



High Performance Cutting

# MAX Series

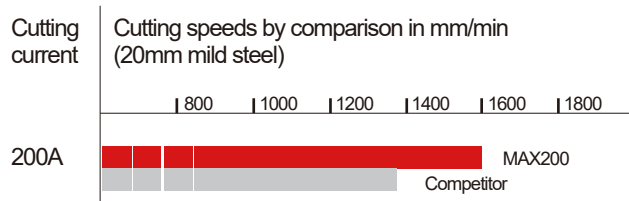
High Definition Oxygen/Air/N<sub>2</sub>/H<sub>35</sub> Plasma cutting system with Extra Productivity



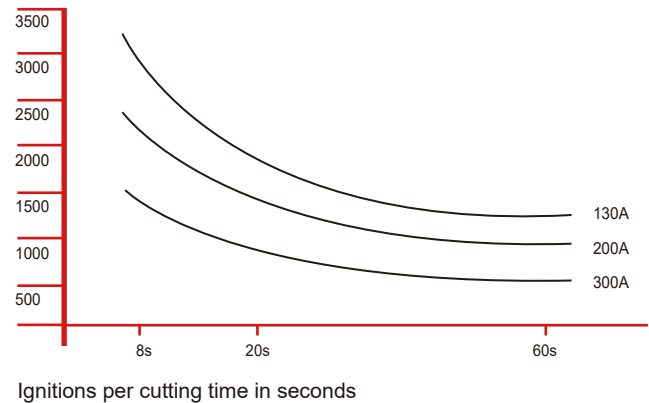
Better Quality | Higher Cutting Speed | Long Lifetime | Low Costs

## Maximized Productivity

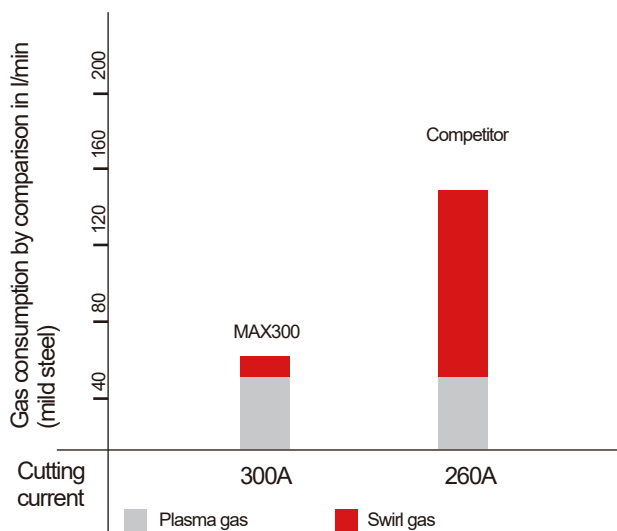
- MAX Series provides faster cutting speed to maximize productivity.
- Engineered with 100% duty cycle for the most demanding production environments.



## Long-life Consumables



## Efficient Gas Supply



## Superior Cutting Performance



Optimized gas parameters are set and controlled by the software. With Oxygen/Air/N<sub>2</sub>/H<sub>35</sub> plasma gas, the MAX Series plasma cutting system achieves impressive cut speeds, consistent cut quality and exceptional consumable life.

## Cutting Capacity

	MAX200	MAX300	MAX400
Mild steel cut capacity	Thickness	Thickness	Thickness
Dross free*	25mm	35mm	38mm
Production pierce	32mm	42mm	50mm
Maximum cutting capacity	50mm	70mm	80mm

\* Feature and material type can influence dross free performance.

