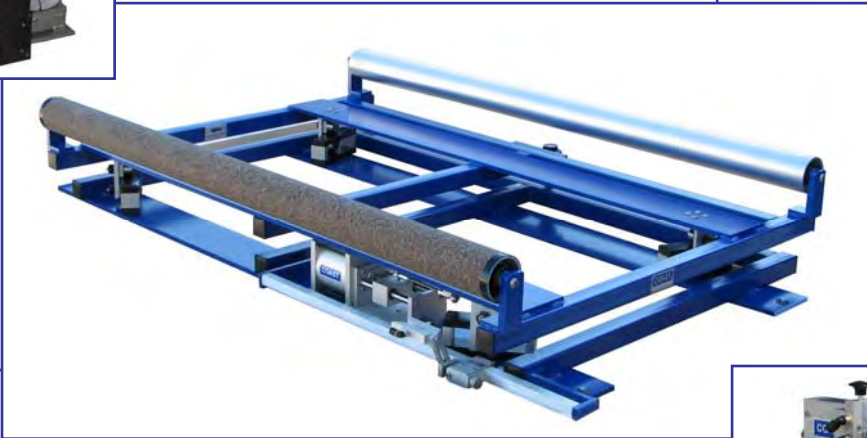




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# Coast Controls

*All-Air Web Guiding Systems*



*All-Air...a better way to guide.*



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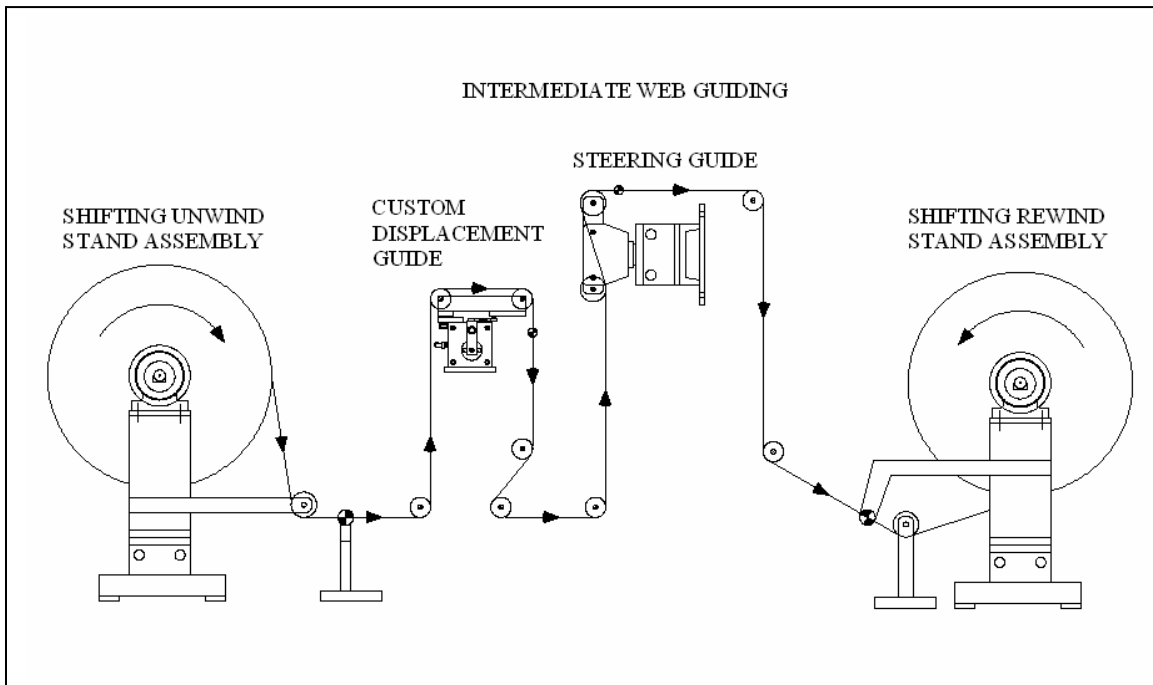
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# Intermediate Guiding

# Application Requirements

## Intermediate Web Guiding

A set of guide rollers in the form of a *Displacement Guide* or *Steering Guide* are used to control the lateral position of the material prior to a specific operation on a processing line. The guide is typically positioned between the unwind and rewind stations, and located as close as possible to where accuracy is needed (for example, just before a first print station on a printing press or die cut station).



When an intermediate Displacement Guide cannot be used, it is possible to control the web's lateral position by shifting the entire roll of material as it unwinds to a predetermined position or into a process, or as it winds up for straight-sided wound rolls Rewind Guiding.

# Displacement Guides

## MDG Series



### MDG3

Maximum web width is 6 inches (152.4mm)



### MDG4

Maximum web width is 8 inches (203.2mm)



### MDG5

With stainless steel rollers (pictured)  
Maximum web width is 13 inches (330.2mm)



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# MDG3 Custom Displacement Guide

**Intermediate Guiding**  
**For Web Widths Up to 6 Inches (152.4mm)**



The **MDG3** “Micro” Displacement Guide, specially designed for narrow web applications, is well suited for a variety of production environments including special applications in the medical, pharmaceutical and food packaging industries. The MDG3 is completely self-contained with a 3-inch diameter Air Cylinder mounted conveniently underneath the guide rollers near the Air-Flow Sensor, which can be positioned on either side of the web. Additional idler rollers (pictured) can be added for entering and exiting idlers.

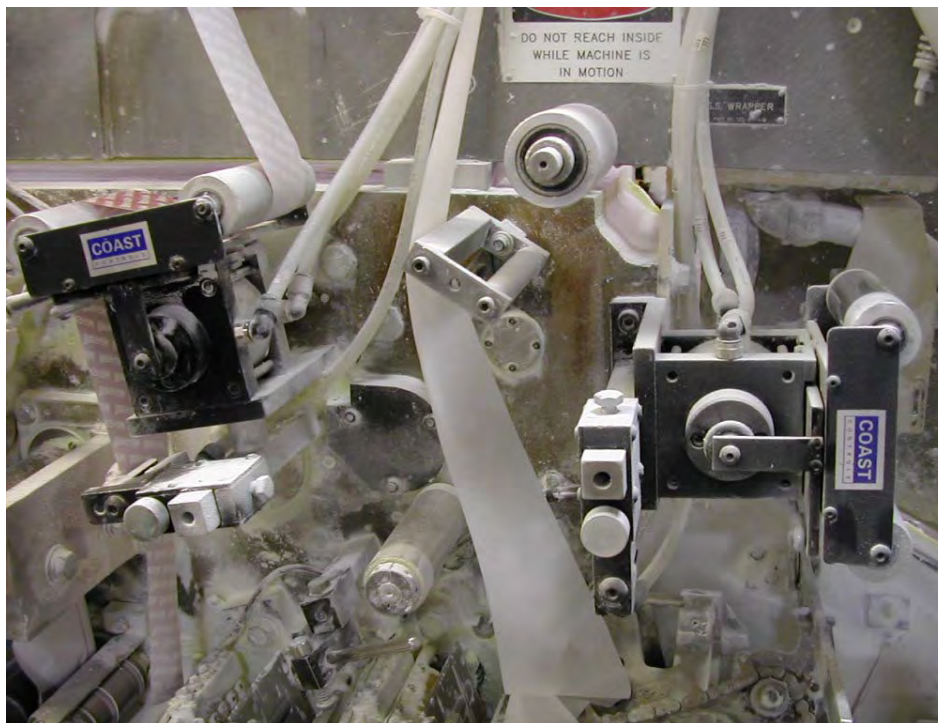
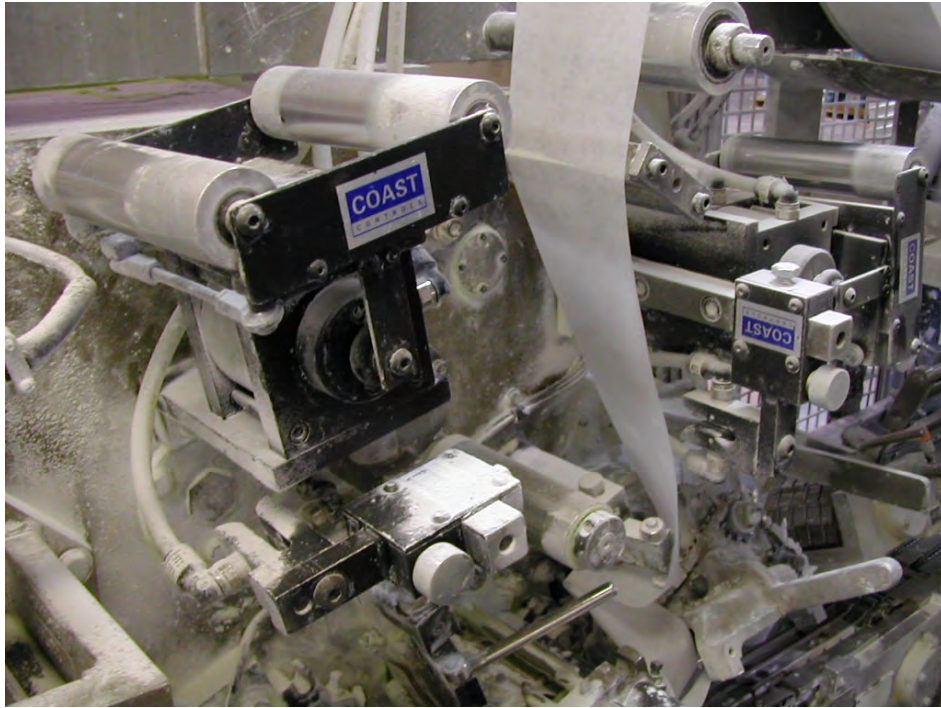


