

Product Data Sheet

Robotic Teach Tool Kit

The Robotic Teach Tool Kit is designed to help customers very accurately develop and test new robot positioning programs for their thermal spray applications.

The Robotic Teach Tool Kit is compatible with the most commonly used Oerlikon Metco Atmospheric Plasma Spray and HVOF spray guns.

1 General Description

The Robotic Teach Tool Kit consists of

- A set of five (5) gun adapters
- Programming laser
- Programming tip
- Set of two (2) hexagonal screwdrivers (3 mm and 4 mm)
- Carrying case

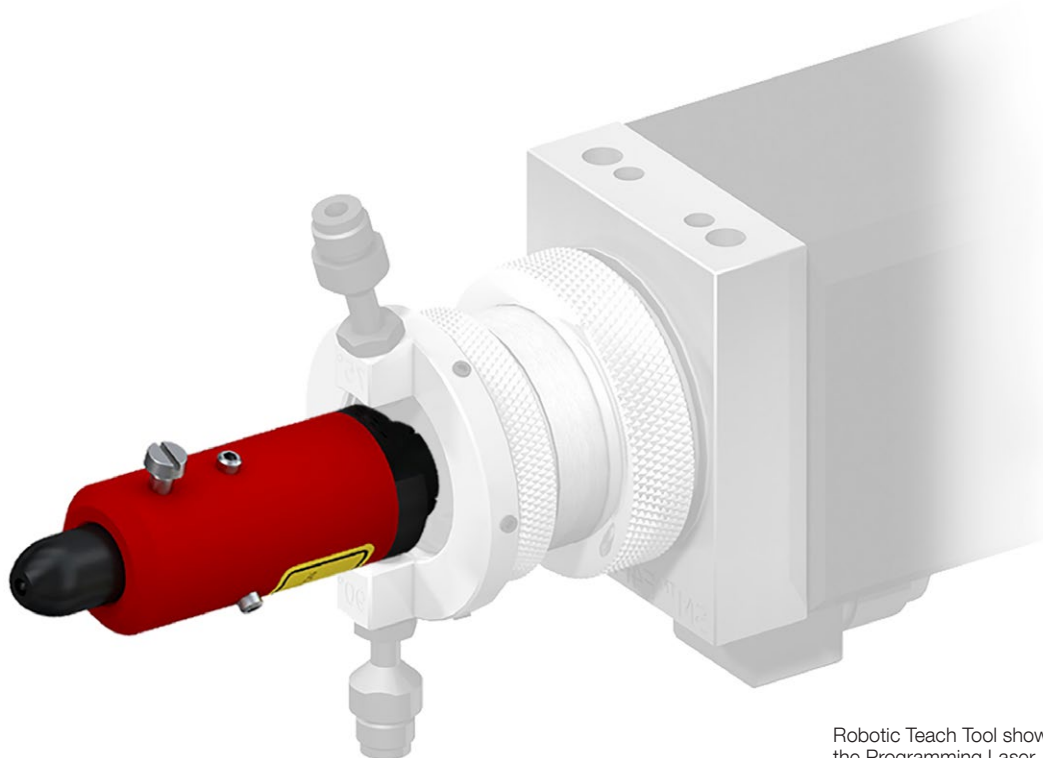
The adapters fit directly into the nozzle or barrel bore of the spray gun. Adapters for the most common nozzles and barrels are supplied in the kit. It is recommended that the spray gun is simply fitted with a nozzle or barrel type for which there is a kit adapter for programming purposes.

The programming laser or programming tip easily attaches to the adapter.

The programming laser allows development of robotic movements without the need to touch the part. It is battery operated and designed for long life.

The programming tip is designed to help develop tool center points for the corresponding spray gun and check gun-to-workpiece distances. Although the tip is of a standard length, an offset can be used in the robotic program to accommodate actual gun-to-workpiece distances. The programming tip is attached by means of a neodymium magnet that allows the tip to break away to prevent damage to the workpiece or robot.

The adapters are vented for safety in case the gun is accidentally ignited while the adapter is in place to prevent a back pressure condition in the thermal spray system (note: spray gun will not operate properly with adapter in place, nor should this be attempted).



