



FOR ADVANCED INDUSTRIES CO.

FOURS



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**Manufacture cutting , grinding discs
welding cables ,wires & consumables**

 www.fourswire.com



About US

Fours FOR ADVANCED INDUSTRIES Co. Ltd. Was established in 2011 we are a leading manufacturer and exporter of full range of Resin Bonded Cutting and Grinding Wheels, with high quality Abrasives.

We have sets of most advanced Auto/Semi auto press machines Under quality control by **ISO9001** our materials /semi products/ final products are strictly controlled every step.

we have the most advanced Testing Machine from ABRA, Italy, and we own the Quality certificate and testing certificate from WELLSONIC since Nov. 2019. as we guarantee to our customers to carry out Quality Policy as per EN12413 standard.

“ We manufacture according to the highest European specifications, the finest type of materials, and the latest international production lines. Our products are meets European specifications and quality with local prices ”



CERTIFICATES



ISO 9001 Certificate



Accreditation by the Egyptian Standards and Quality Authority



Technical Support Certificate

Welding Machine

Welding machine & Inverter welding machine & cutting welding machine
Automatic welding machine & Plasma welding machine

220 V - 380 V	160 A	180 A	250 A	315 A	400 A	500 A	630 A
BX1	*	*	*	*	*	*	*
ZXE1 - AC - DC			*	*	*	*	*
BX6			*				
TIG / MMA			*	*	*		
MIG / MAG			*	*	*	*	
CUT - 40 - 60 - 100							



THIN CUTTING TYPE 1, TYPE 41 (FLAT CENTER)



Dia	Thickness	Hole	Max RPM	Grit (code no.)		
4-100mm	0.45" - 1 mm	5/8 - 16 mm	15200	A60T (FS-100-4 -10 st.)	WA60T (FS-100-4pro)	Z60T (FS-100-4xp)
4.1/2 - 115mm	0.45" - 1 mm	7/8 - 22.2 mm	13300	A60T (FS-115-4.5 st.)	WA60T (FS-115-4.5pro)	Z60T (FS-115-4.5xp)
5-125mm	0.54" - 1.2 mm	7/8 - 22.2 mm	12200	A60T (FS-125-5 st.)	WA60T (FS-125-5pro)	Z60T (FS-125-5xp)
7-180mm	0.62" - 1.6 mm	7/8 - 22.2 mm	8700	A46T (FS-180-7 st.)	WA46T (FS-180-7pro)	Z46T (FS-180-7xp)
9-230mm	0.8" - 1.9 mm	7/8 - 22.2 mm	6600	A36T (FS-230-9 st.)	WA36T (FS-230-9pro)	Z36T (FS-230-9xp)

STANDARD

Normal Metal
Inox Cutting

DIY& Economical
Cutting

CHEAP price

PRO

Inox/Stainless
Steel Cutting

Fast cool &
Aggressive Cutting

Fe+S+Cl<0.1%

XP

High Tensile
Alloy Cutting

professional cutting
for very hard ALLOY

Fe+S+Cl<0.1%



GENERAL CUTTING TYPE 1, TYPE 41 (FLAT CENTER)