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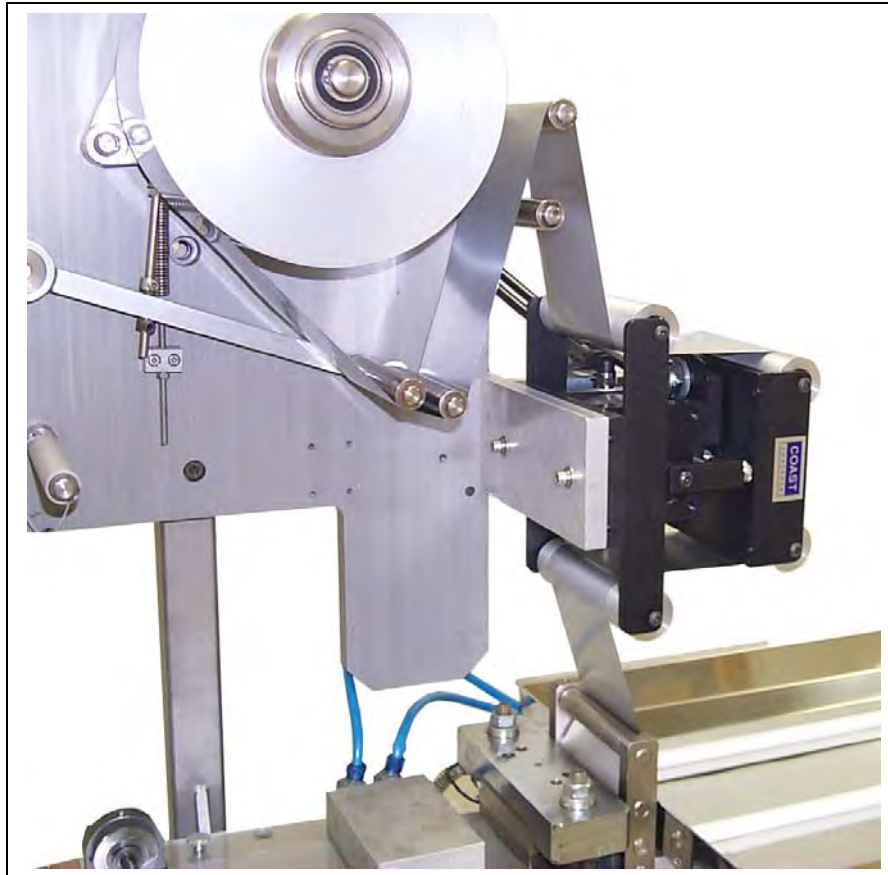
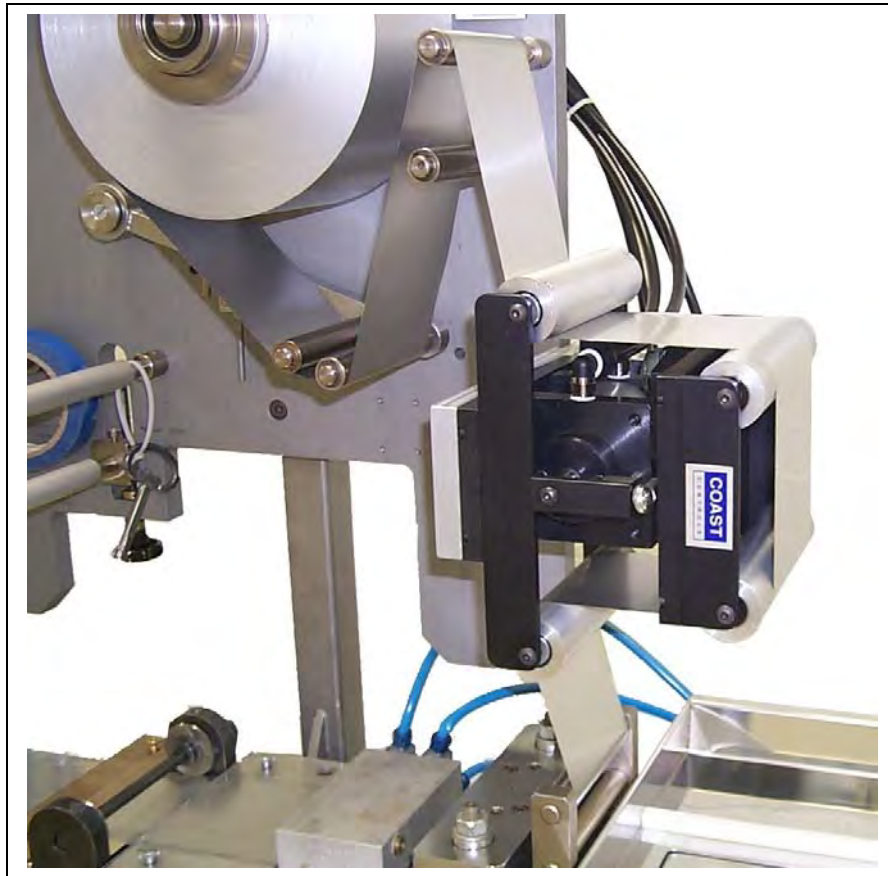
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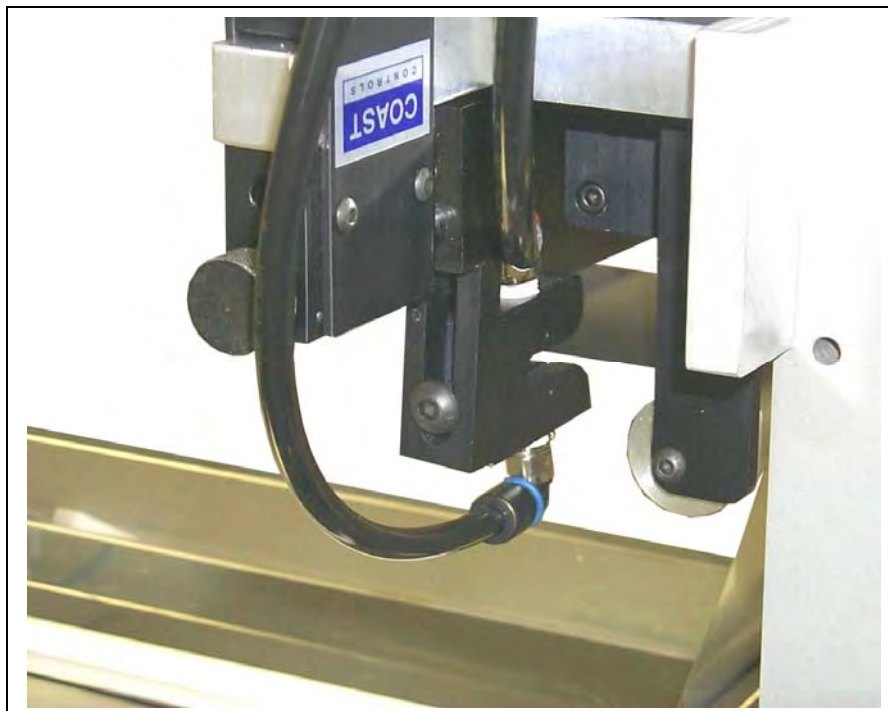
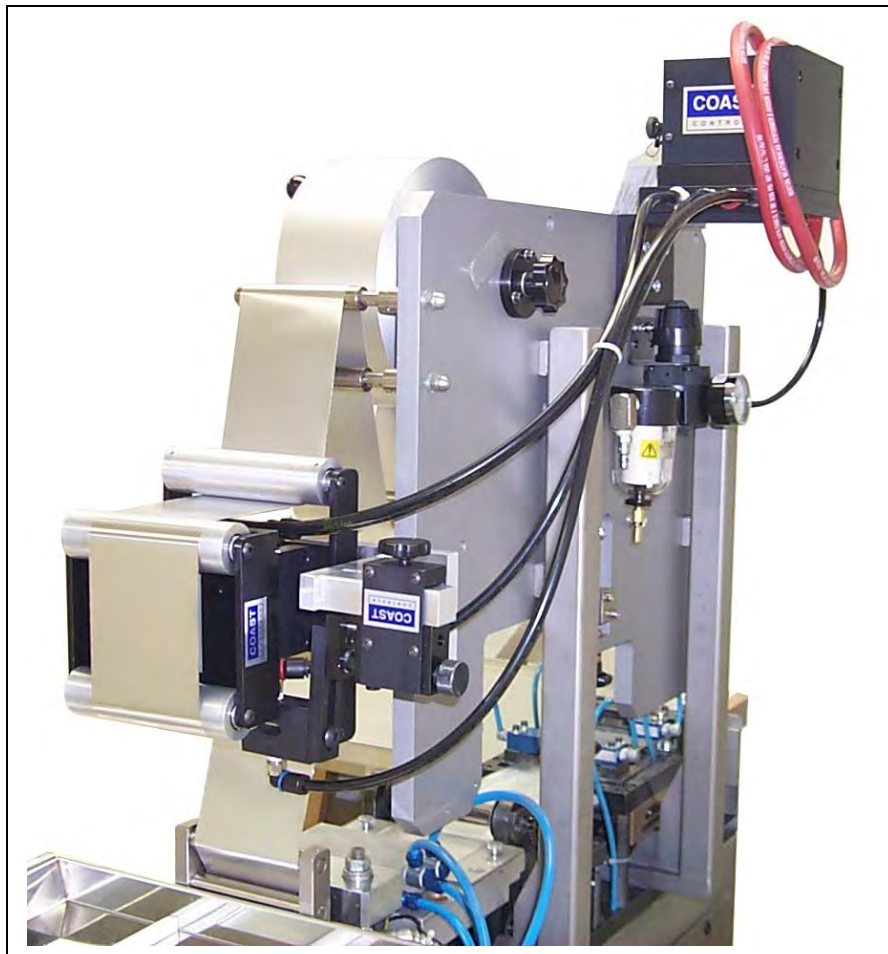
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## Dusty Environments









