



DOUBLE E
G R O U P
EUROPE

• Pneumatic Shafts

- Extra-Light Aluminum
- Dura-Light Carbon Fiber
- Steel

• Expanding Chucks

• Safety Chucks

• RollMovers

• Pneumatic Breaks

• Tension Control

• Core Cutters

• Material Handling Systems

• Shaft Extractors

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Pneumatic Expanding Strip Shafts in Extra-Light Aluminium or Steel

Design

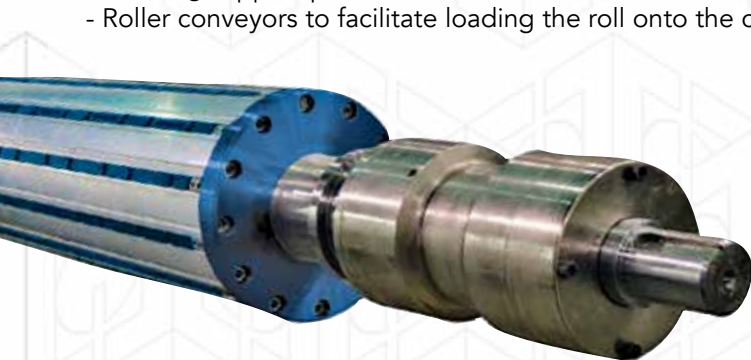
Double E Group STSR and SRL pneumatic expanding strip shafts use a series of external elements, known as "strips", to grip the inside diameter of the core.

The materials used for this series are Extra-Light aluminium or high-strength steel, depending on customer requirements.

The strips are made from hard rubber, but can also be manufactured in aluminium.

Features

- Lightweight
- High-strength aluminium
- Strip layout designed to reduce shaft distortion
- Flat pneumatic polyurethane bladder with Teflon protection
- Journals secured by fitting and anti-rotation screws, or by locking system
- Treated steel journals
- Valve for rapid inflation and deflation
- The following options are available on request or depending on the application:
 - Graduated scale
 - Pre-centering strips
 - Independent air bladders
 - Hard anodizing of the shaft body
 - Rotating support plate
 - Roller conveyors to facilitate loading the roll onto the core



Lightweight, robust, tailor-made solutions

Roll Unwinding/Rewinding

Pneumatic Expanding Lug Shafts In Aluminium or Steel



Design

Double E Group DG and STDG series pneumatic expanding lug shafts are generally recommended for unwinding and winding heavy rolls that require significant transmission torque.

The core is gripped internally by lugs resting on a central air bladder, which expands during inflation and pushes the lugs outward from the shaft body.

Features

- Shaft body in aluminium or steel
- Gripping lugs with anti-slip contact surface
- Wide lug base to increase torque transmission
- Patented, ultra-resistant polypropylene air bladder
- Treated steel journals
- Journals secured with at least 6 ultra-resistant screws
- Valve for rapid inflation and deflation

In Dura-Light Carbon Fiber

Double E Group's Exclusive Carbon Fiber Shaft Manufacturing Technology



Double E Group uses proprietary filament-winding machinery and has developed an exclusive process for manufacturing its carbon fiber tubes, which remains unmatched in the industry.



Double E Group has developed an exclusive tube protection system. Aerospace-grade coatings are used to ensure long-lasting protection.



Double E Group uses a patented air bladder made from filament-reinforced polypropylene. These air bladders withstand high levels of stress and provide exceptional reliability over time.



The journals are custom-made and designed to increase the shaft's resistance to bending and prevent screw shearing. The internal surfaces are precision-machined to ensure a smooth fit.

Additional Solutions for Roll Unwinding/Rewinding

Differential Air Shafts

With their innovative design, Glidelock™ fricon rings are a true breakthrough: they allow each individual roll to be rewound with uniform tension. The intelligently designed central air shaft allows precise tension adjustment, eliminating jerking and dust formation. The friction rings also make loading and unloading cores and finished rolls extremely easy: there is no need to “twist” the rolls anymore — simply slide them sideways on and off the shaft!



Pneumatic Leaf Shaft

For rewinding with thin-wall cores

Leaf shafts are generally used for rewinding with thin-wall cores.

They are also available in a coreless rewinding version.

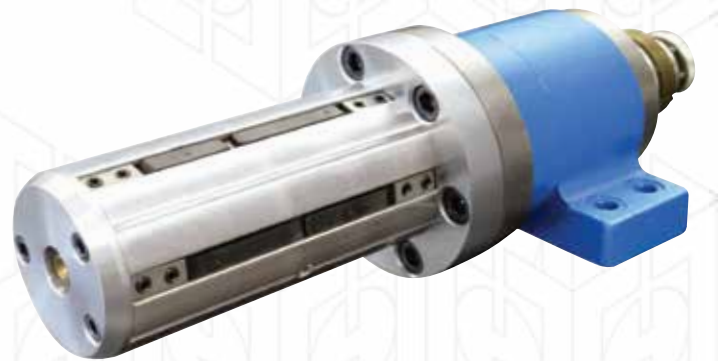


Cantilevered Pneumatic Shafts

Double E Group offers a wide range of cantilevered pneumatic shafts for the label industry, starting from a diameter of 19 mm.

