

Goldenrod Is The Leader in Multiple Bladder Technology

Offering Over 50 Unique Variations – More Than Anyone!

About Goldenrod Corporation

Goldenrod was founded in 1986 as an affiliate of Svecom P.E., Vincenza, Italy. Initially a distributor to North America, we moved into a new facility in 1993 to make winding shafts and chucks for the converting, paper, film, foil, textile, tissue, nonwovens and metals industries. In 2003, we moved to a new 30,000 ft² facility in Beacon Falls, Connecticut.

Moving The Industry Forward

Together, Goldenrod and Svecom offer over 50 years' Experience and the greatest variety of roll-handling tools in the world.



Our state-of-the-art differential shafts, lightweight and ultra-lightweight winding and slitting shafts, reel spool shafts, chucks, safety chucks, and a complete line of shaft handling equipment lead the industry.

The Multiple Bladder Advantage

Our unique multiple bladder approach allows application-specific numbers and widths of gripping ledges. We offer 50 multi-bladder options to solve problems caused by lug and button shafts.



Our Mission

We give our customers the tools to manufacture efficiently and safely, produce more – and profit more. Goldenrod means L-E-A-N, in North America and worldwide:

- Long life, low maintenance products.
- Extensive technical assistance.
- Aggressive quality assurance and service
- New, innovative winding solutions.



Goldenrod Differential Shafts – The Difference is in the Details!

We're the world's No. 1 seller of differential winding shafts. Why?

- Our unique, field-proven DFX shafts are the most flexible in the industry, with superior tension range and patented expanding core stops for precise, repeatable alignment. Aluminum, carbon fiber and steel designs for virtually any application in diameters from 1" to 12" and beyond.
- Our full line of Cam-Lock differential shafts support the heaviest rolls of any Cam-Lock shaft in the industry, All are custom built for your application, in diameters of 3" to 12" and beyond.

Benefits of Goldenrod Differential Shafts

1250 DFX (Direct Friction)

- Quick and easy setup - no spacers.
- Differential width cores as narrow as 1" can be wound on the same shaft at the same web tension
- Available for core IDs as small as 1" in diameter
- Patented DFB model differential with surface roller bearings minimizes drag on larger-diameter cores
- Aluminum, steel or carbon fiber
- Patented, adjustable core stop cassette system for rapid changeover and saved setups
- Engineered for low tensions and high roll weight

1250 CL (Cam-Lock)

- Supports highest roll weight of any Cam-Lock shaft in the industry
- Spring-loaded ball bearings available to assist core positioning and winder start-up
- Requires no lubrication
- Base shaft accepts multiple ring diameters, simple changeover from 3" to 6" cores
- Minimizes core dusting



1250-DFX
Differential Shaft



1250-CL
Cam-Lock Style
Differential Shaft



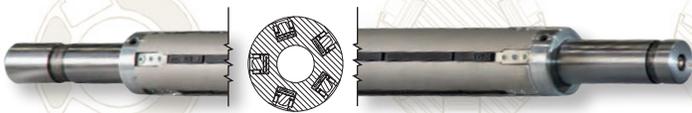
1250 DFX differential



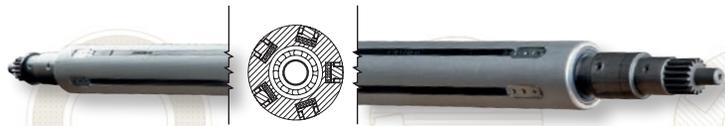
1250 CL differential

Multiple Bladder

Pneumatic with Full-Length Grip Ledges



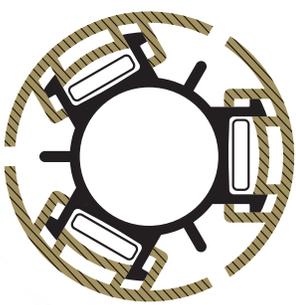
Pneumatic with Rotating Body



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

- Multiple external bladders 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 grip ledges extend shaft length
- Grips cores with almost twice the force of conventional shafts
- 10-minute bladder repair
- Steel-backed expanders protect bladders - razor proof
- Grip ledge deflates completely below the shaft surface

Ultra-Lightweight, Multi-Bladder Leaf



Multiple Bladders



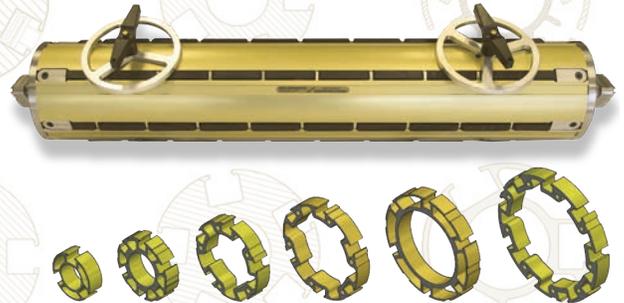
AIR VALVE
PD-14

SECTION A-A
DEFLATE - 2.96" (75.23 MM)
INFLATE - ϕ 3.22" (81.72 MM)