# MDG4 Custom Displacement Guide

**Intermediate Guiding**  
**For Web Widths Up to 8 Inches (203.2mm)**



The **MDG4** Narrow Web Displacement Guide, specially designed for label & narrow web applications. The guide's compact size makes it ideal for label presses, slitters, inspection machines, coaters, laminators, form/fill/seal machines and other narrow web cantilevered or standard applications. The guide's compact design is a real space-saver since there are no electronic power units to accommodate. The 4-inch diameter Air Cylinder is conveniently mounted under the guide rollers near the Air-Flow Sensor, which can be positioned on either side of the web.



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# MDG5 Custom Displacement Guide

**Intermediate Guiding**  
**For Web Widths Up to 13 Inches (330.2mm)**



The **MDG5** Narrow Web Displacement Guide, specially designed for label & narrow web applications. The guide's compact size makes it ideal for label presses, slitters, inspection machines, coaters, laminators, form/fill/seal machines and other narrow web cantilevered or standard applications. The guide's compact design is a real space-saver since there are no electronic power units to accommodate. The 5-inch diameter Air Cylinder is conveniently mounted under the guide rollers near the Air-Flow Sensor, which can be positioned on either side of the web.

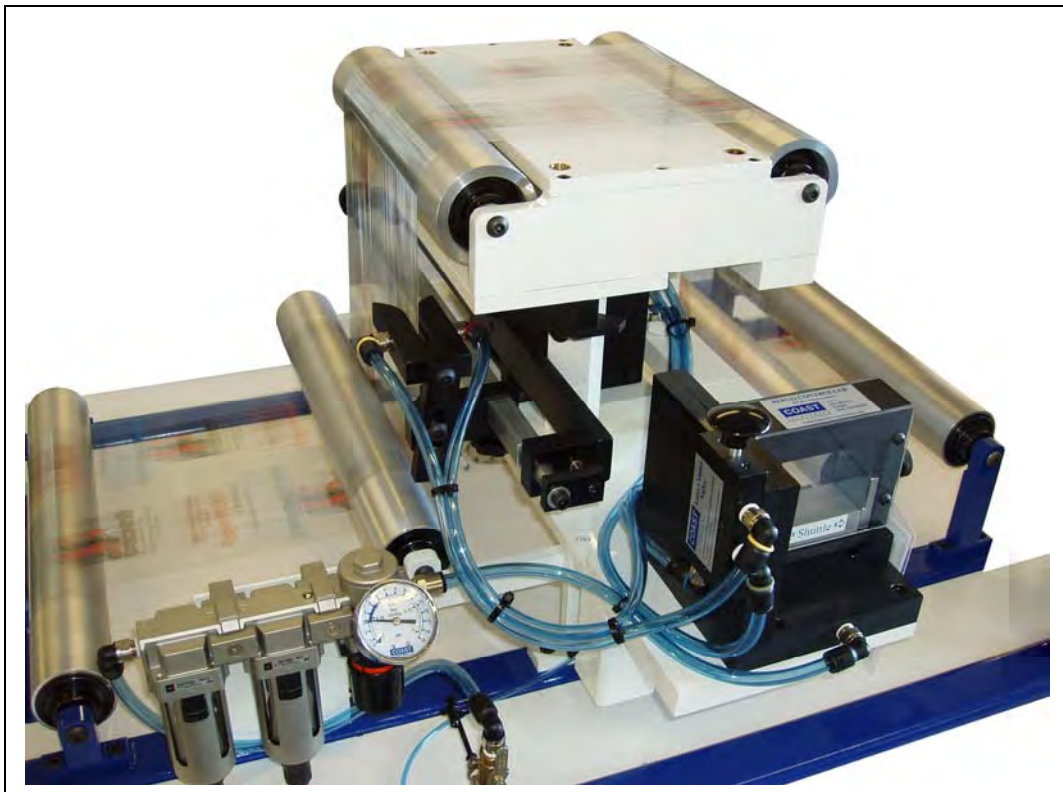
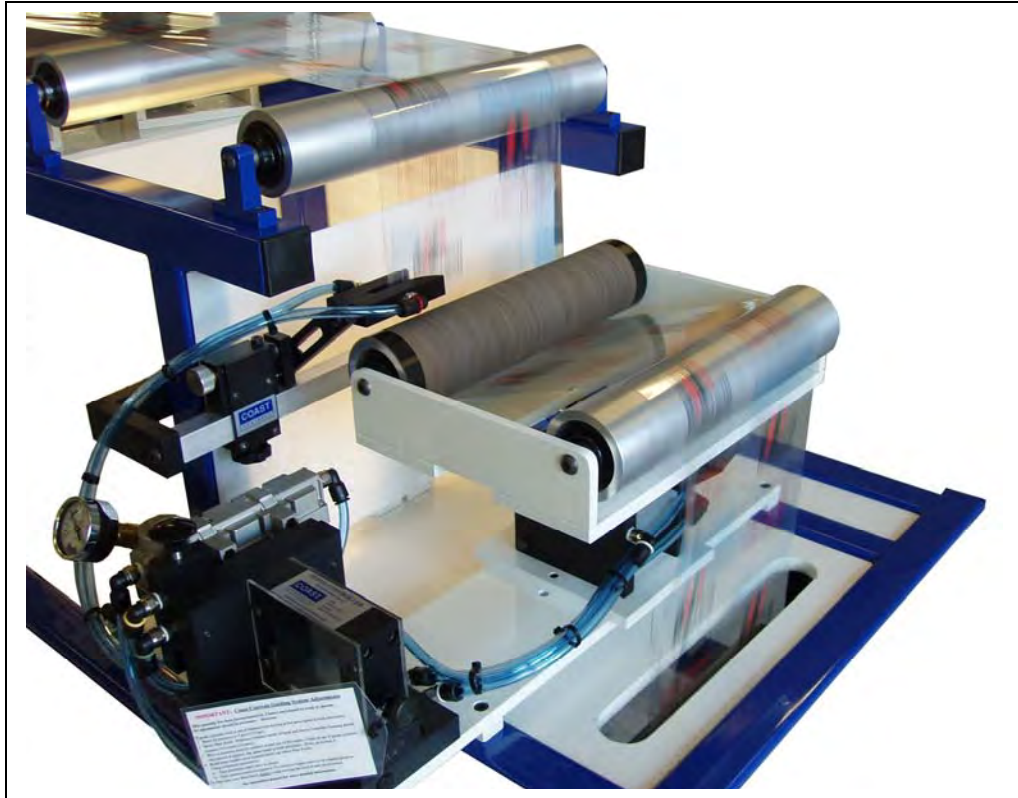


