

TECHNICAL DATA SHEET

Smart Wide-Width Plasma Jet Generator

Jet-type atmospheric low-temperature plasma surface-treatment equipment



ACS Material smart wide-width low-temperature plasma jet generators (PTS-2000D and PTS-X000D)

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SECTION I

Product Overview

The Smart Wide-Width Plasma Jet Generator is the intelligent, wide-area member of the ACS Material jet-type low-temperature plasma family. It produces a neutral (electrically non-charged) plasma with particle energies of 6–10 eV and treats metals, semiconductors, and non-metallic materials, while adding full parameter monitoring and data feedback for automated production lines. Two models are available: the PTS-2000D (connects 1–2 plasma torches) and the PTS-X000D (connects 1–4 plasma torches), both with a smart plasma torch adjustable from 2 to 90 mm.

Product Features

- Non-conductive plasma — processes virtually any material or product, including metals and items with electronic components.
- Low temperature — suitable for products with temperature-sensitive surface materials.
- No enclosure required — installs directly on a production line, with no vacuum chamber.
- Consumes only air and electricity — low operating cost and safer operation.
- No ozone generation and no chemical pollutants emitted — compliant with environmental regulations.

Smart monitoring & control

What sets the Smart Model apart from the standard wide-width generators is a fully instrumented, data-connected control system built for automated production:

- Monitoring & feedback — tracks plasma state, energy and power, rotation speed, and gas-source status in real time.
- Consumable tracking — logs consumable-replacement time and issues replacement reminders.
- Data exchange & communication — controlled operation with data interaction for line integration.
- Predictive warning — intelligent anticipation and early warning of faults.
- Fail-safe design — error-proofing to protect the process and operator.

SECTION II

Specifications

Specification	PTS-2000D	PTS-X000D
SKU #	EPPTS2D1	EPPTSX2D
Product type	Smart wide-width generator	Smart wide-width generator
Plasma torch width	2–90 mm (adjustable)	2–90 mm (adjustable)
Plasma torches	Connects 1–2 torches	Connects 1–4 torches
Output power	Adjustable	Adjustable
Application	Polymers or metals	Polymers or metals

Both models add full monitoring and data feedback, data exchange, predictive warning, and fail-safe design. Specifications are typical and may vary; confirm details at the time of quotation.

SECTION III

Applications

Low-temperature plasma pre-treatment improves cleaning, activation, and adhesion across a wide range of industries:

- Automotive Manufacturing
- Metal & Coating
- Plastics & Rubber
- Synthetic Fiber & Textile
- Electronics, Optoelectronics & Medical
- Printing & Coding

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