



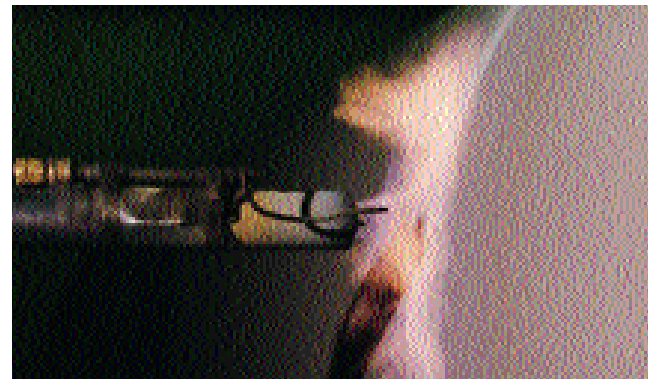
Praxair Leads With Experience and Solutions For the Textile and Fiber Producing Industries

As the world leader for over 45 years in wear-resistant coatings and related services, Praxair Surface Technologies, Inc. specializes in providing innovative solutions to critical wear and friction problems in the Textile and Fiber Producing Industries. With unmatched experience and technological depth, Praxair maintains its pioneering position in the industry and leads the way in surface enhancement.

Praxair's worldwide network of plants are specially equipped to provide unparalleled product consistency on textile and fiber producing equipment components. We can therefore provide the same coatings and surface characteristics to equipment manufacturers and end-users alike, regardless of location.

Praxair coatings can provide more consistent, longer lasting yarn contact surfaces by resisting wear, scratching and corrosion inherent in the harsh, high speed operating environments of fiber production and textile manufacturing equipment. More consistent, fiber-friendly surfaces can enhance productivity and product quality consistency.

With the support of extensive R&D facilities and experienced materials and equipment consultants, Praxair Surface Technologies application specialists are readily available to examine the details of your applications and recommend the most cost effective solutions.



D-Gun™ coating process

Applications List

Filament and Staple

Fiber Producer Applications

- Draw Rolls / Godet Rolls
- Take-up Rolls
- Separator Rolls
- Groove Rolls
- Crimper Rolls
- Winder Rolls
- Sunflower Wheels
- Finish Applicators
- Guides, Pins and Bars
- Tow Cutter Blades

Textile Applications

- Rotary Disks
- Storage Disks
- Friction Disks
- Thread Wheels
- Feed Rollers
- Guides, Pins and Bars

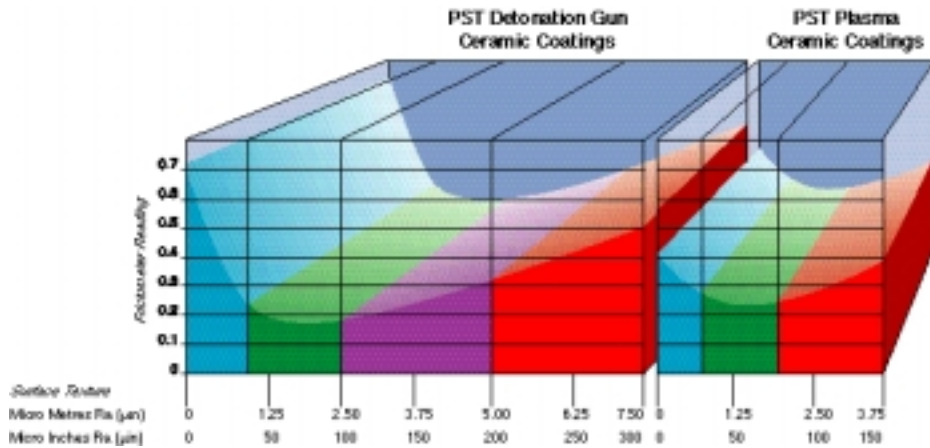
Praxair utilizes the broadest range of process technologies in the industry.

