



**WEBEX**



**MAXCESS**

## ***PRECISION ROLLS***

Vacuum Rolls, Idler Rolls, Bowed Rolls

**MAXCESS**



**Industry Leaders Trust Maxcess**

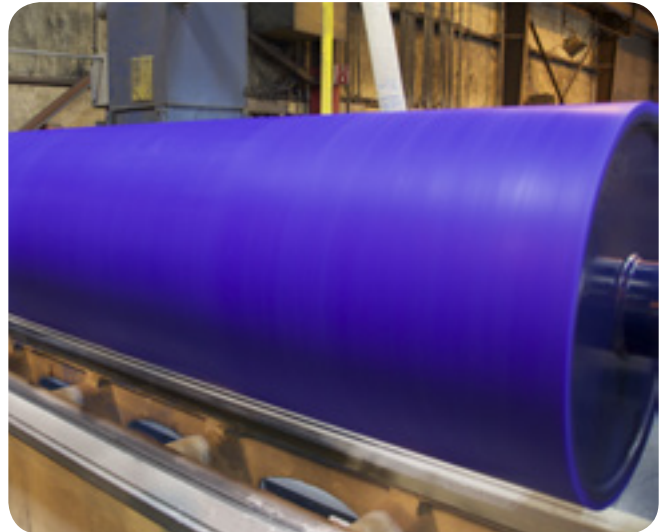
We do more than manufacture the premier Precision Rolls of the industry, we provide robust solutions to maintain the critical properties of your web.

Through the expertise of Maxcess, our engineers have decades of experience in designing and producing Precision Rolls. We have the expertise to understand exactly how our rolls will perform in an application.

Many of the world's leading companies trust us to provide Precision Rolls for their most challenging web handling needs. Maxcess has maintained a solid reputation by understanding the unique needs of our customers, engineering the right solution and manufacturing the highest quality Precision Rolls in the industry. We invest the time in every roll we manufacture to ensure every detail is correct.

**The Maxcess Precision Roll Advantage**

We welcome the opportunity to solve the most difficult web handling challenges. Our design and manufacturing teams have extensive experience with Precision Rolls in a wide range of industries with unique requirements. Whether handling asphalt roofing material or optical grade precision film, every roll we produce has been engineered and built to the exact specifications required to solve an application challenge and exceed expectations. The value our engineers bring to each project is unique in the industry.



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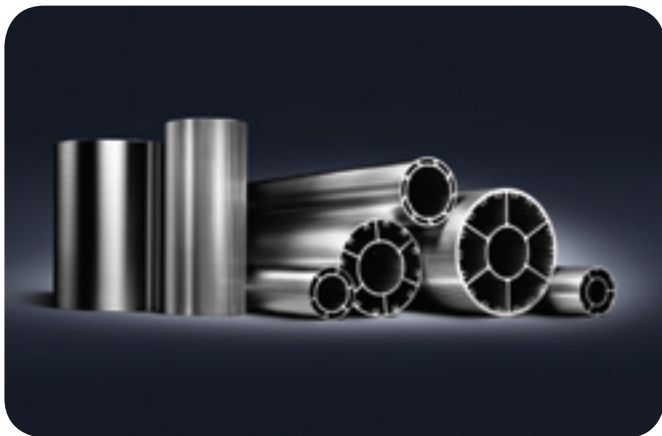