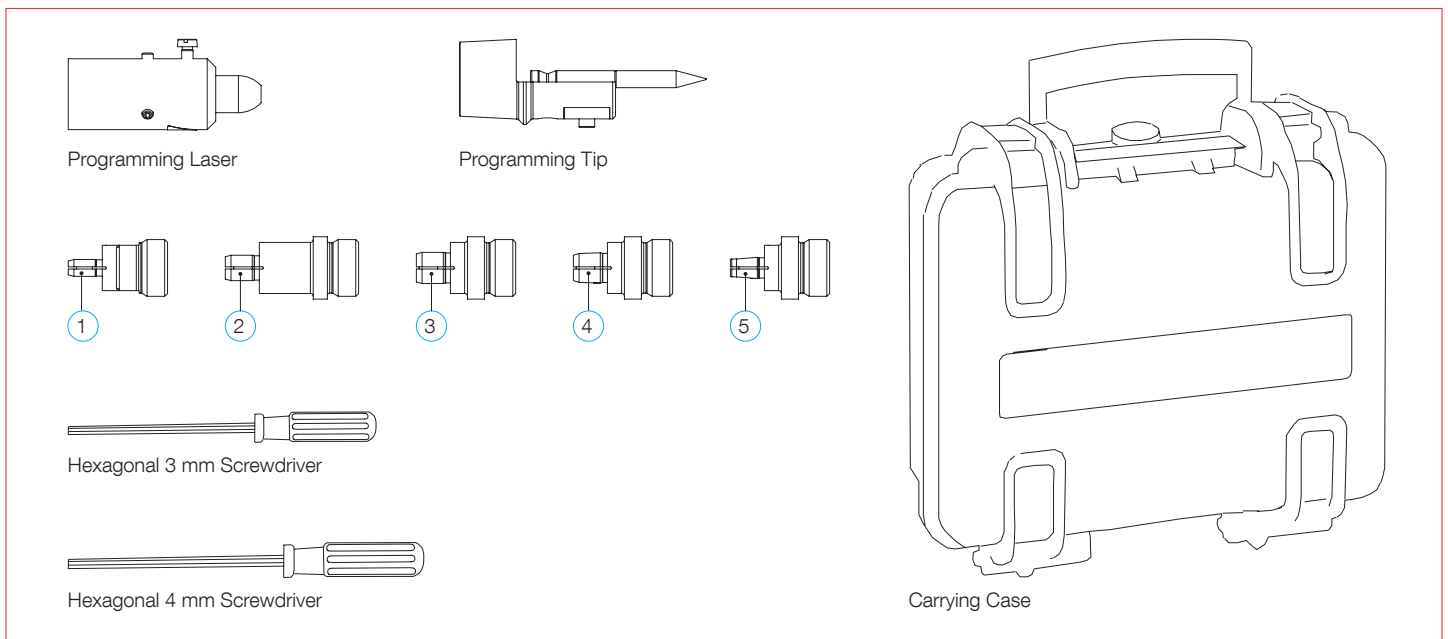
Robotic Teach Tool shown with the Programming Laser

1.1 Included Adapters

Spray Gun	Nozzle or Barrel Ø (mm)	Balloon Number ^a
F4MB-XL series, F4 series	6 mm	1
TriplexPro series, SinplexPro series	9 mm	2
WokaJet series, WokaStar series	11 mm	3
DiamondJet series	11 mm (2600 DJM front gun body)	4
9MB series, 3MB series	8 mm (G or GH nozzle)	5

^a see section 1.2 Kit Contents, below

1.2 Kit Contents



2 Features and Benefits

Effective

- Professional tool kit designed specifically for the motion programming requirements of thermal spray processes

Efficient

- Easily used with popular Oerlikon Metco spray guns and any robot brand
- Quickly mounts and dismounts from the thermal spray gun
- Allows highly accurate robotic motion programming for all workpieces to be coated

Economical

- Low cost method to accurately and repeatedly program robotic motion programs
- Eliminates costly errors from inaccurate motion programming
- Helps save time programming new motion programs

Environmental

- Vented system will not cause back pressure conditions if gun is accidentally ignited with tool in place

3 Specifications

Battery type for programming laser: L1154 (LR44)

Information is subject to change without prior notice.