The core is pneumatically locked by means of strips, lugs or leaves. Depending on the machine, the shaft can be mounted by flange or journal.

We can also supply the bearing support, with or without brake, to provide a complete, ready-to-install solution for the customer's machine. The support can be flange-mounted or foot-mounted.



Small-Diameter Pneumatic Shafts, starting from 12mm diameter

Double E Group also manufactures a range of small-diameter shafts with strip, leaf or lug gripping systems. Different mounting types are available depending on the customer's machine. Available from a diameter of 12 mm.



Double E Group Shafts Get Smarter and Safer



An intelligent system made possible by our integrated pressure sensor and controller!

ShaftSafe®

The best ally for your Maintenance and Production departments!

Safety!

A simple, clear reference point to show that the shaft has been inflated to the correct pressure.

Real-Time Information!

Real-time data on air pressure inside the shafts.

Increased Productivity!

Helps prevent roll slippage.
Helps avoid waste from costly rolls.

Prevention!

Analysis of air pressure, number of inflations, hours of use and more.

All this enables effective preventive maintenance



Features:

- Real-time monitoring of air inflation, deflation and operating pressures
- Simultaneous monitoring of up to 8 shafts with a single controller
- Audible and visual alarms alert operators to pressure changes and leaks
- User-defined minimum and maximum pressure alarm levels
- Interfaccia touch a colori intuitiva Simple user interface on a full-color touchscreen display
- Bluetooth® technology with smartphone integration
- Retrofittabile to existing Double E Group air shafts

SAFE INFLATE

A New and Safer Air Gun System for Converters

Double E's, SafeInflate (patents pending) is a revolutionary air gun system that now allows operators to safely inflate and deflate air shafts and similar converting equipment while avoiding the most common pinch points and other serious hazards. Engineered specifically for the converting industry, SafeInflate enables operation and production personnel to inflate and deflate air shafts, pneumatic mechanical chucks and similar equipment easily and safely.

The keys to SafeInflate's safety are its innovative valve and air dispersal mechanism. Once the easy-to-install valve is in place, potentially hazardous valve indents and recesses are covered removing dangerous pinch points for fingertips. The air shaft or other device can then only be safely inflated using the SafeInflate air gun. When ready, the air shaft or other device can then be safely deflated with the SafeInflate air gun's air dispersal mechanism which safely deflects the highly pressurized air away from the operator's face and eyes. Protect your operators and equipment simply, efficiently and economically - use SafeInflate!



Features

- An economical alternative to current systems
- Easy-to-use ergonomic design increases safety
- Easy-to-read pressure gage
- Valve cover design removes pinch points
- Positive air gun to nozzle contact increases safety
- "Finger-free" deflation increases safety
- Safely disperses pressurized air during deflation
- Quick and easy installation

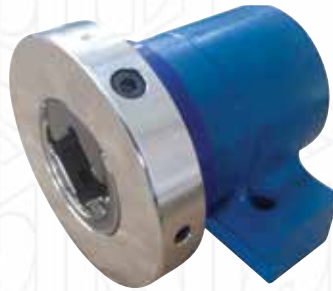
For roll unwinding or rewinding: Double E Group Safety Chucks

Safety Chucks and Pneumatic Sliding Chucks

- Manual opening/closing
- Pneumatic opening/closing
- Interchangeable jaw inserts
- Flange-mounted or foot-mounted design options
- Square, triangular, round or splined engagement options
- Interchangeable wear parts



- Double E Group safety chucks are available with axial adjustment to allow precise roll centering



- Double E Group safety chuck with pneumatic opening/closing and detection sensors

- Double E Group safety chucks can be equipped with mechanical or pneumatic brakes

Roll Unwinding/Rewinding

For shaftless roll gripping:

Expanding Core Chucks



Double E Group expanding core chucks are generally used for shaftless roll gripping. They are available with self-expanding mechanical locking, pneu-mechanical piston actuation or pneumatic bladder actuation.

They are available for core diameters from 70 mm to 300 mm.

They can also be supplied in a dual-stage configuration, reducing the need to remove and reinstall the chucks when working with cores of different diameters.

Shaft Adapters



Double E Group shaft adapters are an economical solution for roll gripping. Designed for installation on a supporting shaft, they are available from diameters of 70mm up to 500 mm.

