

International - Edition

Welding & Cutting Equipment

Engineered to Perfection



WELDERS TO THE NATION SINCE 1951



(Formerly known as Advani-Oerlikon Ltd.)
www.adorwelding.com

RHINO-D SERIES

Powered Performance
DIESEL ENGINE DRIVEN WELDING SET



**TOUGH
TENACIOUS
TROPICALISED**



RHINO-D SERIES

- Versatile applications, including cross-country & inplant pipe and tube welding. Ideal for site fabrication, repair and maintenance.
- Highly reliable, even in most hostile site conditions.
- Savings in fuel and longer runs before next refuelling.
- Specially proven with Cellulosic and other special types of electrodes.
- Wide range of auxiliary power sources available.
- Controlled noise levels.
- Attractive warranties. Excellent pre & post sales service.
- Auxiliary generator protected by MCB
- Brushless design for welding power generator -- negligible maintenance.
- Remote control unit with 10 mtr. cable provided.
- Fuel gauge, Hour Meter, Engine protection for low lube oil pressure and high cylinder temperature provided as standard scope of supply.

TECHNICAL SPECIFICATION FOR 400AMP,500AMP & 600 AMPS DIESEL ENGINE DRIVEN WELDING SETS

MODEL	Unit	Rhino-D 400 K3	Rhino-D 500 K3	Rhino-D 500 K4	Rhino-D 600 K4
WELDING GENERATOR	Type	Brushless	Brushless	Brushless	Brushless
Welding current range	Amps	50-400	60-500	60-500	70-600
Max. hand welding current @ 40% duty cycle	Amps	-	-	-	600
Max. continuous hand welding current @ 60% duty cycle	Amps	400	500	500	500
Welding current @ 100% duty cycle	Amps	310	400	400	400
Open circuit voltage	Volts	100/45	100/45	100/45	95
Generally conforms to	BIS	2635	2635	2635	2635
Speed	RPM	1800	1800	1800	1800
Insulation	Type	F	F	F	F
ENGINE					
Make	Type	KOEL	KOEL	KOEL	KOEL
Type		HA 394	HA 394	HA 494	HA 494
Cylinder	Nos.	3	3	4	4
Engine cooling	Type	Air Cooled	Air Cooled	Air Cooled	Air Cooled
Engine rating @ 1800 RPM	BHP	38	38	52	52
Conforms to		ISO 3046 - ICXN	ISO 3046 - ICXN	ISO 3046 - ICXN	ISO 3046 - ICXN
Starting (12 V)	Type	Electric	Electric	Electric	Electric
Fuel consumption	Ltrs/hr.	4.5	5	5.5	5.8
Fuel tank capacity	Ltrs.	70	70	70	70
Engine safety protections		Provided with engine auto shut-off device to protect the engine in the event of low lube oil pressure, fan belt failure & high cylinder head temperature.			
AUXILIARY POWER SOURCE (Built in)					
	Type	Brushless	Brushless	Brushless	Brushless
Rating	KVA/KW	3	3	3	3
Voltage	Volts	240/120	240/120	240/120	240/120
Phases	No.	1	1	1	1
MCCB Rating	Amp.	16/32	16/32	16/32	16/32
Dimensions, Weight & Mounting Details:					
Skid Mounted					
Length	mm	2000	2000	2000	2000
Width	mm	740	740	740	740
Height	mm	1250	1250	1250	1250
Weight (net)	Kgs.	1065	1080	1100	1150
2Wheel, Tractor mounted					
Length	mm	2950	2950	2950	2950
Width	mm	1400	1400	1400	1400
Height	mm	1850	1850	1850	1850
Weight (net)	Kgs.	1215	1230	1250	1300
4Wheel, Tractor mounted					
Length	mm	3400	3400	3400	3400
Width	mm	1400	1400	1400	1400
Height	mm	1850	1850	1850	1850
Weight (net)	Kgs.	1315	1330	1350	1400

CHAMP MULTI 400 / CHAMP MULTI 400 (SSPW)

The new world class inverter based,
indigenous multi-process welding outfits

CC/CV



Champ Multi 400 Suitable for ALL position MIG/MAG welding applications -both within shopfloor as well as at open yards and project sites (with due protection or shield against windy air)

- Suitable for wide range of metals like Carbon Steel, Stainless Steel, Aluminum and it's alloys, with appropriate or recommended consumable
- Most recommended for Railway workshops, wagon manufacturing and fabrication factories, ship building and other heavy industrial applications

