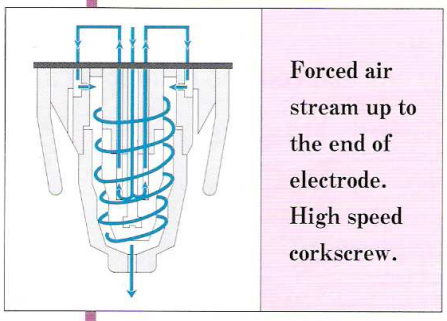
Panasonic
Cutting Machine

Panasonic

CUT STAR PF Series

Inverter Controlled Air Plasma Cutting Machine with Pulse Cutting Capability



Forced air stream up to the end of electrode. High speed corkscrew.







- Up to 30% improved maximum cutting capability
- Up to 20% improved cutting surface coarseness
- Up to 10% reduced bevel degree
- Drastically reduced dross at thin plate low speed cutting
- Easy-to-use newly developed cutting torches
- User friendly specifications & features
  - ・Built-in Air Unit, ・Bulit-in Torch Monitor for YP-080PF1
  - ・Tool-free Panasonic torch installation

CERTIFIED JQA MANAGEMENT SYSTEM QUALITY SYSTEM
ISO 9001
JQA 1179

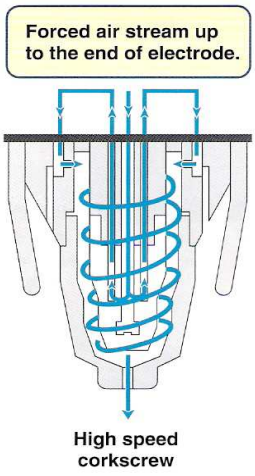
Cut Star PF Series



YP-030PF1 | YP-060PF1 | YP-080PF1

Further Improved Cutting Quality

Panasonic's original air cooling technology has achived one of the best air plasma stream.



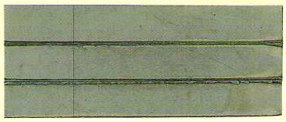
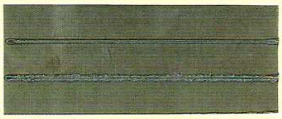
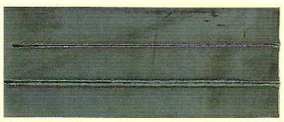
★Improved Cutting Results

	35A			60A			80A		
Cutting Capacity (mm)		P5	PF(New)		P5	PF(New)		P5	PF(New)
	Maximum Cutting Plate Thickness			Maximum Cutting Plate Thickness			Maximum Cutting Plate Thickness		
		9t	12t		25t	35t		40t	40t
Electrode Longevity (m)	2.3t	160	180	12t	95	97	12t	77	80
	6.0t	34	60	19t	64	65	25t	17	17
	12t	—	14	35t	—	5	40t	4	4
Cutting Speed (m/min.)	2.3t	3	3.3	12t	0.85	0.9	12t	1.05	1.1
	6.0t	0.6	0.7	19t	0.33	0.4	25t	0.33	0.33
	12t	—	0.2	35t	—	0.1	40t	0.1	0.1
Cutting Width Ratio Top divided by Bottom	6.0t	1.33	1.10	19t	1.61	1.5	19t	1.61	1.47
Surface Coarseness RZ(μm)	6.0t	32.4	30	12t	40.6	32.2	19t	33.1	29.4

★Pulse Cutting

——The Effect of Pulse Cutting——

In case of low speed thin plate cutting, the quantity of dross has been drastically reduced. It is apparently easily recognizable. As a result, the time of deburring has been outstandingly minimized. The pulsed cutting is the most effective when cutting is manually done along with a marking.

YP-030PF1		Pulse No Pulse	Plate Thickness Less than 3.2 mmt Sample 2.3 mmt
YP-060PF1		Pulse No Pulse	Plate Thickness Less than 6.0 mmt Sample 4.5 mmt
YP-080PF1		Pulse No Pulse	Plate Thickness Less than 9.0 mmt Sample 6.0 mmt

PF Series Product Line Up

Appearance				
Power Source Model		YP-030PF1	YP-060PF1	YP-080PF1
Air Unit		Built-in	Built-in	Built-in
Rated Amperage	A	35	60	80
Cutting Capacity	Mild Steel	Up to 12 mmt	Up to 35 mmt	Up to 40 mmt
	Stainless Steel	Up to 12 mmt	Up to 35 mmt	Up to 40 mmt
	Aluminum	Up to 8 mmt	Up to 20 mmt	Up to 30 mmt
	Copper	Up to 3 mmt	Up to 5 mmt	Up to 10 mmt

Rated Specifications

Model		YP-030PF1		YP-060PF1		YP-080PF1	
Output Control		Transistor Inverter					
Phase		Single/Three Phase					
Rated Input	KVA	3φ 8.2	1φ 7.0	3φ 12.0	1φ 9.5	3φ 15.8	1φ 11.6
	KW	3φ 5.6	1φ 3.9	3φ 10.3	1φ 6.7	3φ 13.7	1φ 8.4
Rated Output Amp.	3φ	35		60		80	
	1φ	25		40		50	
Rated Output Vol.	V	130		140		145	
Rated Duty Cycle	%	40		3φ 60	1φ 40	100	
Pulse Cutting		YES		YES		YES	
Torch Monitor		—		—		YES	
Primary Cable		3m		—		—	

