

***Solutions
for All of Your
Web Handling
Needs***



DOUBLE E
Engineering Excellence



DF-2000

Torque-Activated Chucks

Concentric expansion minimizes roll bounce and vibration.

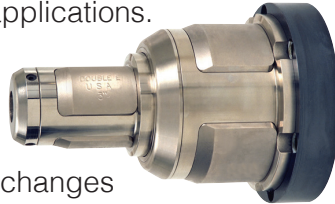
Automatic activation with no side force; smooth jaws grip cores without causing damage, rolls can be run to the last wrap, and cores can be reused.

Rolling friction inside the chuck ensures tight grip in low or high tension applications.

Step chuck accommodates different core sizes.

Quick-disconnect and adapter models allow easy changes to various core diameters in cases where step chucks won't fit.

Core Kicker model automatically ejects the empty core from the chuck as the roll stand opens.



Core Chucks

"PCC-4000"

Pneumatic / Mechanical Chucks

Positive lug retraction ensures easy removal of cores.

Consistent grip force regardless of torque magnitude or direction.

Adapts quickly and easily to various core sizes.



Bladder Chucks

Air-inflated adapters

UC-3000



Field-proven design.

Polyurethane bladder resists stretching, cutting & abrasion.

Easy insertion & removal from cores.

30% -50% lighter than other designs.

Available in sizes ranging from 3 inches up.

Chucking Systems

Torque chuck & retractable collar for 3" cores

Replaces labor intensive "knock-in" cones, wedges, and manual chucks.

Quick, 30-second roll changeovers without tools.

Torque activation & automatic, concentric expansion.

DF-1000



Latching Chucks

Quick & easy roll changes without tools

A simple twist locks the core in place, and a twist in the other direction unlatches the roll.

Cantilevered or through-shaft processes; mounted horizontally or vertically.

Perfect for form, fill, and seal packaging, window patching envelopes, as well as tag, tape, and label production.



LC-1000

Safety Chucks

Sliding design for enhanced safety and performance

Easily and affordably replace existing safety chucks.

Simple shaft loading and unloading with no binding.

Interchangeable jaws make replacement simple and inexpensive.

Patented push button mechanism ensures safe operation.

Options include sidelay adjustment, swivel tables, and air operation.

This model is designed to close automatically, without operator intervention.



Auto-Lock Safety Chuck

Core Shafts

Carbon Fiber Shafts



DG-2000
Metal Air Shafts
Also Available

Carbon fiber housing provides the strength of steel at a fraction of the weight



Special corded polyprene bladder reduces maintenance.

Journal connection uses deep insertion and a close tolerance fit (instead of a press fit) to ensure easy access when necessary.

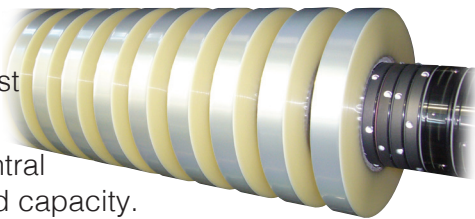
Comprehensive two year warranty even includes bladder.

Differential Rewind Shafts

Slipping occurs inside the shaft, minimizing core dust and core damage.

Large diameter central shaft for higher load capacity.

Any core size, from 1" - 12".



Strip Shafts

For multiple core rewind



Simple clamping unit secures bladder assembly, for easy maintenance.

Durable hard rubber elements offer excellent grip.

Rugged Teflon strip protects bladder from damage.

Lightweight and self-centering models available.

Pneumatic/Mechanical & Fully Mechanical Shafts



For heavier roll weights and/or faster line speeds

Independent lug action accommodates core variations.

Concentric expansion minimizes roll bounce; fail-safe operation guarantees roll security during production.

Carbon Fiber Reel Spools

Expanding and non-expanding models

Increase critical speeds and run heavier rolls.

Load capacity is equal to or greater than steel; wind larger rolls while keeping hoisting requirements the same.

Proprietary carbon fiber and aluminum construction on HCRS yields unmatched strength to weight ratio at a low cost.

CCRS reel spools can be coated with any material that is used to coat existing steel spools.