Weight body (assembled) - 0.25 lbs per inch

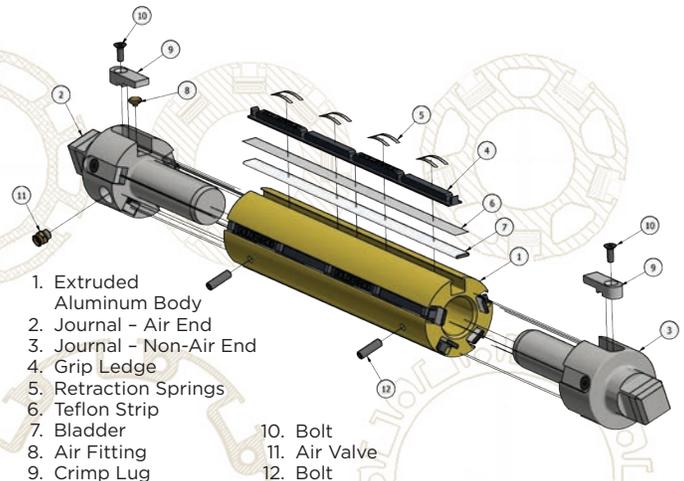
Lightweight Shafts - Extruded Aluminum Bodies

Multiple profiles available in 3", 4", 5", 6", 6.75", 8" Diameters



ALUMINUM

MODEL	CORE ID	# of LEDGES	LBs/INCH ASSEMBLED
1263-LDX Ultralight	3"	3	0.30
1260-LDX Lightweight	3"	3/5	0.40 / 0.42
1264-LDX Lightweight	4"	5	0.59
1265-LDX Lightweight	5"	6	0.72
1266-LDX Ultralight	6"	6	0.64
1260-LDX Lightweight	6"	6/9	0.70 / 0.75



1. Extruded Aluminum Body
2. Journal - Air End
3. Journal - Non-Air End
4. Grip Ledge
5. Retraction Springs
6. Teflon Strip
7. Bladder
8. Air Fitting
9. Crimp Lug
10. Bolt
11. Air Valve
12. Bolt

Small Diameter

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

- Small diameter (0.5" to 2.0") shafts in up to 100" lengths
- Full-length external grip elements (locked core) or low-friction, abrasion-resistant ledges (differential) for excellent control of low-tension web substrates.
- Each shaft turned from one-piece solid steel - no weak journal/body connections. Shaft can hold more weight and run at higher speeds



Slitter Drive Shafts

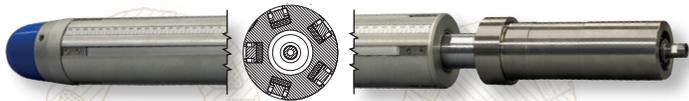
Precision machined to exacting tolerances and finish to eliminate axial misalignment of knives. Perfect for automated systems.

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

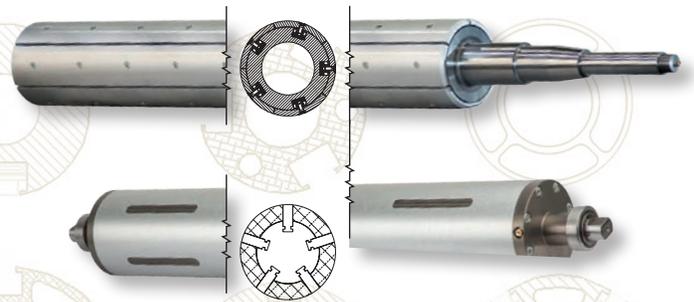


Side-Lay

Multi-bladder design; adjust roll edge on the fly



Internal Bladder Lug and Leaf Shafts



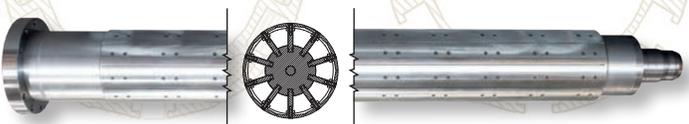
Roll Centering Shafts

- Prevents loping and allows higher winding speeds
- Improved finished roll quality (no wrinkles and defects) and longer shaft life
- Reduced changeover time and fast ROI