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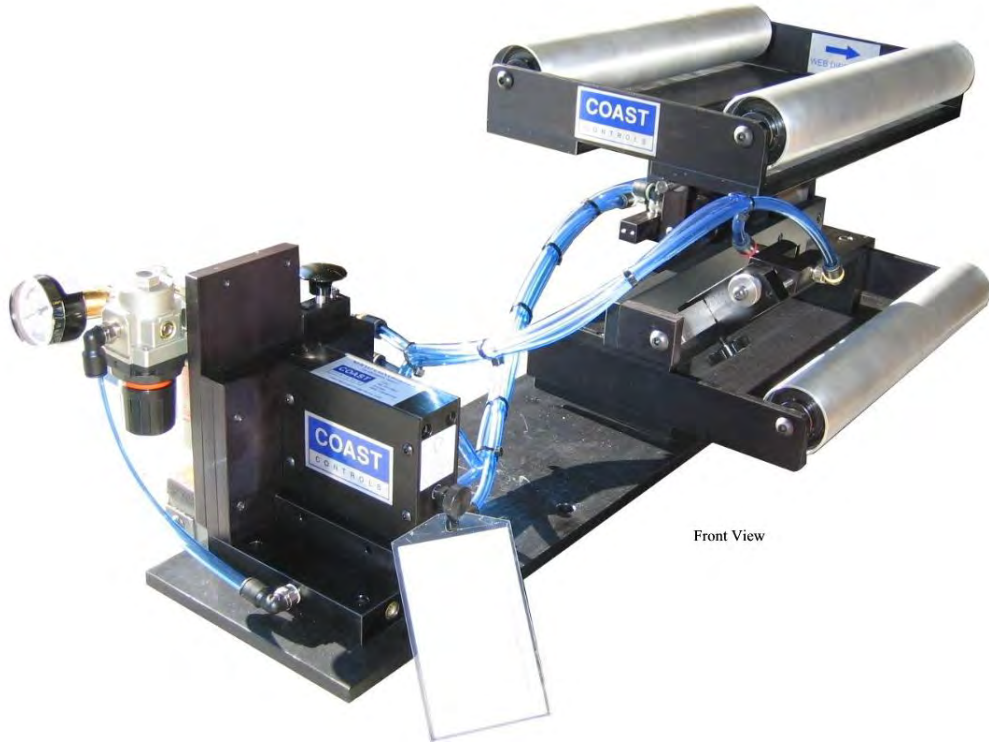
7500 Commerce Ct., Sarasota, FL 34243 USA

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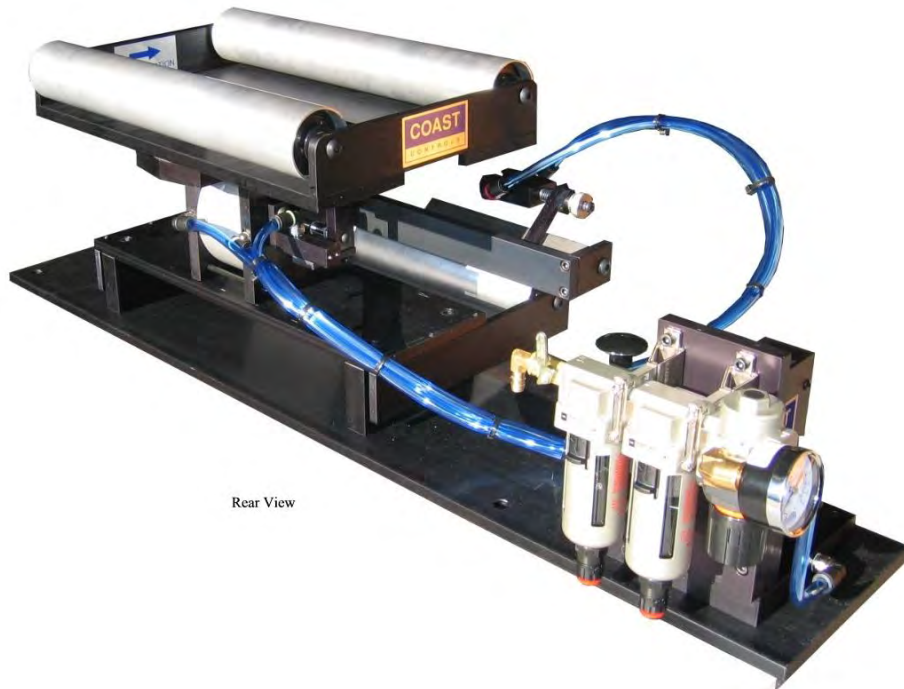
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# MDG5 Mounted and Piped



Front View



Rear View

# MDG5



# RDG5 Custom Displacement Guide

Intermediate Guiding  
For Web Widths Up to 26 Inches (650mm)



The **RDG5** is a “robust” Displacement Guide which accommodates web widths up to 26-inches (650mm). The RDG5 maintains the web alignment on virtually any web processing machine with minimal entering and exiting web spans. Its unique design incorporates very few moving parts-thus ensuring maximum reliability in dusty (even dirty) production conditions. A 3-point suspension system provides maximum, rugged support. And an optional Outboard Sensor Positioner allows the operator to make coarse and fine adjustments to the sensor.

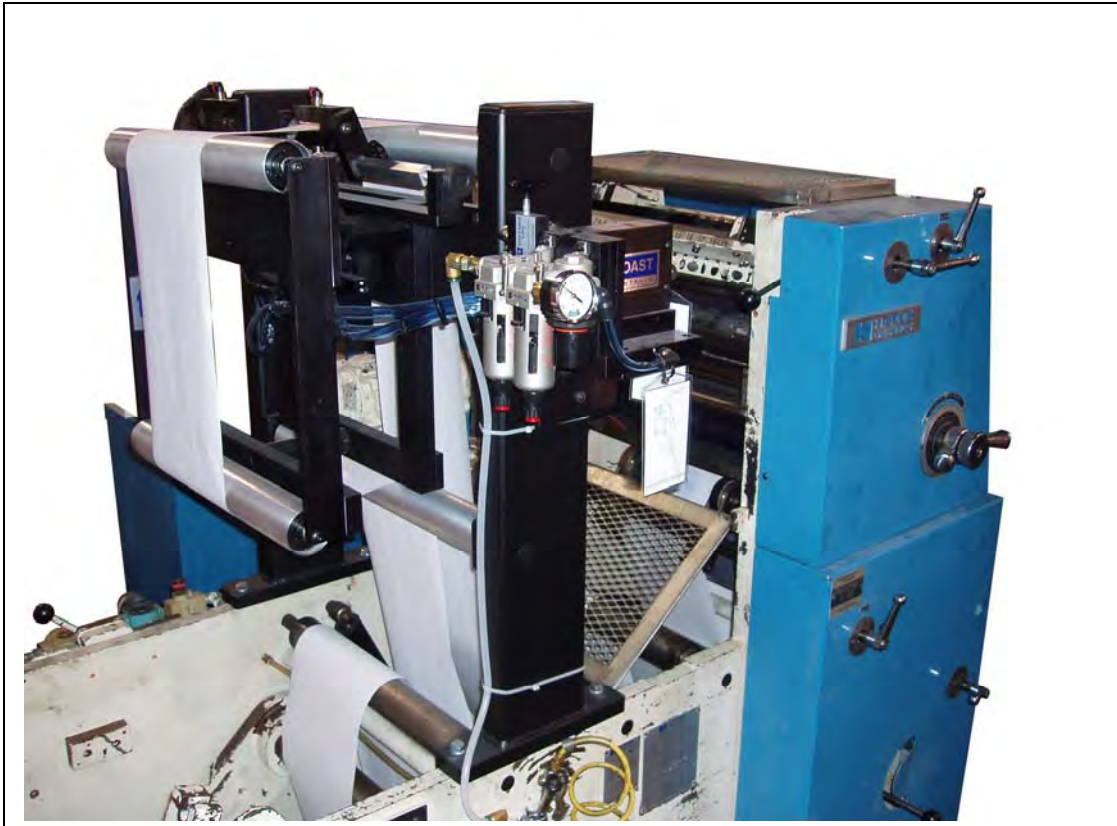
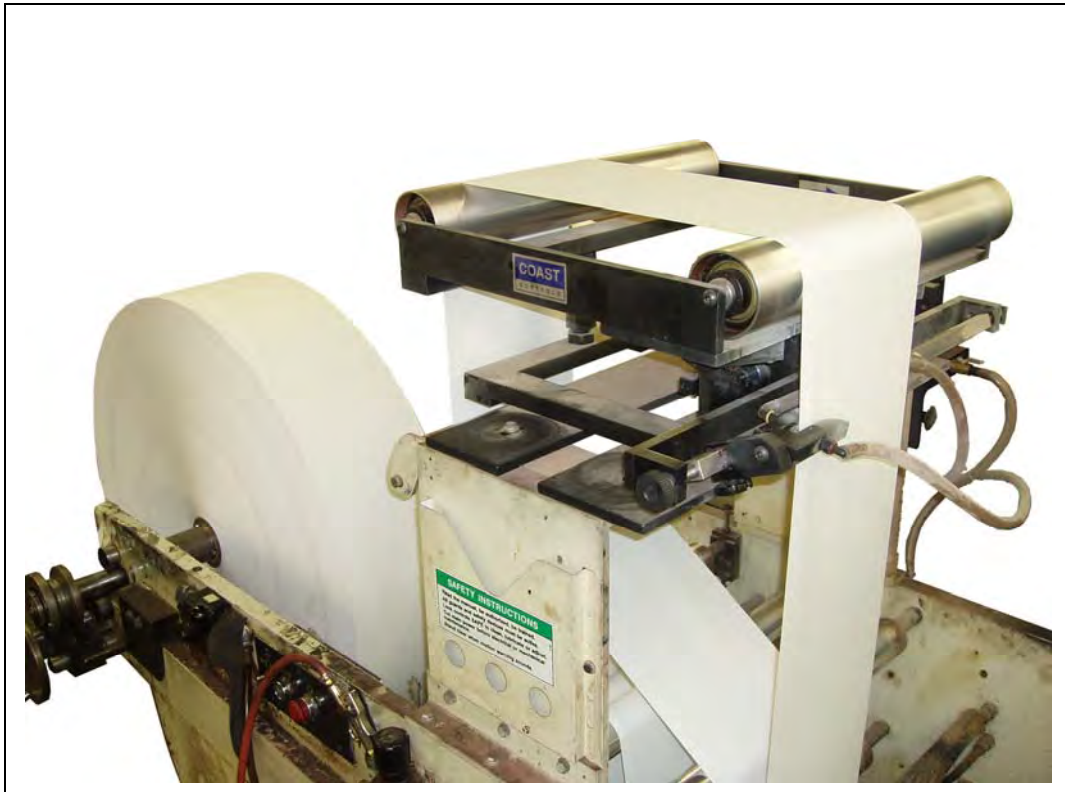