SUPER D-GUN™	LASER CLADDING
D-GUN™	TRIBOMET®
HVOF	CVD
PLASMA	PVD

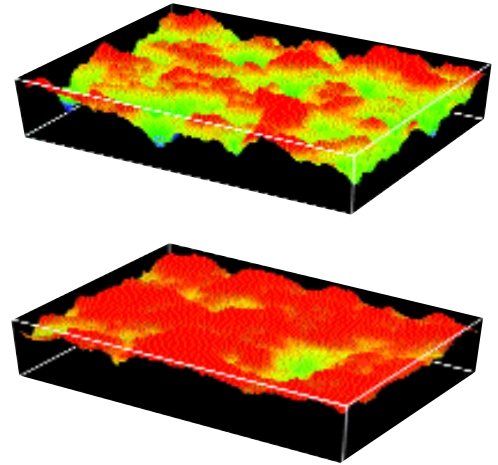


Coated textile components

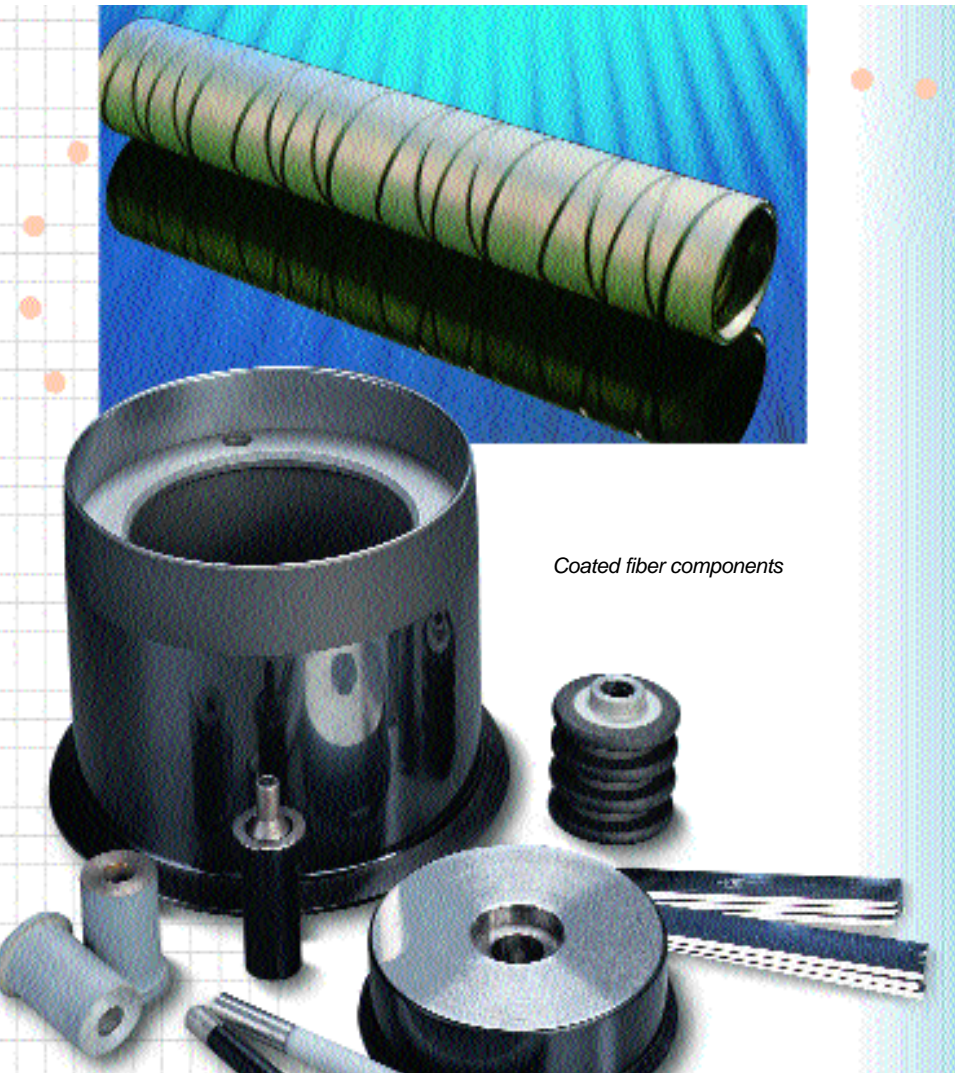
Surface Finish and Friction



PST's broad array of coatings and finishing techniques offer an unmatched variety of surface topographies and friction characteristics. Coated surfaces can be tailored to satisfy the unique requirements of each textile fiber application.



3-D interferometric profiling goes beyond conventional surface measurement to illustrate varying surface characteristics. In this case both surfaces (shown at approximately 200X in the x-y plane) measure $1.3 \mu\text{m Ra}$ ($53 \mu\text{in Ra}$) yet possess differing yarn contact characteristics. Praxair applications specialists and customers use this technology to see what the yarn sees.



Coated fiber components

How Praxair Can Benefit You

- More consistent, longer lasting fiber and yarn contact surfaces
- Reduced component replacement and maintenance costs
- Precise, repeatable surface finishes and friction characteristics
- Ancillary services including part fabrication, repair, finishing and balancing
- Over 100 metallic and ceramic coatings to choose from
- 27 plants worldwide providing technical support, consultation, sales and service



For more information on these and other Textile and Fiber related applications, call: 1-800-822-7284 or contact one of these plant locations.

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Fax (713) 991-8707

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New Castle, PA 16105
Tel (724) 658-6678
Fax (724) 658-1745

4101 W. 124th Place
Alsip, IL 60658
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Fax (708) 371-1449

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