCARBONATE**

**Size**

- 100×50mm
- 105×50mm
- 108×50mm
- 110×50mm
- 110×55mm
- 110×60mm
- 98×75mm
- 110×51mm
- 100×80mm
- 110×80mm
- 108×83mm
- 110×90mm
- Φ50mm



**AUTOMATIC WELDING LENS**

**ZWG-05**

Filter Model	ZWG-05
Filter Size (mm)	110x90x9
Viewing Area (mm)	98x40
Light State	DIN.3 or DIN.4
Dark State	DIN.9-13
Switch Time (s)	1/25000
Delay Times (s)	0.6
Power On/off	Fully Automatic
Power Supply	Solar-li. No battery change required
Extra Functions	Sensitivity adjustment small current welding, Switching set for less than 20 amps, TIG welding.


**ZWG-06**

Filter Model	ZWG-06
Filter Size (mm)	110x90x9
Viewing Area (mm)	90x40
Light State	DIN.3 or DIN.4
Dark State	DIN.9-13
Switch Time (s)	1/25000
Delay Times (s)	0.6
Power On/off	Fully Automatic
Power Supply	Solar-li. No battery change required
Extra Functions	Low / High


**ZWG-07**

Filter Model	ZWG-07
Filter Size (mm)	110x90x9
Viewing Area (mm)	92x42
Light State	DIN.3 or DIN.4
Dark State	DIN.9-13
Switch Time (s)	1/10000
Delay Times (s)	0.25-0.70
Power On/off	Fully Automatic
Power Supply	Li-Mi & Solar Combination
Sensitivity Adjustment	Low / High


**ZWG-08**

Filter Model	ZWG-08
Filter Size (mm)	108x50.8x5
Viewing Area (mm)	98x35
Light State	DIN.3
Dark State	DIN.11
Switch Time (s)	1/2000
Delay Times (s)	0.60-0.80
Power On/off	Fully Automatic
Power Supply	Rechargeable Lithium Battery & Solar Combination
Sensitivity Adjustment	Low / High



WELDING GLOVES



ELECTRIC WELDING EQUIPMENT & TOOLS



**WELDING GLOVES**

**ZAG-10A**

**ZAG-35**

**ZAG-37**
**HIGH TEMPERATURE RESISTANT GLOVE**

**ZAG-50**

Size: 12" 15" 18"  
 Material: fiberglass  
 Service Temperature: 550°C


**ZAG-52**

Size: 12" 15" 18"  
 Material: Asbestos  
 Service Temperature: 500°C


**ZAG-53**

Size: 12" 15" 18"  
 Material: Aluminum Foil  
 Service Temperature: 500°C

**FIRE RESISTANT SUIT**

**ZAG-56**

Material: aluminum Foil  
 Service Temperature: 550°C


**ZAG-57**

Material: ceramic Fiber  
 Service Temperature: 1000°C


**ZAG-58**

Material: fiberglass  
 Service Temperature: 550°C



**WELDING CURTAIN**

**ZAG-63** SIZE: 1.8M×1.8M/0.4MM & 1.8M×2.4M/0.4MM

**WELDING BLANKET**

**ZAG-38**

**ZAG-39**

**ZAG-40**

**ZAG-41**

**ZAG-42**

**ZAG-43**

**ZAG-47**

**ZAG-48**

**ZAG-49**

Model	Characteristic	Service Temperature	Thickness	Weight	Size
ZAG-38	E-glass Fiberglass	550°C	0.65mm	660g/m <sup>2</sup>	1M×1M
ZAG-39	Silicon Coating	550°C	0.8mm	880g/m <sup>2</sup>	1M×1M
ZAG-40	High Silica Fiberglass	1100°C	0.6mm	600g/m <sup>2</sup>	0.9M×1M
ZAG-41	Polyurethane	550°C	0.45mm	450g/m <sup>2</sup>	1M×1M
ZAG-42	Soakage Liquor	800°C	0.65mm	660g/m <sup>2</sup>	1M×1M
ZAG-43	Aluminum Coated	550°C	0.43mm	450g/m <sup>2</sup>	1M×1M
ZAG-47	Neoprene Coated	550°C	0.56mm	560g/m <sup>2</sup>	1M×1M
ZAG-48	Vermiculite Coated	750°C	0.92mm	720g/m <sup>2</sup>	1M×1M
ZAG-49	Acrylic Coated	550°C	0.48mm	450g/m <sup>2</sup>	1M×1M



WELDING SAFETY



ZAG-19



ZAG-59



ZAG-60



ZAG-25



ZAG-61



ZAG-66



ZAG-62



ZAG-17



ZAG-65



ZAG-64



ZAG-18



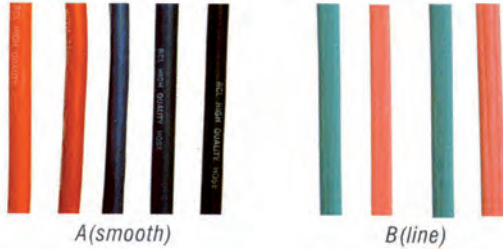
**WORK BAG**





**ZAP-11 SINGLE WELDING RUBBER HOSE**

Temperature: -25°C + 60°C ISO3821



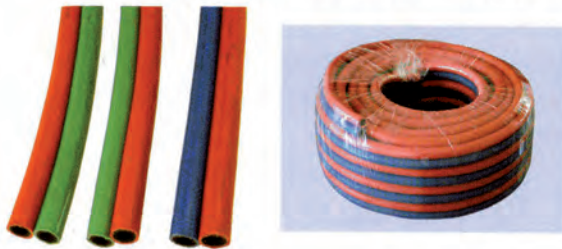
A(smooth)

B(line)

ID(mm)	Max Wall(mm)	WP(bar)	BP(bar)
5	3.2	20	60
6	3.5	20	60
8	3.5	20	60
9	3.5	20	60
10	3.5	20	60
13	4.5	20	60

**ZAP-11C TWIN WELDING RUBBER HOSE**

Temperature: -25°C + 60°C ISO3821



ID(mm)	Max Wall(mm)	WP(bar)	BP(bar)
5	3.2	20	60
6	3.5	20	60
8	3.5	20	60
9	3.5	20	60
10	3.5	20	60
13	4.5	20	60

**ZAP-19 PVC HIGH PRESSURE SPRAY HOSE**

Temperature: -25°C + 60°C



Note: 1Mpa = 10bar ≈ 10kg/cm² ≈ 143psi

ID(mm)	Max Wall(mm)	WP(bar)	BP(bar)
6	3.0	20	60
8	3.5	20	60
8.5	3.25	20	60
10	3.5	20	60

**ZAP-21 PVC WATER HOSE**


A(for garden)

B(for water)

ID(mm)	Max Wall(mm)	WP(bar)	BP(bar)
5	2.5	12	36
6	2.5	10	30
8	2.5	10	30
10	2.5	9	27
13	2.5	8	24
16	2.5	7	21
19	3.0	7	21
25	3.0	6	18
32	3.5	5	15

Note: 1Mpa = 10bar ≈ 10kg/cm² ≈ 143psi



**ZAP-12 AIR HOSE**
**Temperature: -25°C~60°C**

*A (two textile)*

*B (one textile)*


ID(mm)	Max Wall(mm)	TEXTILE(B)	WP(bar)	BP(bar)
5	3.5	1.0	15-20	45-60
6	3.5	1.0	15-20	45-60
8	3.5	1.0	15-20	45-60
10	3.5	1.0	15-20	45-60
13	4.0	2.0	15-20	45-60
16	4.5	2.0	15-20	45-60
19	5.0	2.0	15-20	45-60
25	5.5	2.0	15-20	45-60
32	6.0	2.0	10	30
38	6.5	2.0	10	30

**ZAP-23 OIL RESISTANT HOSE**
**Temperature: -10°C~60°C**


ID(mm)	Max Wall(mm)	WP(bar)	BP(bar)
6	3.25	20	60
8	3.25	20	60
10	3.5	20	60
13	4.5	20	60
16	4.75	20	60
19	5.25	20	60
25	6.25	20	60

**ZAP-25 SAE 100 R-1 AT DIN/EN 853 1ST SERIES**
**Temperature: -40°C~100°C**


In	Hose Size ID		Hose OD		Max. Working Pressure		Min. Bend Radius		Min. Burst Pressure	
	Din	Dash Size(mm)	in	mm	psi	mpa	in	mm	psi	mpa
3/16	4.8	0.47	11.9	3630	25	3.5	89	14520	100.1	
1/4	6.4	0.534	13.6	3270	22.5	4	102	13080	90.2	
5/16	7.9	0.595	15.1	3120	21.5	4.5	114	12480	86	
3/8	9.5	0.689	17.5	2615	18	5	127	10460	72.1	
1/2	12.7	0.813	20.7	2320	16	7	178	9280	64	
5/8	15.9	0.938	23.8	1890	13	8	203	7560	52.1	
3/4	19	1.096	27.8	1530	10.5	9.5	241	6120	42.2	
1	25.4	1.408	35.8	1280	8.8	12	305	5120	35.3	
1 1/4	31.8	1.696	43.1	920	6.3	16.5	419	3680	25.4	
1 1/2	38.1	1.971	50.1	730	5	20	508	2920	20.1	
2	50.8	2.503	63.6	580	4	25	635	2320	16	

**ZAP-25A SAE 100 R-2 AT DIN/EN 853 2ST SERIES**
**Temperature: -40°C~100°C**


In	Hose Size ID		Hose OD		Max. Working Pressure		Min. Bend Radius		Min. Burst Pressure	
	Din	Dash Size(mm)	in	mm	psi	mpa	in	mm	psi	mpa
3/16	4.8	0.484	12.3	6000	41.4	3.5	89	24000	165.5	
1/4	6.4	0.593	15.1	5800	40	4	102	23200	160	
3/8	9.5	0.753	19.1	4800	33.1	5	127	19200	132.4	
1/2	12.7	0.875	22.2	4000	27.6	7	178	16000	110.3	
5/8	15.9	1	25.4	3630	25	8	203	14520	100.1	
3/4	19	1.157	29.4	3120	21.5	9.5	241	12480	86	
1	25.4	1.5	38.1	2400	16.5	12	305	9600	66.2	
1 1/4	31.8	1.877	47.7	1820	12.5	16.5	419	7280	50.2	
1 1/2	38.1	2.129	54.1	1310	9	20	508	5240	36.1	
2	50.8	2.627	66.7	1160	8	25	635	4640	32	




**ZAP-26**

*Compact for application with critical space requirement.  
 Heavy-duty steel construction with corrosion resistant powder coating.  
 L-Shaped base with groove reinforcement ensures stable support.  
 Four direction non-snag rollers reduce hose wear abrasion.  
 Multi-position ratchet lock and easy tension adjustment.  
 Spring fully enclosed and lubricated.  
 Full flow swivel prevents leakage.  
 Guide arm adjustable for handling up to 9 positions permits wall, ceiling or floor mount.*

Length	I.D.	Material	W.P.	Connection	
				Inlet	Outlet
8m	3/8"	Rubber	20Bar	F3/8" G	M3/8" G
10m	1/4", 3/8", 1/2"	Rubber, PVC	20Bar	F1/4" G, F3/8" G, F1/2" G	M1/4" G, M3/8" G, M1/2" G
15m	1/4", 3/8", 1/2"	Rubber, PVC	20Bar	F1/4" G, F3/8" G, F1/2" G	M1/4" G, M3/8" G, M1/2" G
20m	3/8", 1/2"	Rubber, PVC	20Bar	F3/8" G, F1/2" G	M3/8" G, M1/2" G
30m	3/8"	Rubber, PVC	20Bar	F3/8" G	M3/8" G


**ZAP-27**

*Heavy ribbed steel plate to ensure strong support.  
 Spring locates in the middle to ensure stability of the reel.  
 Four-direction non-snag hose rollers reduce hose wear.  
 Adjustable arm guide (wall, floor, ceiling, and pit)  
 Elegant appearance, dual pedestal base.  
 Special swivel joint for easy maintenance and repair.  
 Ball bearing swivel joint structure, largely reducing the friction between swivel spool and swivel body.*

Length	I.D.	Material	W.P.	Connection	
				Inlet	Outlet
10m	1/2"	Rubber	20Bar	F1/2" G	M1/2" G
15m	3/8", 1/2"	Rubber	20Bar	F3/8" G, F1/2" G	M3/8" G, M1/2" G
18m	3/8"	Rubber	20Bar	F3/8" G	M3/8" G


**ZAP-28**

*1/4" diameter oxygen and acetylene twin hose  
 Industrial grade steel reel  
 Leak proof double O-ring seals  
 Four direction non-snag rollers  
 Multiple mounting positions  
 Whip and hose stop*

Length	I.D.	Material	W.P.	Connection	
				Inlet	Outlet
8m	1/4"	Rubber	20Bar	F1/4" G	M1/4" G
10m	1/4"	Rubber	20Bar	F1/4" G	M1/4" G
15m	1/4"	Rubber	20Bar	F1/4" G	M1/4" G
20m	1/4"	Rubber	20Bar	F1/4" G	M1/4" G
30m	1/4"	Rubber	20Bar	F1/4" G	M1/4" G



WELDING CABLE (16MM<sup>2</sup>, 25MM<sup>2</sup>, 35MM<sup>2</sup>, 50MM<sup>2</sup>, 70MM<sup>2</sup>, 95MM<sup>2</sup>, 120MM<sup>2</sup>, #4, #3, #2, #1, 1/0, 2/0, 3/0, 4/0)



**ZAP-15** For natural rubber cover, black color



**ZAP-15A** For Chemical rubber cover, black color



Strong PVC packing



**ZAP-15B** For PVC cover

**ZAP-15C** For PVC cover



Steel real packing

BRITISH STANDARD (BS)			NON-BRITISH STANDARD			USA STANDARD		
Size (mm <sup>2</sup> )	Construction of core NO./mm	Max outer dia (mm)	Size (mm <sup>2</sup> )	Construction of core NO./mm	Max outer dia (mm)	Size (mm <sup>2</sup> )	Construction of core NO./mm	Max outer dia (mm)
10	322/0.20	8.5	16	513/0.16	10	4#	420/0.25	11.4
16	513/0.20	10	25	770/0.16	11.5	3#	532/0.25	12.2
25	783/0.20	11.5	35	1107/0.16	13	2#	665/0.25	14
35	1107/0.20	13	50	1596/0.16	15	1#	836/0.25	15.2
50	1566/0.20	15	70	2220/0.16	17	1/0	1064/0.25	16.7
70	2214/0.20	17	95	2997/0.16	19.5	2/0	1323/0.25	18.5
95	2997/0.20	19.5	NOTE: All other Non-standard cable should indicate the copper wire quantity and each wire diameter.			3/0	1666/0.25	20.3
120	1702/0.30	22.5				4/0	2107/0.25	22.1



**CO<sub>2</sub> GAS SHIELDED WELDING WIRE**

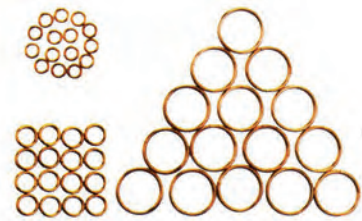
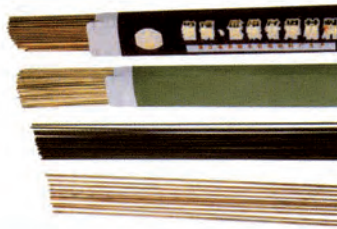
**ZWM-01**

Specification:  $\Phi$ 0.8, 0.9, 1.0, 1.2, 1.6  
Weight: 1kg/tray, 5kg/tray, 15kg/tray

**ZWM-01A**

Specification:  $\Phi$ 1.6, 2.0, 2.5, 3.2, 4.0, 5.0  
Weight: 5kg/box

CO <sub>2</sub> Gas Shielded Welding Wire	Chemical Composition Of Deposited Metal(%)							
Name Standard	C	Mn	Si	S	P	Ti	Cu	Other
AWS ER70S-6	0.08	1.52	0.92	0.015	0.020	—	0.20	≤0.50
GB/T ER49-1	≤0.11	1.80-2.10	0.65-0.95	—	—	—	—	—

**PHOS-COPPER-SILVER BRAZING ALLOYS**

**ZWM-14**

Phos-copper Brazing	Chemical Composition Of Deposited Metal(%)				Melting Range(°C)	
Name Standard	Cu	P	Sn	Impurities Total	Solidus	Liquidus
AWS BCup-2	Remaining Sum	6.8-7.5	—	<0.10	710	800

Phos-copper-silver Brazing Alloys	Chemical Composition Of Deposited Metal(%)				Melting Range(°C)	
Name Standard	Cu	Ag	P	Impurities Total	Solidus	Liquidus
AWS Bcup-6	Remaining Sum	1.8-2.2	6.8-7.2	<0.10	645	790
AWS Bcup-3	Remaining Sum	4.8-5.2	5.8-6.7	<0.10	645	815

Silver Brazing Alloys	Chemical Composition Of Deposited Metal(%)							Melting Range(°C)	
Name Standard	Ag	Cu	Zn	Cd	Sn	Ni	Impurities Total	Solidus	Liquidus
AWS Bag-1	44.0-46.0	14.0-16.0	14.0-18.0	23.0-25.0	—	—	<0.10	605	620
AWS Bag-2	34.0-36.0	27.0-28.0	19.0-23.0	17.0-19.0	—	—	<0.10	605	700
AWS Bag-4	39.0-41.0	29.0-31.0	26.0-30.0	—	—	1.5-2.5	<0.10	670	780
AWS Bag-5	44.0-46.0	29.0-31.0	23.0-27.0	—	—	—	<0.10	663	743
AWS Bag-6	49.0-51.0	33.0-35.0	14.0-18.0	—	—	—	<0.10	690	775
AWS Bag-7	55.0-57.0	21.0-23.0	15.0-19.0	—	4.5-5.5	—	<0.10	618	652
AWS Bag-20	29.0-31.0	37.0-39.0	30.0-40.0	—	—	—	<0.10	677	766
AWS Bag-24	49.0-51.0	19.0-21.0	26.0-30.0	—	—	1.5-2.5	<0.10	660	707
AWS Bag-27	24.0-26.0	34.0-36.0	24.5-28.5	12.5-14.5	—	—	—	605	745
AWS Bag-35	34.0-36.0	31.0-33.0	31.0-35.0	—	—	—	<0.10	621	732



**COPPER ALLOY WELDING ROD AND WIRE**

**ZWM-02**

**ZWM-02A**

**ZWM-02B**

Name Standard	Standard(aws)	Main Composition(%)					Characteristics&application
S201	ERCu	Sn1	Si0.3	Mn0.3	—	Cu Rem.	Good mechanical properties and crack resistance. Gas welding and argon arc welding of red copper
S211	ERCuSi-AL	—	Si3	Mn1	—	Cu Rem.	Good mechanical properties. Argon arc welding of copper alloys and MIG brazing of steel.
S212	ERCuSn-A	Sn5	P0.2	—	—	Cu Rem.	To argon arc weld copper alloy or to resurface Steel, and to get good resistance to wear
S213	ERCuSn-C	Sn8	P0.2	—	—	Cu Rem.	Wear resistance. Argon arc welding of copper alloys and surfacing of steel.
S214	ERCuA1-A1	—	—	A17.5	—	Cu Rem.	Wear and corrosion resistance. Argon arc welding of copper alloys and surfacing of steel.
S215	ERCuA1-A2	Ai9	—	—	—	Cu Rem.	To argon arc weld copper alloy or to resurface Steel, and to get good resistance to wear and corrosion
S221	—	Sn1	Si0.3	—	Zn Rem	Cu60	Melting point is about 890°C. Gas welding and carbon arc welding of brass, also braze welding of copper, steel and cast iron.
S221F	—	Sn1	Si0.3	—	Zn Rem	Cu60	S221 welding rod coated with flux
S222	RBCuZn-C	Sn0.9	Si0.1	Fe0.8	Zn Rem	Cu58	Melting point is about 880°C. Gas welding and carbon arc welding of brass, also braze welding of copper, steel and cast iron.
S222F	RBCuZn-C	Sn0.9	Si0.1	Fe0.8	Zn Rem	Cu58	S222 welding rod coated with flux
S223	RBCuZn-A	Sn0.6	—	—	Zn Rem	Cu59	Melt at about 900°C to braze weld copper, steel or cast iron
S225	RBCuZn-D	—	—	Ni10	Zn Rem	Cu48	Melt at about 935°C to braze weld steel, nickel or kentanium, and to get high strength
S225F	RBCuZn-D	—	—	Ni10	Zn Rem	Cu48	S225 welding rod coated with flux
S227	RBCuZn-B	Sn0.9	Si0.1	Ni0.5 Fe0.8	Zn Rem	Cu58	Melt at about 880°C to gas weld or carbon arc weld bronze copper, and to braze weld copper, steel or cast iron as well

**SUBMERGED ARC WELDING FLUXES: AGGLOMERATED FLUX SERIES**

**ZWM-18**


Name Standard	Matched Welding Wire	Applicable Base Metal	Main Application
SJ101	H08A,H08MnA,H10Mn2	Carbon Steel, Low Alloy Steel	Pressure vessels,ships,welded pipes and steel structures etc.
SJ102	H08MnA,H10Mn2	Carbon Steel, Low Alloy Steel	Pressure vessels,ships,welded pipes and steel structures etc.
SJ301	H08A,H08MnA,H08MnMoA	Carbon Steel, Low Alloy Steel	Welded pipes, oil pipes, pressure vessel and steel structures etc.
SJ501	H08A,H08MnA,H08MnMoA	Carbon Steel, Low Alloy Steel	Shipbuilding,boilers,pressure vessels etc.
SJ503	H08A,H08MnA,	Mild Steel, Low Alloy Steel	Steel structure,pressure vessels etc.