Dia	Thickness	Hole	Max RPM	Grit (code no.)		
4-100mm	0.8" - 2 mm 3/32" - 2.5 mm 1/8" - 3.2 mm	5/8 - 16 mm	15200	A46S(FS-100-4-20st.) A36S(FS-100-4-25st.) A30S(FS-100-4-32st.)	WA46S(FS-100-4-20pr.) WA36S(FS-100-4-25pr.) WA30S(FS-100-4-32pr.)	Z46S(FS-100-4-20xp.) Z36S(FS-100-4-25xp.) Z30S(FS-100-4-32xp.)
4.1/2 - 115mm	0.8" - 2 mm 3/32" - 2.5 mm 1/8" - 3.2 mm	7/8 - 22.2 mm	13300	A46S(FS-115-4.5-20st.) A36S(FS-115-4.5-25st.) A30S(FS-115-4.5-32st.)	WA46S(FS-115-4.5-20pr.) WA36S(FS-115-4.5-25pr.) WA30S(FS-115-4.5-32pr.)	Z46S(FS-115-4.5-20xp.) Z36S(FS-115-4.5-25xp.) Z30S(FS-115-4.5-32xp.)
5-125mm	0.8" - 2 mm 3/32" - 2.5 mm 1/8" - 3.2 mm	7/8 - 22.2 mm	12200	A46S(FS-125-5-20st.) A36S(FS-125-5-25st.) A30S(FS-125-5-32st.)	WA46S(FS-125-5-20pr.) WA36S(FS-125-5-25pr.) WA30S(FS-125-5-32pr.)	Z46S(FS-125-5-20xp.) Z36S(FS-125-5-25xp.) Z30S(FS-125-5-32xp.)
7-180mm	0.8" - 2 mm 3/32" - 2.5 mm 1/8" - 3.2 mm	7/8 - 22.2 mm	8700	A46S(FS-180-7-20st.) A36S(FS-180-7-25st.) A30S(FS-180-7-32st.)	WA46S(FS-180-7-20pr.) WA36S(FS-180-7-25pr.) WA30S(FS-180-7-32pr.)	Z46S(FS-180-7-20xp.) Z36S(FS-180-7-25xp.) Z30S(FS-180-7-32xp.)
9-230mm	0.8" - 2 mm 3/32" - 2.5 mm 1/8" - 3.2 mm	7/8 - 22.2 mm	6600	A46S(FS-230-9-20st.) A36S(FS-230-9-25st.) A30S(FS-230-9-32st.)	WA46S(FS-230-9-20pr.) WA36S(FS-230-9-25pr.) WA30S(FS-230-9-32pr.)	Z46S(FS-230-9-20xp.) Z36S(FS-230-9-25xp.) Z30S(FS-230-9-32xp.)

STANDARD	Normal Metal Inox Cutting	DIY & Economical Cutting	CHEAP price
PRO	Inox/Stainless Steel Cutting	Fast cool & Aggressive Cutting	Fe+S+Cl<0.1%
XP	High Tensile Alloy Cutting	professional cutting for very hard ALLOY	Fe+S+Cl<0.1%



Stainless Steel For Corrosion Resistance Electrodes

Product name	AWS A5 - 4	EN 1600
ES 308 L 15	E 308 L 15	E 19 9 L B 22
ES 308 L 17	E 308 L 17	E 19 9 L R 12
ES 308 H 15	E 308 H 15	E 19 9 H B 42
ES 316 H 16	E 316 H 16	E 19 9 H R 42
ES 316 L 17	E 316 L 17	E 19 12 3 L R 12
ES 318 17	E 318 17	E 19 12 3 N B R 32
ES 410 B	E 410 - 15	E 13 B 22
ES 410 NIMO	E 410 NIMO 25	E 13 4 B 62
ES 430 B	E 430 - 15	E 17 B B 22
ES 347 16	E 347 - 16	E 19 9 N B R 32
ES 2209 15	E 2209 - 15	E 22 9 3 N L B 22
ES 2209 16	E 2209 - 16	E 22 9 3 N L R 12

Overlay Welding and Hard facing Electrodes

Product name	AWS 5, 13 DIN 8555	GB/ T984 EN 14700
ES HF 40		EDCRNI-B-15
ES HF 40A		DGS K 502-41
ES HF MNA	E FOMN - A	EDMN-A-16
ES HF 40B		EDPCRMO-A3-03
ES HF 45H		EDZCR-B-16
ES HF 55		EDRMOWV-A1-03
ES 260	E2-UM-60	Efe 4
ES 400	E1-UM-400G	EZ FO 1
ES 600	E6-UM-608	EFE8
ES 850	E8-UM-80	EFE8

Stain less Steel for Dissmeier joint and Special Application Electrodes

Product name	AWS A5-4	EN 1600
ES 307 B	E 307 - 15	E 18 8 MN B 22
ES 307 16	E 307 - 16	E 18 8 MN B 12
ES 308 MO B	E 308 Mo - 15	E 29 9 3 B 22
ES 309 L 16	E 309 L - 16	E 23 12 L R 32
ES 309 MOL	E 309 mol - 17	E 23 12 2 L R 32
ES 310 B	E 310 - 15	E 25 20 B 22
ES 310 16	E 310 - 16	E 25 20 R 12
ES 312 16	E 312 - 16	E 29 9 R 32