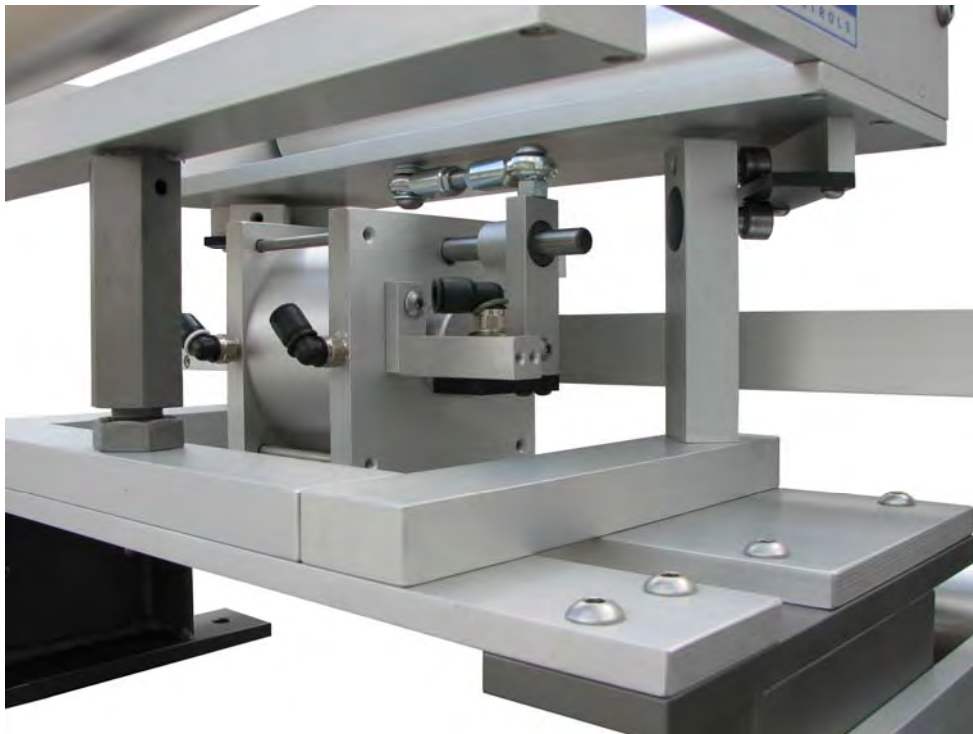
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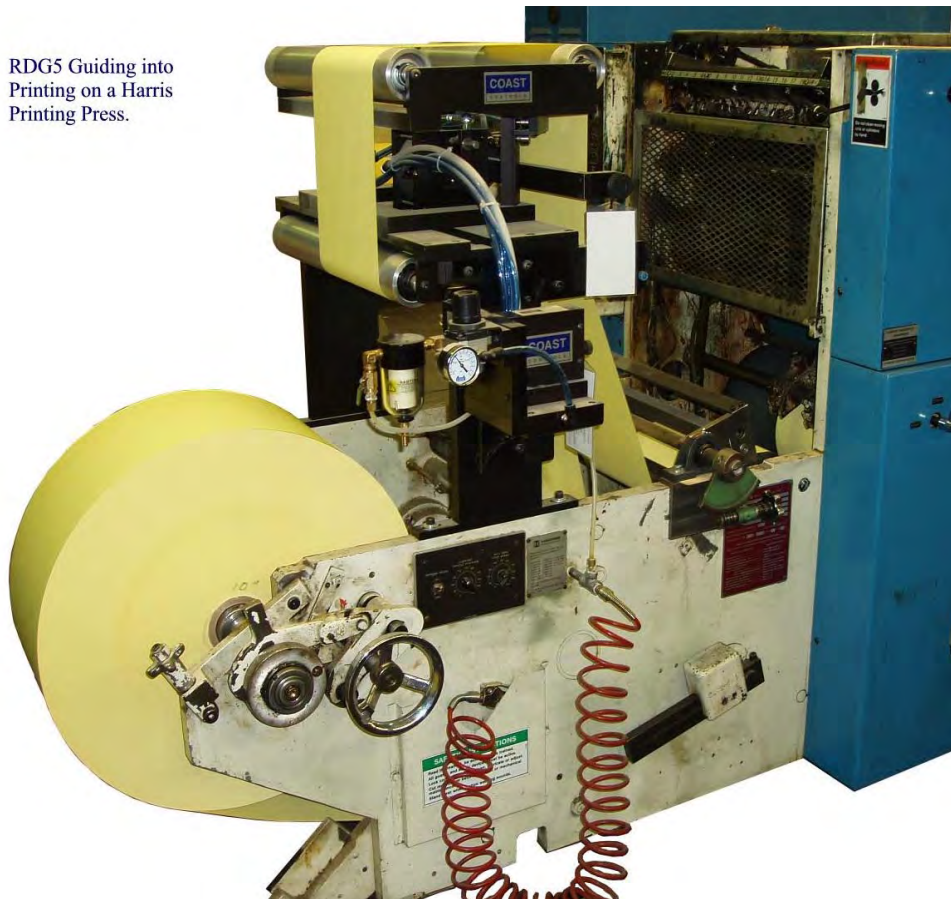
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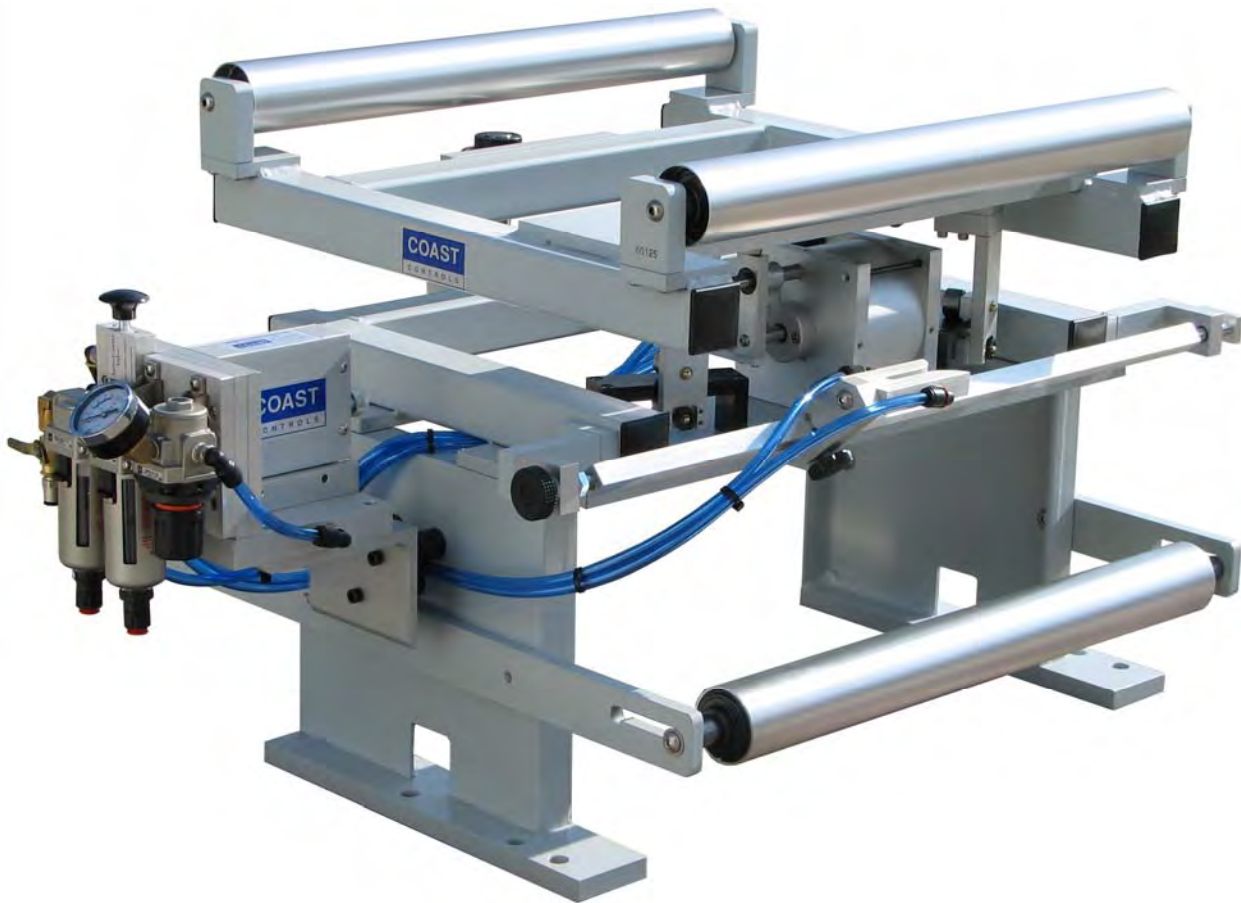


