

DESIGNERS & MANUFACTURERS OF LATEST WELDING & CUTTING MACHINES
Indigenously Manufactured In INDIA

GOUGING MACHINE (For Foundries)

Gouging, also known as Air Carbon Arc Cutting, is an arc cutting process, where metal is cut and melted by the heat of a carbon arc. Molten metal is then removed by a blast of air. It employs a consumable carbon or graphite electrode to melt the material, which is then blown away by an airjet. This process is useful for cutting a variety of materials, but it is most often used for cutting

and gouging aluminum, copper, iron, magnesium and carbon and stainless steels. Because the metal is blown away by the airjet, it does not need to be oxidized. This process differs from plasma cutting operations because in air carbon cutting, an open or un-constricted arc is used and the arc operates separately from the airjet.

Air pressures for the jet usually vary from 60 to 100 psi. The carbon electrode can be worn away by oxidation from heat buildup. This can be reduced by coating the carbon electrodes in copper.



BTH GOUGING MACHINE 600 / 800 / 1200 Amps THYRISTORISED (For Foundries)

You must be well aware of cutting and welding runners and risers in castings in which high efficient and rugged welding power sources are required. These machines have to be used in the most abusive and dusty atmospheres without breakdowns. We have been catering our machines to many small and large foundries in the country for years together and enjoy a leading patronage from more than 600 foundries. These machines have been especially designed and developed for foundries by our engineers after lot of R&D, making our machines the best.

SALIENT FEATURES :

- Entire Welding Gouging Machine Series made out of CRGO Stampings for high efficiency.
- High Speed Fan
- 6 Pulse Card
- Thermal Protection
- Powder Coated with Fiber Glass
- Class 'F' Insulation Impregnated with high quality Dr Beck Varnish
- V/A Display
- All Housed in Powder Coated M.S. Enclosure and Wheels for easy movement
- Suitable for Welding and Cutting Application.



CONTINUOUS DEVELOPMENT ENTITLES US TO CHANGE / MODIFY SPECIFICATIONS AND DIMENSION WITHOUT PRIOR NOTICE.

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BTH GOUGING MACHINE - INVERTER BASE

INPUT	GENESIS 800	GENESIS 1000	GENESIS 1200
Input Supply Voltage	350V - 465V	350V - 465V	350V - 465V
Phase / Frequency	3, 50Hz - 60Hz	3, 50Hz - 60Hz	3, 50Hz - 60Hz
Max. Installed Power	65 HP	65 HP	65 HP
Input KVA @ 60%	51.52	65.0*	65.0*
Input KVA @ 100%	34.40	48.9	65.0
OUTPUT			
OCV - DC	85-95 VDC	85-95 VDC	85-95 VDC
Current Range Amps	50-800	50-1000	50-1200
Current @ 60%	800	1000	1200
Current @ 100%	620	775	930
Dynamic Arc Force	0-100%	0-100%	0-100%
Class of Protection	IP21	IP21	IP21
OTHER			
Class of Insulation	H	H	H
Cooling	Forced Air	Forced Air	Forced Air
Dimensions			
W x L x H in mm	670x780x915	750x970x1075	750x970x1075
(Approx.) Weight in Kgs.	135	214	240



SALIENT FEATURES :

- On load Power Consumption up to 50% lesser than conventional welding machines.
- Designed to work under wide voltage fluctuations, protected against Over Voltage, Under Voltage, Over Heating with indication.
- Digital Display for voltmeter and ammeter readings.
- Always ON FAN for better cooling and performance.
- Excellent and smooth DC ensure super strengths on weld joints.
- Forced Air Cooling System for maintaining proper temperature.
- Class H insulation.

* Output power has been limited to 65 HP.

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