Gouging and joint preparing Electrodes

Es Gouging

GAS Metal Arc Welding Wires

Product name	AWS 5.18	EN 440
ES SG2	ER 70S-6	G 38 3 C G3511
ES SG3	ER 70S-6	G 38 2 C G351

FLUX CORED WIRES

Product name	AWS 5.20	EN 758 1997
ES 71TIC	E71TIC	T 46 2PC 2H10
ES 71TIM	E71TIM	T 48 2P M 2H10

Submerged Arc Welding Wires

Product name	AWS 5.17	EN 756
EL 12	EL 12	S1
EM 12	EM 12	S2
EM 12 K	EM 12 K	S2S1

Welding wire



LIST OF PRODUCT

Rutile Coated Electrodes

Product name	AWS A5-1	EN 499
ES 32 00	E 6013	E 38 0 RC 11
ES 7014	E7014	E 42 0 RC 11

LOW CARBON BASE COATED Electrodes

Product name	AWS A5-1	EN 499
ES 4500	E 7018	E 42 4 B 42 H5
ES 7016	E 7016	E 42 5 B 12 H5
ES 4700	E 7016 - 1	E 42 5 B 12 H5
ES 5500	E 7018 - 1	E 46 5 B 32 H5

CELLULOSIO COATED ELECTRODES

Product name	AWS A5-1	EN 499
ES 6010	E 6010	E 38 2 C 21
ES 7010 G	E 7010 G	E 42 2 Z C 21
ES 7010 A1	E 7010 A1	E 42 3 MO C 25
ES 8010 G	E 8010 - G	E 46 2 Z C 21
ES 9010 G	E 9010 - G	E 50 3 1 NI C 25

HIGH EFFICIENCY IRON POWDER ELECTRODES

Product name	AWS A5-1	EN 499
ES 7024	E 7024	E 38 0 RR 74
ES 7024 - 1	E 7024 - 1	E 38 0 RR 54
ES 7028	E 7028	E 51 4 B 62 H5

HIGH TENSILE LOW ALLOY STEELS

Product name	AWSA5.5	EN 499 EN 757 EN 1699
ES 8018 G	E 8018 G	E 46 5 Z 8 32
ES 8018 GCU	E 8018 G	E 42 2 Z 8 42 H5
ES9018 G	E 9018 G	E ZCRM B 42 H5
ES 9018 D1	E 9018 D1	E 55 4 MN MO B32
ES 10018 G	E 10018 G	E 62 MN 2 NICRMOB 42 H5
ES 11018 G	E 11018 G	E69 4 MN 2 NICRMOB 32

LOW TEMPERATURE SERVICES LOW ALLOY STEELS

Product name	AWS A5.5	EN 499 EN ISO 2560 -A
ES 8018 C1	E 8018 C1	E 46 6 2NI B 32 H5
ES 8018 C2	E 8018 C2	E 46 8 3NI B 42 H5
ES 8018 GCR	E 8018 GCR	E 46 6 1NI B 42 H5

Heat Resistant Low Alloy Steels

Product name	AWS A5.5	EN 1599 EN ISO 3580-A
ES 7018 A1	E 7018 A1	E MO 42 H5
ES 8018 B2	E 8018 B2	E CrMO 1B 42 H5
ES 8018 B6	E 8018 B6	E CRMO 5B 42 HS
ES 9018 B3	E 9018 B3	E CrMO 2B 42 H5
ES 9018 B9	E 9018 B9	E ZCRMOWVNB B42 H5

Cast Iron Electrodes

Product name	AWS 5,15	DIN 8573
ES EST	E ST	
ES NIFEC1 (NI55%)	E NIFEC1	E NIF- 1- B G 11
ES NI C1 (NI99%)	E NIC1	E NI- BG 11

CHOP & STATIONARY - SAWS TYPE 1, TYPE 41

Dia	Thickness	Hole	Max RPM	Grit (code no.)	
10" - 250 mm	1/8" - 3.2 mm	1" - 25.4/20 mm	6100	A30R (FS-250-10 -32 st.)	WA30S (FS-250-10-32pro)
12" - 300 mm	1/8" - 3.2 mm	1" - 25.4/20 mm	5100	A30R (FS-300-12 -32 st.)	WA30S (FS-300-12-32pro)
14" - 350 mm	5/32" - 3.9 mm	1" - 25.4/32 mm	4400	A30R (FS-350-14 -39 st.)	WA30S (FS-350-14-39pro)
16" - 400 mm	5/32" - 3.9 mm	1" - 25.4/32 mm	3850	A30R (FS-400-16 -39 st.)	WA30S (FS-400-16-39pro)