RDG5 Guiding into  
Printing on a Harris  
Printing Press.



# CD2 Custom Displacement Guide

**Intermediate Guiding  
For Web Widths Up to 36 Inches (915mm)**



The **CD2** Custom Displacement Guide is preferred for applications running at faster line speed and higher tensions, or when a considerable amount of error needs to be corrected. Each guide is individually designed and custom built with heavy-duty welded steel tubing and dual outboard cam-follower supports for maximum rigidity. Optional *Custom Mounting Stand* (pictured) are available upon request.



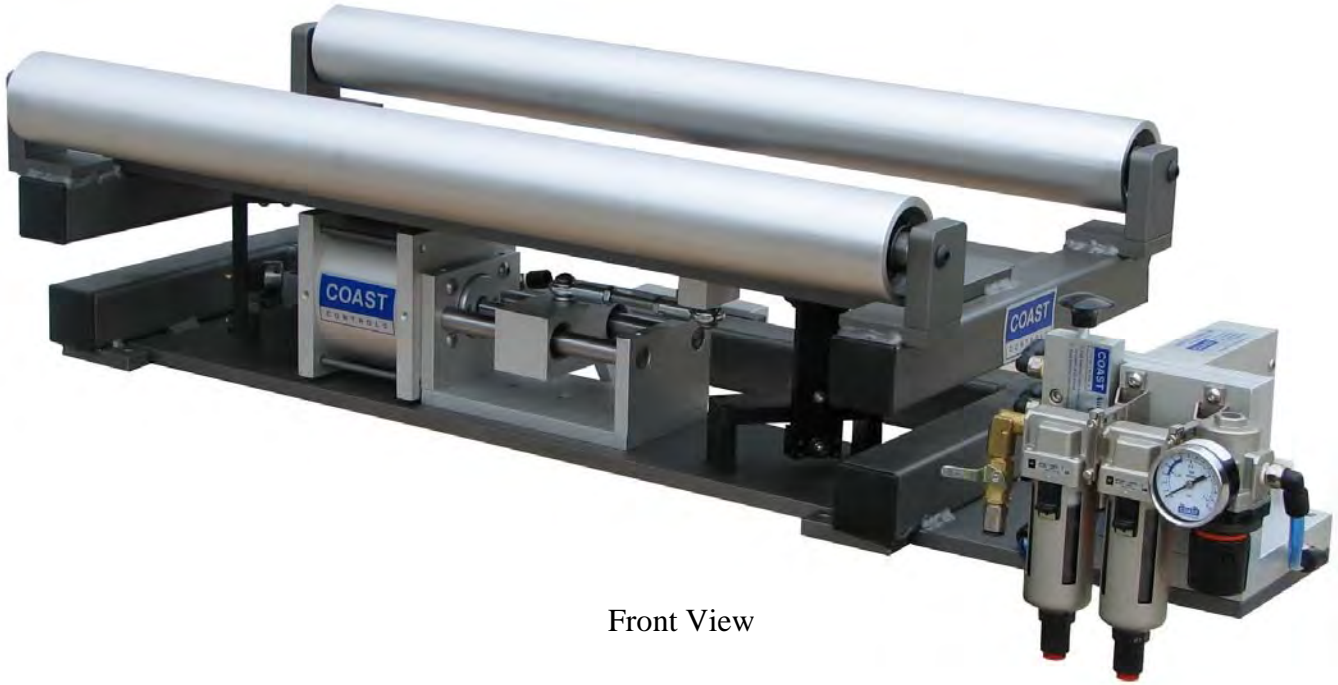
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# CD2 Displacement Guide



Front View



Rear View

CD2-4432  
With 6" Steel Rollers  
Mounted and Piped

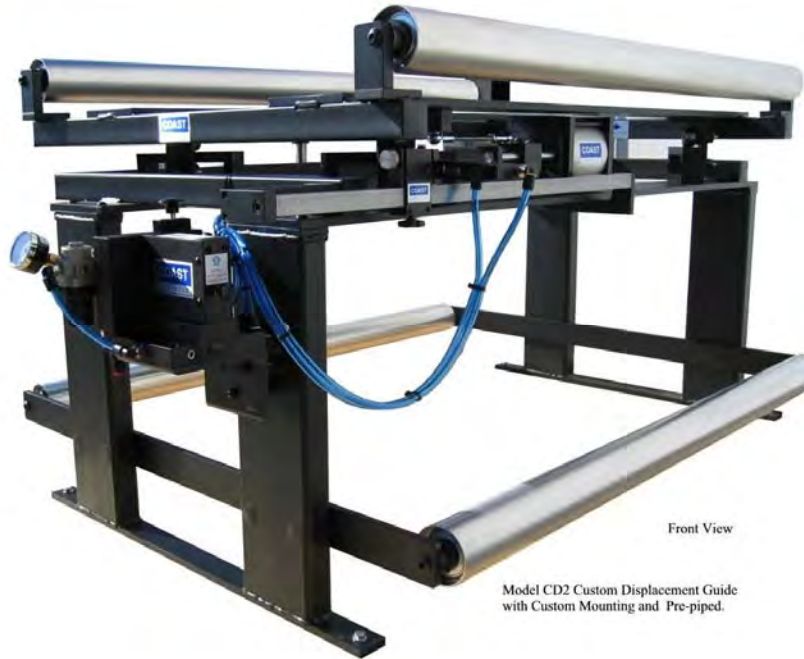


Front View

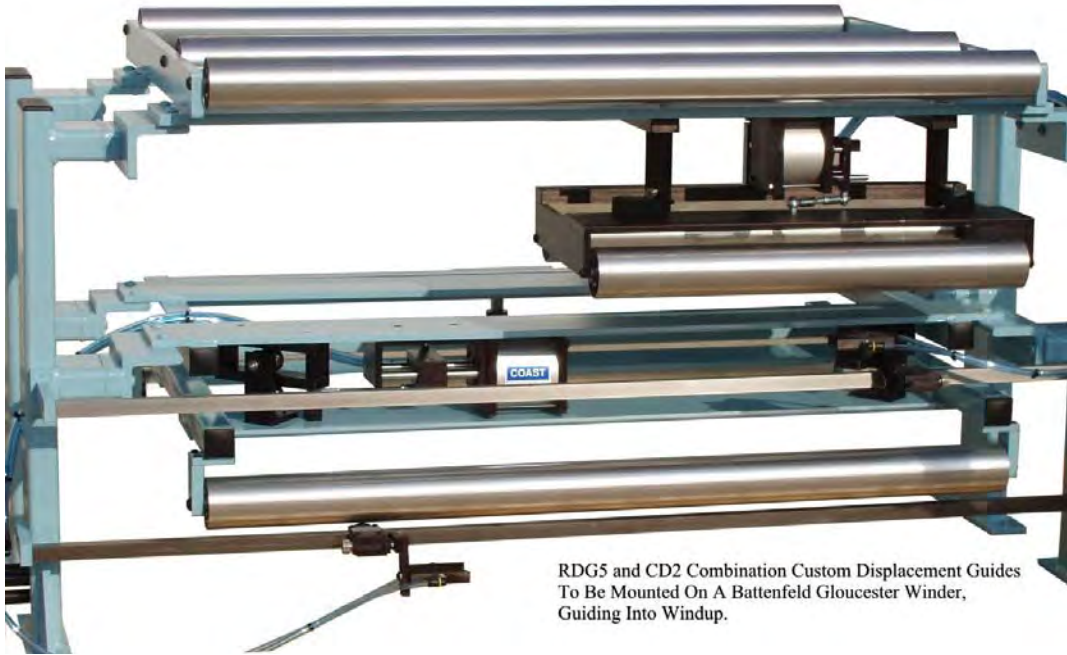


Rear View

# CD2 with Custom Mounting and Pre-piped



# RDG5 & CD2 Custom Displacement Guides



RDG5 and CD2 Combination Custom Displacement Guides  
To Be Mounted On A Battenfeld Gloucester Winder,  
Guiding Into Windup.