HCRS-2000 Expanding Reel Spool Shaft



ShaftSafe

- **End Core Slippage Forever**
- **Reduce Costly Waste**
- **Increase Safety**
- **Comprehensive Analytics**
- **Predict Preventive Maintenance**

Real time monitoring of air inflation, deflation and operating pressures

Double E and Converttech air shafts and bladder chucks come ShaftSafe-ready

Audible and Visual alarms alert operator to pressure changes and leaks

User-determined minimum and maximum pressure alarm levels

Simple user interface on full-color touch screen

System integration-ready

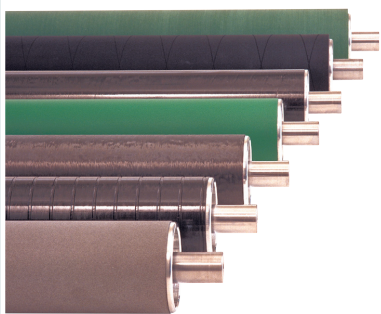
Bluetooth® technology with Apple® and Android® phone integration

Retrofittable to your existing Double E air shafts



Rollers and Cores

Epoch Carbon Fiber Rollers

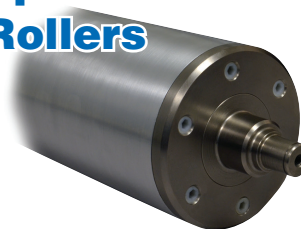


Ultra-lightweight, high-performance rollers for critical applications

Lowest inertia rollers spin at line speed and reduce dragging – less scratching, wrinkling, and stretching of the web.

Achieve faster web speeds with less vibration.

Epoch Aluminum & Steel Rollers



Lightweight, inexpensive rollers available in various diameters

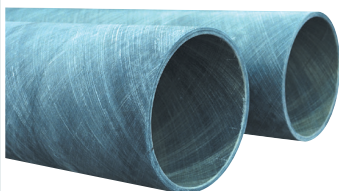
Live shaft or dead shaft models.

Low rotational inertia with little deflection.

Dynamically balanced and mechanically straightened.

Various surface treatments and coatings include anodization and rubber.

Composite Cores



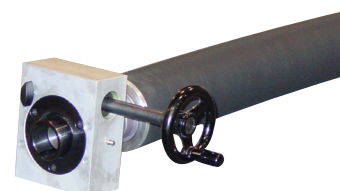
High strength, lightweight wound fiberglass cores

Reuse cores indefinitely while eliminating costly disposable cores.

Bowed Rollers

Used to spread the web material uniformly in order to eliminate creases or wrinkles.

Variable or fixed bow options available.

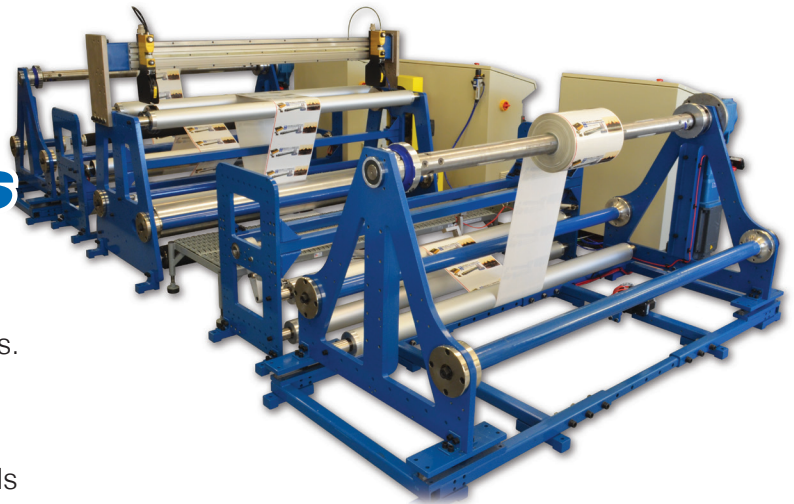


Customized Roll Stands / Process Modules

Double E provides a complete range of custom modular roll stands, nip / pull roll stations and slitting stations that integrate into existing systems.

Customized stands are engineered to retrofit existing machines or as a stand alone unit.

All stands incorporate the highest quality materials and accessories.



Unwind Stands

Pre-assembled roll stands carry a warranty as a package from one supplier.

All components work together for optimal winding control without the hassle of installing each accessory separately.