## WINertia Idler Rolls by Componex

**5 Day Delivery! The fastest lead time in the industry.**

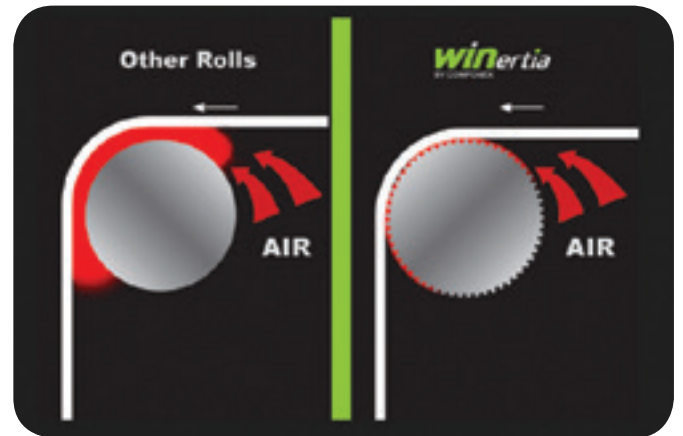
### WINertia Tubing

Our extruded aluminum profiles match each idler application, designed to maximize strength and minimize rotational inertia. In addition, the Tube ID matches the bearing OD and includes built-in balancing chambers.



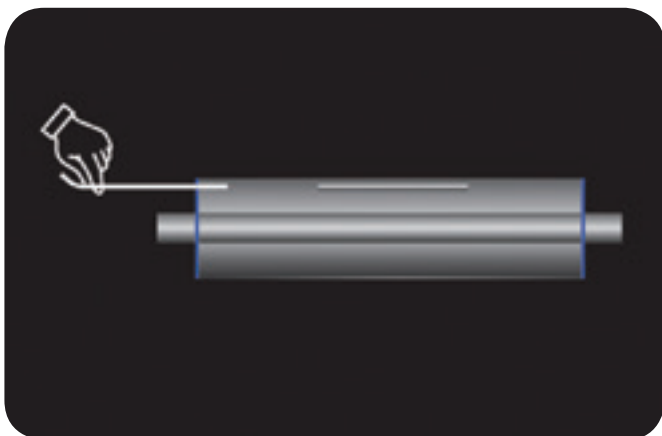
### WINertia AV

Our WINertia AV Idler Rolls include built-in “air vents”- lateral grooves that remove trapped air. This maintains constant web traction at speeds up to 1.000 m/min. In addition, it prevents web scratching, slipping, sliding and outperforms smooth and spiral grooved rolls.



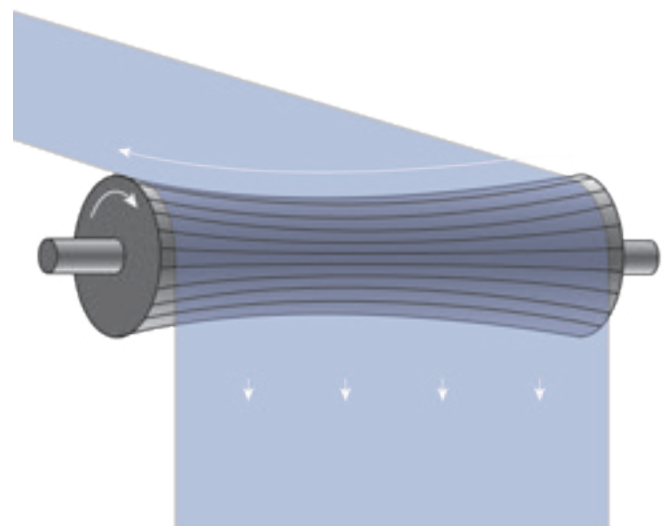
### Dynamic Center-WIN Balancing

Balancing weights are placed at the center of the roll and are locked into the balancing chambers by design, ensuring they cannot fall out. By balancing across the entire face of the roll, you will see a reduction in whip and vibration. Our dynamic balancing spec is  $Q = 6,3$  at 600 m/min (VDI2060).



