Solutions for All of Your Web Handling Needs

DOUBLE E COMPANY
Excellence in Engineering
**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.

**Bladder Chucks**

Air-inflated adapters

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.

**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.

**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.

“Orion” model is designed to close automatically, without operator intervention.
Core Shafts

Dura-Light Carbon Fiber Shafts  Lug, leaf, & through shaft models
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”.

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.
Core Cutters

Core Cutters for Cardboard and Soft Plastic Cores

Simple to use; operator safe.
Two-handed operation keeps operator’s hands away from blade during cutting.
Motor won’t turn on until the blade is in contact with the core.
Nylon anvils prolong blade life.
Measuring bar core stop for repeatable cuts.
Core is driven through rollers (rather than a driven blade or driven mandrel) for improved safety and better cut quality.
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.

Semi-automatic core cutter

Automatic Core Cutters for Thin-Walled Cores

High precision feeding and cutting of cardboard cores at high speeds.
Available in three lengths for cardboard cores with maximum length of 78.7” (depending on model chosen), maximum diameter of 6”, and maximum wall thickness of up to .6”.
User-friendly touch display; automatic core leveling and knife adjustment also available.

High Volume Core Cutters / Joiners

Gavo Meccanica core cutters eliminate core waste with a patented core joining system.
When one parent core reaches a length that is shorter than the desired cut core, the next parent core is joined to it before the cutting process continues.
Another usable cut-length core is created when the normal cutting process continues.
This concept also eliminates the need to order different (and more expensive) pre-cut lengths.
Buying one standard length core in volume will improve purchasing power while increasing efficiency and space in the warehouse.
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.

**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.

**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.

**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.

**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.
**Knife Holders**

**“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” 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.

**“PPS” series**
Economical solution for common shear cut applications.

**“Lisa” series**
Available in hot, score, and razor.
Replaceable cartridge allows holder body to stay in place – no repositioning after quick blade change.

**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.

**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.

**Anvils / Bottom Knives**

**“Expando” anvil with disposable “Expandette” cutting ring**
Removable bottom knife eliminates need for resharpening.
Cutting ring slips over the shaft so the anvil and shaft never need 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.

**Knives / Blades**

**Score cut knives**
Ideal for material that is thick and heavy.

**Shear cut knives**
Available in dished and circular flat models.
**Tension Control and Web Guiding**

**Pneumatic Brakes**
The coolest-running brakes available

Reduced noise, dust & pad wear.
- Pads last longer and cost less.
- Turbine rotor and internal fan reduce operating temperatures.
- Self-enclosed, without a cage.
- Affordably priced.
- Extreme brakes yield even longer pad life than CombiFlex brakes.

**Electromagnetic Powder Brakes**
Wide range capable of handling 1.5 ft/lbs to 370 ft/lbs of torque.
- 24 V DC power supply.
- Ideal for clean room environments.

**Web Guides**
The revolutionary “ReLink” system

One remote controller directs up to ten web guides.
- Brushless DC stepper motors ensure accuracy and eliminate maintenance. They don’t overshoot the set point then readjust, so the web stays perfectly aligned.

**Tension Control Systems**

**Controllers**
Closed loop controllers for use with load cells or an existing dancer.
- Open loop controllers for use with an ultrasonic sensor monitoring roll diameter.

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

**Load cells**
Various styles including flange-mounted (CF series), foot-mounted (CB series), through shaft (CK series), and cantilevered.

**Integrated systems**
Package all electrical and pneumatic components in a single ready-to-mount, NEMA-style enclosure. Ideal for end users wishing to simplify installation.
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.

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.

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

**CP–1000** ~ Patented one-piece design with tough steel ribs and a rugged carbon fiber carrier beam. Single step insertion; lighter than most existing plugs; Double E’s most economical core plug.

**CP–2000** ~ Ultra-lightweight one-piece design with wound fiberglass body and a rugged carbon fiber carrier beam. Single step insertion; easy handling.

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