HIGH SPEED GAS POWERED SAWS FOR RAILWAY TYPE 1, TYPE 41

Dia	Thickness	Hole	Max RPM	Grit (code no.)
12" - 300 mm	5/32" - 3.9 mm	1" - 25.4 mm	6300	ZA24R (FS-300-12-39pro)
14" - 350 mm	5/32" - 3.9 mm	1" - 25.4 mm	5500	ZA24R (FS-350-14-39pro)
16" - 400 mm	5/32" - 3.9 mm	1" - 25.4 mm	4800	ZA24R (FS-400-16-39pro)

STANDARD

Normal Metal
Inox Cutting

DIY& Economical
Cutting

CHEAP price

PRO

Inox/Stainless
Steel Cutting

Fast cool &
Aggressive Cutting

Fe+S+Cl<0.1%

XP

High Tensile
Alloy Cutting

professional cutting
for very hard ALLOY

Fe+S+Cl<0.1%



GENERAL CUTTING TYPE 42 (DEPRESSED CENTER)



Dia	Thickness	Hole	Max RPM	Grit (code no.)		
4-100mm	0.8" - 2 mm 3/32" - 2.5 mm 1/8" - 3.2 mm	5/8 - 16 mm	15200	A46S(FS-100-4-20st.) A36S(FS-100-4-25st.) A30S(FS-100-4-32st.)	WA46S(FS-100-4-20pr.) WA36S(FS-100-4-25pr.) WA30S(FS-100-4-32pr.)	Z46S(FS-100-4-20xp.) Z36S(FS-100-4-25xp.) Z30S(FS-100-4-32xp.)
4.1/2 - 115mm	0.8" - 2 mm 3/32" - 2.5 mm 1/8" - 3.2 mm	7/8 - 22.2 mm	13300	A46S(FS-115-4.5-20st.) A36S(FS-115-4.5-25st.) A30S(FS-115-4.5-32st.)	WA46S(FS-115-4.5-20pr.) WA36S(FS-115-4.5-25pr.) WA30S(FS-115-4.5-32pr.)	Z46S(FS-115-4.5-20xp.) Z36S(FS-115-4.5-25xp.) Z30S(FS-115-4.5-32xp.)
5-125mm	0.8" - 2 mm 3/32" - 2.5 mm 1/8" - 3.2 mm	7/8 - 22.2 mm	12200	A46S(FS-125-5-20st.) A36S(FS-125-5-25st.) A30S(FS-125-5-32st.)	WA46S(FS-125-5-20pr.) WA36S(FS-125-5-25pr.) WA30S(FS-125-5-32pr.)	Z46S(FS-125-5-20xp.) Z36S(FS-125-5-25xp.) Z30S(FS-125-5-32xp.)
7-180mm	0.8" - 2 mm 3/32" - 2.5 mm 1/8" - 3.2 mm	7/8 - 22.2 mm	8700	A46S(FS-180-7-20st.) A36S(FS-180-7-25st.) A30S(FS-180-7-32st.)	WA46S(FS-180-7-20pr.) WA36S(FS-180-7-25pr.) WA30S(FS-180-7-32pr.)	Z46S(FS-180-7-20xp.) Z36S(FS-180-7-25xp.) Z30S(FS-180-7-32xp.)
9-230mm	3/32" - 2.5 mm 1/8" - 3.2 mm	7/8 - 22.2 mm	6600	A36S(FS-230-9-25st.) A30S(FS-230-9-32st.)	WA36S(FS-230-9-25pr.) WA30S(FS-230-9-32pr.)	Z36S(FS-230-9-25xp.) Z30S(FS-230-9-32xp.)

