

High Energy Combustion Powder Coating System

TeroDyn® System 2000



COATING

- Multi-fuel capability: Acetylene, Propylene, MAPP etc.
- Great versatility, applies metallic, polymer and ceramic powders
- Very operator friendly with quick set-up
- High production spray rates



HIGH PERFORMANCE, HIGH DEPOSITION SYSTEM FOR SUPERIOR QUALITY COATINGS

HIGH PRODUCTION COATING RATES

The TeroDyn System 2000 produces a very stable and thermally efficient flame that delivers up to 110,000 BTU/hr.* This high energy level makes it possible to produce superior quality coatings while spraying at very high deposition rates.

Unique, high performance nozzles produce hot, concentrated spray patterns for exceptional deposit and target efficiency - minimizing waste from overspray.

PROVEN RELIABILITY

The TD System 2000 has been engineered with safety and dependability in mind. Multiple O-ring seals are used throughout the torch, rather than the conventional metal-to-metal seals, which can easily be damaged. The torch body is a durable, two-piece bronze forging.

EASY TO USE

Operators can achieve excellent results with minimal training. All system adjustments are on the torch body, so coating parameters can easily be fine tuned for any application. Once established, gas flows are turned on or off with a single lever. Changing powders is fast and easy because they're packaged in convenient modules that attach directly to the top of the torch. This virtually eliminates the possibility of of spilling or contaminating the powder.



GREAT VERSATILITY

The TD System 2000 torch is lightweight and balanced for comfortable precise manual operation. It adapts to standard tool post holders for semi-automatic operation.

In addition, the TD System 2000 can be upgraded at any time for use with the TecFlo 5102 Dual Feed external powder feeder. The use of an external powder feeder will allow even higher spray rates with most powders and will expand the range of materials that can be applied.

CHOICE OF FUELS

The TD System 2000 can be used with acetylene, propylene, MAPP, propane and hydrogen, depending on the powder being deposited. Liquid fuels are advantageous because they're safer and often more economical than acetylene. Propylene can often provide higher deposition rates due to its increased BTU output.

TERODYN SYSTEM 2000 DEPOSITS A BROAD RANGE OF POWDERS FOR A BROAD RANGE OF APPLICATIONS

BROAD RANGE OF POWDERS

ProXon® Self Bonding One Step Powders

21021	General purpose alloy, erosion resistant
21022	Nickel base, machinable alloy
21031	Nickel base alloy with chromium for enhanced resistance to corrosion
21071	Machinable aluminum bronze

Fusible, Self-Fluxing Alloy Powders

23045	NiCrBSi; hard, dense and wear resistant
23065	NiCrBSiCuMo; Superior corrosion resistance
23005	NiCrBSi with 35% Tungsten Carbide/Cobalt
23075	NiCrBSi with 40% Tungsten Carbide/Cobalt

MetaCeram® Ceramic Powders

25010	Aluminum oxide for elevated temperature service
25030	Aluminum-titania; excellent finish capability
25050	Chromium oxide for maximum wear resistance
25088	Zirconia-alumina thermal barrier coating

Metal Alloy Powders

29011	300 Series stainless steel; machinable
29012	400 Series stainless steel; grindable
29061	Machinable bronze
29096	Nickel base “stainless” alloy
29123	Contains tungsten carbide for resistance to abrasion and erosion

“Low Temperature” Powders

1960	Zinc for galvanized protection of steel
1961	Aluminum for galvanic protection of steel
29210	Aluminum silicon alloy, good machinability
29240	Tin base alloy for bearing applications



BROAD RANGE OF APPLICATIONS

- Enhanced resistance to abrasion and erosion
- Thermal barrier coatings
- Galvanic protection of iron and steel
- Corrosion protection at elevated temperatures
- Frictional wear resistance
- Improved bearing surfaces



Eutectic offers many more standard and custom powders, including polymers.

TD 2000 INFORMATION

BASIC TD 2000 KIT (Part No. 4467000)

Shipped in a metal carry case:

- TD 2000 Torch
- RL 200 Nozzle
- Flo-Safe® Reverse Flow Check Valves
- Upper and Lower Heat Shields
- Tip Post Bracket
- Dual Oxy-Acetylene Gas Hose - 12 1/2 ft. (3.5m)
- Process Manual

Shipped in a tool box:

- RL 210 Nozzle
- Tip Cleaners
- Spare "O" Rings
- RotoLube Dry Lubricant
- Adjustable Wrench

THE COMPLETE TD 2000 KIT (Part No.4468000)

Includes all items in the Basic TD 2000 Kit, plus these additional accessories:

• RotoJet® Kit (Part No. 4472000)

Rotojet may be required to apply specific MetaCeram® coating. Each performs several functions.

• Manifold Kit (Part No. 4477000)

Includes all the hardware to manifold two oxygen cylinders and two acetylene cylinders.

• Air Filter / Regulator (Part No. 4487061)

Removes contaminants from plant air supply and regulates air pressure for proper operation of RotoJet®.

• Flowmeter Model FM -1 (Part No. 4485099)

Fuel gas and oxygen flowmeter is required equipment. Consistent gas flow rates are essential data for achieving and repeating quality coatings. The flowmeter permits setting and monitoring of BTU output.

OPTIONAL ACCESSORIES:

• LT Adapter Kit (Part No. 4486064)

Contains LT Air Shroud, LT Nozzle and all hardware necessary to apply low temperature alloys and polymers.

• Propylene Fuel Kit (Part No. 4458000)

Contains an alternative fuel regulator plus three nozzles to enable the TD 2000 to use propylene, propane or MAPP fuel.

• Extender Kit (Part No. 4469000)

Allows the TD 2000 to coat internal diameters as small as 5". Extender Kit includes the extender with cooling air jets, air filter/regulator, air hose and spare parts.



YOUR RESOURCE FOR PROTECTION, REPAIR AND JOINING SOLUTIONS



Eutectic Corporation

N94 W14355 Garwin Mace Drive
Menomonee Falls, WI 53051 USA
P 800-558-8524 • F 262-255-5542
www.eutecticusa.com

Eutectic Canada

428, rue Aime Vincent
Vaudreuil-Dorion, Quebec
J7V 5V5
Phone: (800) 361-9439
Fax: (514) 695-8793

www.eutectic.ca

Eutectic Mexico

KM 36.5 Autopista
Mexico-Quertaro
54730 Cautitlan-Izcalli
Estado de Mexico, Mexico
Phone: 011(52) 55-5872-1111

e-mail: eutectic.mexico@eutectic.com.mx

TD2000 12-04-09 © 2008, Eutectic Canada, ® Reg. T.M., Printed in Canada

Statement of Liability: Due to variations inherent in specific applications, the technical information contained herein, including any information as to suggested product applications or results, is presented without representation or warranty, expressed or implied. Without limitation, there are no warranties of merchantability or of fitness for a particular purpose. Each process and application must be fully evaluated by the user in all respects, including suitability, compliance with applicable law and non-infringement of the rights of others, and Eutectic Corporation and its affiliates shall have no liability in respect thereof.