



Eutectic Thermal Spray Technology

# TeroDyn<sup>®</sup> 3000 System



- Multi-Fuel capability: Acetylene, Propylene, MAPP
- Applies metal, polymer and ceramic powders
- Ideal for extended use and production applications
- Positive repeatable spray rates



## A Truly Universal Thermal Spray System

The TeroDyn® 3000 System (TD3000) is lightweight and balanced for comfortable manual operation. It adapts easily to standard tool holders for semi-automatic operation.

Gas valves are on the torch, so coating parameters can be easily manipulated for optimum coating quality.

Meets Military Specifications for corrosion control and machine element repair (MIL STD 2138 and 1687 A, thermal spray systems).



Extended Service Life



Global Outreach Technical Support



Safe and Reliable Thermal Spray System



Efficient, Economical, High Deposition Spray System



Industrial Sustainability



**High Deposition Rates**

TD3000 produces a very stable and thermally efficient flame that delivers up to 140,000 Btu/hr. (when used with propylene fuel). This high energy level makes it possible to produce premium quality coatings while spraying at very high deposition rates... up to 30 lbs./hr.



**Maximum Efficiency**

Unique high performance nozzles produce hot concentrated spray patterns for exceptionally high deposit and target efficiencies, minimizing waste from over-spray.



**Greater Control**

Precision air jet accessories allow for accurate control of powder melting and base metal temperature. They may be used to envelope the flame and shape its spraying pattern, or to cool the flame for low temperature applications.

### Positive, Steady, Repeatable Powder Delivery Rates

The EP3 powder container, and the chamber, where the feeding wheel is located, are pressurized and gas protected against the atmosphere. The powder flow rate can be precisely controlled adjusting the speed of the powder feeder motor and consequently the speed of the wheel.

## Choice of Fuels

Acetylene, propylene, MAPP, propane or hydrogen can be used with the TD3000, depending upon the alloy being deposited. Liquid fuels are especially advantageous, since they are safer and often more economical than acetylene. Propylene fuel allows for higher coating rates with consistent coating quality.



### Premium Quality Coatings

- Bond Strength up to 6,000 psi (ASTM C-633)
- Hardness to HRC 60
- Low Porosity and oxide content
- Out-of-Position Spraying at any angle

- Shaft Rebuilds
- Seal Surfaces
- Zinc Coatings
- Anti-Skid Coatings
- Bearing Fits

### Broad Range of Applications

### Complete Powder Product Line

- ProXon® One-Step, Self Bonding Alloys
- Fusing Alloys
- MetaCeram® Two-Step, Cold Process Alloys
- ThermoTec® Two-Step, Specialty Alloys
- Low Temperature Alloys
- Polymers
- Ceramics

## Optional Accessories



**RL3310**  
(Part No. 4488076)

A high energy nozzle that introduces the alloy into the flame at the optimum angle and location for a long dwell time and maximum heat input.



**RL200**  
(Part No. 4486021)

Alloys are delivered to the flame through a large center bore, which is best for fusible alloys.



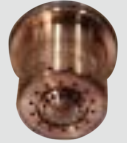
**RL210**  
(Part No. 4486020)

Alloys are fed at an angle into the flame, increasing the dwell time of the alloy in the flame for extra heat input.



**LT250**  
(Part No. 4486095)

This nozzle, when used with the LT Air Shroud, allows the TeroDyn 3000 System to apply low-melting point alloys without excessive fuming or loading.



**RL210W**  
(Part No. 4484821)

A nozzle similar to the RL210 with added air holes to prevent loading on the nozzle face.

## TeroDyn 3000 System Complete Kit (Part No. 4484758)



Kit Includes: TeroDyn 3000 Torch, EP3 Powder Feeder System, Gas Supply Package, Air Filter/Regulator, Manifold Kit, FM-2 Flowmeter, O-Ring Package, Tool Kit, RPA Kit and Tool Post Adaptor.

## Optional Accessories

**Low Temperature Kit (Part No. 4484748)**  
Contains air shroud, nozzle and all hardware necessary to apply low temperature alloys and polymers.

**Propylene Fuel Kit (Part No. 4458000)**  
Contains alternative fuel regulator plus three nozzles to enable the system to use propylene, propane or MAPP.



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