Champ Multi 400 (SSPW) is proven with cellulosic 6010, 7010G, 8010G and other special electrodes, shelf shielded flux cored wires such as AWS 5.29, ASME SFA 5.29, E71T8K2 and E81T8G for Manual welding (rootpass and hot pass) and Semiautomatic welding processes for cross country pipeline welding applications



MODELS	UNIT	CHAMPMULTI 400 / CHAMPMULTI 400 SSPW	
		MMA MODE	MIG/FCAW MODE
Supply voltage	Volt	415	415
Phase	No	3	3
Input KVA @ 100% Duty cycle	KVA	14	13
Welding current range	Amp	50-400	40-400
Open circuit voltage	Volt	75	62
Welding current / volts @ 60% Duty cycle	Amp		400
Welding current / volts @ 100% Duty cycle	Amp		310
Type of cooling	Type		Forced Air
Class of Insulation	Class		H
Actual Dimensions (LxWxH)	mm		740x490x720
Weight (approx.)	Kgs		69
Wire feeder options	GMAW Appln	Type	FEEDLITE 20 (NE) / 40 (NE)
	FCAW Appln	Type	WF-40 MULTI(I)
Wire feed motor		Type	PMDC
Wire feed speed	GMAW Appln	m/min	1.5-18
	FCAW Appln	m/min	1-6
Dimensions	Feedlite	mm	450x170x275
	WF-40 MULTI(I)	mm	520x240x360
Wire feeder weight	Feedlite	Kg	8
	WF-40 MULTI(I)	Kg	20
Torch (3mtr) options	GMAW Appln	Model	Ador TW 400(E)
	FCAW Appln	Model	SUPER SSPW 350

DOUBLE MUSTANG / DOUBLE RACER DOUBLE HORSE / DOUBLE STALLION

THOROUGH BRED SERIES TRANSFORMERS



- AC arc welding transformers for every applications from medium to heavy duty welding both within shopfloor as well as project sites
- Most recommended for site maintenance welding and medium/heavy structural welding like tankages, AC arc welding with special material like 9% nickel alloy etc
- Most reliable and dependable, natural air cooled transformes - ideal choice for most project sites



MODELS	UNIT	DOUBLE MUSTANG	DOUBLE RACER	DOUBLE HORSE	DOUBLE STALLON
Supply voltage	Volt	230/400	415	415	415
Phase	No	← 2 LINES OF 3 PHASE →			
Input KVA @ 100% Duty cycle	KVA	10.8	16.0	21.0	25.5
Open circuit voltage	Volt	66	80	80	80
Welding current range	Amp	35-250	50-300	60-400	80-500
Welding current @ 60% Duty cycle	Amp	190	225	300	375
Welding current @ 100% Duty cycle	Amp	150	175	230	300
Class of insulation	Class	H	H	H	H
Type of cooling	Type	Natural Air	Natural Air	Natural Air	Natural Air
Dimensions(LxWxH)	mm	590x425x660	650x475x700	650x500x725	650x550x755
Weight (approx.)	Kg	92	120	140	170

CHAMP 400

The new world class Inverter based Indigenous DC welder

- Three phase inverter based, high efficiency and high power factor DC Welder
- Enhanced Reliability due to SMD technology
- High frequency IGBT based Rectifier
- Arc force adjustment on panel.
- TIG Welding possible with External HF Unit



MODELS	UNIT	CHAMP 400
Supply voltage	Volts	415
Phase	No	3
Max Input power @100%	KVA	14
Open circuit voltage	Volts	80
Welding current range	Amps	10-400
Welding current @ 60% Duty cycle	Amps	400
Welding current @ 100% Duty cycle	Amps	310
Type of cooling	Type	Forced Air
Class of insulation	Class	H
Dimensions (LxWxH)	mms	680x340x675
Weight	Kgs	67

CHAMP T400

The new world class inverter based Indigenous DC welder



- Three phase inverter based, high efficiency and high power factor DC Welder
- Enhanced Reliability due to SMD technology
- High frequency IGBT based Rectifier
- Arc force adjustment on panel.
- TIG Welding possible with External HF Unit
- Light weight, compact and portable for easy handling
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MODELS	UNIT	CHAMP T400
Supply voltage	Volts	415
Phase	No	3
Max Input power	KVA	14
Open circuit voltage	Volts	72
Welding current range	Amps	10-400
Welding current @ 60% Duty cycle	Amps	400
Welding current @ 100% Duty cycle	Amps	310
Type of cooling	Type	Forced Air
Class of insulation	Class	H
Dimensions (LxWxH)	mms	610x295x520
Weight	Kgs	32

THYROLUXE 401 / THYROLUXE 600 THYROLUXE 1000 / THYROLUXE 1200

The world class Thyristor based DC welders



- Thyristor based heavy duty DC Welding and Gouging Rectifiers.
- Stepless control for current adjustments.
- Constant current drooping characteristics – Ideal for Welding and Gouging applications.
- Power source provided with built in Hot start, Antistick and self controlled Arc force dynamics.



