

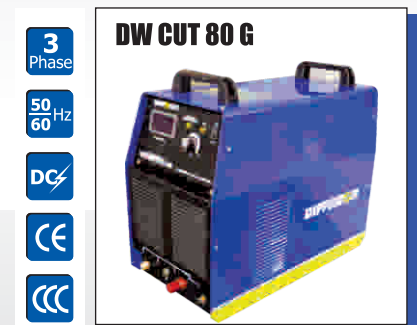
DIFFUSION

Innovative superconditioning solutions



DWCUT SERIES

AIR PLASMA CUTTING



SALIENT FEATURES :

1. Able to cut metal plates in various routes.
2. Outstanding cutting performance. Especially suitable for cutting steel, stainless steel, aluminum and copper.
3. Widely used in iron structure construction, manufacture and automobile maintenance.
4. Improved cooling method for the cutting torch, greatly makes the cutting consumables more durable.
5. Using air pressure adjusting equipment, able to operate when the external air pressure is too high.
6. The cutting precise current is continuously adjustable.
7. With protection of electro circuit against over current, over voltage and low-voltage. Safety in operation is assured.



DIFFARC RANGE – Plasma Cutting machine

Parameter/Model	DWCut40	DWCut60	DWCut80G	DWCut100	DWCut160
Input Voltage (V)	1phase, AC 220 ± 15%	AC415 ± 15%	AC415 ± 15%	AC415 ± 15%	AC415 ± 15%
Frequency (Hz)	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Rated Input Current (A)	30	12	18	23.1	44.3
No Load Voltage (V)	230	250	268	280	320
Output Current Range (A)	20-40	20-60	20-80	20-100	20-160
Rated Output Voltage (V)	96	104	112	120	144
Duty Cycle (%)	60	60	60	60	60
No- Load Loss (W)	40	60	60	80	100
Efficiency (%)	80	85	85	85	85
Power Factor	0.73	0.93	0.93	0.93	0.93
Insulation Grade	H	H	H	H	H
Housing Protection Grade	IP23	IP23	IP23	IP23	IP23
Arcing Method	Contact	Contact	Transfer	Transfer	Transfer
Net Weight (Kgs)	9	19	25	36	60
Dimensions (mm)	375x153x232	480x204x303	515x263x372	560x370x350	670x337x617
Plate thickness (mm)	0.3-8.0	1.0-20.0	1.0-30.0	1.0-40.0	1.0-50.0
Recommended Air Pressure (Bar)	4-5	4-5	4.5-5.5	4.5-5.5	4.5-5.5
Standard Accessories	Manual hand Torch 3meter, Earthing clamp, Air Filter regulator, 2m Air hose, Hose Clamp, Guiding wheel, First set of consumable	Manual hand Torch 3meter, Earthing clamp, Air Filter regulator, 2m Air hose, Hose Clamp, Guiding wheel, First set of consumable	Manual hand Torch 3meter, Earthing clamp, Air Filter regulator, 2m Air hose, Hose Clamp, Guiding wheel, First set of consumable	Manual hand Torch 3meter, Earthing clamp, Air Filter regulator, 2m Air hose, Hose Clamp, Guiding wheel, First set of consumable	Manual hand Torch 3meter, Earthing clamp, Air Filter regulator, 2m Air hose, Hose Clamp, Guiding wheel, First set of consumable
Machine/Straight Torch (Optional)	N/A	Yes, Standard length 6mtrs	Yes, Standard length 6 mtrs	Yes, Standard length 6 mtrs	Yes, Standard length 6 mtrs

DIFFUSION ENGINEERS LIMITED

Regd. Office : T-5 & T-6, M.I.D.C., Hingna Industrial Area, Nagpur - 440016. Maharashtra INDIA

[t] 091-7104-232084,234727 [f] 091-7104-232085. [e] info@diffusionengineers.com

Works I : T-5 & T-6, M.I.D.C., Hingna Industrial Area, Nagpur 440 016. [t] 091-7104-232084, 234727

Work II : N-78 & N-79, M.I.D.C., Hingna Industrial Area, Nagpur 440 016. [t] 091-7104-236036

Work III : T-12, M.I.D.C., Hingna Industrial Area, Nagpur 440 016. [t] 091-7104-232984

[w] www.diffusionengineers.com

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