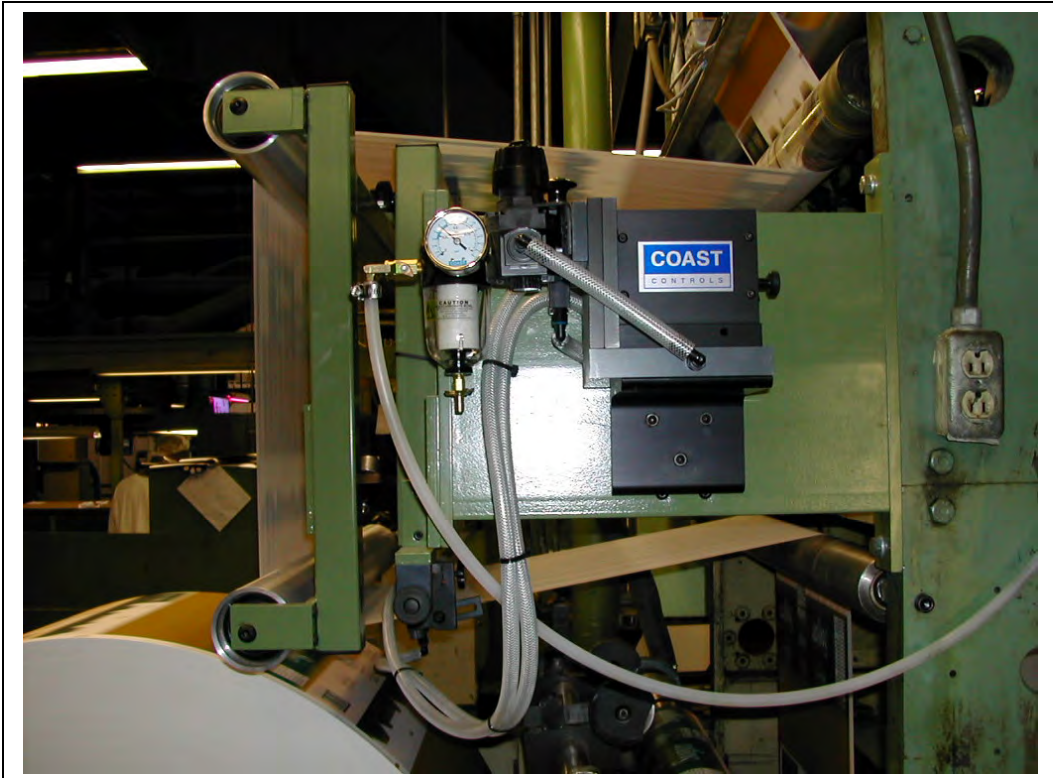
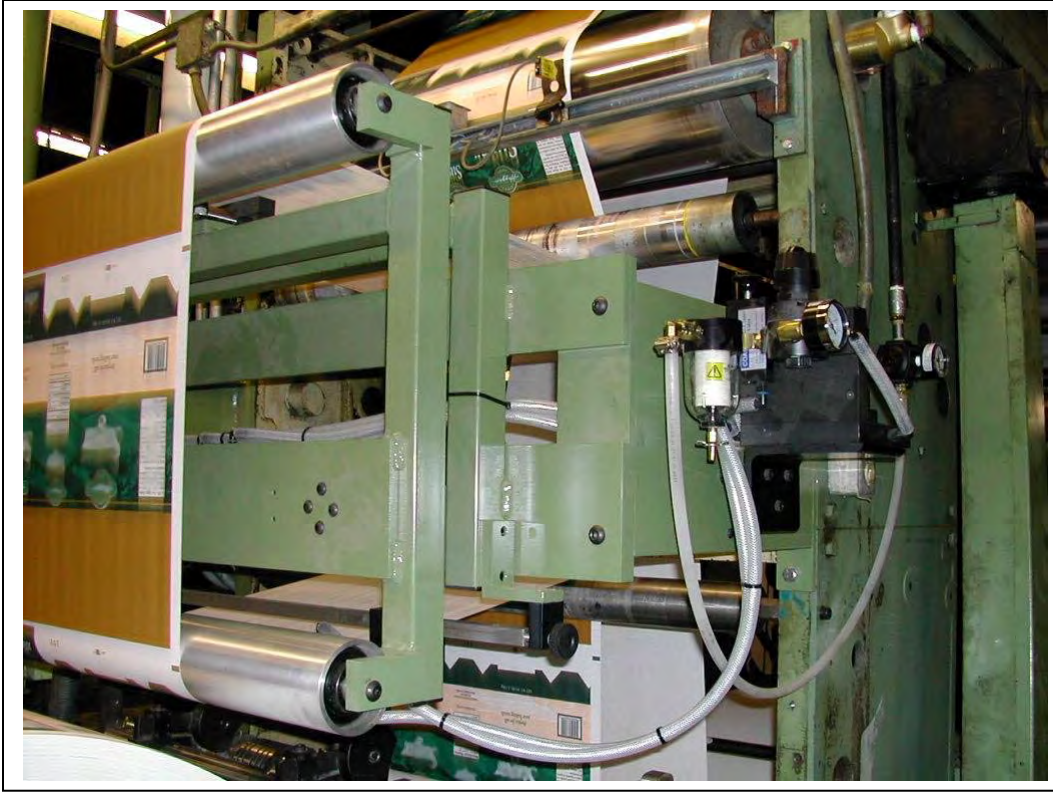
RDG5 and CD2 Combination  
Custom Displacement Guides



## CD2 Custom Displacement Guides

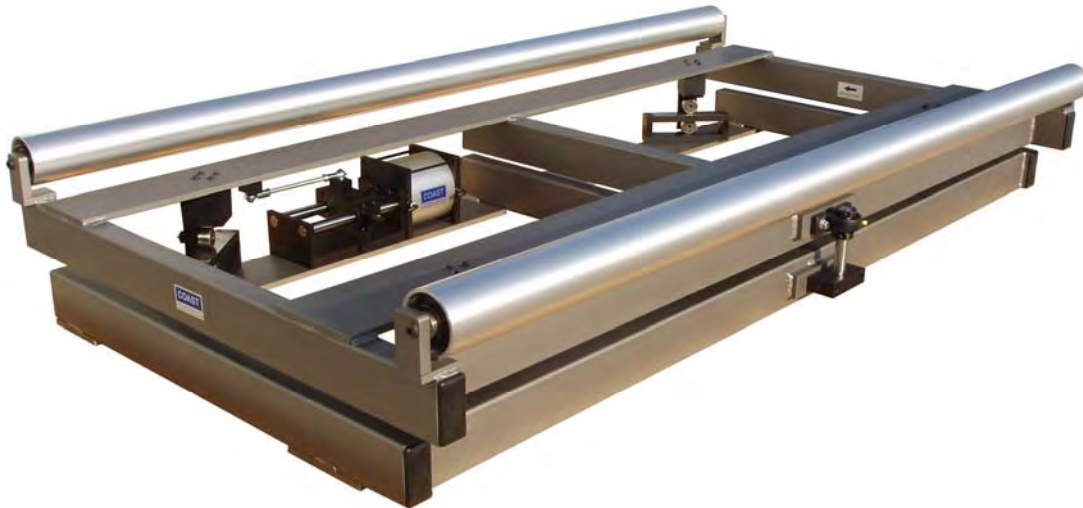


## CD2 Guiding Into Rewind



# CD4 Custom Displacement Guide

**Intermediate Guiding  
For Web Widths Up to 120 Inches (3050mm)**



The **CD4** Custom Displacement Guide is fabricated with a 4-point suspension system which offers the ultimate in support. A CD4 can be fabricated for webs up to 120 inches (3050mm) wide. Each guide is individually designed and custom built with heavy-duty welded steel tubing and dual outboard cam-follower supports for maximum rigidity. Optional *Custom Mounting Stands* are available upon request.