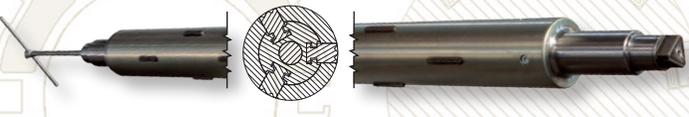
Pneumatic Expansion - Centering Ledges



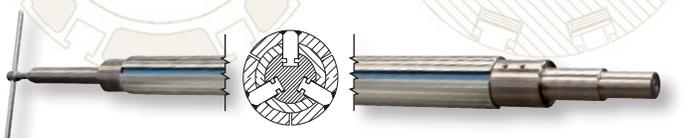
Pneumatic Mechanical - Leaves



Mechanical - Lugs



Mechanical - Leaves



Coreless

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

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

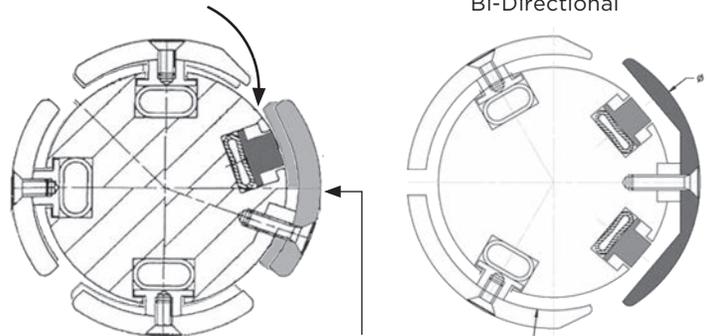
Full-Length Trapping Ledge

Fixed Leaf



Direction that material must be fed and the direction of shaft rotation

Bi-Directional



Fixed Trapper Leaf

Expanding Chucks

Goldenrod offers a complete family of hard-working expanding chucks in a full range of sizes and styles for your shaftless applications.

Pneumatic/Mechanical Chucks

- Concentric Mechanical Expansion with the ease of air inflation
- Air expand /spring retract or spring expand/air retract options
- Air-driven piston forces expanders up inclined planes, providing perfect roll-centering and strong gripping
- Heavy-duty steel flange or special shaft-mounted design
- Base chucks can accept core adapters for quick changeover
- Patented 1420-LFH Hybrid design for the highest torque requirements in steel cores



1420-LF
shown with adapter

Multiple Bladder Chuck Adapter

- Quick changeovers plus all the benefits of the multiple bladder design
- Adapters can be used in pairs or made as a full-width sleeve with no repositioning of chucks required
- Quick and easy maintenance
- Assembled with split collar mount
- Available in Lightweight Spyder design for larger diameters up to 16"



1460-LDX

Torque Chucks

Low cost, heavy duty, and easy to use.

- Uses web tension to expand; non-slip gripping power exerted in either direction
- Simple design eliminates wearing parts
- Available for standard corrugating and sheet operations



1480-LFTQ

Axial Chucks

- Machine arms exert side pressure against the core to expand the lugs
- Flange mounted
- No tools or air pressure required
- Various diameter core adapters for easy changeover



1480-LGAX

Goldenrod Safety Chucks

Widest range of standard models and socket sizes available from inventory

- Tilt Plate or Slide Plate, foot and flange mounting
- Socket options: U-square, V-square, and VO square/round
- Redundant safety locks and finger guards standard
- Side-lay adjustable and Skew Base Models
- Air-Thru and air-operated models for rotary union connection



900



926



928

Single Bladder Pneumatic Chuck Adapter (Tire Chucks)

- Lightweight and economical shaft-mounted 1440 models
- Interconnected air hose to inflate chucks simultaneously
- Available from 3" to 16" diameters and up with custom passing bores



1440-RC

Goldenrod Carbon Pultrusion Shafts - The Difference is in the Details!

Goldenrod manufactures the industry's only carbon fiber multiple-bladder shaft - the lightest-weight, yet most rigid, winding shaft on the market. Our patented carbon fiber pultrusion design allows for superior stiffness and winding speeds.

We make the industry's only carbon fiber multiple-bladder shaft - the lightest, most rigid on the market. Our patented design allows for superior stiffness and winding speeds. Lowest Deflections. Best Stiffness. Low Inertia. Highest Critical Speeds = The best-performing, lightest-weight shafts.

- Patented design in high and super-high modulus carbon fiber
- Composite material surrounded and protected by metal
- Journals seat into metal
- Multiple, full-length grip ledges
- Replace bladders in 10 minutes or less
- 3", 4", 5", 6", and 6.75" diameters



Patented Pultrusion carbon fiber construction provides lightest weight and superior shaft stiffness for highest winding speeds

Carbon Fiber - Lug

- High modulus, low deflection carbon fiber shafts increase production through higher run speeds and less down time.
- Carbon clad in thin-wall aluminum or steel sleeve
- Ergonomic and light weight
- Rugged but easy-to-repair bladder assemblies
- Aggressive Grip metal lugs
- Available in diameters up to 16"



Roll Handling / Shaft Handling



SP 1200 - Pedestal Mounted Puller



Model 3200 RTT (Reel Turner Trolley)



SP 3100 Shaft Puller



Model 405 BA



Founded in 1986, Goldenrod Corporation is the leading North American manufacturer of winding shafts, chucks and related equipment for the converting, paper, film, foil, textile and metals industries. The Goldenrod/Svecom partnership is the largest manufacturer of winding shafts, chucks and shaft-handling equipment in the world. We are a truly global company dedicated to one thing - serving the needs of our customers.



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