STANDARD	Normal Metal Inox Cutting	DIY& Economical Cutting	CHEAP price
PRO	Inox/Stainless Steel Cutting	Fast cool & Aggressive Cutting	Fe+S+Cl<0.1%
XP	High Tensile Alloy Cutting	professional cutting for very hard ALLOY	Fe+S+Cl<0.1%



Welding Cable (American Standard)

AWG	Stranding	O.D	Ampacity	Lbs./ 1000'
#6	258	319	75	120
#4	412	366	100	180
#2	647	425	110	260
#1	817	508	140	320
1/0	1027	555	160	400
2/0	1290	598	180	500
3/0	1650	673	265	610
4/0	2065	716	310	760
250 MCM	2479	866	445	965
350 MCM	3416	953	552	1345

WELDING CABLE (RUBBER):245IEC81

- Conductor:0.12-0.20mm stranded copper wires
- Neoprene / EDPM Rubber sheath
- Size: 16mm² / 25mm² / 35mm² / 50mm² / 70mm² / 95mm² / 120mm²
- AWG: #6 / #4 / #2 / #1 / 1/0 / 2/0 / 3/0 / 4/0
- Working Temperature :-20 / 90 C
- Working Current :120-800 Amp

WELDING CABLE (PVC):245IEC82

- Conductor : 0.12-0.20mm stranded copper wires
- PVC / TPR Double Sheath
- Size: 16mm² / 25mm² / 35mm² / 50mm² / 70mm² / 95mm² / 120mm²
- AWG: #6 / #4 / #2 / #1 / 1/0 / 2/0 / 3/0 / 4/0
- Working Temperature :-15 / 65 C
- Working Current :120-800 Amp



Welding Cables

PVC welding cables

Welding Cable (3C Standard) GB5013.6-1997

Model	Description	Applications
YH (245 ICE 81)	Natural-SBR insulated and sheathed electric welder cable	Secondary side of ac voltage not over 200 v and 400 v pulse peak welding machine with the secondary side connection and the connection with copper electrode holder rubber set soft cable
YHF (245 ICE 82)	Natural-SBR insulated polychloroprene sheathed electric welder cable	Secondary side of ac voltage not over 200 v and 400 v pulse peak welding machine with the secondary side connection and the connection with copper electrode holder rubber set soft cable (outdoor and oil resistant type)

Character of service

Cable core long-term allowed working temperature is + 65 c
 The dc resistance of finished cable wire core when the temperature is 20 c should comply with the regulations of the test.
 The cable into the greenhouse water after 6 hours, 50 hz2000v can withstand voltage test for 5 minutes, and breakdown does not occur :

IEC 82 245 IEC 81 (YH) and 245 (YHF) welding cable

Nominal cross Sectional area mm ²	Average external dia mm		Calculated weight of cable kg/km		Maximum resistance of conductor Ar20Ω/km	
	Lower limit	Upper limit			Copper conductor	Tinned round Copper
10	7.5	9.7	141	155.1	1.91	1.95
16	9.2	11.5	214.2	235.6	1.16	1.19
25	10.5	13	312	343.2	0.758	0.78
35	11.5	14.5	428.5	471.3	0.536	0.552
50	13.5	17	599	628.9	0.379	0.39
70	15	19.5	811	859.7	0.268	0.276
95	17	22	1065	1128.9	0.198	0.204
120	19	24	1345	1452.7	0.161	0.164
150	21	27	1666.7	1766.7	0.129	0.132

GENERAL GRINDING TYPE 27 (DEPRESSED CENTER)



