

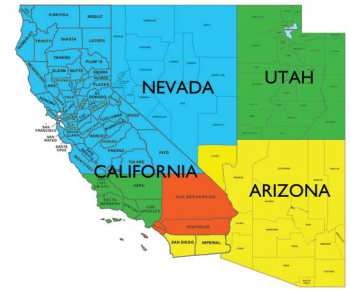
## Manufacturers' Representatives

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## EXPANDING SHAFTS 1-800-465-3763

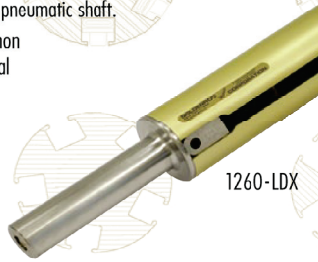


Each Goldenrod shaft is customized to meet your exact needs and requirements for increased productivity, and manufactured for long life and low maintenance.

### MULTIPLE BLADDER

The industry's most popular performance-driven pneumatic shaft.

- Multiple external tubes filled through a common source (LDX) or the patented Fail-Safe internal check valve system (LD)
- Greater expansion for easier core loading and unloading (3/8" or more)
- Continuous rubber expanders extend the length of the shaft
- Grips cores with almost twice the force of conventional shafts
- 10 minute bladder repair
- Steel-backed expanders protect bladders – razor proof
- Always deflates completely below the shaft surface



1260-LDX

### SLITTER DRIVE SHAFTS

Precision machined to exacting tolerances and finish to eliminate axial misalignment of knives. Perfect for automated systems.

- Multiple bladder style body is ground, chromed and reground to  $\pm .0005$ " end to end tolerance
- Shaft turned entirely from one piece of solid steel
- Bottom knives are securely held with wide, uninterrupted rubber gripping ledges
- No tools are needed to re-position knives
- Reduced changeover time
- Fast ROI

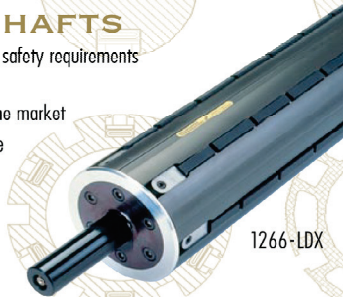


1280-CT

### LIGHTWEIGHT SHAFTS

Strong patented designs and materials meet safety requirements and reduce downtime.

- Lightest 3" and 6" aluminum shafts on the market
- Lighter and less expensive than composite lug shafts
- Various 3", 4", 5", 6" and 6.75" models available
- Bolt-on journals available
- Multiple bladder design – fast delivery, fast expansion, fast repairs



1266-LDX

### SMALL DIAMETER SHAFTS

Locked core and differential shafts ideal for tape, film and ribbon rewind applications.

- Small diameter (1" to 1.5") shafts available in lengths up to 100"
- Each shaft features three rows of external gripping elements (locked core) or extremely low friction, abrasion-resistant ledges (slip differential) for excellent control of low tension web substrates.
- Each shaft turned from single piece of steel – no weak journal/body connections, so shaft can hold more weight with less deflection



1260-LDX

### ROLL CENTERING SHAFTS

Ensuring a perfect unwind or rewind at high linear speeds.

- Pneumatic, pneumatic/mechanical, and mechanical
- Metal ledges expand first to hold cores above and concentric to shaft body before expansion of the rubber gripping ledges
- All bladders filled through a single valve (LDBX), and available with patented Internal Check Valve system (LDB)
- Prevents loping and allows higher winding speeds
- Improved finished roll quality (low wrinkles and defects) and longer shaft life
- Excellent for printing, laminating or coating applications
- Excellent for foils or metallized films



1260-LDB

### ULTRA-LIGHTWEIGHT MULTIPLE BLADDER LEAF SHAFTS

The lightest weight 3" air shaft on the market, a perfect choice for light duty applications or drum winding.

- Weighs just 0.25 lbs. per inch of body length
- All aluminum construction with customized hardened steel ends
- Simple maintenance – multiple bladder design allows for 10 minute or less bladder changes
- Strong design – handles medium-duty single rolls and light duty multiple rolls



1260-LF

### CORELESS SHAFTS

Multiple designs for winding paper, film or foil with no core.

- Saves converters thousands in core costs
- Eliminates need for core disposal
- Multiple bladder design



1260-LFT

### LARGE DIAMETER / MILLED BODY SHAFTS (REEL SPOOLS)

The most common pneumatic shaft in the tissue and paperboard markets.

- Heavy duty LDB models with both Centering and Internal Check Valves
- Unique 3-port inflation/deflation system ensures perfect centering and complete deflation
- Balanced to the most critical Grade G-1.6 standards
- Available in steel, aluminum or steel-sleeved carbon fiber



1260-LDB