

EDW350/400

Engine Driven Welder + Power Unit

- Diesel engine driven welding units for MMA welding and auxiliary power supply unit.
- MMA welding with any class of electrode including cellulosic with long lead.
- Remote control unit is provided as standard to adjust welding parameters, while welding in progress.
- Highly efficient and powerful engine to work under any climatic conditions.
- Needs minimum maintenance except regular wear-parts.

Technical Data	EDW 350	EDW 400
Engine		
Make	Mahindra & Mahindra	Cummins
Model	3305GM	S3.8G4
No. of cylinders	3	4
Type of cooling	Water	Water
Starter	12V Lucas	12V Lucas
Battery capacity, Ah	75	120
Governor	Mechanical	Mechanical
Power at 1500 rpm, BHP	30	58
Fuel	Diesel	Diesel
Fuel tank volume, ltr	75	80
Fuel consumption, ltr/hr	3.2	4.5
Welding Output		
Open circuit voltage, VDC	90	90
Welding current range, A	10-350	10-400
Output at 60% duty cycle, A	300	400
Electrode type	All including cellulosic	All including cellulosic
Electrode size, mm	4.0/ continuous	5.0/continuous
Auxiliary Output		
3Ph supply, kVA, V/Ph, Hz	7.5, 415/3, 50	10,415/3,50
1Ph supply, kVA, V/Ph, Hz	2.5, 230/1, 50	5, 230 / 1, 50
Size		
Dimensions, l x w x h, mm	2600x1030x1800	2900 x 1400x2010
Weight approximate, Kg	900	1250
Undercarriage with tow bar	2 wheels as standard	2 wheels as standard
Noise Level		
DB at 1 m distance	75	75
Compliance	CPCB	CPCB

Smashweld 4000T

All Purpose Semi-Automatic Welding Equipment

- MIG/MAG welding on all metals including Al and Cu.
- Rubber wheels and gas cylinder base.
- Digital V/A Meter to display welding parameters.
- Variable inductance to minimize spatter.

Technical Data	Smashweld 4000T
Power Source	
Mains supply, Ph x V, Hz	3x415,50
Open circuit voltage, VDC (Max) / steps	18-45/20
Welding current range, A	20 - 400
Output at 60% duty cycle, A	270
Type of cooling	Forced Air
Dimensions, lxwxh, mm	530 x 980 x 850
Weight, Kg	78

Wire Feeder	Servo - III
Wire feed speed, m/min	1 -22
Wire diameter, mm / type	0.6- 1.2/MS,AI, FC
Weight, Kg	11

LAB 4000

Heavy Duty Semi-Automatic MIG/MAG Welding Equipment

- MIG/MAG welding on all metals including Al and Cu.
- Rubber wheels and gas cylinder base.
- Digital V/A Meter to display welding parameters.
- Stepless adjustment of welding current.
- Variable inductance to minimize spatter.

Technical Data	LAB 4000
Power Source	LAB 4000
Main supply, Ph x V, Hz	3x415,50
Open circuit voltage, VDC (Max) / steps	17 - 44 / stepless
Welding current range, A	40 - 360
Output at 60% duty cycle, A	320
Type of cooling	Forced Air
Dimensions, lxwxh, mm	885 x 505 x 1065
Weight, Kg	153
Wire Feeder	Servo - III
Wire feed speed, m/min	1 -22
Wire diameter, mm / type	0.6- 1.2/MS,AI, FC
Weight, Kg	11

Auto K 400/600

Thyristorised Power Sources for MIG / MAG Welding

- Heavy-duty thyristorised welding power sources for high quality manual or mechanized MIG/MAG welding output.
- Hex phase rectification gives almost ripple free welding output free from spatter.
- Stick-out control eliminates demand for operator's skill.
- Fresh Tip Treatment (FTT) control eliminates formation of globules at the wire tip during weld stop condition.
- Fresh Arc Start (FAS) control instantaneously enhances the arc-striking rate for better arc striking.
- Self hold circuitry with crater control module.
- Pre-flow of shielding gas with burn-back control for optimum utilizations.
- An ideal choice for MIG/MAG welding application with enhanced productivity and quality.

