

## Product Data Sheet

### Metco SM-F1

**The Metco™ F1 plasma spray extension gun is a robust unit designed for coating of internal geometries.**

#### 1 General Description

The electrically inert material used to construct the gun head makes this gun ideal for spraying deep, closed-end internal surfaces as the potential for shorting is eliminated.

Two standard configurations are available:

- SM-F1-90 plasma extension gun with 90° spray head and a usable shaft length of 495 mm (19.5 in)
- SM-F1-45 plasma extension gun with 45° spray head and a usable shaft length of 495 mm (19.5 in)

Custom shaft lengths are available on request.

#### 2 Features and Benefits

- Simple hardware configuration – sprays a wide range of coating materials with a single nozzle/electrode configuration
- Long life hardware – tungsten-tipped electrode and tungsten-lined nozzle produces typical nozzle life in excess of five times that of unlined copper nozzles when proper cooling is used
- Preset powder injector holders – ensures proper injection angle and distance
- Compact gun head design – coat deep closed-end internal bore configurations
- Inert gun head material – eliminates electrical shorting if gun head contacts metallic components
- Low maintenance costs – resulting from long-life hardware and robust design
- Reliable coating results – powder injector and gun head design ensure repeatable coatings
- Long spray campaigns – long life hardware allows longer spray periods without the need for changeout

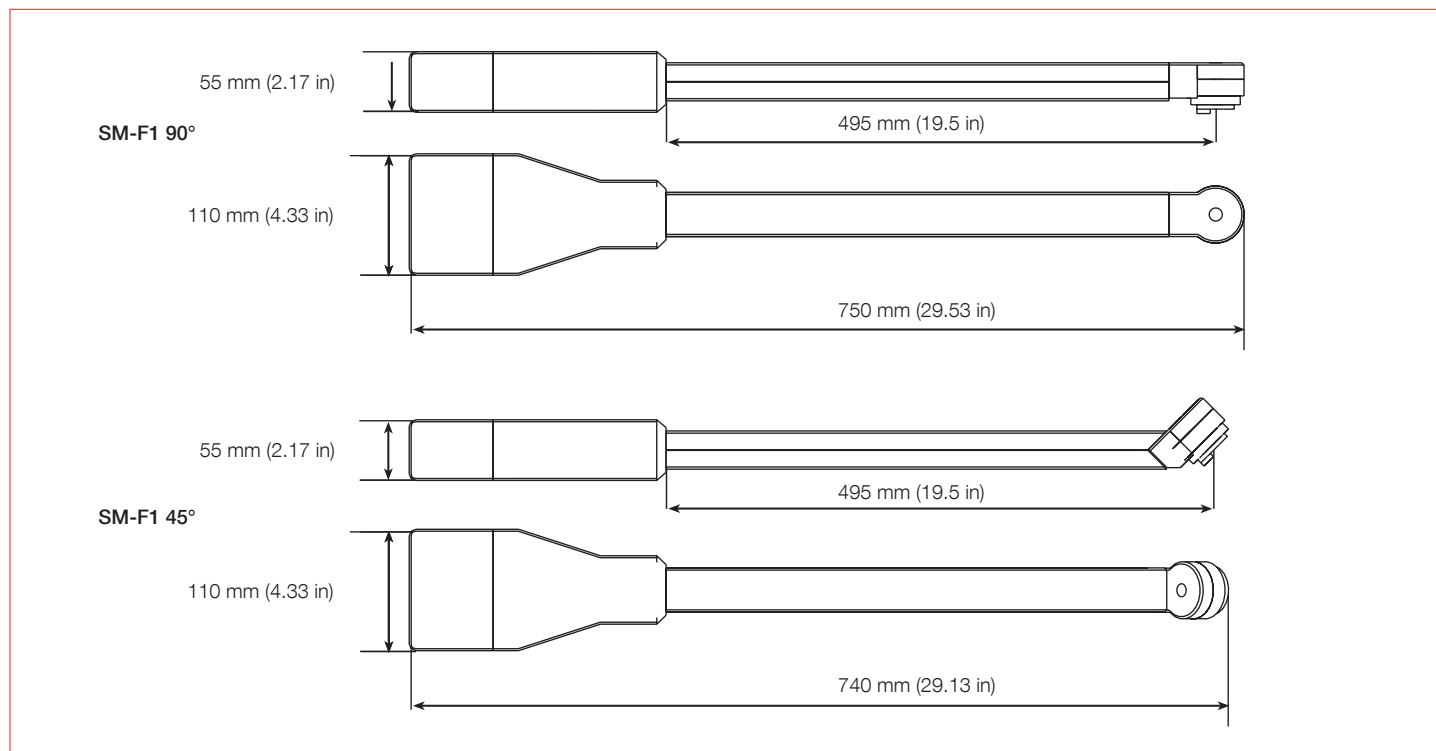


SM-F1-45 plasma spray extension guns

SM-F1-90 plasma spray extension guns

### 3 Technical Data

#### 3.1 Dimensions



#### 3.2 Specifications

<b>Power rating</b>		
Maximum	25 kW (100% duty cycle)	
<b>Weight</b>		
Approximate	2.8 kg	6.2 lbs
<b>Cooling Water</b>		
Inlet temperature	20 °C (± 5° C)	59 to 68 °F
Inlet pressure	13 bar	188.5 psi
Flow	12 to 13 l/min	3.2 to 3.4 gal/min
<b>Quality</b>		
Total hardness	0.5 Grade F / 0.35 Grade 3 / 0.28 Grade D	
Conductivity	< 5 µS/cm	
ph Value	6.6	
<b>Plasma Controller</b>		
Compatible with UniCoat™ and MultiCoat™		
<b>Powder Feeder</b>		
Compatible with all Oerlikon Metco powder feeders		

Information is subject to change without prior notice.