

Almega Friendly series II **Plasma cutting robot package**

Automation of high-quality three-dimensional cutting is realized,
and it is possible to cope with a wide variety of workpieces



Automatic torch height adjustment
for high-quality cutting

Applicable to various 3-D workpieces
such as hemispherical heads

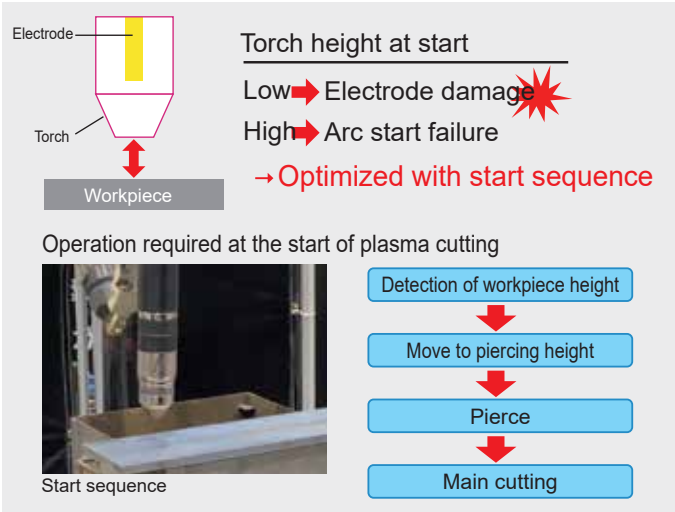
Sets the cutting conditions on the
robotic TCP at once

Automatic torch height adjustment to reduce workpiece distortion and misalignment

Start Sequence Function Depends on cutting conditions

Automatic generation of "Operation required when plasma cutting starts".

→ Improved consumable life and reduced occasionally stoppage during piercing



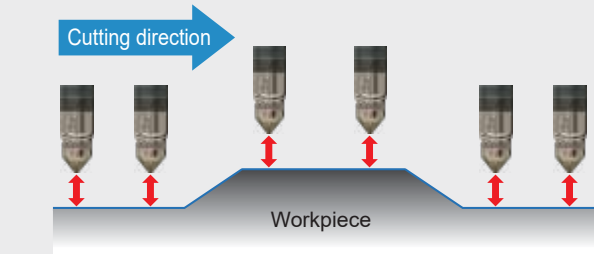
Height Control Depends on cutting conditions

Keep height constant during cutting

→ The quality of the cut surface is maintained even if the workpiece surface is distorted. Executes voltage copying without requiring a post-installed sensor

Height control for high-quality cutting

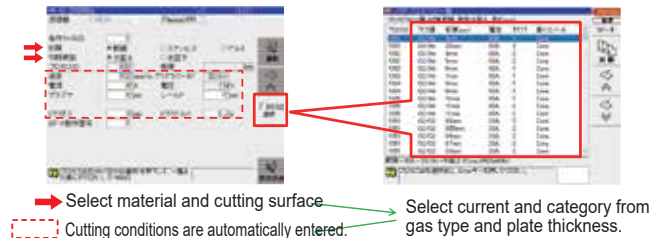
Maintain a constant torch height by measuring the arc voltage generated between the torch and the workpiece and moving the torch up and down to match the reference voltage



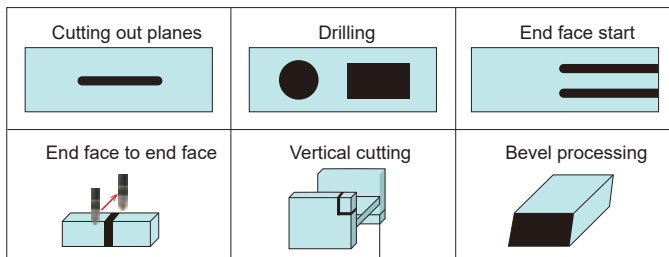
Sets the cutting conditions on the robotic TCP at once.

Preprogramed AS/AE Instruction for Plasma Cutting

- Eliminates complicated settings for plasma cutting conditions.
- The cutting conditions are automatically entered by simply selecting the current and category from the combination of material, cutting surface, gas type and plate thickness at the plasma cutting start command.



Workpiece Cutting Geometry



Thickness of Plate that Can Be Cut

Thickness of plate that can be cut	Plasma Power Supply		XPR170	XPR300
	Piercing Capability	Mild steel (argon gas assist)	40mm	50mm
		Mild steel	35mm	45mm
		Stainless steel	22mm	38mm
		Aluminum	25mm	38mm
	Separate Cutting Capacity	Mild steel	60mm	80mm
		Stainless steel	38mm	75mm
		Aluminum	38mm	50mm



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