CAT. NO. F220403

ISO 9001 Registered

DAIHEN Corporation

D-12000

Transistor Controlled Super Plasma Cutting Machine





D-12000

High Perj

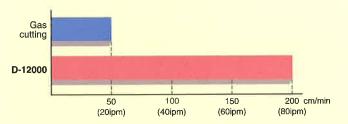
High Power and 100% Duty Cycle for Precision High Speed Cutting

Max Cutting Capacity 60mm (2.4in)

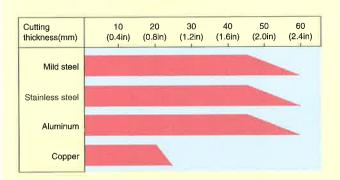
Compared with gas cutting, the D-12000 can cut 16mm (0.64in) plate 4 times faster. It will also cut 25mm (1in) plate to give a high quality precise finish.

♦High Speed Cutting

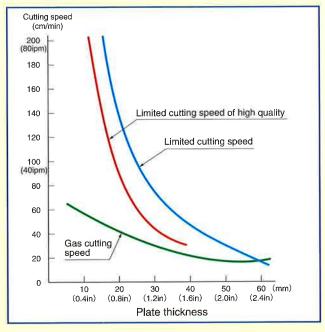
Comparison of Cutting Speed of D-12000 and gas cutting on 16mm (0.64in) plate



◆Max Cutting Capacity is up to 60mm(2.4in)



LIMITED CUTTING SPEED



♦Surface finish resembles that produced by gas cutting





Right angle cut on 25mm (1in) plate



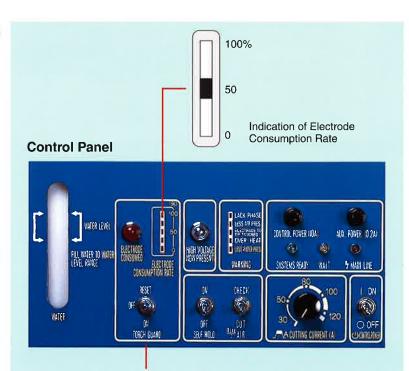


Angle cutting

♦High Speed/Low Cost Cutting

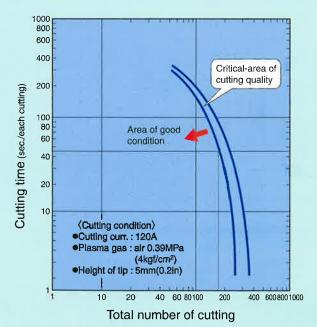
Reduce operating expenses significantly by capitalizing on high cutting speeds and long consumable parts life.

formance At Low Cost!!



Built in "TORCH GUARD" function monitors tip & electrode consumption.

- (1) When consumption of electrode and tip reaches 95%, indicator lamp display changes to flashing display.
- (2) The consumption rate of tips and electrodes are displayed by integrating cutting time and numbers of arc starts (not detect current value)
- (3)Machine will automatically shut down in the "area of good condition" of the drawing.



●100m (330ft) of plate can be cut with only one Electrode and Tip.

Durability of the newly designed Electrode has greatly increased, resulting in less frequent replacement.

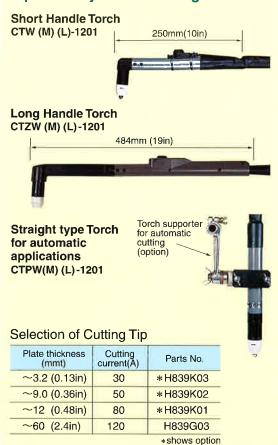
The Torch gives a high efficiency cutting and a wide operation range.

Operating Area Increased 9 Times

Optional 30m (100ft.) cable length gives an operating area 9 times that of a conventional plasma cutting machine

Our newly developed High Frequency Generator makes "First-Time-Starting" possible even at this long cable length.

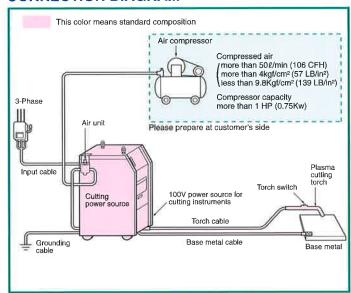
The new cooling system design allows parts change without the possibility of fluid leakage.



User-friendly Design

- Abnormal function detector
- 2. Double safety function indicated by buzzer
- 3. With new cooling system, there is no fluid leakage
- 4. AC 100V power source for automatic cutting instruments
- 5. "SELF HOLD" function

CONNECTION DIAGRAM



SPECIFICATIONS

Model		Super Plasma D-12000	
 Cutting power source 	Model	TRC-121	
Input voltage	V	Indicate input voltage when ordering	
Rated frequency	Hz	50 / 60	
Phase	-	3-phase	
Rated input	KVA	28.3 (27.5KW)	
Rated output current	Α	120	
Rated output voltage	V	200	
Output current range	Α	30~120	
Rated duty cycle	%	100	
Dimensions(W×D×H)	mm	450×780×775 (18×31.2×31in)	
Mass	kg	176	
Cutting torch	Model	CTW(M) (L)-1201	CTPW (M) (L)-1201
		CTZW(M) (L)-1201	
Rated current	Α	12	20
Rated duty cycle	%	100	
Cooling system	70	Water-	cooled
Cable length	m	10 *1(20)) *1(30)
Using gas	-	Compressed air	
Shape of cutting torch	-	Short handle type	Straight type
		Long handle type	

^{*1} Option

STANDARD ACCESSORIES

For cutting power source

Description			
Air unit			
Hose band			
Pilot lamp		1	
Base metal cable	1,5m (5ft)	1	
Glass enclosed fuse	10A	1	
Glass enclosed fuse	0.2A	1	
Bolt for input cable	M6	3	
Bolt for output terminal	M8-20	1	
Grounding cable	2m (6.6ft)	1	
Cartridge fuse	C-3	2	

For cutting torch

Description		Q'ty
Shield cup	H839G02	1
Tip	H839G03	4
Electrode	H839M00	4
Wrench	H758H01	1
*1Torch guide	H775G00	18

^{*1} Standard accessory for CTZW(M · L)-1201 long handle torch

OPTIONAL ACCESSORIES

①Super Coolant

Super Coolant is special mixed with nonfreezing liquid and pure water. It will prevent from scale and freezing.

Use	Parts No.	Capacity	
General use (-10°C~+90°C)	2670-033	100	
Cold Area (-30°C~+90°C)	2670-034	100	

2)Tip for thin plate and average thick plate

Description	Part No.	Remarks
Tip (30A)	H839K03	Use less than 30A of cutting current
Tip (50A)	H839K02	Use less than 50A of cutting current
Tip (80A)	H839K01	Use less than 80A of cutting current

3 Automatic Cutting Instruments



Linear cutting attachment CRC-301



Automatic cutting guide CRC-305



Circle cutting attachment 100M CRC-304



Full automatic carriage CRC-401

In accordance with DAIHEN's policy to make continuing improvements, design and/or specifications are subject to change without notice and without any obligation on the part of manufacturer.

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