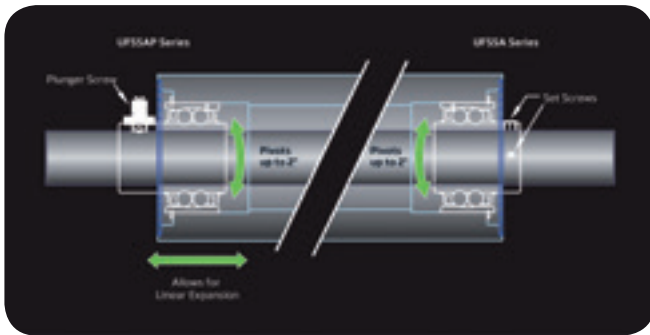
### WINertia AV Reverse Crown Spreader

Our WINertia AV Reverse Crown Spreader is designed with a center taper profile that is machined with a smaller diameter in the center than at the ends. This spreads the web from the center out, removing wrinkles and improving web quality.



### WINertia Self-Adjusting Bearing

Our bearings self-adjust radially to compensate for deflection. They also self-adjust linearly to compensate for thermal expansion and contraction, helping the roll maintain constant free spinning rotation and prevent bearing failure.



### WINertia Calculator

Our WINertia calculator uses your application parameters to display both roll and shaft deflection calculations to quickly recommend a WINertia roll and shaft size to match your application, reducing engineering time and cost.



### WINtrac Thermal Spray Coatings

We offer a durable, environmentally-friendly base coat with high-release top coatings. These offer in-line integration with WINertia roll manufacturing.



#### WINtrac 5 Ultrasmooth Ink Release

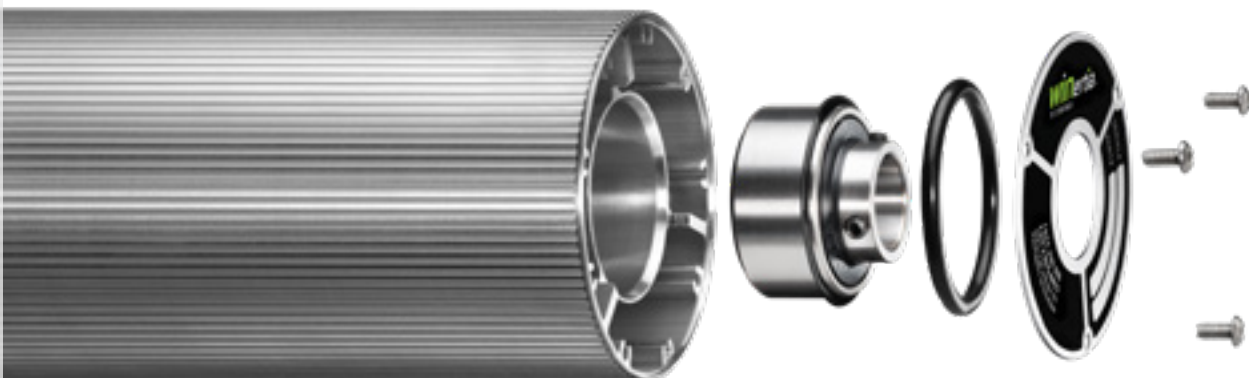
High performance, smooth fluoropolymer coating designed for easy roller clean up.

#### WINtrac 40 High Traction Adhesive Release

High release silicone top coat provides ultimate adhesive release properties while maintaining traction.

### WINlock Bearing Protection

Our unique end caps and gasket design lock the bearing in while locking out the dirt! In addition, our WINclip bearing retention prevents bearing walkout.