Technical Data	Auto K 400	Auto K 600
Power Source		
Mains supply, Ph x V, Hz	3x415±10%, 50	3x415±10%, 50
Open circuit voltage, VDC (Max)	55	68
Welding current range, A	60 - 400	60 - 600
Output at 60% duty cycle, A	400	600
Output at 100% duty cycle, A	310	470
Adjustment of welding current	Stepless	Stepless
Remote current regulator type	RCU-AUTO K 400	RCU-AUTO K 400
Type of cooling	Forced Air	Forced Air
Dimensions, l x w x h, mm	675 x 350 x 690	617x455x850
Weight, Kg	122	160
Wire Feeder	Servo - I	Servo - II
Drive system	DC motor	DC motor
Speed control	Stepless	Stepless
Wire feed mechanism	Double roll quick	Double roll quick

	changeover type	changeover type
Length, m (Standard)	5	5
Length, m (Optional)	10/ 15/20	10/15/20/30
Wire feed speed, m/min	1.5 - 19 m/min	1.5 - 19 m/min
Wire diameter, mm / type	0.8- 1.2	0.8- 1.6
Weight, Kg	7	9

Auto K 400 Synergic

Thyristorised Power Sources with Synergic Feature for MIG/MAG

- Synergic feature coupled with the features of standard Auto K 400 to operate in manual / synergic mode.
- Software based auto selection of parameters using inputs of wire diameter, material and shielding gas.
- User settable non-volatile and editable job memories.
- Separate adjustment for crater.
- LCD display for welding parameters.
- Mounted on rubberized wheels for better mobility along with gas cylinder base.

Technical Data	Auto K 400 Synergic												
Power Source													
Mains supply, Ph x V, Hz	3x415±10%, 50												
Open circuit voltage, VDC (Max)	55												
Welding current range, A	60 - 400												
Output at 60% duty cycle, A	400												
Output at 100% duty cycle, A	310												
Adjustment of welding current	Stepless												
Type of cooling	Forced Air												
Dimensions, l x w x h, mm	930 x 480 x 800												
Weight, Kg	115												
Remote Current Regulator type	RCU-AUTO K 400												
Synergic Pendant													
Wire and gas combinations for operation in the synergic mode	<table border="1"> <thead> <tr> <th>Wire</th> <th>Wire Dia</th> <th>Gas</th> </tr> </thead> <tbody> <tr> <td>Fe</td> <td>0.8 /1.2 /1.6</td> <td>CO2</td> </tr> <tr> <td>SS</td> <td>0.8/1.2/1.6</td> <td>Argon Mix</td> </tr> <tr> <td>Al</td> <td>0.9/1.2/1.6</td> <td>Argon</td> </tr> </tbody> </table>	Wire	Wire Dia	Gas	Fe	0.8 /1.2 /1.6	CO2	SS	0.8/1.2/1.6	Argon Mix	Al	0.9/1.2/1.6	Argon
Wire	Wire Dia	Gas											
Fe	0.8 /1.2 /1.6	CO2											
SS	0.8/1.2/1.6	Argon Mix											
Al	0.9/1.2/1.6	Argon											
No. of job memories (User-defined)	9												
Wire Feeder	Servo -I												
Drive system	DC motor												
Speed control	Stepless												
Wire feed mechanism	2-roll quick changeover type 4-roll drive optional												
Length of interconnection, mtr	5												
Wire feed speed, m/min	1.5 - 19 m/min												
Wire diameter, mm	0.8- 1.2												
Wire type Weight, Kg	MS/Al/FC 7												

SCR 400(S)

MIG/MAG Welding units for Shipyard

- Heavy-duty thyristorised power sources designed specially to meet the welding applications for shipyards.
- Wire feeder interconnection up to 50m possible
- Suitable for all types of wires - Solid/flux-cored
- Light weight and compact wire feeder for reaching all locations
- Standard 2-roll quick changeover mechanism or optional 4-roll drive
- Outstanding welding performance.