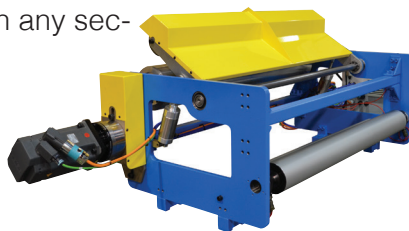


Nip / Pull Roll Stations

Set tension zones or master line speeds.

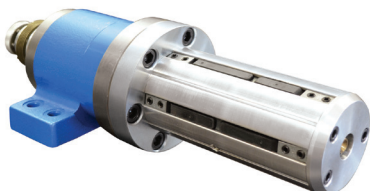
Easily synchronize with any section of the production line to help continue production at an even pace.

Adjustable nip pressure and options on nip coverings; large range of web widths and materials.



Narrow Web Stations

Complete, pre-configured solution for regulating unwind or rewind tension on narrow web applications.



Facilitate quick roll changes.

Gain flexibility to run multiple core sizes.

Eliminate core slippage and excessive dust.

Improve speed and efficiency.

Rewind Stands

Rugged, complete, packaged solution for rewinding web material.

Features the highest quality accessories, appropriately specified for each application, and pre-configured for easy integration into any process.

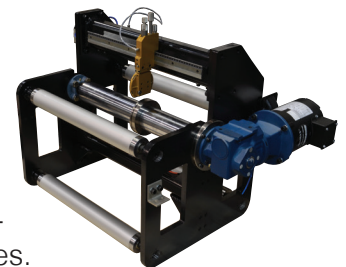


Slitting Stations and Modules



Slitting modules are pre-configured units that retrofit existing machines to improve outdated slitting technology, or to add slitting to an existing line.

Double E makes custom configured stands and modules that often include slitting. Solutions range from simple stations that integrate with an existing converting line to full stand-alone slitter rewind machines.



Slitting

Knife Holders

"Tiny"

"Tiny" series (Type 1)

Ideal for shear cutting of lightweight web material (film, lightweight paper, tissue, etc.). Narrow slit widths down to one inch.

"Gold"

"Gold" series (Type 2)

& "Platinum" series (Type 3)

Easy replacement for common holders.

Removable and reversible blade cartridge allows cutting on both sides of the anvil with the same cartridge.

Precise knob uses three simple settings for error-free setup. Cant angle adjustment – no tools.

Dual rod construction ensures rigidity to reduce vibration and improve cut quality.

Blade guard for safety.

"Platinum"
Heavy Duty
Applications

"PPS" series

Economical solution for common shear cut applications.

"PPS"

"Lisa"
Score Cut

"Lisa" series

Available in hot, score, and razor.

Replaceable cartridge allows holder body to stay in place – no repositioning after quick blade change.

Knives / Blades

Score cut knives

Ideal for material that is thick and heavy.

Shear cut knives

Available in dished and circular flat models.

Slitter Positioning Systems

Digitally assisted slitter positioning

Increased accuracy and decreased down time in shear, crush, or razor applications.

Facilitates the placement of knife holder groups – instead of using a tape measure to place slitters manually, the operator simply slides the knife holders along the rail, referring to the digital display for accurate placement.



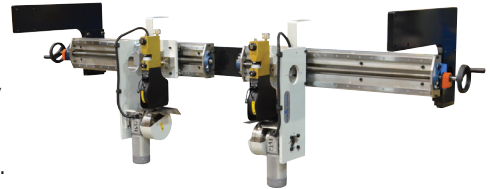
"Lynx"

Automatic positioning

Various systems available with various levels of sophistication to suit application requirements.

Trim system

Ideal for trimming the edges of any continuous web material.



"Kobe"

Anvils / Bottom Knives



"Expando" anvil with disposable "Expandette" cutting ring

Removable bottom knife eliminates need for re-sharpening.

Cutting ring slips over the shaft so the anvil and shaft never needs to be removed – maintenance time is minimized.

Double E offers a wide variety of standard anvils, multi-grooved anvils, deep saucer / T-shape, and contrast sleeves.

Double E also offers a complete line of rails and brackets including double linear, standard linear, rack and pinion, and manual.



Tension Control and Web Guiding

Pneumatic Brakes



Compact dimensions with a low profile fan cover

Revolutionary cross-drilled and vented rotors that create superior heat dissipation allowing cooler operating temperatures.

Our proprietary pad formulation delivers superior brake pad life with virtually dust free operation that means the end of brake squeal in your plant.