## Typical Cutting Sample



MS 20 mm, Oxygen/Air, Speed 1200 mm/min, 130 Amps

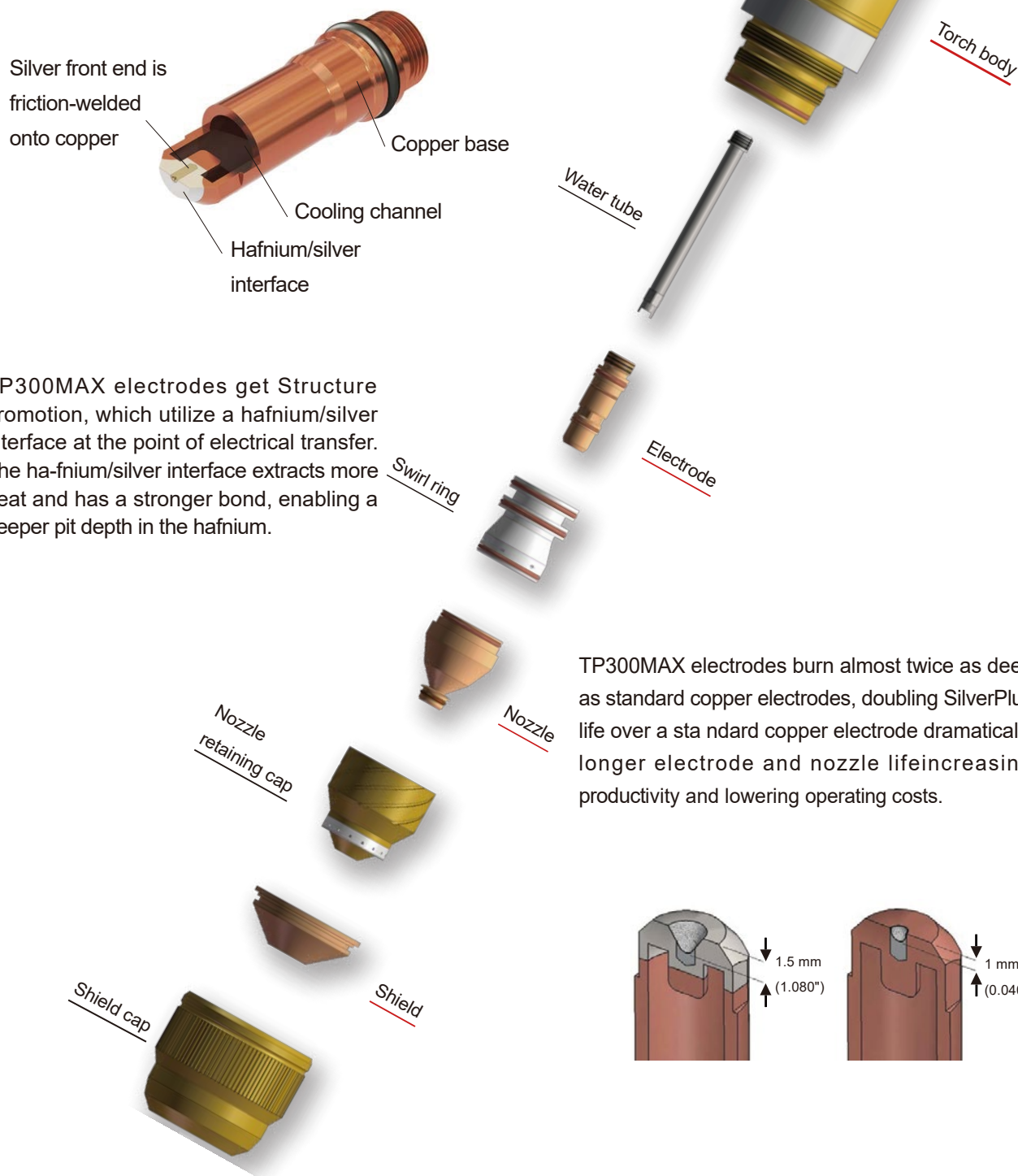
## Operating Data (Mild Steel)

	MAX200		MAX300		MAX400	
Material thickness (mm)	Cutting current (A)	Cutting speed (mm/min)	Cutting current (A)	Cutting speed (mm/min)	Cutting current (A)	Cutting speed (mm/min)
10	200	3500	-	-	-	-
16	200	2300	300	3100	-	-
20	200	1600	300	2100	400	2800
25	200	1200	300	1600	400	2200
30	200	800	300	1200	400	1800
40	-	-	300	850	400	1150
50	-	-	300	400	400	700
60	-	-	-	-	400	550
70	-	-	-	-	400	350

# Long-life Consumables' Technology

## Torch Improvement

Topwell updates TP300MAX torch to achieve fast cutting speeds, long life, and superior cut quality for high productivity and low operating costs.

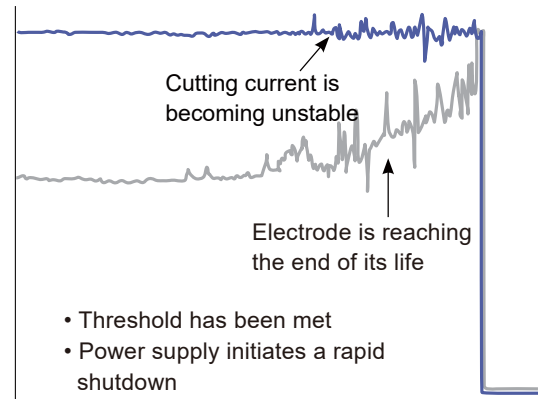
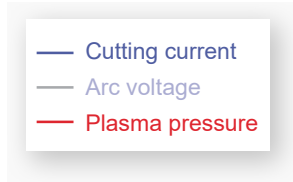




