



**WHERE HIGH
PRECISION
AND SUPER STRENGTH
MEET AT ONE JOINT**



ARCRAFT PLASMA
EQUIPMENTS (INDIA) PVT. LTD.

ARCRAFT-POWER 160/ 200/ 300/ 400/HF/PULSE IGBT Inverter DC STICK / TIG Welder

FEATURES

- Light weight & compact : 80% less weight compared to conventional machines.
- No Load Input of only 0.2 amps results in substantial savings in power cost.
- On load power consumption 50% lesser than conventional machines.
- Designed to work under wide voltage fluctuations, protected against High Voltage, Low Voltage, Single Phasing, Over Heating with indications.
- Duty cycle calculated at 40 degrees centigrade ambient temperature to suit Indian conditions.
- In-built selectable pulsing of 1 to 10 Hz of output current.
- Full Pulse welding systems available with gas pre - flow, Up slope, Down slope, Gas post flow and pre settable current.
- High OCV & controlled start current ensures reliable electrode ignition at set current.
- Suitable to work with high frequency units for TIG without modifications.
- Dynamic Arc Force facility, fast regulation speed & excellent dynamic properties ensure spatter free welding even with difficult electrodes.
- Reliable start even at 3 amps in TIG without any surge in welding current makes it suitable for thin sheet welding.

APPLICATIONS

- Chemical Plant Equipments
- Dairy Equipments
- Food Processing Machinery
- Pharmaceutical Machinery
- Ornamental Metal Furniture
- Brewery Plants
- Kitchen & Hotel Equipments
- Hospital Equipments
- Pipe Line Welding
- Structural Fabrication
- Pumps & Valves
- Heavy Fabrication

MODEL	POWER 160	POWER 220	POWER 300	POWER 400
SPECIFICATIONS				
INPUT				
Input Supply	230V +/- 15%	415V +/- 15%	415V +/- 15%	415V +/- 15%
Phase / Freq.	1/50-60Hz	3/50-60Hz	3/50-60Hz	3/50-60Hz
Max. Installed Power	4.4KW/ 6Hp	6.4KW/ 9Hp	11KW/ 15Hp	16.3KW/22Hp
Input KVA @60%	4.8	7.0	11.9	17.8
Input KVA @ 100%	3.7	5.4	9.2	13.7
OUTPUT				
OCV - DC	75-85	75-85	75-85	75-85
Current Range Amps	3-160	5-220	5-300	5-400
Current @ 60% Amps	160	220	300	400
Current @ 100% Amps	116	170	231	308
Pulse Frequency Hz	--	1-10	1-10	1-10
Class of Protection	IP 23	IP 23	IP 23	IP 23
Dynamic Arc Force	0 - 100%	0 - 100%	0 - 100%	0 - 100%
OTHER				
Class of Insulation	H	H	H	H
Cooling	Forced Air	Forced Air	Forced Air	Forced Air
Dimensions W x L x H in mm.	195x430x270	210x500x320	260x680x360	340x680x360
Weight Kgs.	13	21	36	40

MODEL	POWER 160 HF	POWER 220 HF	POWER 300 HF	POWER 400 HF
ALL OTHER SPECIFICATIONS AS ABOVE				
Pre Flow	1-10 sec.	1-10 sec.	1-10 sec.	1-10 sec.
Post Flow	1-10 sec.	1-10 sec.	1-10 sec.	1-10 sec.
Dimensions W x L x H in mm.	195 x430x390	210x500x440	260x680x480	260x680x480
Weight Kgs.	21	30	51	55

MODEL	POWER 160 PULSE	POWER 220 PULSE	POWER 300 PULSE	POWER 400 PULSE
Up Slope	1-10 sec	1-10 sec	1-10 sec	1-10 sec
Down Slope	1-10 sec	1-10 sec	1-10 sec	1-10 sec
Pulse Frequency Hz	1- 10	1- 10	1- 10	1- 10
Pulse Time	10 - 90 %	10 - 90 %	10 - 90 %	10 - 90 %
Pre Settable Current	Yes	Yes	Yes	Yes
Dimensions W x L x H in mm	Same as in HF	Same as in HF	Same as in HF	Same as in HF
Weight Kgs.	21	30	51	55

ARCRAFT PLASMA EQUIPMENTS (INDIA) PVT. LTD.

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Note: Specifications are subject to change without notice
We train and certify welders as per ASME SEC IX, API 1104, AWS D1.1 and other international codes
We offer facilities for welding procedure specification (WPS) and procedure qualification (PQR)
We design welding automation systems as per your requirements

YOUR PARTNER FOR METAL CUTTING, WELDING, AUTOMATION SOLUTIONS AND WELDER TRAINING