Available with high flow cooling fans and in configurations from 1 to 6 calipers. Every caliper has sliding on/off valves and robust metal fittings.

Ultrasonic Sensor

The Double E Ultrasonic Diameter Sensor uses sound waves to measure distance from the sensor to the roll of material. This sensor is excellent for use in open-loop unwind tension control applications, soft loop unwind applications and for inertia compensation calculation on advanced roll unwind and winding applications.



Laser Sensor

The Double E Laser Sensor is used to measure roll diameters in applications where the material is sound absorbent making the Ultrasonic Sensor ineffective.

This sensor is accurate and versatile.



Tension Control Systems

Controller

Open and Closed Loop control in one controller.

Use Dancer or Load Cells for closed loop.

Use Ultrasonic or Laser Sensor for open loop.



Load Cells

Available in live shaft (LS model) or dead shaft (DS model) configurations.

Flange mount load cells with foot mounting brackets available.

Full wheatstone bridge circuit

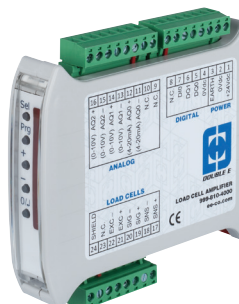


Integrated Systems

The pre-wired and pre-plumbed UL approved control box provides terminations for external sensing devices and provides signals to the control devices.

This economical and easy to

implement unit is excellent for stand alone applications as well as end users who demand a high quality, low cost tension control answer. Single, dual, splicing and custom configurations are available.



Amplifiers

Amplify signal from load cells when necessary, or when signal compatibility with an existing PLC is required.



Manual Core Cutter

Easy-to-use and operator-safe two-handed operation keeps operator's hands away from the blade during cutting. Nylon anvils prolong the blade life. The unit also features a measuring bar core stop for repeatable cuts. For improved safety the core is driven via rollers (rather than a driven blade or driven mandrel). Heavy duty steel construction and 1hp motor for durability. Adjustable cut depth. Suitable for cardboard and soft plastic cores. Quick change to various core inside diameters.

Core Plugs

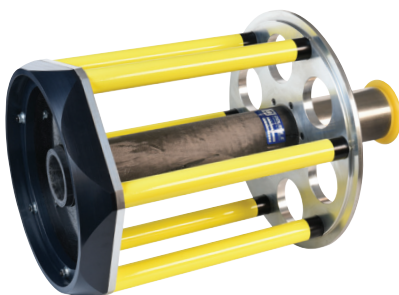
Large diameter core inserts for the tissue, paper towel, and nonwovens industries

CFCP-1000

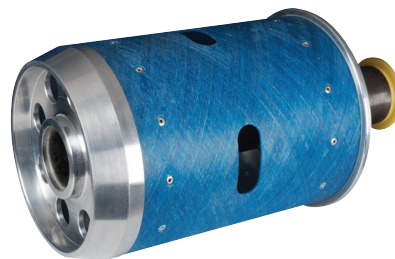
Ultra-Lightweight
Core Plug

*30 to 40% lighter than
the existing lightweight
plugs currently on the
market!*

One-piece Ultra-Lightweight design with carbon fiber central and carrier beams, ribs and end cap plate. Easy handling increases operator safety.



CP-2000



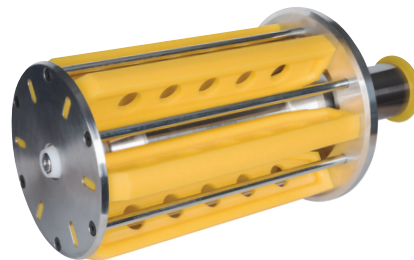
Ultra-lightweight one-piece design with wound fiberglass body and a rugged carbon fiber carrier beam. Single step insertion; easy handling.

CP-1000



Patented one-piece design with tough steel ribs. Single step insertion; lighter than most existing plugs; Double E's most economical core plug.

MCP-2000



Patented two-piece design. The expanding cage grips cores to keep the plug centered and to allow for variations in core ID. The carbon fiber based activating shaft can be used with various cage sizes to reduce costs when running multiple core sizes.



DOUBLE E

Engineering Excellence

319 Manley Street • West Bridgewater, MA 02379
(508) 588-8099 • (508) 580-2915 fax

www.ee-co.com • info@ee-co.com