Technical Data	SCR 400(S)
Power Source	
Mains supply, Ph x V, Hz	3x415± 10%, 50

Welding current - Max, A	400
Dimensions, l x w x h, mm	710x435x760
Weight, Kg	149
Wire Feeder Type	Servo
Wire feed mechanism	2-roll quick changeover type 4-roll drive optional
Weight, Kg	7

Origo Mig L3000i/ C3000i (Q-Set)

Inverter Power Sources for Short-Arc Application in MIG/MAG, MMA

- Inverter power sources suitable for MIG/MAG and MMA welding and MIG brazing application on thin sheets.
- Automatic adjustment of the welding parameters in MIG/MAG welding (Q-Set).
- Burns electrodes of any class of size up to 5.0 mm in MMA welding.
- No / minimal post welding operation required.
- Best quality of parameter setting by the machine on different jobs.

Technical Data	Mig L3000i	Mig C3000i
Power Source		
Mains supply, Ph x V, Hz	3x400±10%, 50	3x400±10%, 50
Open circuit voltage, VDC (Max)	80	80
Welding current range, A	16-300	16-300
Output at 60% duty cycle, A	240	240
Output at 100% duty cycle, A	200	200
Type of cooling	Forced Air	Forced Air
Enclosure class	IP23C	IP23C
Application class	S	S
Standards of compliance	I EC/EN 60974-1 I EC/EN 60974 -10	I EC/EN 60974 -1 I EC/EN 60974 -10
Dimensions, l x w x h, mm	652 x 249 x 423	652x412x423
Weight, Kg	26.5	38
Wire Feeder	Origo Feed L3004	Enclosed
Drive system	4-Roll Drive	4-Roll Drive
Length of interconnection, m	1.7/5/10/ 15	-
Max. diameter of wire spool, mm	300	300
Wire feed speed, m/min	0.8 - 25 m/min	0.8 - 25 m/min
Wire type	MS/Al/FC	MS/Al/FC
Wire diameter, mm	0.6- 1.2	0.6- 1.2
Standards of compliance	IEC/EN60974-5	-
Dimensions, l x w x h, mm	690 x 275 x 420	-
Weight, Kg	15	-
Control Panel	MA23A (Q-Set)	MA23A (Q-Set)
Inductance	0- 100	0- 100
2/4 Stroke	Yes	Yes
Gas pre/post flow, s	0.1 -9.9	0.1 -9.9
Burn back time, ms	50 - 250	50 - 250
Weld data memory	3	3
Q-Set	ON or OFF	ON or OFF

Aristo Mig 4000i/5000i

Heavy-duty Multi-process Inverter Power Sources for MIG/MAG (Pulse/Synergic/ Non-Pulse), MMA Welding and Arc Gouging

- Inverter power source for applications demanding high level of performance.
- Robust construction, body made of aluminium to prevent corrosion and handle tough working environments.
- Both Cooling Fan and Pump function on demand, extremely low no-load power consumption.
- Communication system is based on CAN-bus for efficient control with minimization of cables.
- Dust filter to handle tough and dirty working environment and avoid grinding dust and metal particles inside the chassis of the power source.
- Suitable for both manual and mechanized applications with outstanding welding characteristics.

Technical Data	Mig 4000i	Mig 5000i
Power Source		
Mains supply, Ph x V, Hz	3x400±10%, 50	3x400±10%, 50
Open circuit voltage, VDC (Max)	80	80
Welding current range, A	16-400	16-500
Output at 60% duty cycle, A	320	500
Output at 100% duty cycle, A	250	400
Type of cooling	Forced Air	Forced Air
Enclosure class	IP 23	IP23C
Application class	S	S
Standards of compliance	I EC/EN 60974-1 I EC/EN 60974 -10	I EC/EN 60974 -1 I EC/EN 60974 -10
Dimensions, l x w x h, mm	625 x 394 x 476 625 x 394 x 776*	625 x 394 x 476 625 x 394 x 776*
Weight, Kg	57 / 77*	66 / 86*
Cooling Unit*		
Cooling power, W**	2500*	2500*
Coolant	50% water and 50% glycol*	50% water and 50% glycol*
Coolant quantity, ltr	5.5*	5.5*
Maximum water flow, ltr/min	2*	2*