Dia	Thickness	Hole	Max RPM	Grit (code no.)		
4-100mm	1/4" - 6.4 mm 8/25" - 8 mm 2/25" - 10 mm	5/8 - 16 mm	15200	A24R (FS-100-4-64 st.) A24R (FS-100-4-80 st.) A24R (FS-100-4-10 st.)	WA24R (FS-100-4-64 pr.) WA24R (FS-100-4-80 pr.) WA24R (FS-100-4-10 pr.)	Z24R (FS-100-4-64 xp.) Z24R (FS-100-4-80 xp.) Z24R (FS-100-4-10 xp.)
4.1/2-115mm	1/4" - 6.4 mm 8/25" - 8 mm 2/25" - 10 mm	7/8 - 22.2 mm	13300	A24R (FS-115-4.5-64 st.) A24R (FS-115-4.5-80 st.) A24R (FS-115-4.5-10 st.)	WA24R (FS-115-4.5-64 pr.) WA24R (FS-115-4.5-80 pr.) WA24R (FS-115-4.5-10 pr.)	Z24R (FS-115-4.5-64 xp.) Z24R (FS-115-4.5-80 xp.) Z24R (FS-115-4.5-10 xp.)
5-125mm	1/4" - 6.4 mm 8/25" - 8 mm 2/25" - 10 mm	7/8 - 22.2 mm	12200	A24R (FS-125-5-64 st.) A24R (FS-125-5-80 st.) A24R (FS-125-5-10 st.)	WA24R (FS-125-5-64 pr.) WA24R (FS-125-5-80 pr.) WA24R (FS-125-5-10 pr.)	Z24R (FS-125-5-64 xp.) Z24R (FS-125-5-80 xp.) Z24R (FS-125-5-10 xp.)
7-180mm	1/4" - 6.4 mm 8/25" - 8 mm 2/25" - 10 mm	7/8 - 22.2 mm	8700	A24R (FS-180-7-64 st.) A24R (FS-180-7-80 st.) A24R (FS-180-7-10 st.)	WA24R (FS-180-7-64 pr.) WA24R (FS-180-7-80 pr.) WA24R (FS-180-7-10 pr.)	Z24R (FS-180-7-64 xp.) Z24R (FS-180-7-80 xp.) Z24R (FS-180-7-10 xp.)
9-230mm	1/4" - 6.4 mm 8/25" - 8 mm 2/25" - 10 mm	7/8 - 22.2 mm	6600	A24R (FS-230-9-64 st.) A24R (FS-230-9-80 st.) A24R (FS-230-9-10 st.)	WA24R (FS-230-9-64 pr.) WA24R (FS-230-9-80 pr.) WA24R (FS-230-9-10 pr.)	Z24R (FS-230-9-64 xp.) Z24R (FS-230-9-80 xp.) Z24R (FS-230-9-10 xp.)

STANDARD

Normal Metal
Inox Cutting

DIY& Economical
Cutting

CHEAP price

PRO

Inox/Stainless
Steel Cutting

Fast cool &
Aggressive Cutting

Fe+S+Cl<0.1%

XP

High Tensile
Alloy Cutting

professional cutting
for very hard ALLOY

Fe+S+Cl<0.1%



CONCRETE / MANSORY CAST IRON CUTTING TI TI 41 - TI 42 - TI 27

Dia	Thickness	Hole	Max RPM	Grit (code no.)
4-1/2" - 115 mm	1/8" - 3.2 mm	7/8" - 22.2 mm	13300	AC30R(FS-114-4.5-32 pro)
5" - 125 mm	1/8" - 3.2 mm	7/8" - 22.2 mm	12200	AC30R(FS-125-5-32 pro)
7" - 180 mm	1/8" - 3.2 mm	7/8" - 22.2 mm	8700	AC30R(FS-180-7-32 pro)
9" - 230 mm	1/8" - 3.2 mm	7/8" - 22.2 mm	6600	AC30R(FS-230-9-32 pro)

CONCRETE / MANSORY CAST IRON GRINDING TI 27

Dia	Thickness	Hole	Max RPM	Grit (code no.)
4-1/2" - 115 mm	1/8" - 6.4 mm	7/8" - 22.2 mm	13300	AC24R(FS-114-4.5-32 pro)
5" - 125 mm	1/8" - 6.4 mm	7/8" - 22.2 mm	12200	AC24R(FS-125-5-32 pro)
7" - 180 mm	1/8" - 6.4 mm	7/8" - 22.2 mm	8700	AC24R(FS-180-7-32 pro)
9" - 230 mm	1/8" - 6.4 mm	7/8" - 22.2 mm	6600	AC30R(FS-230-9-32 pro)



Air Compressors

LT	BAR	HP	HEAD	DIMENSION		
				L	W	H
24	11	1.5	COPELAND	60	26	58
30	11	1.5	2051	70	30	60
50	11	2	2055	80	36	71
100	11	2	2060	113	40	83
200	11	3	2065	135	50	111
300	11	4	2070	145	55	116
500	11	5.5 & 7.5	2090	195	60	127