**GAS WELDING & BRAZING WELDING FLUX**

**ZWM-19**

Name Standard	Product Name	Characteristics&application
CJ101	Stainless steel gas welding flux	Help moisture of welding wire and prevent the melting parts from oxidization,and easy to brush clean.
CJ201	Cast iron gas welding flux	Good deliquescence and speed up the oxidization of metal.
CJ301	Copper gas welding flux	Melting point is about 650°C, flux for gas welding and brazing of copper and copper alloys.
CJ401	Aluminum gas welding flux	Melting point is about 5600°C, flux for gas welding of aluminum and aluminum alloys.
QJ101	Silver brazing flux	Brazing flux of copper, copper alloys, steel and stainless steel within 550-750°C
QJ102	Silver brazing flux	Brazing flux of copper, copper alloys, steel and stainless steel within 600-850°C
QJ103	Silver brazing flux	Brazing flux of copper, copper alloys, steel and stainless steel steel within550-750°C

**TUNGSTEN ELECTRODE(EACH SIZE)**

**ZWM-15**


Designati	Color Sign	Content(%)	Impurity(%)	Tungsten(%)	Length Mm	Dia Mm
WT10	YELLOW	0.9-1.2	<0.2	MARGIN	75,150,175,178	0.5-10.0
WT20	RED	1.8-2.2	<0.2	MARGIN	75,150,175,178	0.5-10.0
WT30	PURPLE	2.8-3.2	<0.2	MARGIN	75,150,175,178	0.5-10.0
WT40	ORANGE	3.8-4.2	<0.2	MARGIN	75,150,175,178	0.5-10.0
WL10	BLACK	0.8-1.2	<0.2	MARGIN	75,150,175,178	0.5-10.0
WL15	GOLDEN YELLOW	1.3-1.7	<0.2	MARGIN	75,150,175,178	0.5-10.0
WL20	SKY BLUE	1.8-2.2	<0.2	MARGIN	75,150,175,178	0.5-10.0
WC20	GREY	1.8-2.2	<0.2	MARGIN	75,150,175,178	0.5-10.0
WP	GREEN	—	<0.2	MARGIN	75,150,175,178	0.5-10.0
WY20	BLUE	1.8-2.2	<0.2	MARGIN	75,150,175,178	0.5-10.0
WZ3	BROWN	0.2-0.4	<0.2	MARGIN	75,150,175,178	0.5-10.0
WZ8	WHITE	0.7-0.9	<0.2	MARGIN	75,150,175,178	0.5-10.0



**CARBON GOUGING ROD (EACH SIZE)**

**ZWM-09**

**ZWM-10**

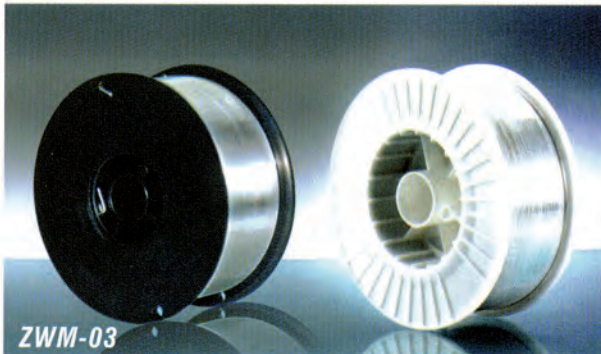
**ZWM-12**

<b>ZWM-09</b>		<i>Jointed Gouging Carbon Rods (d.c)</i>		
<b>Model</b>	<b>mm</b>	<b>Dia*Length</b>		<b>Current Range(a)</b>
		<b>inches</b>		
B506.5J	6.5*(355)	1/4*14"		450-500
B508J	8*355(430)	5/16**14"(17")		500-550
B509J	9*355(430)	23/64**14"(17")		550-600
B510J	10*355*(430)(450)(510)	3/8**14"(17")(18")(20")		600-650
B511J	11*355*(430)(450)(510)	7/16**14"(17")(18")(20")		650-700
B512J	12*355*(430)(450)(510)	15/32**14"(17")(18")(20")		700-800
B513J	13*355*(430)(450)(510)	1/2**14"(17")(18")(20")		800-1000
B516J	16*355*(430)(450)(510)	5/8**14"(17")(18")(20")		1000-1200
B519J	19*355*(430)(450)(510)	3/4**14"(17")(18")(20")		1200-1400
B525J	25*355*(430)(450)(510)	1**14"(17")(18")(20")		1400-1600

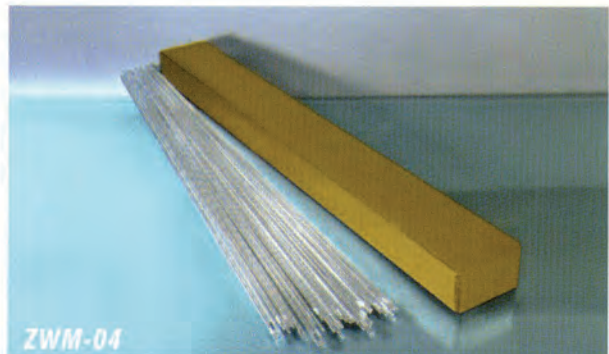
<b>ZWM-10</b>		<i>Pointed Copper-coated Gouging Carbon Rods (d.c)</i>		
<b>Model</b>	<b>mm</b>	<b>Dia*Length</b>		<b>Current Range(a)</b>
		<b>inches</b>		
B503.2	3.2*305(355)	1/8**12"(14")		130-180
B504	4*305(355)	5/32**12"(14")		150-200
B505	5*305(355)	3/16**12"(14")		200-250
B506	6*305(355)	15/64**12"(14")		300-350
B506.5	6.5*305(355)	1/4**12"(14")		320-370
B507	7*305(355)	9/32**12"(14")		350-400
B508	8*305(355)(455)(510)	5/16**12"(14")(18")(20")		400-450
B509	9*305(355)(455)(510)	23/64**12"(14")(18")(20")		450-500
B510	10*305(355)(455)(510)	3/8**12"(14")(18")(20")		500-550
B511	11*305(355)(455)(510)	7/16**12"(14")(18")(20")		600-650
B512	12*305(355)(455)(510)	15/32**12"(14")(18")(20")		750-850
B513	13*305(355)(455)(510)	1/2**12"(14")(18")(20")		800-1000
B516	16*305(355)(455)(510)	5/8**12"(14")(18")(20")		1000-1200
B519	19*305(355)(455)(510)	3/4**12"(14")(18")(20")		1200-1400
B525	25*305(355)(455)(510)	1**12"(14")(18")(20")		1400-1600

<b>ZWM-12</b>		<i>Flat Gouging Carbon Rods (d.c)</i>		
<b>Model</b>	<b>mm</b>	<b>Dia*Length</b>		<b>Current Range(a)</b>
		<b>inches</b>		
B5325	3*25*355	1/8**1**14"		300-350
B5412	4*12*355	5/32**15/32**14"		200-250
B5510	5*10*355	3/16**25/64**14"		250-300
B5512	5*12*355	3/16**15/32**14"		300-350
B5515	5*15*355(305)	3/16**19/32**14"(12")		350-400
B5518	5*18*355	3/16**45/64**14"		400-450
B5520	5*20*355	3/16**25/32**14"		450-500
B5525	5*25*355	3/16**63/64**14"		500-550
B5620	6*20*355	15/64**25/32**14"		550-600



**ALUMINIUM WELDING WIRE**

**ZWM-03**

Specification:  $\Phi$ 0.8, 0.9, 1.0, 1.2, 1.6, 2.0  
Weight: 6.5kg/tray, 2kg/tray, 0.45kg/tray


**ZWM-04**

Length: 1m  
Specification:  $\Phi$ 1.6, 2.0, 2.5, 3.0, 4.0, 5.0, 6.0  
Weight: 10kg/box

**Aluminium Welding Wire**
**Chemical Composition Of Deposited Metal(%)**

Name Standard	Si	Fe	Cu	Mn	Mg	Cr	Ti
AWS ER1060	0.25	0.35	0.05	0.03	0.03	—	0.03
AWS ER1100	Si+Fe:0.95		0.05-0.20	0.05	—	—	—
AWS ER4043	4.5-6.0	0.8	0.3	0.05	0.05	—	0.2
AWS ER4047	11.0-13.0	0.8	0.3	0.15	0.1	—	—
AWS ER5356	0.25	0.4	0.1	0.05-0.20	4.5-5.5	0.05-0.20	0.06-0.20
AWS Er5183	0.4	0.4	0.1	0.5-1.0	4.3-5.2	0.05-0.25	0.15

**STAINLESS STEEL WELDING WIRE**

**ZWM-05**

Specification:  $\Phi$ 0.8, 1.0, 1.2, 1.6  
Weight: 15kg/tray


**ZWM-06**

Specification:  $\Phi$ 1.6, 2.0, 2.5, 3.2, 4.0, 5.0  
Weight: 5kg/box

**Stainless Steel Welding Wire**
**Chemical Composition Of Deposited Metal(%)**

Name Standard	C	Mn	Si	S	P	Cr	Ni	Mo
AWS ER316L	0.029	1.68	0.59	0.01	0.02	19.45	12.28	2.31
AWS ER316	0.047	1.65	0.59	0.01	0.021	19.51	12.24	2.34
AWS ER308L	0.032	1.62	0.56	0.008	0.019	20.04	10.02	—
AWS ER308	0.053	1.65	0.57	0.009	0.02	19.72	9.68	—
AWS ER309L	0.03	1.56	0.61	0.01	0.019	24.17	12.58	—
AWS ER309	0.048	1.59	0.58	0.009	0.021	24.03	12.48	—



**SUBMERGED ARC WELDING WIRE**

**ZWM-07**
**FLUX CORED WIRE**

**ZWM-08**
**ZWM-07**
**Chemical Composition Of Deposited Metal(%)**

Name Standard	Specification $\Phi$ (mm)	C	Mn	Si	P	S	Cr	Ni	Mo	Cu
<i>Carbon Steel Submerged Arc Welding Wire</i>										
AWS EL-8	1.6-5.0	≤0.10	0.35-0.60	≤0.03	≤0.030	≤0.030	≤0.20	≤0.30	—	≤0.20
AWS EM12	1.6-5.0	≤0.10	0.80-1.10	≤0.07	≤0.030	≤0.030	≤0.20	≤0.30	—	≤0.20
AWS EH14	1.6-5.0	≤0.12	1.50-1.90	≤0.07	≤0.035	≤0.035	≤0.20	≤0.30	—	≤0.20
AWS EM13K	1.6-5.0	≤0.14	0.80-1.10	0.60-0.90	≤0.035	≤0.035	≤0.20	≤0.30	—	≤0.20

**ZWM-08**
**Chemical Composition Of Deposited Metal(%)**

Name Standard	Specification $\Phi$ (mm)	C	Si	Mn	S	P	Ai	Ni
<i>Carbon Steel Flux Cored Wire</i>								
AWS E71T-1	1.2-1.6	0.05	0.36	1.25	0.01	0.012	—	—
AWS E71T-11	1.0-1.6	0.31	0.19	0.27	0.001	0.016	1.63	0.2
<i>Stainless Steel Flux Cored Wire</i>								
AWS E308T1-1	1.2-1.6	0.058	0.58	1.31	0.011	0.012	—	—
AWS E308LT1-1	1.2-1.6	0.03	0.58	1.4	0.011	0.02	—	—
AWS E309LT1-1	1.2-1.6	0.003	0.5	1.35	0.012	0.02	—	—
AWS E347LT1-1	1.2-1.6	0.03	0.6	1.45	0.015	0.02	—	—
AWS E316LT1-1	1.2-1.6	0.03	0.5	1.45	0.013	0.02	—	—

**SOLDER WIRE**

**ZWM-16**

Specification:  
 $\Phi$ 0.6, 0.8, 1.0, 1.2,  
 1.6, 2.0, 2.3, 3.0

Weight:  
 100g/tray, 200g/tray

**SOLDER BAR**

**ZWM-17**

Weight:  
 0.6kg/bar,  
 1kg/bar,  
 1.5kg/bar

Sn	Pb	Melting Point(°C)		Supply Form		
		°C	°F	Rosin Cored wires(single,3&5 wires)	Core Wires	Bar
Sn60	Pb40	183-190	361-374	✓	✓	✓
Sn55	Pb45	183-203	361-397	✓	✓	✓
Sn50	Pb50	183-215	361-419	✓	✓	✓
Sn45	Pb55	183-224	361-435	✓	✓	✓
Sn40	Pb60	183-225	361-437	✓	✓	✓
Sn35	Pb65	183-235	361-455	✓	✓	✓



**WELDING ELECTRODE(EACH SIZE)**

**ZWM-13**

*Chemical Composition Of Deposited Metal(%)*

Name Standard	DIA (mm)	C	Mn	Si	S	P	Cr	Ni	Mo	V	Cu	Nb	Fe	Ai	Ti	Other
<b>CARBON STEEL</b>																
AWS E6011	2.0,2.5,3.2,4.0	≤0.08	0.3-0.6	≤0.18	≤0.035	≤0.040										
AWS E6013	2.0,2.5,3.2,4.0	≤0.12	0.3-0.6	≤0.35	≤0.035	≤0.040										
AWS E7015	2.0,2.5,3.2,4.0	≤0.12	≤1.60	≤0.75	≤0.035	≤0.040	≤0.20	≤0.30	≤0.30	≤0.08						
AWS E7016	2.0,2.5,3.2,4.0	≤0.12	≤1.60	≤0.75	≤0.035	≤0.040	≤0.20	≤0.30	≤0.30	≤0.08						
AWS E7018	2.0,2.5,3.2,4.0	≤0.12	≤1.60	≤0.75	≤0.035	≤0.040	≤0.20	≤0.30	≤0.30	≤0.08						
AWS E7024	2.0,2.5,3.2,4.0	≤0.12	≤1.25	≤0.60	≤0.035	≤0.040	≤0.20	≤0.30	≤0.30	≤0.08						
<b>STAINLESS STEEL</b>																
AWS E307-16	2.0,2.5,3.2,4.0	0.04-0.14	3.30-4.75	≤0.90	≤0.030	≤0.040	18.0-21.5	9.0-10.7	0.5-1.5	≤0.75						
AWS E308-15	2.0,2.5,3.2,4.0	≤0.08	0.5-2.50	≤0.90	≤0.030	≤0.040	18.0-21.0	9.0-11.0	≤0.75	≤0.75						
AWS E308-16	2.0,2.5,3.2,4.0	≤0.08	0.5-2.50	≤0.90	≤0.030	≤0.040	18.0-21.0	9.0-11.0	≤0.75	≤0.75						
AWS E308L-16	2.0,2.5,3.2,4.0	≤0.04	0.5-2.50	≤0.90	≤0.030	≤0.040	18.0-21.0	9.0-11.0	≤0.75	≤0.75						
AWS E309-15	2.0,2.5,3.2,4.0	≤0.15	0.5-2.50	≤0.90	≤0.030	≤0.040	22.0-25.0	12.0-14.0	≤0.75	≤0.75						
AWS E309-16	2.0,2.5,3.2,4.0	≤0.15	0.5-2.50	≤0.90	≤0.030	≤0.040	22.0-25.0	12.0-14.0	≤0.75	≤0.75						
AWS E309L-16	2.0,2.5,3.2,4.0	≤0.04	0.5-2.50	≤0.90	≤0.030	≤0.040	22.0-25.0	12.0-14.0	≤0.75	≤0.75						
AWS E309Mo-16	2.0,2.5,3.2,4.0	≤0.12	0.5-2.50	≤0.90	≤0.030	≤0.040	22.0-25.0	12.0-14.0	2.0-3.0	≤0.75						
AWS E309MoL-16	2.0,2.5,3.2,4.0	≤0.04	0.5-2.50	≤0.90	≤0.030	≤0.040	22.0-25.0	12.0-14.0	2.0-3.0	≤0.75						
AWS E310-15	2.0,2.5,3.2,4.0	0.08-0.20	1.0-2.50	≤0.75	≤0.030	≤0.030	25.0-28.0	20.0-22.5	≤0.75	≤0.75						
AWS E310-16	2.0,2.5,3.2,4.0	0.08-0.20	1.0-2.50	≤0.75	≤0.030	≤0.030	25.0-28.0	20.0-22.5	≤0.75	≤0.75						
AWS E310H-16	2.0,2.5,3.2,4.0	0.35-0.45	1.0-2.50	≤0.75	≤0.030	≤0.030	25.0-28.0	20.0-22.5								
AWS E310Mo-16	2.0,2.5,3.2,4.0	≤0.12	1.0-2.50	≤0.75	≤0.030	≤0.030	25.0-28.0	20.0-22.0	2.0-3.0	≤0.75						
AWS E312-16	2.0,2.5,3.2,4.0	≤0.15	0.5-2.50	≤0.90	≤0.030	≤0.040	28.0-32.0	8.0-10.5	≤0.75	≤0.75						
AWS E316-15	2.0,2.5,3.2,4.0	≤0.08	0.5-2.50	≤0.90	≤0.030	≤0.040	17.0-20.0	11.0-14.0	2.0-3.0	≤0.75						
AWS E316-16	2.0,2.5,3.2,4.0	≤0.08	0.5-2.50	≤0.90	≤0.030	≤0.040	17.0-20.0	11.0-14.0	2.0-3.0	≤0.75						
AWS E316L-16	2.0,2.5,3.2,4.0	≤0.04	0.5-2.50	≤0.90	≤0.030	≤0.040	17.0-20.0	11.0-14.0	2.0-3.0	≤0.75						
AWS E316Cu-16	2.0,2.5,3.2,4.0	≤0.08	0.5-2.50	≤0.90	≤0.030	≤0.035	18.0-21.0	12.0-14.0	2.0-2.5	≤2.0						
AWS E317L-16	2.0,2.5,3.2,4.0	≤0.04	0.5-2.50	≤0.90	≤0.030	≤0.035	18.0-21.0	12.0-14.0	2.0-2.5	≤2.0						
AWS E318-16	2.0,2.5,3.2,4.0	≤0.08	0.5-2.50	≤0.90	≤0.030	≤0.040	17.0-20.0	11.0-14.0	2.0-3.0	≤0.75	6×C-1.00					
AWS E318V-16	2.0,2.5,3.2,4.0	≤0.08	0.5-2.50	≤0.90	≤0.030	≤0.035	17.0-20.0	11.0-14.0	2.0-2.5	0.30-0.70	≤0.5					
AWS E320-16	2.0,2.5,3.2,4.0	≤0.07	0.5-2.50	≤0.60	≤0.030	≤0.040	19.0-21.0	32.0-36.0	2.0-3.0	3.0-4.0	8×C-1.00					
AWS E347-15	2.0,2.5,3.2,4.0	≤0.08	0.5-2.50	≤0.90	≤0.030	≤0.040	18.0-21.0	9.0-11.0	≤0.75	≤0.75	8×C-1.00					
AWS E347-16	2.0,2.5,3.2,4.0	≤0.08	0.5-2.50	≤0.90	≤0.030	≤0.040	18.0-21.0	9.0-11.0	≤0.75	≤0.75	8×C-1.00					
AWS E347L-16	2.0,2.5,3.2,4.0	≤0.04	0.5-2.50	≤0.90	≤0.030	≤0.035	18.0-21.0	9.0-11.0			8×C-1.00					
AWS E410-15	2.0,2.5,3.2,4.0	≤0.12	≤1.0	≤0.90	≤0.030	≤0.040	11.0-13.5	≤0.70	≤0.75	≤0.75						
AWS E410-16	2.0,2.5,3.2,4.0	≤0.12	≤1.0	≤0.90	≤0.030	≤0.040	11.0-13.5	≤0.70	≤0.75	≤0.75						