For tissue converting applications

Ultra-lightweight Core Plug-type chucks



Elimiate Wrinkles from Your Web

Bowed Spreader Rollers

To spread the web uniformly and eliminate creases or wrinkles immediately before processing or rewinding



- Wrap angle adjustment
- Bow adjustment
- Foot- or flange-mounted

Different diameters and coverings are available depending on the customer's application

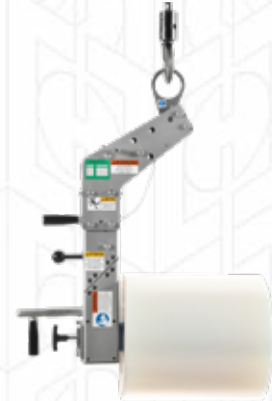
Roll Handling

RollMover

- Battery-powered
- Long battery life
- Robust construction



Hoist-Based Roll Handling



Portable Roll Handling



Safe, easy handling of expanding shafts and core plugs



Core Cutters

- Manual
- Semi-automatic
- Automatic, with optional automatic loader!
- Semi-automatic and automatic models feature an exclusive cutting system with no blade rotation!



Unwind Stands

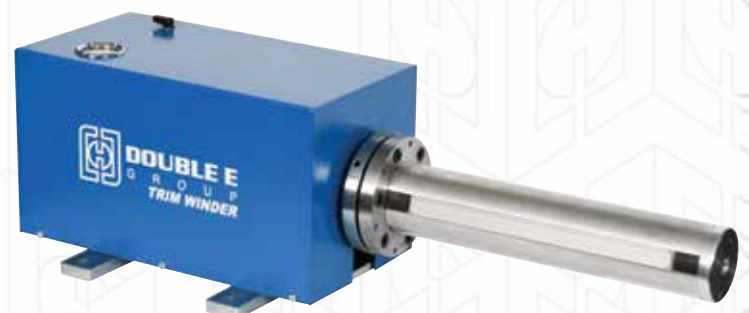


Mini Shaftless Unwind Stand



Portable Pneumatic Trim Winder

A simple, robust and versatile solution for winding all types of web material, without electrical integration or controls. An oscillator is also available for narrow trim.



Pneumatic Expanding Lug Shafts



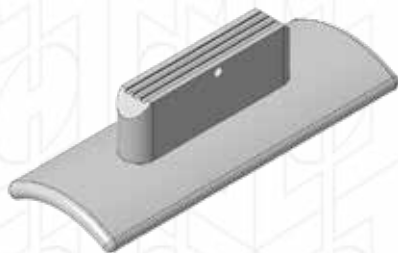
Heavy Duty Rubber Air Bladder



Dimensions d x D - mm:	
For carbon fiber shafts: <ul style="list-style-type: none"> • 17.52 x 28.65 • 25.4 x 36.5 • 44.15 x 57.15 • 66.67 x 79.37 • 95.25 x 107.06 	For steel or aluminum shafts: <ul style="list-style-type: none"> • 25 x 35 • 30 x 38 • 30 x 40 • 35 x 44 • 40 x 50 • 50 x 60

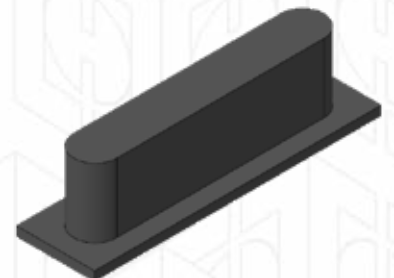
Other sizes available on request

Gripping Lugs



Dimensions d x D - mm :
Aluminum or rubber lugs: L x l x H - mm
<ul style="list-style-type: none"> • 50 x 10 x 14 • 50 x 10 x 16 • 50 x 10 x 19 • 152 x 11 x 18

Other sizes available on request

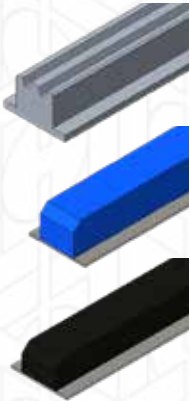


Pneumatic Expanding Strip Shafts



Strips

Rubber, aluminum, steel

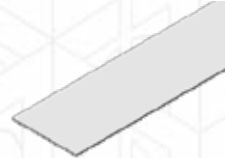


Flat Air Bladders

Widths 10, 15, 20, 26mm



Air Bladder Protection



Various sizes available —
contact us!

Inflation Valves

For lug or strip shafts



Recessed valves,
Schrader valves
Thread sizes available in
various versions

Inflation Guns





PRODUCTION FACILITIES



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Our Company

Over 50 Years of Innovation!

Since 1972, Double E Group has served the converting industry for paper, paperboard, plastic film, textiles and other packaging materials.

Our company has always focused on innovation, continuously developing and improving equipment for roll handling and web converting applications. Thanks to this ongoing commitment, Double E Group is now one of the market leaders, offering a wide range of components for production and converting machinery.

We have always worked side by side with our customers to optimize every stage of their converting process.

Organization

Production takes place at our European facility in Castelgomberto (VI), Italy, and at our U.S. facility in Massachusetts, Wisconsin and Maine.

Double E Group has direct sales offices in France, the United Kingdom, Germany, Mexico and Colombia, as well as a network of qualified agents serving customers worldwide

Sales and Service

Our global sales network is made up of trained representatives and experienced professionals who understand customer needs and help them select the most suitable equipment for their application.



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