

INVERTER AIR PLASMA CUTTING MACHINE



NW-CUT 30

Specification

ITEM	MODEL	NW-CUT 30	NW-CUT 40	NW-CUT 40B	NW-CUT 50	NW-CUT 60	NW-CUT 70
Input power voltage / Frequency (V/HZ)		SINGLE PHASE 220± 15% 50/60	SINGLE PHASE 220± 15% 50/60	SINGLE PHASE 220± 15% 50/60	SINGLE PHASE 220± 15% 50/60	THREE PHASE 380± 10% 50/60	THREE PHASE 380± 10% 50/60
Rate input power capacity (KVA)		3.5	4.8	4.8	6.7	8.4	10.2
Output current range (A)		15 - 30	15 - 40	15 - 40	15 - 50	20 - 60	20 - 70
Rate output voltage (V)		92	96	96	105	110	115
O.C.V (V)		230	230	230	230	236	240
(25°C) Duty cycle (%)		60	60	60	60	60	60
Efficiency (%)		85	85	85	85	85	85
Power factor (COS φ)		0.93	0.93	0.93	0.93	0.93	0.93
Arcing Way		Touch	Touch	Non-contact	Touch	Touch	Non-contact
Weight (KG)		9	9	9	15	18	21
Overall dimension (mm)		371 x 153 x 299	371 x 153 x 299	371 x 153 x 299	432 x 203 x 368	480 x 203 x 368	541 x 213 x 370
Insulation class		F	F	F	F	F	F
Protection class		IP23	IP23	IP23	IP23	IP23	IP23
Suggesting air compressor air displacement		0.17	0.17	0.17	0.17	0.25	0.25
Max cutting thickness (mm)		8	12	12	16	20	25



NW - CUT 40



NW - CUT 50

Function and feature

- High cutting speed, the cutting speed can be several times of torch cutting, low operation cost.
- PWM modulation technique, high inverter frequency, portable, energy saving.
- Narrow cutting gap, smooth cutting surface, small distortion, no need to reprocess.
- CUT 40B has the function of arc maintenance.
- Widely use in cutting simple steel, stainless steel, aluminium, titanium, nicket combined metal, cast iron and other metals.



NW - CUT 60



NW - CUT 70

INVERTER AIR PLASMA CUTTING MACHINE



NW - CUT 100



NW - CUT 120

Function and feature

- High cutting speed, the cutting speed can be several times of torch cutting, low operation cost.
- Narrow cutting gap, smooth cutting surface, small distortion, no need to reprocess.
- Widely use in cutting simple steel, stainless steel, aluminium, titanium, nickel combined metal, cast iron and other metals.

Specification

ITEM	MODEL	NW-CUT 100	NW-CUT 120
Input power voltage / Frequency (V/Hz)		THREE PHASE 380±10% 50/60	THREE PHASE 380±10% 50/60
Rate input power capacity (KVA)		16.5	21.3
Output current range (A)		20 - 100	20 - 120
Rate output voltage (V)		130	140
O.C.V (V)		260	280
(25°C) Duty cycle (%)		60	60
Efficiency (%)		85	85
Power factor (COS φ)		0.93	0.93
Arcing Way		Non-contact	Non-contact
Weight (KG)		36	36
Overall dimension (mm)		460 x 334 x 491	460 x 334 x 491
Insulation class		F	F
Protection - class		IP23	IP23
Suggesting air compressor air displacement (m3/min)		0.36	0.36
Max cutting thickness (mm)		30	35



NW - CUT 100 (IGBT)

NW - CUT 160 (IGBT)

Function and feature

- IGBT HF inverter, small size, light weight.
- HF arc-starting, easy to strike.
- Soft switch transform, high efficiency.
- Delayed post-flow can protect plasma torch effectively.
- Outstanding cutting quality with trim and slick edge.

Specification

ITEM	MODEL	NW-CUT 100 (IGBT)	NW-CUT 160 (IGBT)
Input power voltage / Frequency (V/Hz)		THREE PHASE 380± 10% 50/60	THREE PHASE 380± 10% 50/60
Rate input power (KVA)		13.7	25.7
Range input current (A)		20.5	39
Range of welding current (A)		30 - 100	30 - 160
O.C.V (V)		385	400
Rate loaded voltage (V)		120	128
Rated duty cycle (%)		60%	60%
Feed gas pressure (M/pa)		0.45	0.45
Gas flow speed (L/min)		250	250
Max thickness for cutting mild steel (mm)		35	50
Optimum thickness for cutting mild steel (mm)		1 - 30	1 - 45