**Chemical Composition Of Deposited Metal (%)**

Name Standard	DIA (mm)	C	Mn	Si	S	P	Cr	Ni	Mo	V	Cu	Nb	Fe	Ai	Ti	Other
AWS E410NiMo-16	2,0,2,5,3,2,4,0	≤0.06	≤1.0	≤0.90	≤0.030	≤0.040	11.0-12.5	4.0-5.0	0.4-0.7		≤0.75					
AWS E430-15	2,0,2,5,3,2,4,0	≤0.10	≤1.0	≤0.90	≤0.030	≤0.040	15.0-18.0	≤0.60	≤0.75		≤0.75					
AWS E16-25MoN-16	2,0,2,5,3,2,4,0	≤0.12	0.5-2.50	≤0.90	≤0.030	≤0.035	14.0-18.0	22.0-27.0	5.0-7.0		≤0.50		N:≥0.1			
AWS E502-15	2,0,2,5,3,2,4,0	≤0.12	0.5-0.9	≤0.50	≤0.030	≤0.035	4.5-6.0	22.0-27.0	0.4-0.7	0.10-0.35	≤0.50					
AWS E2209-16	2,0,2,5,3,2,4,0	≤0.04	0.5-2.0	≤0.90	≤0.030	≤0.040	21.5-23.5	8.5-10.5	0.08-0.2		≤0.75					
<b>CAST IRON</b>																
GB EZC	2,0,2,5,3,2,4,0	2.00-4.00	≤0.75	2.5-6.5	≤0.10	≤0.15							remaining sum			
AWS ECI	2,0,2,5,3,2,4,0	2.00-4.00	≤0.75	2.5-6.5									balance			
AWS ENi-CI	2,0,2,5,3,2,4,0	≤2.00	≤1.00	≤2.50	≤0.03			≥90.0					≤8.00			≤1.00
AWS ENiFe-CI	2,0,2,5,3,2,4,0	≤2.00	≤1.80	≤2.50	≤0.03			45-60					remaining sum			≤1.00
AWS ENiCu-B	2,0,2,5,3,2,4,0	≤1.00	≤2.50	≤0.80	≤0.025			60-70			24-35		≤6.00			≤1.00
<b>LOW ALLOY STEEL</b>																
AWS E7010-A1	2,0,2,5,3,2,4,0	≤0.12	≤0.60	≤0.40	≤0.035	≤0.035			0.40-0.65							
AWS E7015-G	2,0,2,5,3,2,4,0	≤0.10	≥1.00	≤0.60	≤0.035	≤0.035		≤0.60								
AWS E7016-G	2,0,2,5,3,2,4,0	≤0.12	0.3-0.9	≤0.70	≤0.030	≤0.035					0.2-0.5					
AWS E8015-G	2,0,2,5,3,2,4,0	≤0.12	≥0.80	≤0.25	≤0.035	≤0.035			≥0.20	≥0.30						
AWS E8016-G	2,0,2,5,3,2,4,0	≤0.12	≥1.20	≤0.80	≤0.035	≤0.035			≥0.20							
AWS E8018-C3	2,0,2,5,3,2,4,0	≤0.12	0.40-1.25	≤0.80	≤0.030	≤0.030	≤0.15	0.8-1.10	≤0.35	≤0.05						
AWS E8018-W2	2,0,2,5,3,2,4,0	≤0.12	0.5-1.3	0.35-0.80	≤0.030	≤0.030	0.45-0.70	0.40-0.80			0.30-0.75					
AWS E9015-B3	2,0,2,5,3,2,4,0	0.05-0.12	≤0.90	≤0.60	≤0.035	≤0.035	2.00-2.50		0.90-1.20							
AWS E9015-G	2,0,2,5,3,2,4,0	≤0.12	≥1.00	≤0.80	≤0.035	≤0.035		≥0.50	≥0.20							
AWS E9016-D1	2,0,2,5,3,2,4,0	≤0.12	1.25-1.75	≤0.60	≤0.035	≤0.035			0.25-0.45							
AWS E9018-B3	2,0,2,5,3,2,4,0	0.05-0.12	≤0.90	≤0.80	≤0.035	≤0.035	2.00-2.50		0.90-1.20							
AWS E10015-D2	2,0,2,5,3,2,4,0	≤0.15	1.65-2	≤0.60	≤0.035	≤0.035			0.25-0.45							
AWS E10015-G	2,0,2,5,3,2,4,0	≤0.10	≥1.00	≤0.80	≤0.030	≤0.030	≥0.30	≥1.50	≥0.20							
AWS E11018-G	2,0,2,5,3,2,4,0	≤0.10	≥1.00	≤0.60	≤0.035	≤0.035	≥0.80	≥1.25	≥0.20	≥0.10						
AWS E12015-G	2,0,2,5,3,2,4,0	≤0.10	≥1.00	≤0.80	≤0.035	≤0.035	≥0.70		≥0.20	≥0.05						
<b>NICKEL AND NICKEL ALLOY</b>																
AWS ENi-1	2,0,2,5,3,2,4,0	≤0.10	≤0.75	≤1.25	≤0.020	≤0.030		≥92			≤0.25		≤0.75	≤1.0	1.0-4.0	≤0.50
AWS ENiCrFe-0	2,0,2,5,3,2,4,0	0.04	4.65				18.55	remaining sum				2.58	5.92			
AWS ENiCrFe-2	2,0,2,5,3,2,4,0	≤0.10	1.0-3.5				13-17	>62.0	0.5-2.5			0.5-3.0				
AWS ENiCrFe-3	2,0,2,5,3,2,4,0	≤0.10	5.0-9.5	≤1.0	≤0.015	≤0.030	13-17	≥59			≤0.50					≤1.0
AWS ENiCu-7	2,0,2,5,3,2,4,0	≤0.05	≤4.0		≤0.06	≤0.02		62-69			remaining sum		≤4.0	≤2.5		≤1.0
<b>COPPER AND COPPER ALLOY</b>																
AWS Ecu	2,0,2,5,3,2,4,0		≤3.0	≤0.50		≤0.30					>95.0		Pb:≤0.02			
AWS EcuSi	2,0,2,5,3,2,4,0		≤3.0	2.5-4.0							>92.0		Pb:≤0.02		Al+Ni+Zn≤0.5	
AWS EcuNi	2,0,2,5,3,2,4,0						70	30							Sn:7-9	
AWS EcuSn-C	2,0,2,5,3,2,4,0					≤0.3					remaining sum		Pb:≤0.02			
<b>HARD SURFACING</b>																
AWS EFeMn-A	2,0,2,5,3,2,4,0	≤1.10	11.0-16.0	≤1.30												≤5.0
AWS EFeMn-B	2,0,2,5,3,2,4,0	≤1.10	11.0-18.0	≤1.30					≤2.50							≤1.0
AWS EFeCr-A1	2,0,2,5,3,2,4,0	2.50-5.00	≤8.00	1.0-4.8			15.0-32.0	3.0-5.0								≤2.0
AWS ECoCr-A	2,0,2,5,3,2,4,0	0.70-1.40	≤2.00	≤2.00			25.0-32.0									≤4.0
AWS ECoCr-B	2,0,2,5,3,2,4,0	1.00-1.70	≤2.00	≤2.00			25.0-32.0						≤5.00			≤4.0
AWS ECoCr-C	2,0,2,5,3,2,4,0	1.75-3.00	≤2.00	≤2.00			25.0-32.0						≤5.00			≤4.0
GB EDPCrMo-A1-03	2,0,2,5,3,2,4,0	≤0.25					≤2.0		≤1.5							≤2.0



**ZE-02**

**ZE-03**


Art. No.	Voltage	Power
ZE-02	110V-220V	20W, 25W, 30W, 35W, 50W
ZE-03	110V-220V	25W, 30W, 45W, 50W, 60W, 100W, 150W, 200W, 300W

**ZE-04**

**ZE-06**


Art. No.	Voltage	Power
ZE-04	110V-220V	30W, 40W, 60W
ZE-06	110V-220V	30W, 40W, 60W, 80W, 100W

**ZE-10**

**ZE-31**


Art. No.	Voltage	Power
ZE-10	110V-220V	30W, 40W, 60W
ZE-31	110V-220V	30W, 60W




**ZE-34**

**ZE-35**

Art. No.	Voltage	Temperature	Power
ZE-34	110V-220V	150°C-450°C	50W / 60W
ZE-35	110V-220V	100°C-450°C	50W


**ZE-36**

**ZE-37**

Art. No.	Voltage	Temperature	Power
ZE-36	110V-220V	150°C-420°C	50W
ZE-37	110V-220V	150°C-450°C	50W

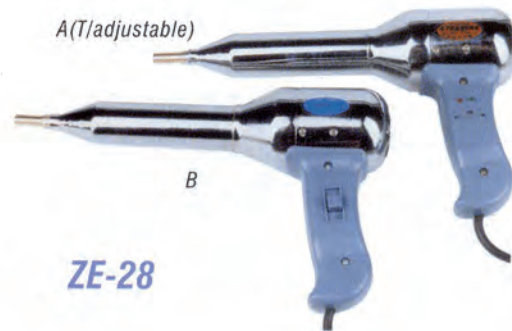


**ZE-08**

**ZE-22**


Art. No.	Voltage	Temperature	Power
ZE-08	110V-220V	300°C-550°C	1000W / 1800W, 1000W / 2000W
ZE-22	110V-220V	50°C-550°C	300W-1800W

**ZE-33**

*A(Tadjustable)*

**ZE-28**

Art. No.	Voltage	Temperature	Power
ZE-33	220V	300°C-500°C	750W-1500W
ZE-28	220V	50°C-600°C	A: 700W B: 500W-700W

**ZE-38**

**ZE-39**


Art. No.	Voltage	Temperature	Power
ZE-38	110V-220V	400°C-650°C	2000W
ZE-39	110V-220V	300°C-550°C	600W / 1000W, 1000W / 18000W



**HEATING GUN**

**ZE-42**

**ZE-43**

Art. No.	Voltage	Temperature	Power
ZE-42	120V-220V	300°C / 500°C, 350°C / 550°C	750W / 1500W, 1000W / 2000W
ZE-43	110V-220V	300°C / 500°C, 350°C / 550°C	750W / 1500W, 1000W / 2000W


**ZE-44**

**ZE-45**

Art. No.	Voltage	Temperature	Power
ZE-44	120V-230V	300°C / 500°C, 350°C / 550°C	750W / 1500W, 1000W / 2000W
ZE-45	120V-230V	50/70-550/70-550°C, 50/70-600/70-600°C	1500W, 2000W

**GLUE GUN**

**ZE-40**

**ZE-41**

Art. No.	Voltage	Power
ZE-40	110V-220V	25W, 40W, 60W, 80W
ZE-41	110V-220V	25W, 40W, 60W



**SAFETY MASK(FOR DUST, FOR PAINTING, FOR POISON AIR)**
**Function**

- Design of double(single) filter pot and breather valve.It is extremely low to breather obstruction. Enclose and present a soft nose cushion with cotton which can suck;
- The built-in active carbon in the filtering tank can soundly prevent damage to human body from poisonous and harmful gas;
- Sweat,increase comfortableness of wearing,able to wash and change.


**ZFA-01B**

**ZFA-01**

**ZFA-01A**


**ZFA-02A**

**ZFA-11A**


**ZFA-02**

**ZFA-21B**

**ZFA-21A**



**ZFA-03**



**ZFA-05A**

Art. No.	Function
ZFA-03	For Dust For Poison Air
ZFA-05A	For Painting For Dust



**SAFETY MASK(FOR DUST, FOR PAINTING, FOR POISON AIR)**
**Function**

- Plastic-shelled filter disc replaceable respirator owns unique shape, comfortable to wear, so long as timely replace the filter disc, you can use its main body repeatedly, economic and substantial. Filter discs are sold separately.
- Polybag, blister Card, color Box, header-card
- Blue, yellow, white


**Function**

- It can effectively prevent harmful pollutants like nonferrous metal, heavy metal, also obstacle glass fiber, asbestos, etc. High-filtration dust proof respirator with breathing valve boasts unidirectional exhalation function of "only out", more adapts for high-temperature, high-humidity and fuggy sites.
- Polybag, color Box, header-card





**DUST MASK(FOR DUST, FOR PAINTING, FOR POISON AIR)**

**ZFA-28B**

**ZFA-29A**

**ZFA-28C**

**ZFA-28**

**ZFA-29**

**ZFA-28A**

**ZFA-20**

**ZFA-20F**

**ZFA-20C**

**ZFA-16**

**ZFA-26**

**ZFA-25**



**SAFETY GOGGLES**
**Function**

- Integrated encircling type design gives flank protection, shows elegance and decency;
- The length of temple can be adjusted in 4 different positions, temple line can be added for easier and safer use;
- Resists scratch and static, absorbs over 99.9% harmful UV;
- Lenses can be conducted the coating treatment including filming, fog resistance, enhancement, etc. to satisfy different working conditions;
- Any color can be requested.


**ZFB-18**

**ZFB-18D**

**ZFB-18E**

**ZFB-18B**

**ZFB-44**

**ZFB-63**

**ZFB-18F**
**Function**

- Full-view full-slice structure prevents UV and withstands impact;
- Fits to wearing the corrective glasses, also can be used as visitors glasses;
- Unique flank ventilation and protection system can defend against splash particles in the round;


**ZFB-17**

**ZFB-17D**

**ZFB-17B**

**ZFB-17C**



**SAFETY GOGGLES****ZFB-51A****ZFB-95****ZFB-95A****ZFB-48B****ZFB-48C****ZFB-97****ZFB-50B****ZFB-97A****ZFB-97B****ZFB-75****ZFB-69****ZFB-114****ZFB-68****ZFB-115****ZFB-70**



SAFETY GOGGLES



ZFB-73



ZFB-82



ZFB-79



ZFB-116



ZFB-117



ZFB-118



ZFB-56



ZFB-47



ZFB-51



ZFB-84



ZFB-93A



ZFB-93B



ZFB-71A



ZFB-71



ZFB-105



SAFETY GOGGLES



ZFB-108A



ZFB-60



ZFB-85



ZFB-113



ZFB-62



ZFB-62A



ZFB-43A



ZFB-16



ZFB-59



ZFB-14



ZFB-15



ZFB-14A



ZFB-14B



ZFB-15F



ZFB-106



SPLASH-PROOF MASK

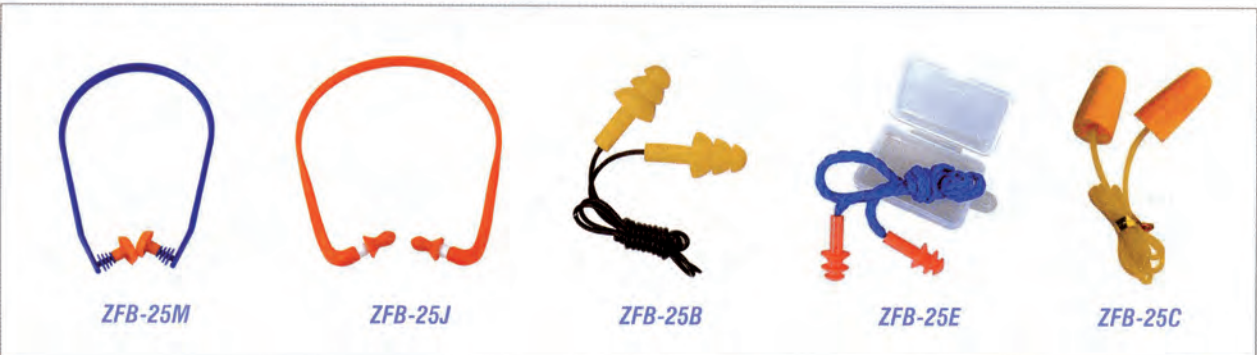




EAR MUFF



EAR PLUG





**SAFETY HELMETS**
**Function**

- Different material: PP, ABS, PE
- Suits for construction, transport, gardening, environmental protection, etc;
- Main color: blue, yellow, red, white, green, if one order reaches certain quantity, the color can be customized.