## Vacuum Rolls

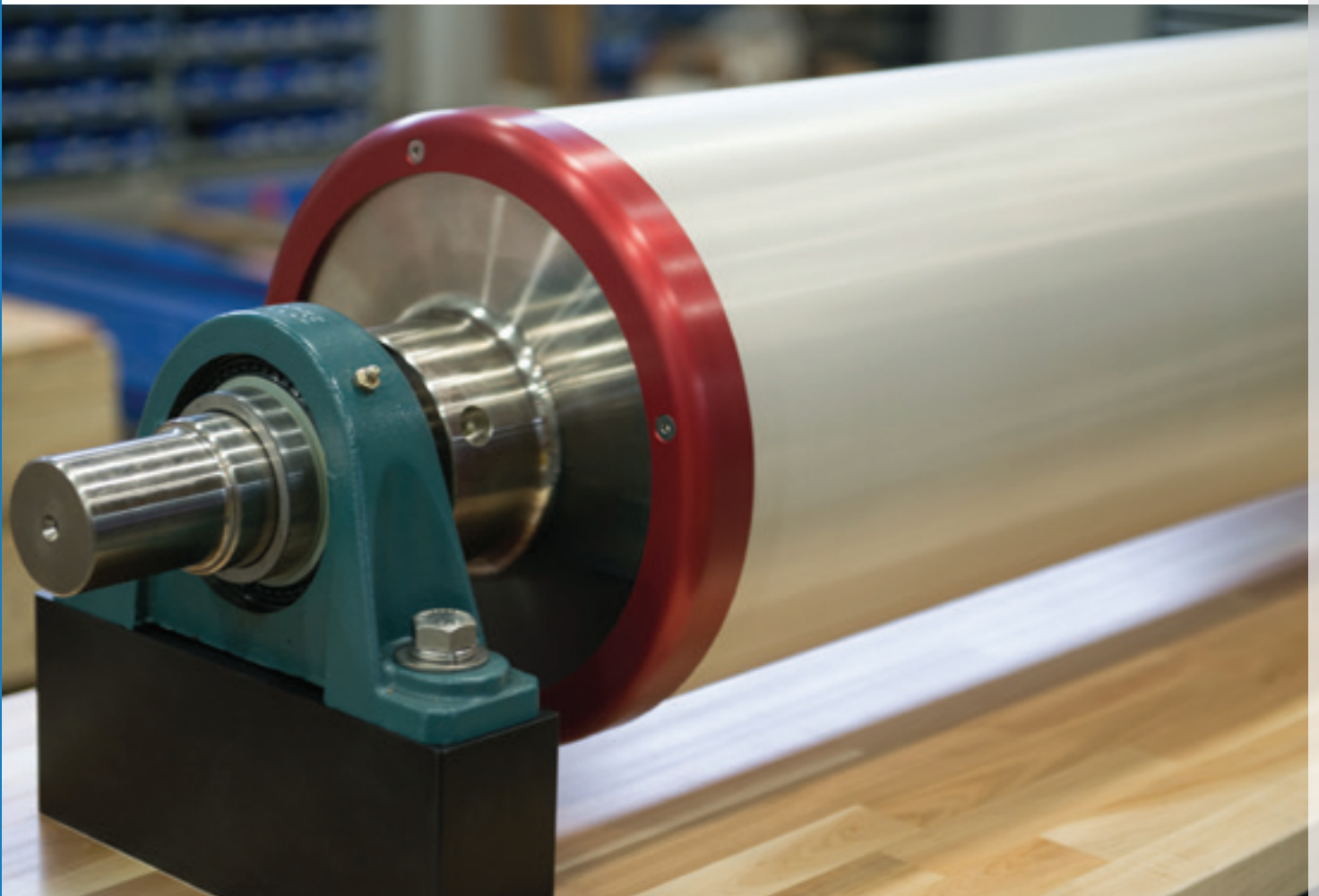
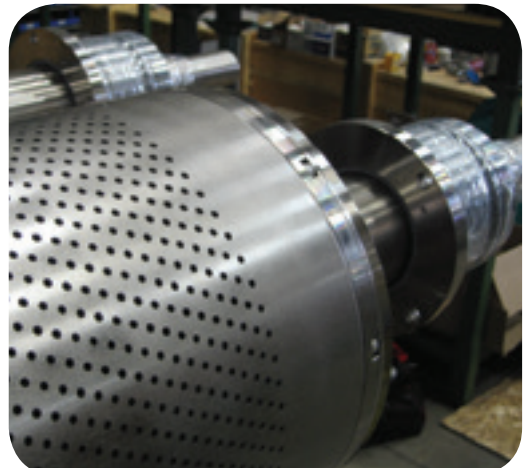
Webex Vacuum Rolls are an ideal solution for applications in which nip rolls or contact with both sides of a web is not possible or desired. They are also an excellent tension isolation and control point ahead of flotation ovens where webs are coated on both sides. By drawing one web surface into contact with the roll, Vacuum Rolls increase friction forces and help prevent web slippage.