MODELS	UNIT	THYROLUXE 401	THYROLUXE 600	THYROLUXE 1000	THYROLUXE 1200
Supply voltage	Volts	415	415	415	415
Phase	No	3	3	3	3
Max Input power @ 60%	KVA	23.5	40	81	96.5
Open circuit voltage	Volts	100	100	100	100
Welding current range	Amps	10-400	20-600	100-1000	100-1200
Welding current @ 60% Duty cycle	Amps	400	600	850	1200
Welding current @ 100% Duty cycle	Amps	310	465	650	930
Type of cooling	Type	Forced Air	Forced Air	Forced Air	Forced Air
Class of insulation	Class	F	H	H	H
Dimensions (LxWxH)	mms	790x585x810	930x685x940	1230x770x1080	1200x700x1175
Weight	Kg	160	240	403	450

HF 2000 / HF 2000 AD & HF 3000 / HF 3000 AD

TIG WELDING CONTROL UNITS

The high efficiency, low power consumption, World Class DC and AC/DC TIG control units.



- Light Weight, Compact & Portable for greater flexibility in operation.
- Suitable for TIG Welding application with SMAW Power Source of any make.
- Gas Prewflow / Postflow facility.
- Gas flow through solenoid valve for Economical consumption of costly Argon gas.



MODELS	UNIT	HF 2000	HF 2000AD	HF 3000	HF 3000AD
Supply voltage	Volt	230	230	230	230
Phase	No	1	1	1	1
Welding current DC @ 60% Duty cycle	Amp	200	200	300	300
Welding current DC @ 100% Duty cycle	Amp	150	150	230	230
Welding current AC @ 60% Duty cycle	Amp	-	150	-	250
Welding current AC @ 100% Duty cycle	Amp	-	110	-	180
Gas Pre flow Time	Sec.	0.1-5	0.1-5	0.1-5	0.1-5
Gas Post flow Time	Sec.	1-30	1-30	1-30	1-30
Mode of operation	Type	2T/4T	2T/4T	2T/4T	2T/4T
Arc striking	Type	HF/ Touch start	HF/ Touch start	HF/ Touch start	HF/ Touch start
Class of Protection	Class	IP 23	IP 23	IP 23	IP 23
Torch model	Type	HIPROTIG 201-4/HIPROTIG 201-8	HIPROTIG 201-4/HIPROTIG 201-8	HIPROTIG 301-4/HIPROTIG 301-8	HIPROTIG 301-4/HIPROTIG 301-8
Dimensions (LxWxH)	mm	440x165x315	560x290x438	614x400x580	614x400x880
Weight (approx.)	Kg	10	25	45	50

RANGER 403 / RANGER 503

MIG / MAG WELDING OUTFITS

Most Reliable and Dependable Thyristor based welding power source, suitable for MIG/MAG Semiautomatic and Automatic welding applications.



- Suitable for ALL position MIG/MAG welding applications -both within shopfloor as well as at open yards and project sites (with due protection or shield against windy air)
- Suitable for wide range of metals like Carbon Steel, Stainless Steel, Aluminum and it's alloys, with appropriate or recommended consumable
- Most recommended for MIG/MAG welding applications where high metal deposition rates, high productivity and quality is a must



MODELS	UNIT	RANGER 403	RANGER 503
Supply voltage	Volt	415	415
Phase	NO.	3	3
Input KVA @ 100% Duty cycle	KVA	20	27
Welding current range	Amp	60-400	60-500
Open circuit voltage	Volt	62V +/-3V	62V +/-3V
Welding current/volts @ 60% Duty cycle	Amp	400	500
Welding current/volts @ 100% Duty cycle	Amp	310	390
Type of cooling	Type	Forced Air	Forced Air
Class of Insulation	Class	H	H
Dimensions (LxWxH)	mm	440x705x835	440x705x835
Weight (approx.)	Kg	160	175
Wire feeder options	Type	Feedlite 20 (PN) Feedlite 40 (PN)	Feedlite 20 (PN) Feedlite 40 (PN)
Wire feed motor	Type	PCB Servo	
Wire feed speed	m / min	1.2-18	1.2-18
Dimensions	mm	460x200x280	460x200x280
Wire feeder weight	Type	9	9
Torch (3mtr)	Model	Ador TW 400 (E) / MTG 400 (E)	