**ZFC-38**

**ZFC-32**

**ZFC-34**

**ZFC-39**

**ZFC-04B**

**ZFC-29**
**ZFC-29A**

**ZFC-09**

**ZFC-05**

**ZFC-01**

**ZFC-01A**



SAFETY HELMETS



ZFC-01B



ZFC-09A



ZFC-23

ZFC-23A



ZFC-30



ZFC-20



ZFC-19



ZFC-21



ZFC-22



ZFC-24



ZFC-06A



ZFC-18



ZFC-28



**WORKING GLOVES****ZFD-34****ZFD-35****ZFD-38****ZFD-45****ZFD-06****ZFD-49****ZFD-19A****ZFD-18****ZFD-18A****ZFD-21****ZFD-03****ZFD-44**



**WORKING GLOVES**

**ZFD-07**

**ZFD-22**

**ZFD-24**

**ZFD-46**

**ZFD-25**

**ZFD-47**

**ZFD-27**

**ZFD-28**

**ZFD-04A**

**ZFD-09**

**ZFD-08**

**ZFD-12**



WORKING GLOVES



ZFD-29



ZFD-48



ZFD-32



ZFD-52



ZFD-17



ZFD-12A



ZFD-11B



ZFD-53



ZFD-11A



ZFD-33



ZFD-54



ZFD-55



**WORKING GLOVES**




**WORKING GLOVES**

**ZFD-104** Nitrile Glove

**ZFD-107** PU Glove

**ZFD-43** Latex Glove

**ZFD-57** Latex Glove

**ZFD-59A** Latex Glove

**ZFD-15** PVC Glove

**ZFD-58A** Rubber Glove

**ZFD-58B** Rubber Glove

**ZFD-39**

**ZFD-42** Cotton Glove With Dots

**ZFD-41** Cotton Glove



**SAFETY BELT**

**ZFE-58**

- 1 rear attachment point, 1 front D-ring point, with 6 adjustable point, with 1 carabiner on chest
- Soft work-position belt with 2 D-ring point
- Metallic fittings: alloy steel, zinc-plated
- Meets: CE and ISO • Strength: 22.2KN
- Webbing width: 45mm,
- Material: Polyester,
- Color: Red / Black


**ZFE-59**

- 1 rear attachment point and 1 attachment point on front with 5 adjustable point
- Metallic fitting: alloy steel, chrome plated
- Strength: 22.2KN
- Webbing width: 45mm,
- Material: Polyester,
- Color: Jacinth / Grey


**ZFE-60**

- 1 steel D-rings located at back 1 carabiner on chest strap
- Parachute mating buckles chest strap
- Mating buckles on leg straps
- Strength: 22.2KN
- Webbing width: 45mm,
- Material: Polyester,
- Color: Red / Blue


**ZFE-61**

- 1 D-ring on rear, with 6 adjustable points
- Soft work position belt with 2 D-rings.
- Strength: 22KN
- Meets: CE/EN361, EN362, EN358
- Webbing width: 45mm,
- Material: Polyester,
- Color: Blue / Green


**ZFE-33**

- 1 Forged D-ring on rear with 3 adjustable point.
- Safety rope: 13mm Length: 1.5M
- Stamping snap hook: middle size
- Strength: 22KN
- Meets: CE/EN361, EN362
- Webbing width: 50mm,
- Material: polyester,
- Color: Yellow


**ZFE-34**

- 1 D-ring on rear and 2 D-rings on waist with 3 adjustable points
- With PE work position belt
- Safety rope: 13mm, Length: 150cm
- Snap hook: 22KN
- Meets: CE/EN361, EN362
- Webbing width: 50mm,
- Material: Polyester,
- Color: Yellow or Orange



**SAFETY BELT**

**ZFE-35**

- 1 Forged D-ring on rear with 3 adjustable point
- Safety rope: Dia:13mm,Length:1.5M
- Stamping snap hook: middle size
- Strength: 22KN
- Webbing width: 50mm,
- Material: Polyester,
- Color: Green


**ZFE-36**

- 1 D-ring on rear with 5 adjustable points
- Strength: 22KN
- Meets: CE/EN361, EN362
- Webbing width: 45mm,
- Material: Polyester,
- Color: Yellow / Green


**ZFE-37**

- 1 D-ring on rear with 5 adjustable points
- With PE work position belt
- Strength: 22KN
- Webbing width: 45mm,
- Material: Polyester,
- Color: Yellow / Black


**ZFE-38**

- 1 pc dorsal attachment D-ring
- Metal buckle type chest strap.
- Adjustable thigh strap
- Ideally positioned sit strap for extended comfort
- Strength >23KN
- Conform to CE-EN361: 2002
- Webbing width: 45mm,
- Material: Polyester,
- Color: Blue / Green


**ZFE-30**

- 1 D-ring on rear with 5 adjustable points
- Strength: 22KN
- Meets: CE/EN361,EN362
- Webbing width: 45mm,
- Material: polyester,
- Color: Red/Orange


**ZFE-32**

- 1 D-ring on rear and 3D-ring on chest, with 5 adjustable points
- Strength: 22KN
- Meets: CE/EN361, EN362, EN358
- Webbing width: 45mm,
- Material: polyester,
- Color: Red/Orange



**SAFETY BELT**

**ZFE-62**

- Forged snap hook: large size
- Stamping snap hook: middle size
- Integrated energy-absorber bag
- Meets: CE/EN362, EN355, EN354
- Safety rope: Dia:13mm, Available length: 1.5M, Material: Polyester


**ZFE-28**

- 2 Forged snap hooks, large size
- Single punch snap hook, middle size
- Integrated energy-absorber bag
- Meets: CE/EN362, EN355, EN354
- Safety rope: Dia:13mm, Available length: 1.5M, Material: Polyester


**ZFE-29**

- Double forged snap hooks, large size
- Single carabiner, alloy steel
- Integrated energy-absorber bag
- Meets: CE/EN362, EN355, EN354
- Webbing Width:45mm, Available length: 1.5M, Material: Polyester


**ZFE-25**

- Safety rope: Dia:13cm, Length:1.5M, with 2 D-rings on belt and forged big hook.
- With tool bag
- Meets: CE/EN362, EN358
- Material: Polyester
- Webbing Width: 55mm, Length of finished product:125cm


**ZFE-22**

- Safety rope: Dia:13cm, Length:1.5M, with 2 D-rings on belt and stamping middle hook.
- With tool bag
- Meets: CE/EN358
- Material: Polyester
- Webbing Width: 55mm, Length of finished product:125cm


**ZFE-22A**

- 1 attachment point with 1 adjustable point
- With a blue workbasket
- Dia of rope:11mm, Length:125cm
- Stamping snap hook, middle size
- Metallic fitting: hot treated, color zinc plated
- Webbing Width:50mm, Material: pp, Color: Green


**ZFE-27**

- Carabiner: alloy steel
- Forged big hook
- CE/EN362, EN354
- Safety rope: Dia:13mm, Available length: 1.5M, Material: Polyester


**ZFE-26**

- Carabiner: alloy steel
- Forged big hook
- Integrated energy-absorber bag
- Safety rope: Dia:16mm, Available length: 1.5M, Material: Polyester


**ZFE-63**

- There is rubber tube attachment point on left with 3 adjustable points
- Metallic fitting: alloy steel, chrome zinc plated
- Webbing Width:45mm, Material: polyester, Color: Red




**ZFE-66**

**ZFE-67**

**ZFE-68**

**ZFE-69**

**ZFE-70**
**Function:**

- Cotton, Polyester and khaki can be selected.
- Rejecting water, preventing static electricity and inflame retarding can be selected.
- Size can be chosen, summer, spring and winter clothes.
- Weight can be chosen from 120 GSM to 320 GSM.




**ZFE-71**

**ZFE-72**

**ZFE-73**

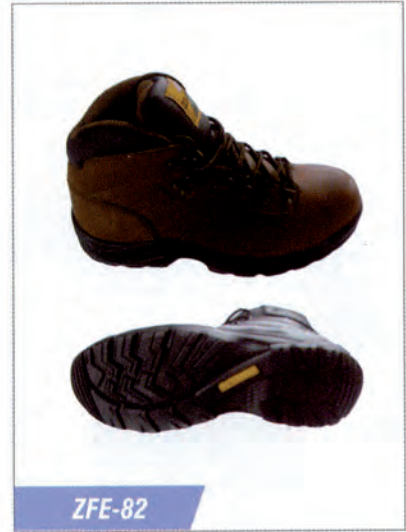
**ZFE-74**

**ZFE-75**

**ZFE-76**
**Function:**

- Cotton, Polyester and khaki can be selected.
- Rejecting water, preventing static electricity and inflame retarding can be selected.
- Size can be chosen, summer, spring and winter clothes.
- Weight can be chosen from 120 GSM to 320 GSM.









ZFE-86



ZFE-87



ZFE-88



ZFE-89



ZFE-90



ZFE-91



ZFE-92



ZFE-93



ZFE-94




**ZFE-11**
**DESCRIPTION**

- Reflective Vest, High visibility vest;
- Goes on quickly and comfortably to keep you safe. Great for construction workers, road work, night jobs and anywhere that extra visibility provides added safety.


**ZFE-12**

**ZFE-10**

**ZFE-13**

**ZFE-16**

**ZFE-45**




**ZFE-43**

**ZFE-42**

**ZFE-44**

**ZFE-39**
**DESCRIPTION**

- Reflective Vest, High visibility vest;
- Goes on quickly and comfortably to keep you safe. Great for construction workers, road work, night jobs and anywhere that extra visibility provides added safety.


**ZFE-40**

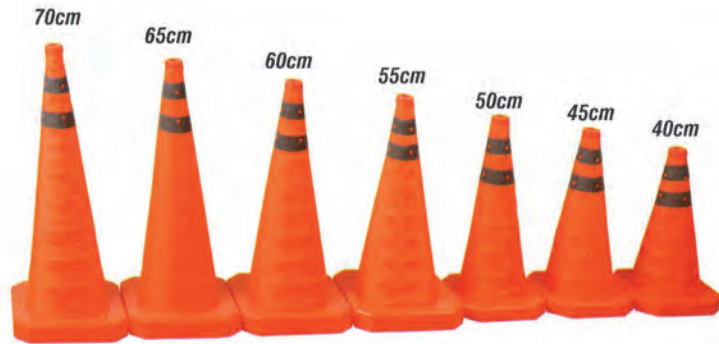
**ZFE-64**

**ZFE-65**





**ZFE-21**



**ZFE-46**

- Height:500mm
- Base Size:280x280mm
- Reflective Tape Size:110mm



**ZFE-47**

- Height:750mm
- Base Size:380x380mm
- Reflective Tape Size:220mm



**ZFE-48**

- Height:750mm
- Base Size:380x380mm
- Reflective Tape Size:120+120mm



**ZFE-49**

- Height:1000mm
- Base Size:490x490mm
- Reflective Tape Size:320mm



**ZFE-50**

- Height:500mm
- Base Size:350x350mm
- Reflective Tape Size:140mm



**ZFE-51**

- Height:700mm
- Base Size:380x380mm
- Reflective Tape Size:140+50mm



**ZFE-52**

- Height:700mm
- Base Size:380x380mm
- Reflective Tape Size:100+100+160mm



**ZFE-53**

- Height:700mm
- Base Size:380x380mm
- Reflective Tape Size:600mm



**ZFE-54**

- Height:750mm
- Base Size:380x380mm
- Reflective Tape Size:320mm



**ZFE-55**

- Height:750mm
- Base Size:380x380mm



**ZFE-56**

- Size:750x80mm
- Base Size:200mm
- Reflective Tape Size:70+70+70mm



**ZFE-57**

- Size:1100x95mm
- Base Size:420x420mm
- Reflective Tape Size:240mm



## WARNING LIGHT

### ZFF-02

#### Standard Features

- 2 sides
- Photosensor turns light at dusk, off at dawn
- 60 flashes/min. Red light is steady
- For two 6V 4R25 batteries (all positions)
- With/without Anti-theft bracket
- Battery life is 3 times longer than standard road lamp

Function	Light Source	Color
Flash	LED	Red
Bum steady	Bulb	Yellow



### ZFF-03

#### Standard Features

- 1 side
- Photosensor turns light at dusk, off at dawn
- Visual distance: 500-800M
- For two 6V 4R25 batteries (all positions)
- With/without Anti-theft bracket

Function	Light Source	Color
Strobe	Xenon Tube	Yellow



### ZFF-04

#### Standard Features

- 1 side
- Visual distance: 500-600M
- Photocell auto on-at-dusk, off-at-dawn
- Battery: one 6V 4R25 battery

Function	Light Source	Color
Flash	LED	Blue



### ZFF-08

Voltage	Power	Description
DC12V/24V AC110V/220V	5W	Screw Mount With Siren



### ZFF-09

Voltage	Power	Description
DC12V/24V AC110V/220V	5W	Magnet Mount With Siren



### ZFF-15

Voltage	Power	Description
DC12V/24V AC110V/220V	5W	Screw Mount With Siren



### ZFF-19

#### Standard Features

- Unbreakable poly-carbonate tube
- Visible distance 200M
- Weather proof design
- Long lasting LED up to 100,000 hours life time
- Electronic control blinking
- Low power consumption
- Bright LED lighting with high reflective sheet.

Model	Dimension	Light	Mode
A	30*490mm	5,7,22pcs	Flash
B	30*520mm	Red LED	Fast flash
C	30*600mm		Bum steady

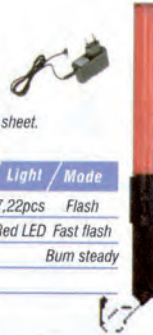


### ZFF-21

#### Standard Features

- Unbreakable poly-carbonate tube
- Visible distance 200M
- Weather proof design
- Bright LED lighting with high reflective sheet.
- With metal carriage handle

Model	Dimension	Power	Light	Mode
A	40*490mm	Battery	7,22pcs	Flash
B	40*520mm	D-cell 1.5V	Red LED	Fast flash
C	40*600mm			Bum steady
D	40*520mm	echorage		
E	40*520mm	battery		
		1.5V 700mA		



### ZFF-18

#### Accessor



Name	Model	Description
Battery	4R25	6V
Battery	4R25-2	6V
bracket	BL-100	Anti-theft bracket

## WARNING TAPE



### ZFF-24

- Standard features
- 0.03MM, 0.04MM, 0.05MM



### ZFF-25

- Standard features
- 0.03MM, 0.04MM, 0.05MM



### ZFF-26

- Standard features
- 0.03MM, 0.04MM, 0.05MM




**ZY-180**

**ZY-181**

**ZY-182**

Art. No.	Voltage Frequency	Power	Blade Dia	No Load Speed	Cutting Capacity
ZY-180	230V/50Hz	1300W/10.5A	Φ210mm	5500 r/min	120x55mm 83x55mm 120x30mm 83x30mm
ZY-181	230V/50Hz	1300W/10.5A	Φ210mm	5500 r/min	120x55mm 83x55mm 120x30mm 83x30mm
ZY-182	230V/50Hz	1800W/15A	Φ255mm	5500 r/min	300x70mm 210x80mm 300x43mm 210x43mm


**ZY-172**

**ZY-183**

**ZY-167**

Art. No.	Voltage Frequency	Power	Blade Dia	No Load Speed	Cutting Capacity
ZY-172	230V/50Hz	1800W/15A	Φ255mm	5500 r/min	300x80mm 210x80mm 300x43mm 210x43mm
ZY-183	230V/50Hz	1800W/15A	Φ255mm	5500 r/min	140x70mm 95x70mm 140x35mm 95x35mm
ZY-167	230V/50Hz	1800W/15A	Φ255mm	5500 r/min	140x70mm 95x70mm 140x35mm 95x35mm




**ZY-184**

**ZY-168**

**ZY-185**

Art. No.	Voltage Frequency	Power	Blade Dia	No Load Speed	Cutting Capacity
ZY-184	230V/50Hz	1800W/15A	Φ255mm	6000 r/min	280x76mm 200x76mm 280x38mm 200x38mm 280x25mm 200x25mm
ZY-168	230V/50Hz	1800W/15A	Φ255mm	5500 r/min	280x80mm 200x80mm 280x45mm 200x45mm
ZY-185	230V/50Hz	1800W/15A	Φ255mm	5500 r/min	280x80mm 200x80mm 280x45mm 200x45mm


**ZY-166**

**ZY-186**

**ZY-187**

Art. No.	Voltage Frequency	Power	Blade Dia	No Load Speed	Cutting Capacity
ZY-166	230V/50Hz	1300W/15A	Φ210mm	5500 r/min	300x65mm 215x65mm 300x35mm 300x25mm 210x35mm
ZY-186	230V/50Hz	1800W/15A	Φ255mm	5500 r/min	310x80mm 220x80mm 210x40mm 220x40mm
ZY-187	230V/50Hz	1800W/15A	Φ305mm	5000 r/min	197x66mm 138x66mm 197x45mm 138x45mm 149x99mm 103x99mm 149x68mm 103x68mm





Art. No.	Voltage Frequency	Power	Blade Dia	No Load Speed	Cutting Capacity
ZY-188	230V/50Hz	1800W/15A	Φ305mm	5000 r/min	197x66mm 138x66mm 197x45mm 138x45mm 149x99mm 103x99mm 149x68mm 103x68mm
ZY-169	230V/50Hz	1800W/15A	Φ255mm	4500 r/min	340x80mm 240x80mm 240x30mm 340x40mm 240x40mm
ZY-189	230V/50Hz	1800W/15A	Φ305mm	4500 r/min	340x85mm 240x85mm 340x45mm 240x35mm 240x45mm 240x35mm



Art. No.	Voltage Frequency	Power	Blade Dia	No Load Speed	Cutting Capacity
ZY-173	230V/50Hz	2000W/15A	Φ305mm	4500 r/min	340x102mm 240x102mm 340x55mm 340x40mm 240x55mm 240x40mm
ZY-170	230V/50Hz	1800W/15A	Φ255mm	5500 r/min	340x80mm 240x80mm 240x50mm
ZY-171	230V/50Hz	1800W/15A	Φ255mm	5500 r/min	340x80mm 240x80mm 340x50mm 340x25mm 240x50mm 240x25mm



## GRINDING WHEEL SERIES



**ZLG-11A**



**ZLG-11B**



4.8-6.8mm



=> 7mm



Dimension A×B×C	Max×Rpm	Pcs/Ctn
115×6.4×22.2	13300	200
125×6.4×22.2	12230	100
180×6.4×22.2	8490	50
180×7.0×22.2	8490	50
230×6.4×22.2	6650	50
230×7.0×22.2	6650	50



Dimension A×B×C	Max×Rpm	Pcs/Ctn
75×4.8×9.5	20380	200
75×6.4×9.5	20380	200
100×4.8×16.2	15290	200
100×6.4×16.2	15290	200
115×4.8×22.2	13300	200
115×6.4×22.2	13300	200
125×4.8×22.2	12230	200
125×6.4×22.2	12230	100
180×4.8×22.2	8490	100
180×6.4×22.2	8490	50
230×6.5×22.2	6650	50
230×7.0×22.2	6650	50

## CUTTING WHEEL SERIES



**ZLG-12A**



**ZLG-12B**



Max 80 m/s



Dimension A×B×C	Max×Rpm	Pcs/Ctn
100×3.2×16.2	15290	200
115×3.2×22.2	13300	200
125×3.2×22.2	12230	200
180×3.2×22.2	8490	100
230×3.2×22.2	6650	100



Dimension A×B×C	Max×Rpm	Pcs/Ctn
75×2.4×9.5	20380	200
75×3.2×9.5	20380	200
100×2.4×16.2	15290	200
100×3.2×16.2	15290	200
115×2.4×22.2	13300	200
115×3.2×22.2	13300	200
125×2.4×22.2	12230	200
125×3.2×22.2	12230	200
180×2.4×22.2	8490	100
180×3.2×22.2	8490	100
230×2.4×22.2	6650	100
230×3.2×22.2	6650	100
230×4.0×22.2	6650	100



## GUTTING WHEEL SERIES



**ZLG-13A**



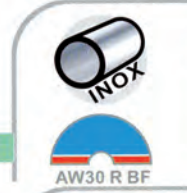
**ZLG-13B**



**ZLG-13C**



**ZLG-14A**



Dimension A×B×C	Max×Rpm	Pcs/Ctn
115×3.2×22.2	13300	200
125×3.2×22.2	12230	200
180×3.2×22.2	8490	100
230×3.2×22.2	6650	100



Dimension A×B×C	Max×Rpm	Pcs/Ctn
75×1.6×9.5	20380	1000
75×2.4×9.5	20380	200
75×3.2×9.5	20380	200
100×1.6×16.2	15290	400
100×2.4×16.2	15290	200
100×3.2×16.2	15290	200
115×1.6×22.2	13300	400
115×2.4×22.2	13300	200
115×3.2×22.2	13300	200
125×1.6×22.2	12230	400
125×2.4×22.2	12230	200
125×3.2×22.2	12230	200
180×1.6×22.2	8490	200
180×2.4×22.2	8490	100
180×3.2×22.2	8490	100
230×1.6×22.2	6650	100
230×2.4×22.2	6650	100
230×3.2×22.2	6650	100



Dimension A×B×C	Max×Rpm	Pcs/Ctn
100×2.4×16.2	15290	200
100×3.2×16.2	15290	200
115×2.4×22.2	13300	200
115×3.2×22.2	13300	200
125×2.4×22.2	12230	200
125×3.2×22.2	12230	200
180×2.4×22.2	8490	100
180×3.2×22.2	8490	100
230×2.4×22.2	6650	100
230×3.2×22.2	6650	100