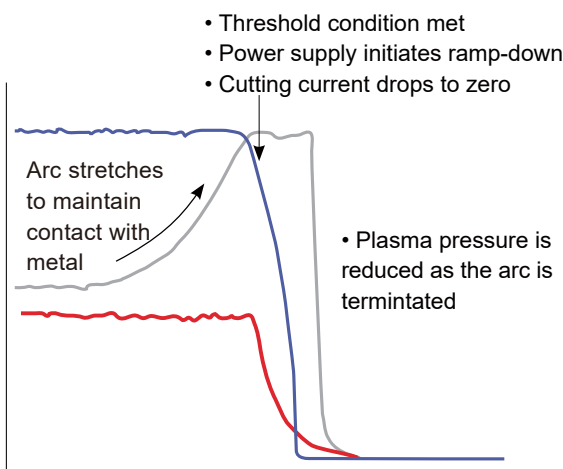
## Automatic torch protection

The updated module response and disconnected in time after sensing the unstable current due to the electrode's wear and tear, which dramatically protect torch and extend consumable life.

- Prevents torch failure
- Reduces operating cost



Automatic torch protection



Ramp-down error protection

## Automatic ramp-down error protection

when cutting end without proper ramp down of current and gas flow, the module senses and response in time- Power supply initiates ramp-down and cutting current drops to zero to protect electrode, effectively extending consumables life.

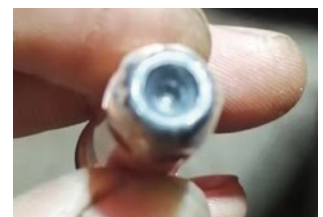
- Protects electrode
- Improves realized consumable life
- Reduces operating cost



260A 20 mm plate cutting  
After 200 times pierce  
300 meters cutting  
Almost no loss



260A 20 mm plate cutting  
After 340 times pierce 300  
meters cutting  
Slight loss

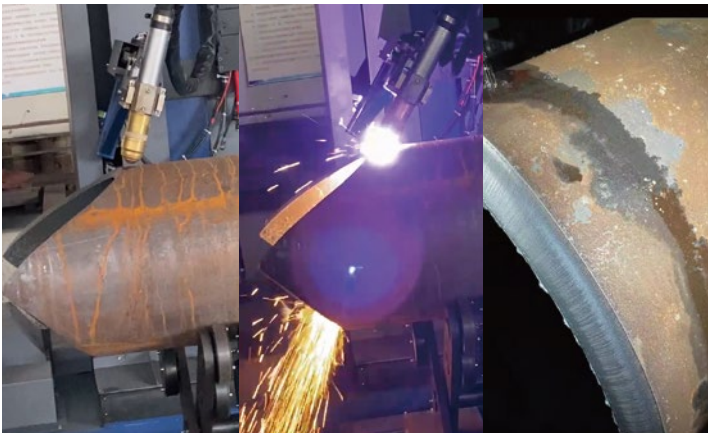


260A 20 mm plate cutting  
After more than 800 times  
Pierce 700 meters cutting  
Total run out

## Specifications

System	MAX200	MAX300	MAX400
Input Voltages	3PH, 400V $\pm$ 15%	3PH, 400V $\pm$ 15%	3PH, 400V $\pm$ 15%
Max. Load Power Capacity	50KVA	75KVA	100KVA
Rated output voltage	50~200V	50~200V	50~200V
Max output current	200A	300A	400A
Open circuit voltage (OCV)	430V	430V	430V
Duty cycle rating	100% @ 200A, at 40°C (104°F)	100% @ 300A, at 40°C (104°F)	100% @ 400A, at 40°C (104°F)
Operating temperature	-10 °C~40°C	-10 °C~40°C	-10 °C~40°C
Torch	TP300MAX	TP300MAX	TP300MAX
Dimensions	700x380x900mm	830x460x810mm	830x460x810mm
Weight (complete)	165KG	243KG	256KG
Certifications	CE, ROHS	CE, ROHS	CE, ROHS
Gas supply:			
- Plasma gas	O <sub>2</sub> ; Air; N <sub>2</sub> ; H <sub>35</sub>	O <sub>2</sub> ; Air; N <sub>2</sub> ; H <sub>35</sub>	O <sub>2</sub> ; Air; N <sub>2</sub> ; H <sub>35</sub>
- Shield gas	Air; N <sub>2</sub>	Air; N <sub>2</sub>	Air; N <sub>2</sub>

## BEVEL cutting



## CNC cutting



High Performance Cutting

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