

# 2700 & 2086

## ID-Plasma extension gun

### Introduction

The Model 2700 & 2086 plasma extension guns are versatile production guns designed for internal diameter coating applications. The 2700 is designed to operate at power up to 30 kW, while 2086 can operate up to 40 kW. Both extension guns are supplied with 45° hardware (standard): configurations for 60° spray angles are also available for the 2086. Simplified anode design offers long hardware life and economical operation.

Internal diameter applications of plasma spray coatings are widely used in the aerospace, IGT and general engineering application.

Both the 2700 & 2086 are based on the proven SG-100 plasma spray gun design. Many gun components are interchangeable between the 2700, 2086 and the SG-100. This allows for quick conversion of the 2700 and 2086 into the SG-100 that is capable of operating up to 80 kW.



### 2700 ID-Plasma Extension Gun

The 2700 can convert into an SG-100 plasma spray gun capable of operating at up to 80 kW.

#### Features of the 2700 include:

- Easy to maintain
- Self-aligning assembly
- Repeatable coatings
- Able to spray ID applications down to 1.5"
- Available in 12" and 24" standard lengths (other lengths upon request).
- Available spray patterns are 45° or 60° angles
- 30 kW capability
- Suitable for production and research

### 2086 ID-Plasma Extension Gun

The 2086 can convert into an SG-100 plasma spray gun capable of operating at up to 80 kW.

#### Features of the 2086 include:

- Easy to maintain
- Self-aligning assembly
- Repeatable coatings
- Able to spray ID applications down to 3"
- Available in 12" and 24" standard lengths (other lengths upon request).
- Available spray patterns are 45° or 60° angles
- 40 kW capability
- Suitable for production and research

**FST offers the following Plasma Controllers:**

- **MP-50 Fully automatic closed-loop multi-process thermal spray system. Available versions:**
  - ◆ MP-50 Professional
  - ◆ MP-50 Advanced
- **AP-50 Fully automatic closed-loop single process APS system. Available versions:**
  - ◆ AP-50 Basic
  - ◆ AP-50 Professional
  - ◆ AP-50 Advanced
- **AP-25 Semi-automatic single process APS system. Available Versions:**
  - ◆ AP-25
  - ◆ AP-25i

**Specifications**

	2700	2086
<b>Max. Power</b>	30 kW	40 kW
<b>Min. Diameter</b>	1.5 in (40 mm)	3 in (75 mm)
<b>45° Nozzle</b>	standard	standard
<b>60° Nozzle</b>	optional	optional
<b>Length (extension only)</b>	12 in (305 mm) 24 in (610 mm)	12 in (305 mm) 24 in (610 mm)
<b>Weight</b>	6 lb (2.7 kg) 12 in model 7 lb (3.2 kg) 24 in model	6.5 lb (2.95 kg) 12 in model 7.5 lb (3.4 kg) 24 in model

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