Dimension A×B×C	Max×Rpm	Pcs/Ctn
300×2.8×25.4	5090	50
300×3.2×25.4	5090	25
350×3.0×25.4	4370	30
350×4.0×25.4	4370	25
400×3.2×25.4	3820	30
400×4.0×25.4	3820	25
400×4.0×22.2	3820	25
400×4.0×20	3820	25




**ZLG-14B**


Dimension A×B×C	Max×Rpm	Pcs/Ctn
300×2.8×25.4	5090	50
300×3.2×25.4	5090	25
350×3.0×25.4	4370	30
350×4.0×25.4	4370	25
350×4.0×22.2	4370	25
350×4.0×20	4370	25

**METAL PAPER GRINDING WHEEL**

**ZLG-15**

Dimension A×B	Max×Rpm	Pcs/Ctn	Granule Degree
100×16	13700	200	16#, 20#, 24#, 30#, 36#, 40#, 46#, 80#, 100#, 120#
115×22	11900	200	
125×22	11000	200	
150×22	9100	100	
180×22	7600	100	

**LAYERED WHEEL**

**ZLG-16A**


Dimension A×B	Grana	Max×Rpm
115×22	36, 40, 50, 60, 80, 100, 120	13300
125×22	36, 40, 60, 80, 120	12230
180×22	36, 40, 60, 80, 120	8490


**ZLG-17A**


Dimension A×B	Grana	Max×Rpm
115×22	36, 40, 50, 60, 80, 100, 120	13300
125×22	36, 40, 60, 80, 120	12230
180×22	36, 40, 60, 80, 120	8490



Dimension A×B	Grana	Max×Rpm
115×22	36, 40, 50, 60, 80, 100, 120	13300
125×22	36, 40, 60, 80, 120	12230
180×22	36, 40, 60, 80, 120	8490

**ZLG-17B**



**TWISTED KNOT BOWL CUP BRUSHES**

**ZLG-18**

Size	Nut Number	Inner Bore	Dia Of Wire
2.5"	M10*1.5,M14*2,M10*1.25,M5/8-11	16mm	0.5mm
3"	M10*1.5,M14*2,M10*1.25,M5/8-11	16mm	0.5mm
4"	M10*1.5,M14*2,M10*1.25,M5/8-11	16/22mm	0.5mm
5"	M10*1.5,M14*2,M10*1.25,M5/8-11	22mm	0.5mm
6"	M10*1.5,M14*2,M10*1.25,M5/8-11	22mm	0.5mm

**TWISTED WIRE DISH WHEEL BRUSHES**

**ZLG-19**

Size	Nut Number	Inner Bore	Dia Of Wire
4"	M10*1.5,M14*2,M10*1.25,M5/8-11	16mm	0.5mm
5"	M10*1.5,M14*2,M10*1.25,M5/8-11	16/22mm	0.5mm
6"	M10*1.5,M14*2,M10*1.25,M5/8-11	22mm	0.5mm
7"	M10*1.5,M14*2,M10*1.25,M5/8-11	22mm	0.5mm
8"	M10*1.5,M14*2,M10*1.25,M5/8-11	22mm	0.5mm

**CRIMPED WIRE CUP BRUSHES**

**ZLG-20**

Size	Nut Number	Inner Bore	Dia Of Wire
2.5"	M10*1.5,M14*2,M10*1.25,M5/8-11	16mm	0.35mm
3"	M10*1.5,M14*2,M10*1.25,M5/8-11	16mm	0.35mm
4"	M10*1.5,M14*2,M10*1.25,M5/8-11	16/22mm	0.35mm
5"	M10*1.5,M14*2,M10*1.25,M5/8-11	22mm	0.35mm
6"	M10*1.5,M14*2,M10*1.25,M5/8-11	22mm	0.35mm

**CIRCULAR BRUSHES-CRIMPED WIRE**

**ZLG-21**

Size	Nut Number	Inner Bore	Dia Of Wire
4"	M10*1.5,M14*2,M10*1.25,M5/8-11	16mm	0.35mm
5"	M10*1.5,M14*2,M10*1.25,M5/8-11	16/22mm	0.35mm
6"	M10*1.5,M14*2,M10*1.25,M5/8-11	22mm	0.35mm
7"	M10*1.5,M14*2,M10*1.25,M5/8-11	22mm	0.35mm
8"	M10*1.5,M14*2,M10*1.25,M5/8-11	22mm	0.35mm




**ZTE-01**
**DIGITAL TYRE PRESSURE GAUGE**

- Ranges: 0-100psi or 0-7.0Bar or 0-7.0kg/cm<sup>2</sup> or 0-700Kpa
- Display: 20mm LCD display
- Power: 3V Lithium Coin cell
- Operating temperature: -10-50°C
- Scale selection(bar.kpa.kg/cm<sup>2</sup>.psi)


**ZTE-06**
**DIGITAL TYRE PRESSURE GAUGE**

- Pressure range: 0-100psi, 0-6.85bar, 0-690kpa, 0-7.00kgf/cm<sup>2</sup>
- Pressure unit(optional): psi,bar,kpa,kgf/cm<sup>2</sup>
- Resolution: 0.5psi/0.05bar
- Accuracy(f.s.):  $\leq \pm 1$ psi
- Power: CR2032 3V Lithium coin cell, 3\*AG 13 battery
- Back-lit LCD and light in gauge's head
- On/off key


**ZTE-07**
**DIGITAL TYRE PRESSURE GAUGE**

- Ranges: 0-100psi or 0-7.0Bar or 0-7.0kg/cm<sup>2</sup> or 0-700Kpa
- Display: 20mm LCD display
- Power: 3V Lithium Coin cell
- Operating temperature: -10-50°C
- Scale selection(bar.kpa.kg/cm<sup>2</sup>.psi)


**ZTE-02**
**DIGITAL TYRE PRESSURE GAUGE**

- Pressure range: 0-100psi, 0-6.85bar, 0-690kpa, 0-7.00kgf/cm<sup>2</sup>
- Pressure unit(optional): psi, bar, kpa, kgf/cm<sup>2</sup>
- Resolution: 0.5psi/0.05bar
- Accuracy(f.s.):  $\leq \pm 1$ psi
- Power: CR2032 3V Lithium coin cell
- On/off key
- Auto shut off


**ZTE-05**
**DIGITAL TYRE PRESSURE GAUGE**

- Pressure range: 0-100psi, 0-6.85bar, 0-690kpa, 0-7.00kgf/cm<sup>2</sup>
- Pressure unit(optional): psi, bar, kpa, kgf/cm<sup>2</sup>
- Resolution: 0.5psi/0.05bar
- Accuracy(f.s.):  $\leq \pm 1$ psi
- Power: CR2032 3V Lithium coin cell, 3\*AG 13 battery
- Back-lit LCD and light in gauge's head
- On/off key
- Auto shut off


**ZTE-08**
**DIGITAL TYRE PRESSURE GAUGE**

- Pressure range: 0-100psi, 0-6.85bar, 0-690kpa, 0-7.00kgf/cm<sup>2</sup>
- Pressure unit(optional): psi, bar, kpa, kgf/cm<sup>2</sup>
- Resolution: 0.5psi/0.05bar
- Accuracy(f.s.):  $\leq \pm 1$ psi
- Power: CR2032 3V Lithium coin cell
- On/off key
- Auto shut off





**ZTA-01**

High-quality type

- Clear digital reading display, high-precision measure
- Advanced and unique ceramic sensor element
- Reliable electric design
- Durable engineering plastic
- Automatic shut-off



**ZTA-02**

High-quality type

- First-class meter with clear point reading and high-precision measure
- Durable engineering plastic
- Inflate and deflate quickly when matched with our patented multi-function coupler



**ZTA-03**

High-quality type

- Clear reading display and high-precision measure
- Reliable electric design
- Durable plastic steel
- Inflate and deflate quickly when matched with our patented multi-function coupler



**ZTA-04**

High-quality type

- Clear reading display and high-precision measure
- Reliable electric design
- Durable plastic steel
- Inflate and deflate quickly when matched with our patented multi-function coupler



**ZTA-05**

5 Functions

- Metal body, firm and durable
- 5 functions available: inflation, deflation, releasing pressure, blowing air, measuring pressure
- New patented appearance more agreeable



**ZTA-06**

6 Functions

- Metal body, firm and durable
- 6 functions available: inflation, deflation, releasing pressure, blowing air, measuring pressure, pulling valve core
- New patented appearance more agreeable



**ZTA-07**

High-quality type

- Rated pressure:  $\leq 150$ psi
- Max pressure: 220psi



**ZTA-08**

High-quality type

- Rated pressure:  $\leq 150$ psi
- Max pressure: 220psi



**ZTA-09**

High-quality type

- Rated pressure:  $\leq 150$ psi
- Max pressure: 220psi





ZTA-10



ZTA-11



ZTA-12



ZTA-13



ZTA-15



ZTA-16



ZTA-18



ZTA-19



ZTA-21



ZTA-22



ZTA-23



ZTA-24




**ZTB-01**

**ZTB-03**

**ZTB-04**

**ZTB-05**

Art. No.	Content	Calibrated
ZTB-01	Brass stem, acrylic lens, diameter of 2.0" metal body.	0-60lbs scales selection (bar.kpa.kg/cm <sup>2</sup> .psi)
ZTB-03	Protective rubber casing, brass stem, diameter of 1.5" metal body, with bleed valve.	0-60psi or 10-100lbs scales selection (bar.kpa.kg/cm <sup>2</sup> .psi)
ZTB-04	Brass stem, diameter of 1.5" metal body, with bleed valve.	
ZTB-05	Brass stem, drawn steel case with friction ring and acrylic lens, needle holds reading until released, diameter of 2.0" metal body.	0-60lbs scales selection (bar.kpa.kg/cm <sup>2</sup> .psi)


**ZTB-07**

**ZTB-09**

**ZTB-10**

**ZTB-11**

Art. No.	Content	Calibrated
ZTB-07	Brass stem, drawn steel case with friction ring and acrylic lens, needle holds reading until released, diameter of 2.0" metal body.	0-60lbs scales selection (bar.kpa.kg/cm <sup>2</sup> .psi)
ZTB-09	Metal body w/protective rubber casing, bleed valve.	10-75lbs scales selection (bar.kpa.kg/cm <sup>2</sup> .psi)
ZTB-10	Metal body w/protective rubber casing, bleed valve.	10-75lbs scales selection (bar.kpa.kg/cm <sup>2</sup> .psi)
ZTB-11	Zinc alloy body colour matte, with chrome plated friction ring, acrylic lens. (Vibrant Colour)	10-100lbs scales selection (bar.kpa.kg/cm <sup>2</sup> .psi)


**ZTB-12**

**ZTB-14**

**ZTB-15**

**ZTB-16**

Art. No.	Content	Calibrated
ZTB-12	Zinc alloy body colour matte, with chrome plated friction ring, acrylic lens. (Vibrant Colour)	0-100lbs scales selection (bar.kpa.kg/cm <sup>2</sup> .psi)
ZTB-14	Plastic body.	10-50psi or 10-100lbs scales selection (bar.kpa.kg/cm <sup>2</sup> .psi)
ZTB-15	Plastic body.	10-60psi or 10-100lbs scales selection (bar.kpa.kg/cm <sup>2</sup> .psi)
ZTB-16	Plastic body, acrylic lens. (Choice of Colours)	10-75lbs scales selection (bar.kpa.kg/cm <sup>2</sup> .psi)





Art. No.	Content	Calibrated
ZTB-17	Zinc alloy head and body(plastic body), black matte, with chrome (plastic body) plated friction ring acrylic lens.	0-100 or 0-150 lbs scales selection (bar.kpa.kg/cm <sup>2</sup> .psi)
ZTB-19	Zinc alloy head and body(plastic body), black matte, with chrome (plastic body) plated friction ring acrylic lens.	
ZTB-20	Plastic body, w/protective rubber	
ZTB-21	Zinc alloy head and body(plastic body), black matte, with chrome (plastic body) plated friction ring acrylic lens.	



Art. No.	Content	Calibrated
ZTB-22	Straight-on chuck, metal body w/protective rubber casing, bleed valve.	0-100 or 0-150 lbs scales selection (bar.kpa.kg/cm <sup>2</sup> .psi)
ZTB-23		
ZTB-24		
ZTB-26		




**ZTB-29**

**ZTB-30**

**ZTB-31**

Art. No.	Content	Calibrated
ZTB-29	Easy to read and use. a Diameter of 2.5" body rugged protective rubber casing.	10-170 lbs scales selection (bar.kpa.kg/cm <sup>2</sup> .psi)
ZTB-30	Easy to read and use (protective rubber casing) brass stem, metal body, acrylic lens.	10-170 lbs or 100 lbs scales selection (bar.kpa.kg/cm <sup>2</sup> .psi)
ZTB-31		


**ZTB-35**

**ZTB-36**

**ZTB-37**

Art. No.	Content	Calibrated
ZTB-35	Metal body	0-100 lbs or 10-150 lbs scales selection (bar.kpa.kg/cm <sup>2</sup> .psi)
ZTB-36	Easy to read and use (protective rubber casing) brass stem, metal body, acrylic lens.	10-170 lbs or 100 lbs scales selection (bar.kpa.kg/cm <sup>2</sup> .psi)
ZTB-37		

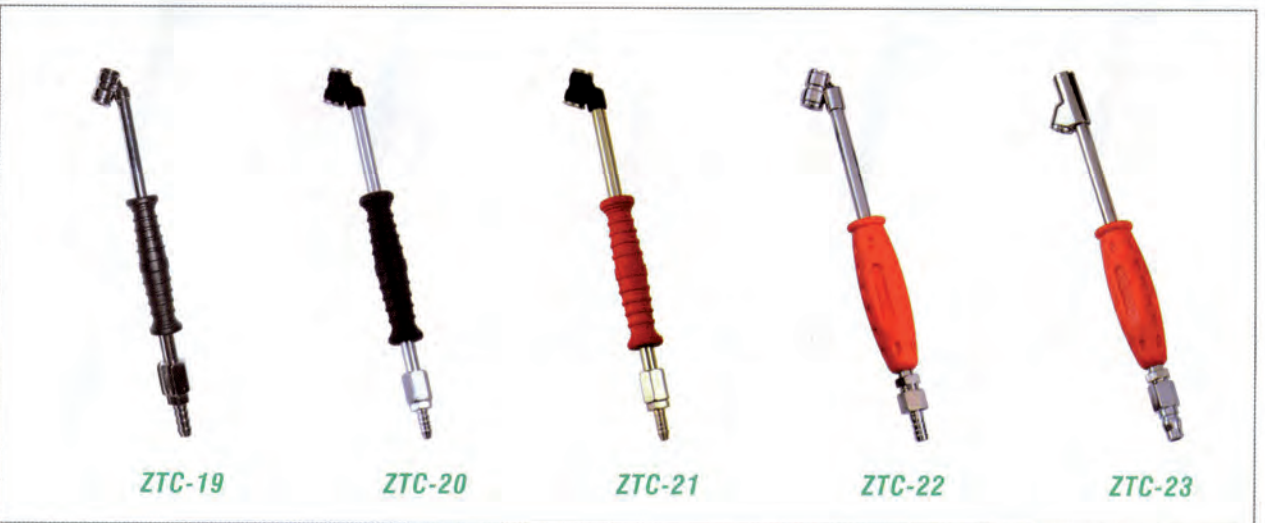

**ZTB-38**

**ZTB-39**

**ZTB-40**

Art. No.	Content	Calibrated
ZTB-38		
ZTB-39	Easy to read and use (protective rubber casing) brass stem, metal body, acrylic lens.	10-170 lbs or 100 lbs scales selection (bar.kpa.kg/cm <sup>2</sup> .psi)
ZTB-40		







*Calibration: Plastic Bar*

*Calibration: Plastic Bar & Steel Bar*

*Calibration: Plastic & Steel Bar*




**AIR CHUCK**

**ZTF-01**

**ZTF-02**

**ZTF-03**

**ZTF-04**

**ZTF-05**

**ZTF-06**

**ZTF-07**

**ZTF-08**

**ZTF-09**

**ZTF-10**

**ZTF-11**

**ZTF-12**

**ZTF-13**

**ZTF-14**

**ZTF-15**

**ZTF-16**

**ZTF-17**

**ZTF-18**
**FILTER WRENCH**

**ZTG-01**

No.	Size
A	2-1/2" to 3-7/8"


**ZTG-02**

No.	Size
A	4-1/8" to 4-5/8"
B	4-5/8" to 5-1/4"


**ZTG-03**

No.	Size
A	2-1/8" to 5"
B	3-1/2" to 7"





**ZTG-04**

No.	Size
A	2-7/8" to 3-1/8"
B	3-5/8" to 3-15/16"



**ZTG-05**

No.	Size
A	2-7/8" to 3-1/4"
B	3-1/2" to 3-7/8"



**ZTG-06**

No.	Size
A	3-1/2" to 3-7/8"



**ZTG-07**

No.	Size
A	Fits Filters up to 6"



**ZTG-08**

No.	Size
A	2.8" to 3.8"



**ZTG-09**

No.	Size
A	2.5" to 4.5"



**ZTG-10**

No.	Size
A	2.5" to 4.5"



**ZTG-11**

No.	Size
A	3-7/16" to 3-3/4"
B	2-3/4" to 3-1/4"



**ZTG-12**

No.	Size
A	2-1/4" to 2-3/4"



**ZTG-13**

No.	Size
A	2-7/8" to 3-1/4"



**ZTG-14**

No.	Size
A	2-3/4" to 3-1/4"



**ZTG-15**

No.	Size
A	3" to 5"





### ZTU-01

**MULTIPLE-FUNCTION OIL COMBUSTION PRESSURE METER**

- Comprehensive kit of adaptors and fittings for most fuel injection systems.
- 3-1/2" gauge with dual scale (psi and bar), reading from 0-140psi and 0-10bar
- Hanging hook and protective bumper specially for gauge.
- Pressure release valve fitted with long drain hose allows safe recovery of pressure and fuel.



### ZTU-03

**FUEL INJECTION PRESSURE GAUGE**

- Gauge reads 0-100 psi, 0-7bar
- Fits most systems (except for bosch, cis-jetronic and gm throttle body systems).



### ZTU-04

**OIL COMBUSTION SPRAYING PRESSURE METER**

- 3" gauge with dual scale, reading from 0-150psi (0-10bar)



### ZTU-05

**AUTOMATIC WAVE-BOX PRESSURE METER**

- Easy to read dual gauge, complete with 24" (600mm) of oil proof hose with 1/8" NPT.
- Also includes 1/4" NPT and 3/8" NPT adaptors.
- Dual gauge readings: 0 to 500psi (0 to 35 bar)
- Gauge diameter: 3"



### ZTU-06

**VACUUM & FUEL PUMP TESTER**

- Large 3-1/2" diameter gauge with color-coded easy-reading scales.
- Extra long heavy-duty rubber hose and 14mm/18mm manifold adapter.
- Checks for worn or defective Darts in fuel pumps, vacuum system



### ZTU-07

**PRESSURE METER FOR ENGINE OIL**

- Adapters for domestic & foreign cars
- 24" flexible hose
- Pressure scale: 0-100 psi / 0-700kpa



### ZTU-08

**UNIQUE COMPRESSION TESTER KIT**

- Easy-reading 2-1/2" diameter gauge features color-coded quadruple calibrations with 0-300psi, 2000kpa.
- 13" durable rubber hose with 14mm/18mm adapter.
- 6" heavy-duty stem with universal rubber cone adapter fits all plug holes.



### ZTU-09

**PETROL ENGINE COMPRESSION TESTER SET**

- Comprehensive kit based on petrol compression tester for vehicles with M10, M12M, 14 and M18 spark plug threads complete with extensions, thread chasers and service kit.
- Easy to use
- Checks condition of valves, piston rings, gaskets & cylinder heads.
- Used on cars, vans & motorcycles
- Pressure relief valve enables repeated testing of a cylinder without removing the gauge.