Applies to water cooled models Aristo Mig 4000iw /5000iw only At 40 Deg C temperature difference and flow rate 1.5 ltr/min

Aristo Mig U4000i / U5000i

Heavy-duty Multi-process Inverter Power Sources for MIG/MAG (Pulse / Synergic / Non-Pulse), MM A Welding and Arc Gouging

- Inverter power source for applications demanding high level of performance.
- Robust construction, body made of aluminium to prevent corrosion and handle tough working environments.
- Both Cooling Fan and Pump function on demand, extremely low no-load power consumption.
- Communication system is based on CAN-bus for efficient control with minimization of cables.
- Dust filter to handle tough and dirty working environment and avoid grinding dust and metal particles inside the chassis of the power source.
- Suitable for both manual and mechanized applications with outstanding welding characteristics.

Technical Data	Mig U4000i	Mig U5000i
Power Source		
Mains supply, Ph x V, Hz	3x400±10%, 50	3x400±10%, 50
Open circuit voltage, VDC (Max)	80	80
Welding current range, A	16-400/4-400#	16-500/4-500#
Output at 60% duty cycle, A	320	500
Output at 100% duty cycle, A	250	400
Type of cooling	Forced Air	Forced Air
Enclosure class	IP 23	IP 23
Application class	S	S
Standards of compliance	IEC/EN 60974-1 IEC/EN 60974 -10	IEC/EN 60974 -1 IEC/EN 60974 -10
Dimensions, l x w x h, mm	625 x 394 x 476 625 x 394 x 776*	625 x 394 x 476 625 x 394 x 776*
Weight, Kg	61 /81*	69 / 89*
Cooling Unit*		
Cooling power, W**	2500*	2500*
Coolant	50% water and 50% glycol*	50% water and 50% glycol*
Coolant quantity, ltr	5.5*	5.5*
Maximum water flow, ltr/min	2*	2*

Current range for TIG

Applies to water cooled models Aristo Mig 4000iw / 5000iw only
At 40 Deg C temperature difference and flow rate 1.5 ltr/min

Aristo Feed 3004/4804 MA4 Aristo Feed 3004/4804 MA6

Wire Feeders for Aristo Mig 4000i/5000i

- Heavy-duty construction with 4-roll drive.
- All feed rollers are geared and grooved for maximum grip and positive force to facilitate better feeding.
- Digital V/A meter for displaying welding parameters.
- Remote control available optionally.
- Fully enclosed wire spool to protect the wire spool.

Technical Data	Aristo Feed 3004	Aristo Feed 4804
Mains supply, Ph x V, Hz	1 x 42, 50	3x400± 10%, 50
Drive system	4-Roll Drive	4-Roll Drive
Length of interconnection, m	1.7/5/10/15/25/35	1.7/5/10/15/25/35
Max. diameter of wire spool, mm	330 / 440*	330 / 440*
Wire feed speed, m/min	0.8 - 25	0.8 - 25
Wire type	MS/Al/FC	MS/Al/FC
Wire diameter, mm	0.6- 1.6	0.6-2.4
Enclosure class	IP23	IP23
Standards of compliance	IEC/EN60974-5/-10	IEC/EN 60974 -5/10
Dimensions, l x w x h, mm	690 x 285 x 420	690 x 285 x 420
Weight, Kg	17.5	22.5
Coolant - max pressure, bar	5**	5**

Applies to water cooled models Aristo Feed 3004w / 4804w only, which are suitable for Aristo Mig 4000iw/5000iw only
With additional bobbin adapter