- Ultra-thin coated films
- Pressure-sensitive papers
- Decorative products
- Adhesive tapes and optical film for the aerospace, biomedical and pharmaceutical industries

## Seamless Screens

Webex Vacuum Rolls incorporate a smooth, ultra-fine, seamless, nickel screen that provides consistent grip across the entire width of the web, without damaging even the most delicate coated materials. The roll surface carries and supports the web while the vacuum grid gently holds the web evenly in all directions.

Our Vacuum Rolls have proven themselves in some of the harshest environments possible while continuing to maintain accurate and delicate web control.



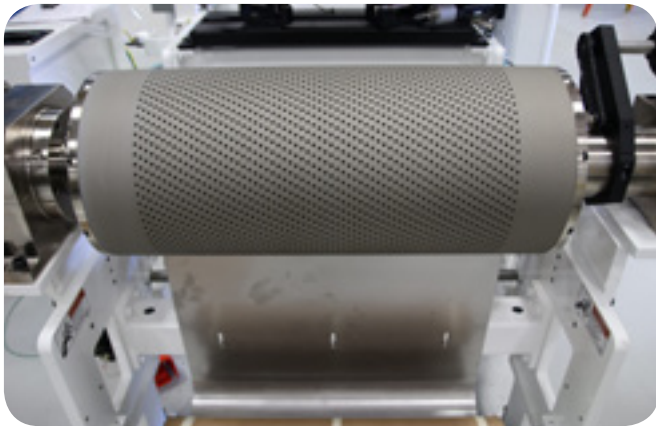
### Every Webex Vacuum Roll is designed for your unique application

- Vacuum zone angles configured to match the web wrap
- A wide variety of custom options
- Adjustable vacuum zones for varying web widths
- Flame spray coatings for release and traction
- Clean room and cantilevered designs

Protective screens provide consistent grip across the entire width of the web, and extra protection for sensitive materials. We offer a wide variety of screens and coverings to prevent marking of delicate webs.

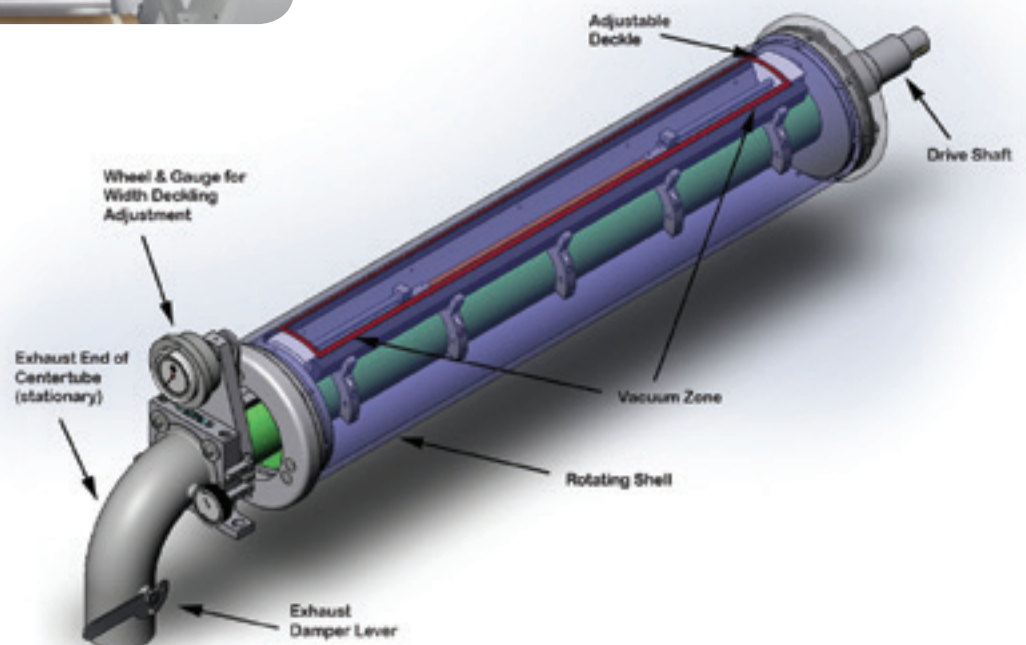
This includes:

- Ultra-fine, seamless, nickel screen for the most delicate coated materials
- Wool felt covers
- Fine stainless steel wire mesh screens
- Standard Tungsten Carbide plasma for an all-purpose finish with good traction and release properties
- Rubber (polymer compound) coatings available



### The non-slip, single side grip of Webex Vacuum Rolls make them ideal for:

- Controlling/transporting webs with coating or adhesives on one side
- Controlling webs made of sensitive materials, such as optical film
- Web positioning and control at high speeds
- Handling and stabilizing webs in low-tension operations
- Webs requiring a pull roll without a nip
- Separating layers of a web
- Web tension isolation
- Replacing nip rolls and S-wraps for improved safety and reduced scrap



### Webex Bowed Rolls

Our rugged Bowed Rolls provide effective control of slit web separation and wrinkle removal. Bowed Rolls are available in both permanent bow and adjustable bow models. Webex's proven mounting solutions ensure ease of installation, as well as extended versatility in web control.

These precision Bowed Rolls are ideal for separation of slit webs, the elimination of web wrinkles, slack edges or loose centers caused by inconsistent tension across the width of the web. Exceptional performance of Webex Bowed Rolls is evidenced by the even distribution of lateral web tension and vibration-free operation at all specified speeds.

### Bowed Roll Models Available

#### Adjusta-Bow

Highly versatile rolls with adjustable bow to meet varying web conditions:

- Adjustable bow to accommodate different product weights, tensions and materials
- Standard diameters from 89 to 165 mm

#### Perma-Bow

Rugged fixed Bowed Rolls engineered for consistent, stable performance:

- Amount of bow is engineered for each application
- Standard diameters from 38 to 190.5 mm

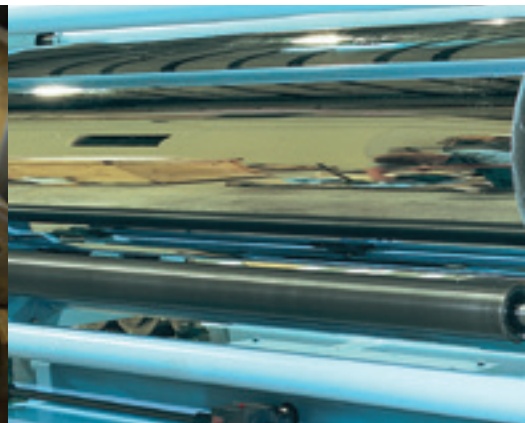
### Rubber Covered Spreader Rolls

Grooved rubber-covered spreader rolls remain one of the most cost-effective and frequently used solutions to eliminate web wrinkling. A partnership with Valley Roller, these idlers are covered with a rubber elastomer and are precision machined with angled, outward spiraling grooves across the roll surface. There are different elastomers available for use, each with different physical properties such as solvent resistance, heat resistance and hardness. In addition, various groove patterns are available to meet your specific application needs.



- Separating
- Spreading
- Dewrinkling
- Non-slip
- Tracking
- Air Elimination

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