### ZTU-10

#### COMPRESSION TESTER KIT

- Pressure gauge scale: 0 <-> 300psi (in 10 psi increments). 0 <-> 2000 kpa (in 100kpa increments).
- Pressure gauge hose: 26" long x 3/8" diameter, 500 psi working pressure with quick disconnect
- Hose adapters: Long reach: 10-1/2" Long x M12 x 1.25/500 PSI working pressure; Standard reach: 10-1-2" Long x M14 x 1.25/500 PSI working pressure; Standard reach: 10-1/2" Long x M14 x 1.25/500 PSI working pressure.



### ZTU-11

#### COMPRESSION TESTER KIT

- Quickly and accurately check compression on petrol engines.
- Thread sizes: M18 x 1.5, M14 x 1.25, M10 x 1.0, M12 x 1.25



### ZTU-12

#### MULTIPLE-FUNCTION CYLINDER PRESSURE METER

- 2.5" gauge with dual scale, reading from 0-300 psi Pressure relief valve allows repeated on-vehicle test.



### ZTU-13

#### PRESSURE MANOMETER FOR COMPRESSIVE AIR CYLINDER

- Works on most domestic and foreign engines
- 12" flexible hose for easy reach.
- Fits 14mm and 18mm spark plug holes
- 0-300 psi
- Side release valve.



### ZTU-14

#### CYLINDER PRESSURE METER FOR DIESEL TRUCK

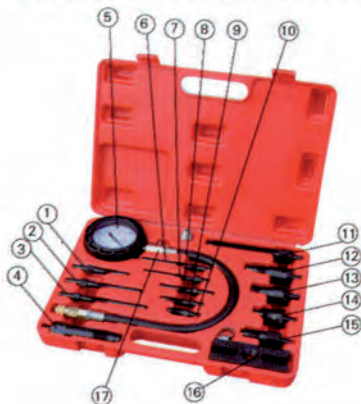
- Quick connect/disconnect feature allows one gauge to be used with variety of quick adapters for most popular diesel engines
- Push pressure scale: 0 <-> 1000PSI  
0 <-> 70Bar



### ZTU-16

#### CYLINDER LEAK DETECTOR

- Tester checks the amount of leakage in an engine cylinder & helps determine the source.
- Best used when comparing a suspect cylinder to a known good cylinder on same engine
- Ideal for testing truck & late model cars where clearance is minimal.
- Equipment with 2-1/2" input pressure gauge for proper leakage test setup and accurate results.



### ZTU-22

#### CYLINDER PRESSURE METER FOR DIESEL TRUCK

- With all the adaptor for diesel engine in the world.
- 3" gauge with dual scale. reading from 0-1000psi.
- Fits all kinds of diesel.
- 1. Glow plug adaptor 91mm M10x1
- 2. Glow plug adaptor 119mm M10x1
- 3. Glow plug adaptor 135mm M10x1.25
- 4. Glow plug adaptor 18mm M22x1.5
- 5. Dial gauge 340mm
- 6. Glow plug adaptor 113mm M10x1
- 7. Glow plug adaptor 102mm M10x1
- 8. Glow plug adaptor 83mm M10x1
- 9. Glow plug adaptor 64mm M10x1.25
- 10. Glow plug adaptor 47mm M10x1.25
- 11. Screw adaptor 160mm
- 12. Injector adaptor 88mm M24x1.5
- 13. Injector adaptor 73mm M22x1.5
- 14. Injector adaptor 63mm M24x2
- 15. Injector adaptor 75mm M20x1.5
- 16. H fitting
- 17. Bleed valve





### ZTU-17

#### WATER TANK DETECTOR

- Test cooling system for leaks
- Includes hand pump, test head in a blowmold case.
- Suit for: Nissan, Mitsubishi, Mazda Subaru, Toyota, Honda, Ford GM, Chrysler, VW, Aul, Volvo, Saab, Mercedes Benz, BMW, Renault, Fiat, Alfa, Romeo, Infiniti, Geo, Suzuki, Isuzu, Lexus, Opel, Peugeot, Jeep, Rover, Citrom, Truck



### ZTU-23

#### CYLINDER LEAK DETECTOR

Tester checks the amount of leakage in an engine cylinder & helps determine the source. Best used when comparing a suspect cylinder to a known good cylinder on same engine. Ideal for testing truck & late model cars where clearance is minimal. Equipment with 2-1/2" input pressure gauge for proper leakage test setup and accurate results.



### ZTU-18

#### COOLING SYSTEM & RADIATOR CAP PRESSURE TESTER

- No.1: GM4 Cylinder(Buick, Chevrolet, Oldsmobile, Pontiac, Cadillac)
- No.2: Truck
- No.3: Mercedes-Benz, Ford, Chrysler, GM, Jeep, ruck, Peugeot
- No.4: Acura, Dodge, Eagle, Geo, Honda, Isuzu, Lexus, Mazda, Mitsubishi, Suzuki, Toyota, Infiniti, Nissan, GM(Nova, Spectrum, Sprint), Peugeot, Ford, Chrysler
- No.5: Toyota, Honda, Mitsubishi, Suzuki, Lexus, Chrysler, Acura, Dodge, Geo
- No.6: Buick, Chevrolet, Ford, Lincoln, GM, Opel, VW, Saab, Benz(ML-class), Jaguar, Rover
- No.7: Jeep, Renault < Saab, Volvo, Audi, Citron, Flat, Peugeot, Alfa, Sterling, Peugeot.
- No.8: VW
- No.9: Audi(A4, A6, A8), VW(pass 1997-2002, Golf, Jetta)
- No.10: BMW
- No.11: VW, Audi
- No.12: Ford, GM, International, Rover, Opel, Jaguar, BMW245 (BMW up to 1987)
- No.13: Mercedes-Benz Sedans with Threaded Neck.
- No.14: Saab, Opel
- \*2.3"cap adapter(Testing the pressure cap
- \*4.5"cap adapter(Testing the pressure cap cooling system pump
- \*Tshape joint 5/16", 3/8"Oil hose 5/16", 3/8"



### ZTU-20

#### 14 PCS CUP TYPE OIL FILTER WRENCH SET

- Cap type filter wrenches, made from 7 and 16 or 1/2" sg drive wrenches, gauge steel, withstand up to Supplied in carry-case.851b.ft of torque
- Designed to grip like sockets, thereby minimising the possibility of crushing filters
- Electro-black oxide finish for rust protection.
- Adaptor allows use with 3/8" or 1/2"sg drive wrenches, Supplies in carry-case.
- Contefits: 65-14F 68-14F 65/67-14F 76-14F 76-30F 73-14F 75/77-15F 93-15F 90-15F 100-15F 74/76-15F 80-15F 80-82-15F 93-36F
- Adaptor:3/8"sg Drive(M)x1/2"sg Drive(F)



**Z0-36** 7PCS PLASTIC HANDLE



**Z0-36A** 7PCS WOODEN HANDLE



**Z0-36B** 10PCS PLASTIC HANDLE





### ZTH-01

- 13PCS-1/4" DR. SOCKETS:  
4,4.5,5.5,6,7,8,9,10,11,12,13,14MM
- 21PCS-1/4" DR. BIT SOCKETS:  
FD4,5.5,7 PH1,2,3 HW3,4.5,6,7,8 T10,  
15,20,25,30,40 PZ1,2,3
- 3PCS-HEX KEY WRENCHES: 1.5,2,2.5MM
- 1PC-1/4" DR. UNIVERSAL JOINT
- 2PCS-1/4" DR. EXTENSION BARS: 2" & 4"
- 1PC-1/4" DR. FLEXIBLE EXTENSION: 6"
- 1PC-1/4" DR. SLIDING T-BAR
- 1PC-1/4" DR. QUICK RATCHET HANDLE
- 1PC-1/4" DR. SPINNER HANDLE: 6"
- 1PC-1/4" DR. BIT ADAPTOR
- 1PC-BLOW CASE



### ZTH-02

- 18PCS-1/2" DR. SOCKETS:  
8,9,10,11,12,13,14,15,16,17,18,19,20,  
22,24,27,30,32MM
- 2PCS-1/2" DR. SPARK PLUG SOCKETS:  
16MM & 21MM
- 1PC-1/2" DR. UNIVERSAL JOINT
- 2PCS-1/2" DR. EXTENSION BARS: 5" & 10"
- 1PC-1/2" DR. QUICK RATCHET HANDLE
- 1PC-1/2" DR. SLIDING T-BAR
- 1PC-BLOW CASE



### ZTH-03

- 18PCS-1/2" DR. SOCKETS:  
8,9,10,11,12,13,14,15,16,17,18,19,20,  
22,24,27,30,32MM
- 2PCS-1/2" DR. EXTENSION BARS: 5" & 10"
- 2PCS-1/2" DR. SPARK PLUG SOCKETS:  
16MM & 21MM
- 1PC-1/2" DR. UNIVERSAL JOINT
- 1PC-1/2" DR. QUICK RATCHET HANDLE
- 1PC-SLIDING T-BAR
- 1PC-BLOW CASE



### ZTH-04

- 19PCS-1/2" DR. SOCKETS:  
8,9,10,11,12,13,14,15,16,17,18,19,20,  
21,22,24,27,30,32MM
- 6PCS-1/2" DR. SOCKETS (12PT):  
10,12,14,15,17,19MM
- 2PCS-1/2" DR. SPARK PLUG SOCKETS:  
16MM & 21MM
- 1PC-1/2" DR. EXTENSION BAR: 5"
- 1PC-1/2" DR. UNIVERSAL JOINT
- 1PC-1/2" DR. SLIDING T-BAR
- 1PC-1/2" DR. QUICK RATCHET HANDLE
- 1PC-BLOW CASE



### ZTH-05

- 18PCS-1/2" DR. SOCKETS:  
10,11,12,13,14,15,16,17,18,19,20,21,  
22,23,24,27,30,32MM
- 2PCS-1/2" DR. EXTENSION BARS: 5" & 10"
- 1PC-1/2" DR. SPEEDER HANDLE
- 1PC-1/2" DR. SPARK PLUG SOCKET: 21MM
- 1PC-1/2" DR. SLIDING T-BAR
- 1PC-1/2" DR. REVERSIBLE RATCHET HANDLE
- 1PC-METAL CASE



### ZTH-06

- 20PCS-1/2" DR. METRIC SOCKETS:  
8,9,10,11,12,13,14,15,16,17,18,19,20,  
21,22,23,24,27,30,32MM
- 2PCS-1/2" DR. EXTENSION BARS: 5" & 10"
- 1PC-1/2" DR. SLIDING T-BAR
- 1PC-1/2" DR. UNIVERSAL JOINT
- 1PC-1/2" DR. SPARK PLUG SOCKET: 21MM
- 1PC-1/2" DR. QUICK RATCHET HANDLE
- 1PC-METAL CASE



### ZTH-07

- 13PCS-1/4" DR. SOCKETS:  
4,4.5,5.5,6,7,8,9,10,11,12,13,14MM
- 8PCS-1/4" DR. DEEP SOCKETS: 6,7,8,9,10,11,12,13MM
- 2PCS-1/4" DR. EXTENSION BARS: 2" & 4"
- 1PC-1/4" DR. UNIVERSAL JOINT
- 1PC-1/4" DR. QUICK RATCHET HANDLE
- 1PC-1/4" DR. SPINNER HANDLE: 6"
- 17PCS-1/4" DR. BIT SOCKETS: SL4,5.5,7 PH1,2 PZ1,2 HEX3,  
4.5,6T8,10,15,20,25,30
- 1PC-1/4" DR. FLEXIBLE EXTENSION: 6"
- 1PC-1/4" DR. SLIDING T-BAR
- 1PC-1/4" DR. BIT ADAPTOR

- 18PCS-1/2" DR. SOCKETS:  
10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,27,30,32MM
- 4PCS-1/2" DR. DEEP SOCKETS: 14,15,17,19MM
- 2PCS-1/2" DR. EXTENSION BARS: 5" & 10"
- 2PCS-1/2" DR. SPARK PLUG SOCKETS: 16MM & 21MM
- 1PC-1/2" DR. UNIVERSAL JOINT
- 1PC-1/2" DR. QUICK RATCHET HANDLE
- 1PC-3-WAY ADAPTOR
- 15PCS-BITS (30L):  
SL8,10,12,T40,45,50,55 PH3,4 PZ3,4 HEX8,10,12,14
- 3PCS-HEX KEY WRENCHES: 1.5,2,2.5MM
- 1PC-BLOW CASE





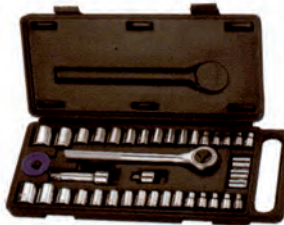
### ZTH-08

- 7PCS-1/4" DR. SOCKETS: 4,4,5,5,6,7,8,9 MM
- 7PCS-3/8" DR. SOCKETS: 10,11,12,13,14,17,19 MM
- 2PCS-3/8"DR. EXTENSION BARS:3" &6"
- 1PC-1/4"DR. SPINNER HANDLE:6"
- 1PC-ADAPTOR
- 1PC-3/8"DR. RATCHET HANDLE
- 1PC-3/8"DR. SPARK PLUG SOCKET:21MM
- 1PC-BLOW CASE



### ZTH-09

- 11PCS-1/4" DR. SOCKETS: 4,4,5,5,6,7,8,9,10,11,12,13 MM
- 3PCS-3/8" DR. SOCKETS:14,17,19MM
- 1PC-1/4"DR. SPINNER HANDLE:6"
- 1PC-ADAPTOR
- 1PC-3/8"DR. SPIN DISC
- 1PC-3/8"DR.EXTENSION BAR:3"
- 1PC-3/8"DR. RATCHET HANDLE
- 1PC-3/8"DR. SPARK PLUG SOCKET:21MM
- 1PC-BLOW CASE



### ZTH-10

- 14PCS-1/4"DR. METRIC SOCKETS: 4,4,5,5,5,5,6,6,6,5,7,7,5,8,9,10,11,12,13MM
- 14PCS-1/4"DR. SAE SOCKETS: 5/32",3/16",7/32",1/4",9/32",5/16",11/32",3/8",13/32",7/16",15/32",1/2",17/32",9/16"
- 2PCS-3/8"DR. SAE SOCKETS:5/8",11/16"
- 2PCS-3/8"DR. METRIC SOCKETS:14,15MM
- 3PCS-1/4"DR. SAE SOCKETS(8PT):1/4",5/16",3/8"
- 1PC-3/8"DR. RATCHET HANDLE
- 1PC-3/8"DR. EXTENSION BAR:3"
- 1PC-ADAPTOR
- 1PC-SPIN DISC
- 1PC-BLOW CASE



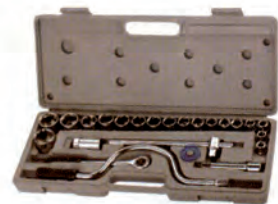
### ZTH-11

- 8PCS-1/2"DR. SOCKETS: 8,10,11,12,13,14,19,21MM
- 1PC-1/2"X250MM WHEEL MASTER RIM WRENCH
- 1PC-BLOW CASE



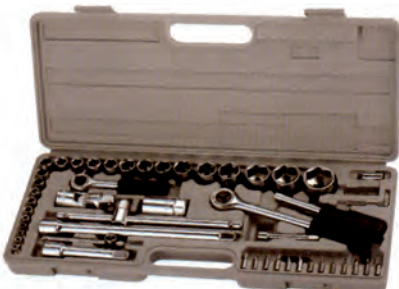
### ZTH-12

- 9PCS-1/2"DR. SOCKETS: 8,10,11,12,13,14,17,21,24MM
- 1PC-1/2"X280MM WHEEL MASTER RIM WRENCH
- 1PC-BLOW CASE



### ZTH-13

- 18PCS-1/2"DR. SOCKETS: 10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,27,30,32 MM
- 1PC-1/2"DR. RATCHET HANDLE
- 1PC-1/2"DR. SLIDING T-BAR
- 1PC-1/2"DR. EXTENSION BAR:5"
- 1PC-1/2"DR. SPEEDER HANDLE
- 1PC-1/2"DR. SPARK PLUG SOCKET:21MM
- 1PC-SPIN DISC
- 1PC-BLOW CASE



### ZTH-14

- 11PCS-1/4" DR. SOCKETS: 4,4,5,5,5,6,7,8,9,10,11,13 MM
- 13PCS-1/2" DR. SOCKETS: 10,11,12,13,14,15,16,17,19,22,24,27,30 MM
- 1PC-1/4" DR. RATCHET HANDLE
- 1PC-1/2" DR. RATCHET HANDLE
- 1PC-1/4" DR. EXTENSION BAR:3"
- 2PC-1/2"DR. EXTENSION BAR:5" & 10"
- 1PC-1/4"DR. SLIDING T-BAR
- 1PC-1/2"DR. SLIDING T-BAR
- 1PC-1/2"DR. UNIVERSAL JOINT
- 1PC-SCREWDRIVER HANDLE
- 1PC-1/2"DR. SPARK PLUG SOCKET:21MM
- 1PC-BIT ADAPTOR
- 1PC-BIT HOLDER
- 5PCS-REGULAR POINT BITS: #3, #4, #5, #6, #7
- 3PCS-PHILLIPS POINT BITS: #1, #2, #3
- 5PCS-HEX SCREW BITS:T10, T15, T20, T25, T30
- 3PCS-HEX KEY WRENCHES:1.5, 2, 2.5MM
- 1PC-BLOW CASE





Capacity(ton)	Min. Height(mm)	Lifting Height(mm)	Adjust Height(mm)	N.W.(kg)
2	148	80	50	2.3
4	180	110	50	3.4
6	185	110	60	4.5
8	195	120	60	5.2
10	195	120	60	5.8
12	210	125	60	7.0
16	220	135	60	7.8
20	235	145	60	11.0
32	255	150	/	14.5
50	260	155	/	23.0
100	335	180	/	78.0
200	375	200	/	135.0



Capacity(ton)	Min. Height(mm)	Lifting Height(mm)	Adjust Height(mm)	N.W.(kg)
2	148	80	50	2.1
4	170	10	50	3.3
6	180	110	60	4.3
8	195	120	60	5.2
10	195	120	60	5.5
12	210	125	60	6.8
16	220	135	60	7.8
20	235	145	60	10.0
32	255	150	/	13.5
32	255	150	60	14.5
50	255	150	/	20.0
50	300	180	/	32.0




**ZHJ-02**


Capacity(ton)	Min. Height(mm)	Lifting Height(mm)	Adjust Height(mm)	N.W.(kg)
2	158	90	60	2.3
4	195	125	60	3.5
6	197	125	80	4.6
8	200	125	70	6.9
10	200	125	70	7.3
12	217	125	70	9.3
16	227	145	70	11
20	245	145	70	15
30	285	180	/	22
50	300	180	/	33


**ZHJ-04**


Capacity(ton)	Min. Height(mm)	Lifting Height(mm)	Adjust Height(mm)	N.W.(kg)
2	181	116	48	2.7
4	194	118	60	3.5
6	216	127	70	4.6
8	230	147	80	6.0
10	230	150	80	6.6
12	230	150	80	7.8
16	230	150	80	8.6
20	242	150	60	11.5




**ZHJ-20** 

**ZHJ-21**

Art. No.	Capacity(ton)	Min. Height(mm)	Max. Height(mm)	Net Weight(Kg)
ZHJ-20-1	2	135	320	6.5
ZHJ-20-2	2	135	320	7
ZHJ-20-3	2	130	330	8.5
ZHJ-21-1	2	130	385	10.5
ZHJ-21-2	3	192	532	16.5