Various Abnormal Indicators

- Electrode short circuiting LED,
- Voltage overload
- Temparature rise / Insufficient air,
- Amperage over load

Newly Developed Cutting Torch

Cutting Torch								
Model		YT-03PD2	YT-03PE2	YT-06PD2	YT-06PE2	YT-08PD2	YT-08PE2	YT-08PDA2
Type	—	Curved	Pencil	Curved	Pencil	Curved	Pencil	Curved (Long)
Cooling Method	—	Air	Air	Air	Air	Air	Air	Air
Rated Amperage	A	35	35	60	60	80	80	80
Rated Duty Cycle	%	60	60	100	100	100	100	100
Cable Length	m	10	10	10	10	10	10	10
Style		 YT-03PD2 YT-03PE2		 YT-06PD2 YT-06PE2		 YT-08PD2 YT-08PE2		 YT-08PDA2
Short Type	Tip	 TET00005		 One line TET01310		 Two lines TET01512		
	Electrode	 TET00006				 TET02033		
Long Type	Tip	 TET00003		 One line TET01311		 Two lines TET01513		
	Electrode	 TET00004				 TET02040		
Cutting Torch with 20m, 30m Cable								
20m		YT-03PD2CBO	YT-03PE2CBO	YT-06PD2CBO	YT-06PE2CBO	YT-08PD2CBO	YT-08PE2CBO	YT-08PDA2CBO
30m		YT-03PD2CCO	YT-03PE2CCO	YT-06PD2CCO	YT-06PE2CCO	YT-08PD2CCO	YT-08PE2CCO	YT-08PDA2CCO

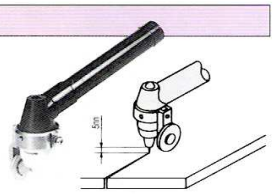
Cut Star PF Cutting Supplemental Tools

Support accurate cutting and improve productivity.

Single Wheel Adapter

YX-085PTAR

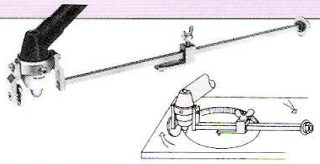
Provides smooth movement and cutting for medium/ medium thick plates.



Cutting Compass

YX-085PTAC

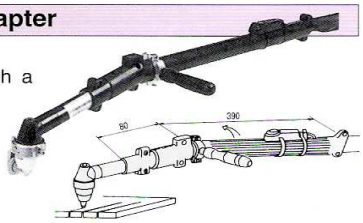
Makes circular cutting easy. (For diameter 28mm～600mm)



Long Holder Adapter

YX-085PTAL

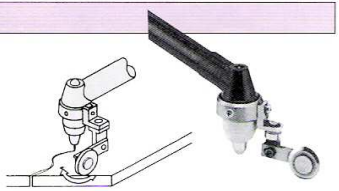
Makes a standard torch a longer one.



Single Caster

YX-085PTAF

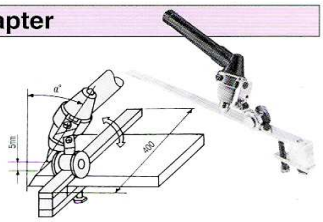
Moves freely,so it is suitable for curved cutting.



Groove Cutting Adapter

YX-085PTAK

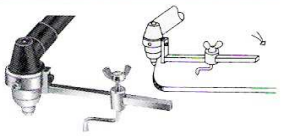
Makes 30° 45° 90° edge preparation easy.



Mini-Cutting Compass

YX-085PTAM

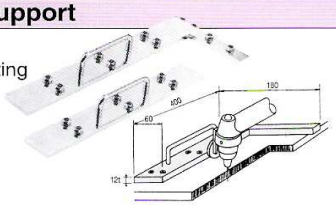
Makes circular cutting easy. (For diameter 28mm～300mm)



Linear Cutting Support

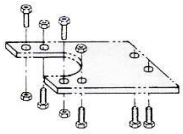
YX-085PTAS

Helps make straight cutting easy.



Insulated Bolts

YX-085PTAB



Reference capacity for compressor, power source and cables

	YP-030PF1	YP-060PF1	YP-080PF1
Compressor	Over 0.75kW, Over 1HP	Over 1.5kW, Over 2HP	
Capacity	Over 10kVA	Over 15kVA	Over 20kVA
Input cable	Over 3.5mm^2	Over 8mm^2	Over 14mm^2
Output cable	Over 3.5mm^2	Over 8mm^2	Over 14mm^2
Air hose	Inside dia. 6.5mm ϕ Pressure-proof over 10kgf/cm^2		
Compressed air	Min. Pressure Over 4kgf/cm^2 Capacity over 100 ℓ /min.	Min. Pressure over 5kgf/cm^2 Capacity over 173 ℓ /min.	

Matsushita Industrial Equipment Co., Ltd.
Overseas Section
Welding System Division
1-1, 3-chome, Inazu-cho, Toyonaka, Osaka 561 JAPAN
TEL: 06 (866) 8505 FAX. 06 (866) 0709

Panasonic
Cutting Machine

Catalogue No. CMYPPFAAA

Models and Specifications subject to change without notice

Printed in Japan [97.7] DKP