Technical Data	Control Panel MA4	Control Panel MA6
2/4 Stroke	X	X
Crater filling	X	X
Adjustable burn back time	X	X
Creep start	X	X
Hot start		X
Inductance	X	X
Gas pre/post flow	X	X
Digital V/A meters	X	X
Gas purge/wire inching		X
Pre-programmed synergic lines		X
Memory 10 set		X
Pulse / synergic pulse		X

Aristo Feed 3004/4804 U6
Aristo Feed 3004/4804 M0 + Aristo Pendant U8
 Wire Feeders for Aristo Mig U4000i / U5000i

- Heavy-duty construction with 4-roll drive.
- All feed rollers are geared and grooved for maximum grip and positive force to facilitate better feeding.
- Digital V/A meter for displaying welding parameters.
- Remote control available optionally.
- Fully enclosed wire spool to protect the wire spool.

Technical Data	Aristo Feed 3004	Aristo Feed 4804
Mains supply, Ph x V, Hz	1 x 42, 50	3x400± 10%, 50
Drive system	4-Roll Drive	4-Roll Drive
Length of interconnection, m	1.7/5/10/15/25/35	1.7/5/10/15/25/35
Max. diameter of wire spool, mm	330 / 440**	330 / 440**
Wire feed speed, m/min	0.8 - 25	0.8 - 25
Wire type	MS/Al/FC	MS/Al/FC
Wire diameter, mm	0.6- 1.6	0.6-2.4
Enclosure class	IP23	IP23
Standards of compliance	IEC/EN60974-5/-10	IEC/EN60974-5/-10
Dimensions, l x w x h, mm	690 x 285 x 420	690 x 285 x 420
Weight, Kg	17.5	22.5
Coolant - max pressure, bar	5*	5*

Applies to water cooled models Aristo Feed 3004w/4804w only, which are suitable for Aristo Mig 4000iw/5000iw only. With additional bobbin adapter.

Technical Data	Control Panel U6	Pendant U8#
2/4 Stroke	X	X
Crater filling	X	X
Adjustable burn back time	X	X
Creep start	X	X
Hot start	X	X
Inductance	X	X
Gas pre/post flow	X	X
Digital V/A meters	X	X
Gas purge/wire inching	X	X
Pre-programmed synergic lines	X	X(>100)
Memory 10 set	X	
Memory 255 set		X
Pulse / synergic pulse	X	X
Create synergic lines		X

Can also be used with Aristo Mig 4000i /5000i without TIG functionalities

MIG Torches-Air/ Water Cooled

PSF 250 /305/405/505 3/4.5m Air Cooled PSF410w/510w3/4.5m Water Cooled

- Heavy-duty construction.
- Ergonomically designed handle.
- All torches come with EURO connection as standard.
- All torches come with 50° swan neck as standard.
- Straight neck and 60° swan neck available optionally.
- 360° swiveling facility.
- Wide range of wear parts e.g. liners, contact tips and gas nozzles available for welding in all positions.
- Conforms to international standard I EC/EN 60974-7.

Technical Data	PSF 250	PSF 305	PSF 405	PSF 305
Type of cooling	Air/Gas	Air/Gas	Air/Gas	Air/Gas
Wire diameter, mm	0.6- 1.0	0.8- 1.2	0.8- 1.6	1.0-2.4
Wire type	MS/Al/FC	MS/Al/FC	MS/Al/FC	MS/Al/FC
Rating, A @ % duty cycle	15@ 60%	315@60%	380@ 60%	475@ 60%
Length, m	3/4.5	3/4.5	3/4.5	3/4.5
Weight, Kg	1.8/2.5	2.5/3.3	3.1/4.2	3.9/5.3
Technical Data	PSF410w		PSF510w	
Type of cooling	Water		Water	
Wire diameter, mm	0.8- 1.6		1.0-2.4	
Wire type	MS/Al/FC		MS/Al/FC	
Rating, A @ % duty cycle	500 @100%		500@ 100%	
Length, m	3/4.5		3/4.5	
Weight, Kg	3.0/3.9		3.3/4.0	