**ZHJ-22** 

**ZHJ-23** 

Art. No.	Capacity(ton)	Min. Height(mm)	Max. Height(mm)	Net Weight(Kg)
ZHJ-22-1	3	145	460	22
ZHJ-22-2	3	135	500	28
ZHJ-22-3	3	135	500	30
ZHJ-23-1	4	130	500	34


**ZHJ-24**

### Aluminium Jack


**ZHJ-25** 

Art. No.	Capacity(ton)	Min. Height(mm)	Max. Height(mm)	Net Weight(Kg)
ZHJ-24	3	135	505	35
ZHJ-25	1.5	80	375	11.5




**ZHJ-26**

**ZHJ-27**

**ZHJ-28**

Art. No.	Capacity(ton)	Min. Height(mm)	Max. Height(mm)	Net Weight(Kg)
ZHJ-26	2	295	435	4.8
ZHJ-27	3	295	435	5
ZHJ-28	6	400	610	9


**ZHJ-29**

**ZHJ-30**

**ZHJ-31**

Art. No.	Capacity(ton)	Min. Height(mm)	Max. Height(mm)	Net Weight(Kg)
ZHJ-29	12	500	770	32
ZHJ-30	2	235	370	3.2
ZHJ-31	3	235	370	3.4


**ZHJ-15**

**ZHJ-16**

Art. No.	Rated Load(ton)	Min. Height(mm)	Max. Height(mm)
ZHJ-15	0.5	170	680
ZHJ-16	1	270	800
	1.5	230	890




**ZHJ-11**

**ZHJ-12**

**ZHJ-13**

**ZHJ-14**

Art. No.	Rated Load(ton)	Min. Height(mm)	Max. Height(mm)
ZHJ-11	0.5	855	1760
ZHJ-12	1	830	1760
ZHJ-13	0.5	1000	1900
ZHJ-14	0.6	1000	1900


**ZHJ-17**

**ZHJ-17A**

Art. No.	Rated Load(ton)	Lifting Height(mm)	Height of Crane(mm)	Length of Crane(mm)
ZHJ-17	1	2320	1450	1550
	2	2380	1450	1550
ZHJ-17A	2	2380	1450	1550




**ZP-79** (W-71S)

**ZP-07** (W-71G)

Art. No.	ZP-79	ZP-07
Standard Nozzle	1.5mm	1.5mm
Optional Nozzle	1.0-2.0mm	1.0-2.0mm
Operating Pressure	50-70psi	50-70psi
Pattern Width	150-250mm	150-250mm
Air Consumption	11.5cfm	11.5cfm
Cup Capacity	600ml	400ml


**ZP-80** (W-77S)

**ZP-78** (W-77G)

Art. No.	ZP-80	ZP-78
Standard Nozzle	2.0mm	2.0mm
Optional Nozzle	1.5-3.0mm	1.5-3.0mm
Operating Pressure	50-70psi	50-70psi
Pattern Width	120-250mm	120-250mm
Air Consumption	10.5cfm	10.5cfm
Cup Capacity	1000ml	400ml


**ZP-30** (F-75S)

**ZP-64** (F-75G)

Art. No.	ZP-30	ZP-64
Standard Nozzle	1.5mm	1.5mm
Optional Nozzle	1.3-2.5mm	1.3-2.5mm
Operating Pressure	50-70psi	50-70psi
Pattern Width	180-240mm	180-240mm
Air Consumption	11.2cfm	11.2cfm
Cup Capacity	750ml	400ml




**ZP-81** (S-710S)

**ZP-84** (S-710G)

Art. No.	ZP-81	ZP-84
Standard Nozzle	1.5mm	1.5mm
Optional Nozzle	1.3-2.5mm	1.3-2.5mm
Operating Pressure	50-70psi	50-70psi
Pattern Width	180-240mm	180-240mm
Air Consumption	11.2cfm	11.2cfm
Cup Capacity	750ml	400ml


**ZP-01** (S-770S)

**ZP-82** (S-770G)

Art. No.	ZP-01	ZP-82
Standard Nozzle	1.5mm	1.5mm
Optional Nozzle	1.3-2.5mm	1.3-2.5mm
Operating Pressure	50-70psi	50-70psi
Pattern Width	200-240mm	200-240mm
Air Consumption	7.2cfm	7.2cfm
Cup Capacity	1000ml	400ml


**ZP-85** (870S)

**ZP-83** (870G)

Art. No.	ZP-85	ZP-83
Air Pressure	41-44psi	41-44psi
Air Consumption	8.2cfm-8.6cfm	8.2cfm-8.6cfm
Compressor	0.75-2.2kw(1-3Hp)	0.75-2.2kw(1-3Hp)
Air Inlet	1/4"NPT/BSP	1/4"NPT/BSP
Optional Nozzle	1.3, 1.5, 1.8mm	1.3, 1.5, 1.8mm
Cup Capacity	1000ml	400ml




**ZP-88**(F-100S)

**ZP-63**(F-100G)

Art. No.	ZP-88	ZP-63
Standard Nozzle	1.5mm	1.5mm
Optional Nozzle	1.0-2.5mm	1.0-2.5mm
Operating Pressure	50-70psi	50-70psi
Pattern Width	180-250mm	180-250mm
Air Consumption	8.3cfm	8.3cfm
Cup Capacity	750ml	400ml


**ZP-89**(F-200S)

**ZP-86**(F-200G)

Art. No.	ZP-89	ZP-86
Standard Nozzle	1.5mm	1.5mm
Optional Nozzle	1.0-2.5mm	1.0-2.5mm
Operating Pressure	50-70psi	50-70psi
Pattern Width	180-250mm	180-250mm
Air Consumption	8.3cfm	8.3cfm
Cup Capacity	1000ml	400ml


**ZP-90**(MC-100S)

**ZP-87**(MC-100G)

Art. No.	ZP-90	ZP-87
Standard Nozzle	2.0mm	2.0mm
Optional Nozzle	1.5-2.5mm	1.5-2.5mm
Operating Pressure	50-70psi	50-70psi
Pattern Width	200-280mm	200-280mm
Air Consumption	8.5cfm	8.5cfm
Cup Capacity	1000ml	400ml




**ZP-02** (S-990S)

**ZP-05** (S-990G)

Art. No.	ZP-02	ZP-05
Standard Nozzle	1.5mm	1.5mm
Optional Nozzle	1.2-2.0mm	1.2-2.0mm
Operating Pressure	50-70psi	50-70psi
Pattern Width	110-250mm	110-250mm
Air Consumption	11.5cfm	11.5cfm
Cup Capacity	1000ml	600ml


**ZP-93** (R-21XS)

**ZP-91** (R-21XG)

Art. No.	ZP-93	ZP-91
Standard Nozzle	1.5mm	1.5mm
Optional Nozzle	1.3-2.5mm	1.3-2.5mm
Operating Pressure	50-70psi	50-70psi
Pattern Width	180-240mm	180-240mm
Air Consumption	11.2cfm	11.2cfm
Cup Capacity	750ml	400ml


**ZP-94** (N-88S)

**ZP-92** (N-88G)

Art. No.	ZP-94	ZP-92
Standard Nozzle	1.5mm	1.5mm
Optional Nozzle	1.5-2.5mm	1.5-2.5mm
Operating Pressure	50-70psi	50-70psi
Pattern Width	180-250mm	180-250mm
Air Consumption	8.3cfm	8.3cfm
Cup Capacity	1000ml	400ml




**ZP-97** (G70S)

**ZP-95** (E70G)

Art. No.	ZP-97	ZP-95
Standard Nozzle	1.5mm	1.5mm
Optional Nozzle	1.5-2.5mm	1.5-2.5mm
Operating Pressure	50-70psi	50-70psi
Pattern Width	110-280mm	110-280mm
Air Consumption	7.5cfm	7.5cfm
Cup Capacity	1000ml	600ml


**ZP-13** (G80S)

**ZP-17** (E80G)

Art. No.	ZP-13	ZP-17
Standard Nozzle	1.5mm	2.0mm
Optional Nozzle	1.5-2.0mm	1.7-2.5mm
Operating Pressure	50-70psi	50-70psi
Pattern Width	110-280mm	120-280mm
Air Consumption	7.5cfm	7.2cfm
Cup Capacity	1000ml	600ml


**ZP-98** (NA-2000S)

**ZP-96** (NA-2000G)

Art. No.	ZP-98	ZP-96
Standard Nozzle	1.5mm	1.5mm
Optional Nozzle	1.3-2.5mm	1.3-2.5mm
Operating Pressure	50-70psi	50-70psi
Pattern Width	180-240mm	180-240mm
Air Consumption	8.0cfm	8.0cfm
Cup Capacity	1000ml	400ml




**ZP-61** (RD-4001)

**ZP-31** (RD-4001G)

Art. No.	ZP-61	ZP-31
Standard Nozzle	1.8mm	2.0mm
Optional Nozzle	1.4-2.5mm	1.8-2.0mm
Operating Pressure	45-60psi	50psi
Pattern Width	280mm	120-250mm
Air Consumption	1.4cfm	7.5cfm
Cup Capacity	1000ml	1000ml


**ZP-60** (S970S)

**ZP-66** (G970G)

Art. No.	ZP-60	ZP-66
Standard Nozzle	1.5mm	1.5mm
Optional Nozzle	1.3-2.5mm	1.3-2.5mm
Operating Pressure	50-70psi	50-70psi
Pattern Width	180-240mm	180-240mm
Air Consumption	10cfm	8.8cfm
Cup Capacity	1000ml	600ml


**ZP-99** (N-99A)

**ZP-67** (H811)

Art. No.	ZP-99	ZP-67
Standard Nozzle	1.8mm	1.4mm
Optional Nozzle	1.5-2.5mm	1.2-2.5mm
Operating Pressure	50-70psi	20-50psi
Pattern Width	180-250mm	190mm
Air Consumption	8.3cfm	8.8cfm
Cup Capacity	750ml	600ml




**ZP-03**(CH202)

**ZP-65**(NA2001C)

Art. No.	ZP-03	ZP-65
Standard Nozzle	1.8mm	1.8mm
Optional Nozzle	1.5-2.5mm	1.5-3.0mm
Operating Pressure	50psi	20-50psi
Pattern Width	110-250mm	220mm
Air Consumption	20cfm	8.8cfm
Cup Capacity	1000ml	600ml


**ZP-15**(BLOW-88A)

**ZP-16**(RD-821)

Art. No.	ZP-15	ZP-16
Standard Nozzle	1.8mm	1.4mm
Optional Nozzle	1.5-2.5mm	1.2-2.5mm
Operating Pressure	50-70psi	20-50psi
Pattern Width	180-250mm	190mm
Air Consumption	8.3cfm	7.5cfm
Cup Capacity	1000ml	600ml


**ZP-100**(PQ-2)

**ZP-62**(H-83)

Art. No.	ZP-100	ZP-62
Standard Nozzle	1.0mm	1.5mm
Optional Nozzle	1.0-2.0mm	1.0-2.0mm
Operating Pressure	50-70psi	50-70psi
Pattern Width	150mm	110-250mm
Air Consumption	110L/min	11.2cfm
Cup Capacity	1000ml	400ml




**ZP-103**(PQ-2U)

**ZP-101**(F-96)

Art. No.	ZP-103	ZP-101
Standard Nozzle	2.0mm	1.5mm
Optional Nozzle	1.5-2.5mm	1.0-2.0mm
Operating Pressure	50-70psi	50-70psi
Pattern Width	250mm	110-250mm
Air Consumption	14.5cfm	11.2cfm
Cup Capacity	1000ml	400ml


**ZP-104**(472A)

**ZP-102**(NA2001A)

Art. No.	ZP-104	ZP-102
Standard Nozzle	1.3mm	1.4mm
Optional Nozzle	-	1.2-2.5mm
Operating Pressure	50psi	20-50psi
Pattern Width	150mm	190mm
Air Consumption	110L/min	7.5cfm
Cup Capacity	1000ml	600ml


**ZP-26**(NA2008)

**ZP-19**(K-3)

Art. No.	ZP-26	ZP-19
Standard Nozzle	1.5mm	0.5mm
Optional Nozzle	1.3-1.5mm	-
Operating Pressure	50-70psi	50-70psi
Pattern Width	180mm	50mm
Air Consumption	8.2cfm	7.5cfm
Cup Capacity	200ml	200ml




**ZP-105**(472C)

**ZP-107**(527)

**ZP-75**(ST112)

**ZP-108**(472E)

**ZP-32**(PS-3)

**ZP-10**(9514A)

Art. No.	ZP-105	ZP-107	ZP-75	ZP-108	ZP-32	ZP-10
Standard Nozzle	1.3mm	1.3mm	1.3mm	2.0mm	2.0mm	4.0mm
Max Working Pressure	50psi	50psi	50psi	50psi	30-50psi	45-60psi
Pattern Width	150mm	170mm	170mm	-	-	-
Air Consumption	110L/min	110L/min	110L/min	110L/min	350L/min@70psi	12-15cfm
Cup Capacity	1000ml	1000ml	1000ml	1000ml	1000ml	5Liters
Packing	Colour Box	Colour Box	Colour Box	Colour Box	Colour Box	Colour Box




**ZP-08(D0-11)**

Standard Nozzle: 4.5-5.0mm  
 Max Working Pressure: 60psi  
 Cup Capacity: 600ml


**ZP-68(D0-10)**

Standard Nozzle: 4.0-5.0mm  
 Max Working Pressure: 60psi  
 Cup Capacity: 750ml


**ZP-110(D0-100)**

Standard Nozzle: 4.0-5.0mm  
 Max Working Pressure: 60psi  
 Cup Capacity: 750ml


**ZP-112(DG-10)**

Inlet Thread Size: 1/4"NPT or 1/4"BSP  
 Material: Aluminum


**ZP-37A(AFR-80)**

**Air Filter, Regulator & Lubricator**

Pipe Size: 1/4", 1/2", 3/8"  
 Use Pressure: 10Bar  
 Endure Pressure: 15Bar  
 Working Pressure: 0-7Bar


**ZP-38(AFR-80-2)**

**Air Filter, Regulator**

Pipe Size: 1/4", 1/2", 3/8"  
 Use Pressure: 10Bar  
 Endure Pressure: 15Bar  
 Working Pressure: 0-7Bar

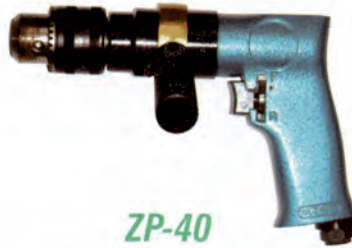

**ZP-28 5PCS Air Tool Kit**

Contents:  
 1pc-Spray Gun      1pc-Tire Inflating Gun  
 1pc-Washing Gun    1pc-Air Duster  
 1pc-5m Recoil Hose w/universal fast coupler  
 (Double Blister Packing)


**ZP-29 5PCS Air Tool Kit**

Contents:  
 1pc-Spray Gun      1pc-Tire Inflating Gun  
 1pc-Washing Gun    1pc-Air Duster  
 1pc-5m Recoil Hose




**ZP-39**

**ZP-40**

**ZP-41**

Art. No.	Drilling Cap	Free Speed	Air Inlet(PT)	Air Hose(ID)	Avg. Air Consumption	Sug. Air Comp.
ZP-39	3/8"	1800rpm	1/4"	3/8"	6cfm / 170L/min	2.0Hp
ZP-40	1/2"	700rpm	1/4"	3/8"	8cfm / 226L/min	2.0Hp
ZP-41	3/8"	2600rpm	1/4"	3/8"	6cfm / 170L/min	2.0Hp


**ZP-42**

**ZP-43**

**ZP-44**

Art. No.	Steel	Free Speed	Air Inlet(PT)	Air Hose(ID)	Avg. Air Consumption	Sug. Air Comp.
ZP-42	18GA/1.2mm	——	1/4"	3/8"	4cfm / 113L/min	1.5Hp
ZP-43	18GA/1.2mm	——	1/4"	3/8"	4cfm / 113L/min	1.5Hp
ZP-44	——	11000rpm	1/4"	3/8"	6cfm / 170L/min	2.5Hp


**ZP-45**

**ZP-117**

**ZP-118**

Art. No.	Capacity	Free Speed	Air Inlet(PT)	Air Hose(ID)	Avg. Air Consumption	Sug. Air Comp.
ZP-45	1/4"/6mm	25000rpm	1/4"	3/8"	4cfm / 115L/min	1.5Hp
ZP-117	1/4"/6mm	20000rpm	1/4"	3/8"	4cfm / 115L/min	1.5Hp
ZP-118	——	1600rpm	1/4"	3/8"	4cfm / 115L/min	1.5Hp




**ZP-119**

**ZP-46**

**ZP-47**

Art. No.	Sanding Pad	Free Speed	Air Inlet(PT)	Air Hose(ID)	Avg. Air Consumption	Sug. Air Comp.
ZP-119	—	10000rpm	1/4"	3/8"	4cfm / 115L/min	2.0Hp
ZP-46	—	10000rpm	1/4"	3/8"	4cfm / 115L/min	2.0Hp
ZP-47	6"150mm	25000rpm	1/4"	3/8"	12cfm / 340L/min	2.0Hp


**ZP-48**

**ZP-49**

**ZP-50**

Art. No.	Capacity	Free Speed	Air Inlet(PT)	Air Hose(ID)	Avg. Air Consumption	Sug. Air Comp.
ZP-48	5/32"-33/16"/4-5mm	8000rpm	1/4"	3/8"	6cfm / 170L/min	1.5Hp
ZP-49	5/32"/5mm	10000rpm	1/4"	3/8"	5cfm / 142L/min	1.5Hp
ZP-50	—	—	1/4"	3/8"	5.5cfm / 157m <sup>3</sup> L/min	2.0Hp


**ZP-51**

**ZP-52**

**ZP-53**

Art. No.	Square Drive	Free Speed	Air Inlet(PT)	Air Hose(ID)	Avg. Air Consumption	Sug. Air Comp.
ZP-51	1/2"	7800rpm	1/4"	3/8"	8cfm / 0.23m <sup>3</sup> L/min	2.0Hp
ZP-52	1/2"	4800rpm	1/4"	3/8"	7.5cfm / 0.21m <sup>3</sup> L/min	3Hp
ZP-53	3/8"	160rpm	1/4"	3/8"	4cfm / 0.11m <sup>3</sup> L/min	1.5Hp




**ZP-123**

**ZP-124**

**ZP-125**

Art. No.	Belt Size	Free Speed	Air Inlet(PT)	Air Hose(ID)	Avg. Air Consumption	Sug. Air Comp.
ZP-123	2/5"x13"/10x330mm	1600rpm	1/4"	3/8"	6cfm / 171L/min	1.5Hp
ZP-124	10x330mm	1600rpm	1/4"	3/8"	6cfm / 171L/min	1.5Hp
ZP-125	20x520mm	1600rpm	1/4"	3/8"	0.4m <sup>3</sup> /min	—


**ZP-77**  
**17PCS 1/2" Air Impact Wrench Kit**

- 1pc-1/2" air impact wrench
- 10pc-impact sockets 9,10,11,13,14,17,19,22,24,27mm
- 1pc-1/2"dr.x5"extension bar
- 1pc-hex key wrench
- 1pc-nipple
- 1pc-mini oiler
- 1pc-oil pot
- 1pc-blow mold case


**ZP-73**  
**1/4"(6MM) Air Die Grinder Kit**

- 1pc-air die grinder
- 2pc-hand wrenches
- 1pc-3mm(1/8")collet
- 5pc-1/4"(6mm)shank grinding stones
- 5pc-1/3"(6mm)shank grinding stones
- 1pc-nipple
- 1pc-blow mold case


**ZP-74**  
**3/16" Air-Hydraulic Riveter Kit**

- Kit including 3 sizes of rivets(3/16", 5/32", 1/8", 10pc per package) and all necessary accessories for replacement like nosepieces (3/16", 5/32", 1/8", 3/32"), nipple, oil pot, return springs, O-rings, wrenches, and etc.