MAESTRO 600 T(F) / 800T(F) / 1000T(F) / 1200T(F)

A range of SAW welding and equipment to suit wide range of applications



- These welding equipments/outfits are recommended for SAW welding of heavy duty longitudinal structures like girder, I-beams, plus beam welding applications, where high deposition rates and welding productivity are desired
- Ideal choice for butt weld, fillet weld, double V joint welding of plates as required in ship building industry, railway, construction of bridges, components of earth moving equipments etc
- Most suitable for thick plate welding applications where X ray quality welding with excellent mechanical properties and good finish of weld beads are essential



MODELS	UNIT	MAESTRO 600- T (F)	MAESTRO 800- T (F)	MAESTRO 1000- T (F)	MAESTRO 1200- T (F)
Supply voltage	Volts	415	415	415	415
Phase	No.	3	3	3	3
Max Input power @ 100%	KVA	30	40	50	57
Open circuit voltage (max.)	Volts	62	62	62	62
Welding current range	Amps	600	800	1000	1200
Welding current @ 60% Duty cycle	Amps	600	800	1000	1200
Welding current @ 100% Duty cycle	Amps	465	650	800	1000
Type of cooling	Tye	Forced Air	Forced Air	Forced Air	Forced Air
Class of insulation	Class	H	H	H	H
Dimensions (LxWxH)	mms	930x685x940	1225x800x900	1225x800x900	1225x800x900
Weight	Kg	240	350	365	390
Welding Head (Tractor mounted)	Model	WH 15	WH 15	WH 15	WH 15
Welding Head - (BOOM mounted)	Model	BOOM mounted SAW welding heads with 3 option, namely WH 15-01/ WH 15-02 and WH 15-03			

PLASMACUT 25

Air plasma cutting system with unmatched cutting speed

- Recommended for air plasma cutting applications of all electrically conducting sheet metal up to 25 mm thick in the industries like sheet metal fabrication, Bus and coach body building workshops, Railway and transport workshops, power stations, chemical & fertiliser plants, construction & maintenance workshops, food processing and pharmaceutical equipments using SS, scrap cutting & demolition, ship breaking etc
- Most recommended for applications where good cutting finish with minimum distortion and HAZ, burrfree, drossfree clean cuts with narrow curf are required
- Ideally suitable for metal cutting applications where Oxy Acetylene cutting process is not feasible or Oxy/Acetylene gases are not available, good clean cuts with higher cutting productivity are desired



MODELS	UNIT	PLASMACUT 25
Supply voltage	Volt	415
Phase	No	3
Input KVA @ 100% Duty cycle	KVA	28
Open circuit voltage	Volt	300
Cutting current range	Amp	100
Cutting current @ 60% Duty cycle	Amp	100
Type of cooling	Type	Forced Air
Class of insulation	Class	B
Dimensions	mm	800x370x825
Weight (approx.)	Kg	165
Cutting Torch	Model	CCT 25(A)

MAXIMIG 400

Diode based MIG/MAG welding outfit



- Recommended for All position MIG/MAG welding applications
- Suitable for wide range of metals like Carbon Steel, Stainless Steel, Aluminum and it's alloys, with appropriate or recommended consumable
- Ideally recommended for heavy duty MIG/MAG welding applications like crane structure components manufacturing, 3 shift use, rough handling on the shopfloor and fabrication shops where maintenance staff is not very qualified



MODELS	UNIT	MAXIMIG 400
Supply voltage	Volt	415
Phase	No	3
Input KVA @ 100% Duty cycle	KVA	17.5
Welding current range	Amp	50-400
Open circuit voltage	Volt	18-54
No. of steps	No	32
Welding current/volts @ 60% Duty cycle	A / V	400/34
Welding current/volts @ 100% Duty cycle	A / V	310/29.5
Dimensions (LxWxH)	mm	835x435x820
Class of Insulation	Class	H
Weight (approx)	Kg	136
Wire feeder	Type	Feedlite 40 (NEM)
Wire feed motor	Type	PMDC
Wire feed speed	m/min	1.2-18
Dimensions (LxWxH)	mm	8
Wire feeder weight	Type	130x180x310
Torch (3mtr)	Model	Ador TW 250 E / Ador TW 400 E / MTG 400 E



WELDERS TO THE NATION SINCE 1951
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