**ZCP-57**

- Power: 1/4HP, 1/5HP
- Air Displacement: 2.3CFM
- Effective Air: 1.8cfm
- Max Pressure: 42.5psi


**ZCP-58A**

- Power: 1/5HP
- Air Displacement: 2.3cfm
- Effective Air: 1.8cfm
- Max Pressure: 42.5psi


**ZCP-17**

- Power: 1/3HP
- Air Displacement: 135L/min
- Max Pressure: 3.5Bar




**ZCP-01A**

**ZCP-09**

**ZCP-10**

Art. No.	ZCP-01A	ZCP-09	ZCP-10
Power	2.5Hp/1.8Kw	2.5Hp/1.8Kw	1Hp/0.75Kw
Speed	2850rpm	2850rpm	2850rpm
Tank Capacity	24L/6.3Gal	24L/6.3Gal	8L/2.1Gal
Pressure	115psi	115psi	115psi
Displacement	210L/min 7.6cfm	210L/min 7.6cfm	120L/min 4.3cfm

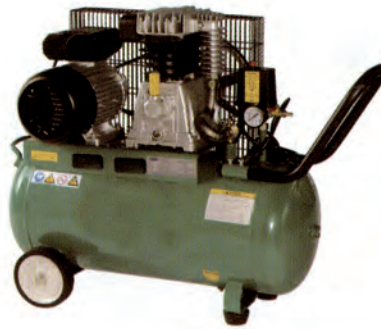

**ZCP-11**

**ZCP-02**

**ZCP-12**

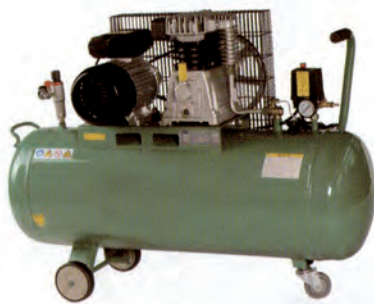
Art. No.	ZCP-11	ZCP-02	ZCP-12
Power	1Hp/0.75Kw	2.5Hp/1.8Kw	3Hp/2.2Kw
Speed	1400rpm	2850rpm	2850rpm
Tank Capacity	16L/4.2Gal	50L/13.2Gal	50L/13.2Gal
Pressure	115psi	115psi	115psi
Displacement	165L/min 5.7cfm	210L/min 7.6cfm	235L/min 8.1cfm




**ZCP-13**

**ZCP-05A**

**ZCP-14**

Art. No.	ZCP-13	ZCP-05A	ZCP-14
Power	3Hp/2.2Kw	2.5Hp/1.8Kw	3Hp/2.2Kw
Speed	2850rpm	790rpm	1050rpm
Tank Capacity	50L/10.6Gal	50L/12.9Gal	69L/17.8Gal
Pressure	115psi	115psi	115psi
Displacement	360L/min 13cfm	250L/min 9.0cfm	250L/min 9.0cfm











**ZCP-15**

**ZCP-16**

**ZCP-07**

Art. No.	ZCP-15	ZCP-16	ZCP-07
Power	3Hp/2.2Kw	10Hp/7.5Kw	15Hp/11Kw
Speed	1080rpm	810rpm	730rpm
Tank Capacity	100L/25.8Gal	170L/43.9Gal	270L/69.7Gal
Pressure	115psi	115psi	115psi
Displacement	300L/min 10.8cfm	900L/min 32.3cfm	1600L/min 57.6cfm



OIL PUMP		
 <p><b>5L</b></p> <p><b>ZO-106</b> Manual Grease Pump</p>	 <p><b>10L</b></p> <p><b>ZO-107</b> Manual Grease Pump</p>	 <p><b>4L</b></p> <p><b>ZO-108</b> Manual Grease Pump</p>
 <p><b>8L</b></p> <p><b>ZO-91</b> Manual Grease Pump</p>	 <p><b>16L</b></p> <p><b>ZO-78</b> Manual Grease Pump</p>	 <p><b>16L</b></p> <p><b>ZO-78A</b> Engine Oil Pump</p>
 <p><b>20L</b></p> <p><b>ZO-101</b> Manual Grease Pump</p>	 <p><b>20L</b></p> <p><b>ZO-08</b> Manual Grease Pump</p>	 <p><b>20L</b></p> <p><b>ZO-08A</b> Engine Oil Pump</p>



**OIL PUMP**


**ZO-117** Manual Grease Pump **12L**



**ZO-118** Manual Grease Pump **30L**



**ZO-119** Foot Operated Grease Pump **12L**

**AIR OIL PUMP**


**ZO-109** Air Grease Pump

- Pressure Ratio: 40:1
- Air Pressure: 0.6-0.8MPa
- Transmission Pressure: 24-32MPa
- Grease Output: 0.75L/Min



**ZO-110** Air Grease Pump

- Pressure Ratio: 40:1
- Air Pressure: 0.6-0.8MPa
- Transmission Pressure: 24-32MPa
- Grease Output: 0.75L/Min



**ZO-126** Grease Pump

- Pressure Ratio: 50:1
- Air Pressure: 0.6-0.8MPa
- Transmission Pressure: 30-40MPa
- Grease Output: 0.85L/Min



**ZO-127** Oil Pump

- Pressure Ratio: 5:1
- Air Pressure: 0.6-0.8MPa
- Oil Output: 12-14L



OIL PUMP



**ZO-04A**

Japan Type

19mm, 25mm, 32mm



**ZO-05**

Japan Type

32mm



**ZO-88**

Japan Type

32mm



NOTE: ALUMINIUM  
ALLOY

**ZO-88A**

Japan Type

32mm



**ZO-05A**

19mm, 25mm, 32mm



**ZO-88B**

32mm



**ZO-89**

Manual Type



**ZO-89A**

Manual Type



**OIL PUMP**



**ZO-76**  
Manual Type



**ZO-76A**  
Manual Type



**ZO-76B**  
Manual Type



**ZO-90**  
Hand-Type  
Chemical Pump  
Hassif Group

**GREASE GUN**



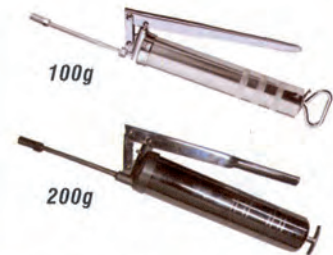
**ZO-73** Germany Type

500g



**ZO-74** British Type

500g



**ZO-75** Japan Type

100g

200g

**OIL CAN**



**ZO-70** American Type

300g

500g

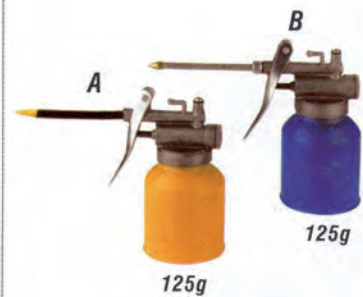


**ZO-71** Europe Type

250g

350g

500g



**ZO-72** American Type

125g

125g

A

B



**AIR GREASE PUMP**

**Z0-93** Air Grease Pump

- Pressure Ratio: 50:1
- Air Pressure: 0.6-0.8MPa
- Transmission Pressure: 30-40MPa
- Grease Output: 0.85L/Min
- Barrel Capacity: 12L


**Z0-120** Air Grease Pump

- Pressure Ratio: 40:1
- Air Pressure: 0.6-0.8MPa
- Transmission Pressure: 24-32MPa
- Grease Output: 0.75L/Min
- Barrel Capacity: 12L


**Z0-123** Air Grease Pump

- Pressure Ratio: 50:1
- Air Pressure: 0.6-0.8MPa
- Transmission Pressure: 30-40MPa
- Grease Output: 0.85L/Min
- Barrel Capacity: 20L


**Z0-121** Air Grease Pump

- Pressure Ratio: 50:1
- Air Pressure: 0.6-0.8MPa
- Transmission Pressure: 30-40MPa
- Grease Output: 0.85L/Min
- Barrel Capacity: 20L


**Z0-111** Air Grease Pump

- Pressure Ratio: 50:1
- Air Pressure: 0.6-0.8MPa
- Transmission Pressure: 30-40MPa
- Grease Output: 0.85L/Min
- Barrel Capacity: 30L


**Z0-124** Air Grease Pump

- Pressure Ratio: 50:1
- Air Pressure: 0.6-0.8MPa
- Transmission Pressure: 30-40MPa
- Grease Output: 0.85L/Min
- Barrel Capacity: 30L



**AIR GREASE PUMP**

**ZO-112** Air Grease Pump

- Pressure Ratio: 40:1
- Air Pressure: 0.6-0.8MPa
- Transmission Pressure: 24-32MPa
- Grease Output: 0.75L/Min
- Barrel Capacity: 20L


**ZO-113** Air Grease Pump

- Pressure Ratio: 40:1
- Air Pressure: 0.6-0.8MPa
- Transmission Pressure: 24-32MPa
- Grease Output: 0.75L/Min
- Barrel Capacity: 45L

**WASHER**
**High Pressure Washer**

Art. No.	ZO-131
Flow Rate	<9.62L/min
Working Pressure	1-6MPa
Max. Pressure	8MPa
Power	1.3Kw
RPM	220V


**High Pressure Washer**

Art. No.	ZO-130
Flow Rate	≤13L/min
Working Pressure	1-6MPa
Max. Pressure	8MPa
Power	1.6Kw
RPM	220V


**High Pressure Washer**

Art. No.	ZO-128A	ZO-128B
Flow Rate	20.36L/min	20.36L/min
Working Pressure	1-5MPa	1-7MPa
Max. Pressure	6MPa	8MPa
Power	2.2Kw	3Kw
RPM	1440r/min	1440r/min


**High Pressure Washer**

Art. No.	ZO-132A	ZO-132B	ZO-132C
Flow Rate	<15L/min	<11L/min	<15L/min
Working Pressure	6MPa	10MPa	14MPa
Max. Pressure	7MPa	12MPa	16MPa
Power	3Kw	3Kw	3Kw
RPM	380V	380V	380V









**ZFG-01 EUROPE TYPE LIGHT DUTY**


No.	Size(mm)	No.	Size(mm)
1	50X100	20	100X500
2	50X150	21	100X600
3	50X200	22	100X800
4	50X250	23	100X1000
5	50X300	24	100X1200
6	50X400	25	100X1500
7	80X150	26	120X200
8	80X200	27	120X250
9	80X250	28	120X300
10	80X300	29	120X350
11	80X400	30	120X400
12	80X500	31	120X450
13	80X600	32	120X500
14	100X200	33	120X600
15	100X250	34	120X800
16	100X300	35	120X1000
17	100X350	36	120X1200
18	100X400	37	120X1500
19	100X450	38	120X2000

**ZFG-02 EUROPE TYPE HEAVY DUTY**


No.	Size(mm)	No.	Size(mm)	No.	Size(mm)
1	50X100	21	80X250	41	120X450
2	50X150	22	80X300	42	120X500
3	50X200	23	80X400	43	120X600
4	50X250	24	80X500	44	120X800
5	50X300	25	80X600	45	120X1000
6	50X400	26	80X800	46	120X1200
7	60X100	27	100X200	47	120X1500
8	60X150	28	100X300	48	120X2000
9	60X200	29	100X400	49	140X300
10	60X250	30	100X500	50	140X350
11	60X300	31	100X600	51	140X400
12	60X400	32	100X800	52	140X500
13	60X450	33	100X1000	53	140X600
14	60X500	34	100X1200	54	140X800
15	60X600	35	100X1500	55	140X1000
16	60X700	36	120X200	56	140X1200
17	60X800	37	120X250	57	140X1500
18	60X900	38	120X300	58	140X2000
19	80X150	39	120X350		
20	80X200	40	120X400		

**ZFG-03 AMERICA TYPE**


LIGHT DUTY (60mm)			
No.	Size(inch)	No.	Size(inch)
1	6"	7	20"
2	8"	8	24"
3	10"	9	30"
4	12"	10	34"
5	16"	11	36"
6	18"	12	48"

LIGHT DUTY (120mm)			
No.	Size(inch)	No.	Size(inch)
1	8"	7	24"
2	10"	8	32"
3	12"	9	36"
4	14"	10	40"
5	16"	11	48"
6	20"	12	60"

**ZFG-04 FRANCE TYPE**


LIGHT DUTY			
No.	Size(inch)	No.	Size(inch)
1	120X500	3	120X1500
2	120X1000	4	120X2000

HEAVY DUTY			
No.	Size(inch)	No.	Size(inch)
1	120X300	6	120X1000
2	120X400	7	120X1200
3	120X500	8	120X1500
4	120X600	9	120X2000
5	120X800		


**ZFG-05 GERMANY TYPE**

No.	Size(inch)	No.	Size(inch)
1	50X100	13	80X600
2	50X150	14	80X800
3	50X200	15	120X200
4	50X250	16	120X300
5	50X300	17	120X400
6	50X400	18	120X500
7	80X150	19	120X600
8	80X200	20	120X800
9	80X250	21	120X1000
10	80X300	22	120X1200
11	80X400	23	120X1500
12	80X500	24	120X2000



**G CLAMP LIGHT DUTY**

**ZFG-06**

No.	Size(inch)
1	1"
2	2"
3	3"
4	4"
5	5"
6	6"
7	8"

**G CLAMP HEAVY DUTY**

**ZFG-07**

No.	Size(inch)
1	2"
2	3"
3	4"
4	5"
5	6"
6	8"
7	10"
8	12"

**THREE-JAW GEAR PULLER**

**ZFG-08** Single Hole

No.	Size(inch)
1	3"
2	4"
3	6"
4	8"
5	10"
6	12"
7	14"
8	16"
9	20"
10	24"


**ZFG-09** Double Holes

No.	Size(inch)
1	3"
2	4"
3	6"
4	8"
5	10"
6	12"

**TWO-JAW GEAR PULLER**

**ZFG-10** Single Hole

No.	Size(inch)
1	3"
2	4"
3	6"
4	8"
5	10"
6	12"
7	14"
8	16"


**ZFG-11** Double Holes

No.	Size(inch)
1	3"
2	4"
3	6"
4	8"
5	10"
6	12"

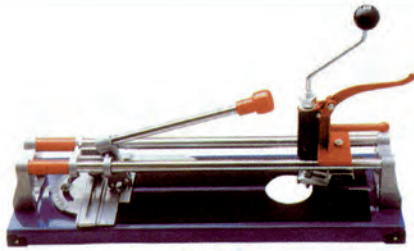
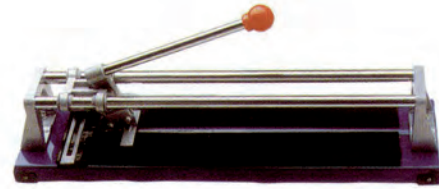

**ZFG-12** Germany Type

No.	Size(inch)
1	1#
2	2#
3	3#
4	4#
5	5#

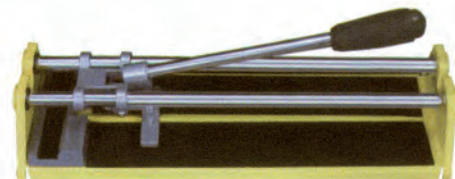

**ZFG-13** American Type

No.	Size(inch)
1	1#
2	2#
3	3#
4	4#
5	5#

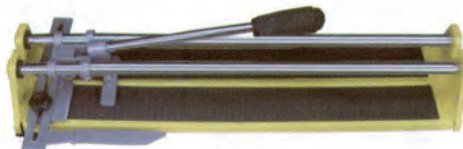



**ZO-02A**

**ZO-02B**

Art. No.	Size	Qty/Ctn
ZO-02A	400mm/16", 450mm/18", 500mm/20", 600mm/24", 700mm/28", 800mm/32"	4
ZO-02B	300mm/12", 350mm/14", 400mm/16", 450mm/18", 500mm/20", 600mm/24"	4


**ZO-02C**

**ZO-02D**

Art. No.	Size	Qty/Ctn
ZO-02C	200mm/8", 250mm/10", 300mm/12", 330mm/13", 350mm/14", 400mm/16"	10
ZO-02D	330mm/13"	12


**ZO-02E**

**ZO-02F**

Art. No.	Size	Qty/Ctn
ZO-02E	500mm/20"	4
ZO-02F	300mm/12"	6


**ZO-02G**

**ZO-02H**

Art. No.	Size	Qty/Ctn
ZO-02G	450mm/18"	6
ZO-02H	430mm, 600mm	2



## BLOCK SERIES



ZO-57A Japan Type		
Capacity (ton)	Test Load (ton)	Standard Listingheight(m)
0.5	0.75	2.5
1	1.5	2.5
1.5	2.25	2.5
2	3	2.5
3	4.5	3
5	7.5	3
10	12.5	3
20	25	3



ZO-57B Japan Type		
Capacity (ton)	Test Load (ton)	Standard Listingheight(m)
0.5	0.75	2.5
1	1.5	2.5
1.5	2.25	2.5
2	3	2.5
3	4.5	3
5	7.5	3
10	12.5	3
20	25	3



ZO-57C Chinese Type		
Capacity (ton)	Test Load (ton)	Standard Listingheight(m)
0.5	0.75	2.5
1	1.5	2.5
1.5	2.25	2.5
2	3	2.5
3	4.5	3
5	7.5	3
10	12.5	3
20	25	3



ZO-57D Europe Type		
Capacity (ton)	Test Load (ton)	Standard Listingheight(m)
0.75	1.1	1.5
1.5	2.2	1.5
3	4.41	1.5
6	7.35	1.5

## PULLEY



**A**  
Single Wheel Pulley




**B**  
Two Wheel Pulley



**C**  
Three Wheel Pulley

**ZO-87** Capacity: 0.5T, 1T, 2T, 3T, 5T, 10T, 20T, 30T, 50T

## MULTIFUNCTION FASTENER



**ZO-69** Capacity: 1T, 2T, 4T



**MAGNETIC LIFTER**

**ZO-96**

Rated Lifting Capacity(kg)	Max Break-away Force(kg)	N.W(kg)
100	300	3
400	1200	11
600	1800	22
1000	3500	40
1500	4500	48
2000	6000	60
3000	9000	90
4000	12000	120
5000	15000	165

**CROSSBEAM CLAMP**

**ZO-97**

W.L.L (T)/Pair	Steel Plate Thickness(mm)
1	75-220
2	75-220
3	80-320
5	80-320

**LIFTING CLAMP SERIES**

**ZO-98**

W.L.L (T)/Pair	Steel Plate Thickness(mm)
0.8	0-15
1	0-20
1.6	0-25
2.5	25-50
3.2	0-40
5	50-80


**ZO-99**

W.L.L (T)/Pair	Steel Plate Thickness(mm)
1	0-30
2	0-40
3	0-45
5	0-55
10	0-125


**ZO-100**

W.L.L (T)/Pair	Steel Plate Thickness(mm)
0.8	0-15
1.6	0-20
2	0-25
3.2	0-25
5	0-30
8	0-45
16	50-150


**ZO-92**

W.L.L (T)/Pair	Steel Plate Thickness(mm)
1	0-20
2	0-25
3	0-35
5	0-50
8	0-60


**ZO-102**

W.L.L (T)/Pair	Steel Plate Thickness(mm)
1	0-15
2	0-25
3	0-30


**ZO-103**

W.L.L (T)/Pair	Steel Plate Thickness(mm)
1.5	0-20
2.5	0-30
5	0-40
10	0-60


**ZO-104**

W.L.L (T)/Pair	Steel Plate Thickness(mm)
1	0-50
2	0-60
3	0-90
5	0-120
8	0-130


**ZO-105**

W.L.L (T)/Pair	Steel Plate Thickness(mm)
0.6	0-30