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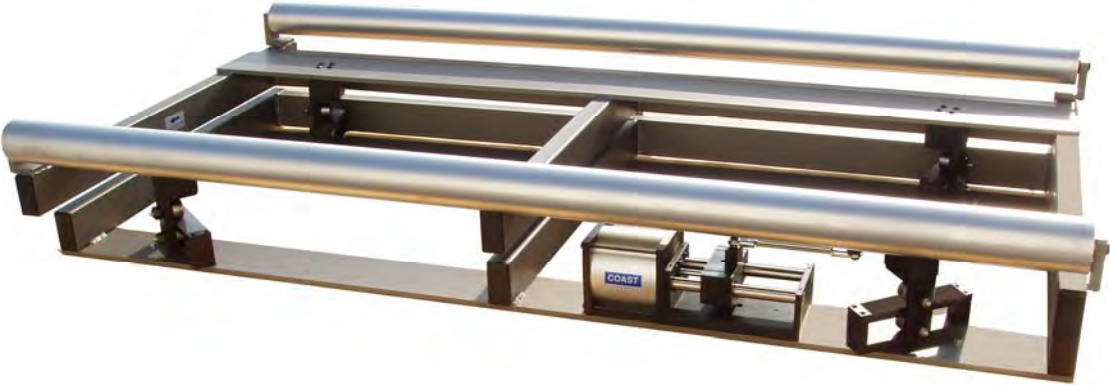
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# CD4 Custom Mounted Vertically



# CD4 Custom Displacement Guide



# CD4 Custom Mounted



# Steering Guides

# RS1-10 Steering Guide

**Intermediate Guiding  
For Web Widths Up to 15 Inches (380mm)**



The **RS1-10** Steering Guide is a compact steering guide ideal for the narrow web industry. It features a single raceway assembly with 1-inch racerods and is powered by a 5-inch diameter air cylinder. The guide rollers move laterally on the linear raceway assembly and simultaneously pivot in the same direction to correct the misalignment. An entering web span of twice the web width is considered a minimum safe entering span prior to the steering guide. A pre-entering span must also be maintained shorter than the entering span. Preferred threading is a single or double roller guide with 90° wrap, or when desirable, a straight through “S” wrap threading can be used.



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# RS2-10 Steering Guide

Intermediate Guiding For Web Widths  
From 35 Inches (890mm) to 120 Inches (3050mm)



The **RS2-10** Steering Guide is ideal for the plastic film, multi-wall bag, coating, laminating and flexographic printing industry. Its features a double raceway assembly with 1-inch raceroles and is usually powered by a 5 or 6-inch diameter air cylinder. The guide rollers move laterally on the linear raceway assembly and simultaneously pivot in the same direction to correct the misalignment. An entering web span of twice the web width is considered a minimum safe entering span prior to the steering guide. A pre-entering span must also be maintained shorter than the entering span. Preferred threading is a single or double roller guide with 90° wrap, or when desirable, a straight through “S” wrap threading can be used.



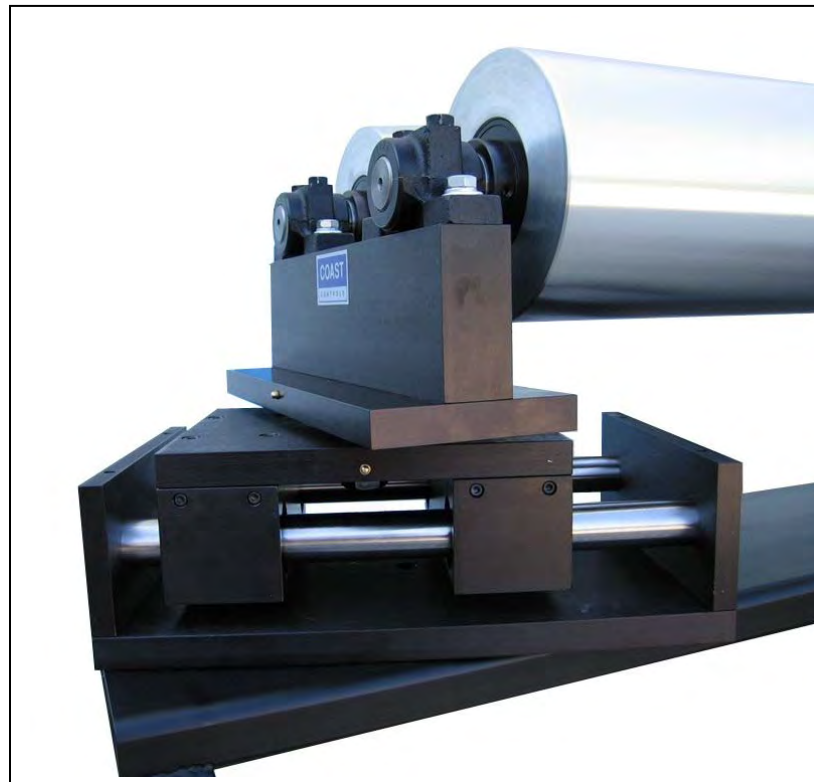
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## RS2-10 Components



## RS2-10 Single Roller



## RS2-10 Double Roller

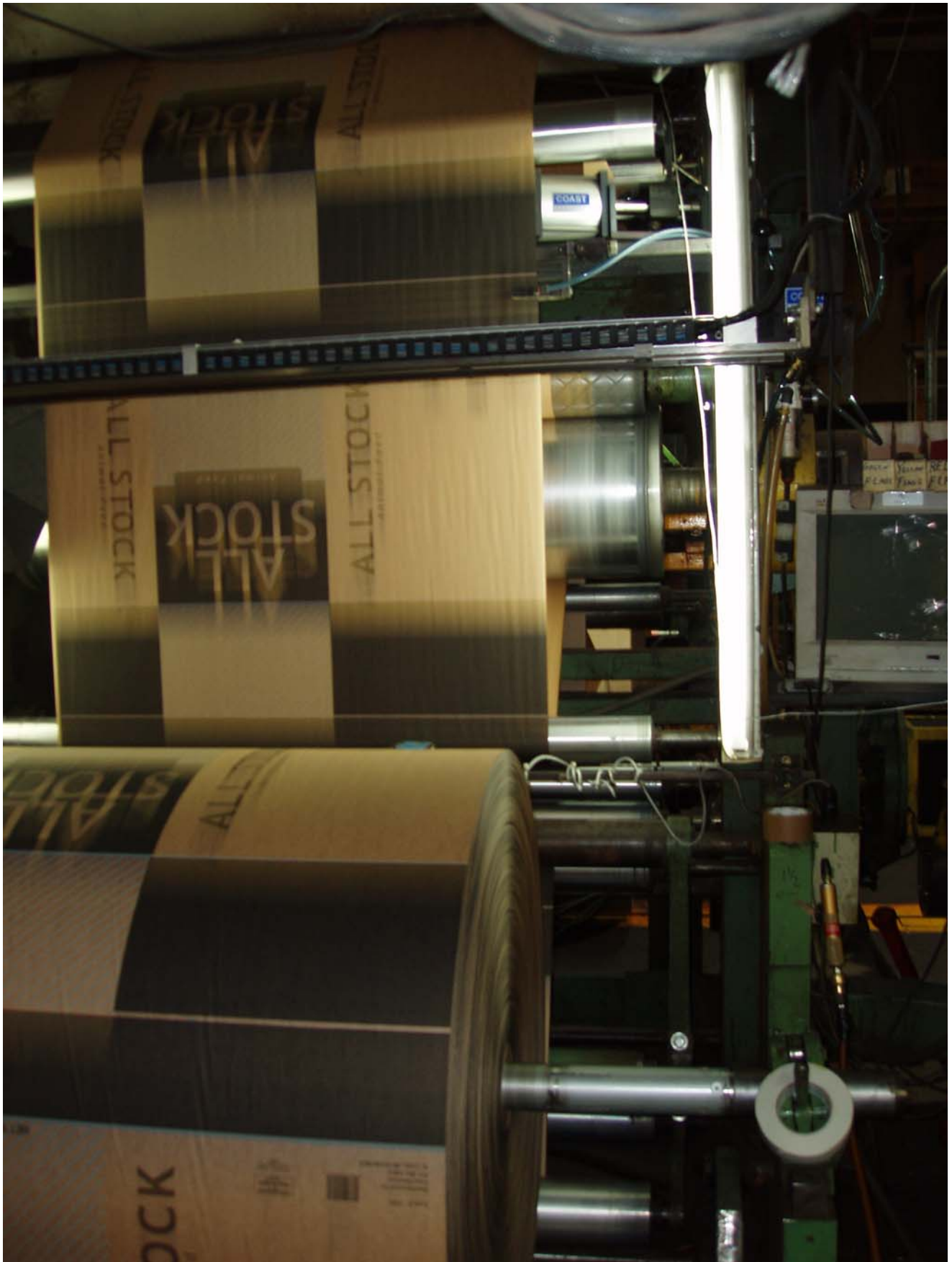


## RS2-10 Single Roller

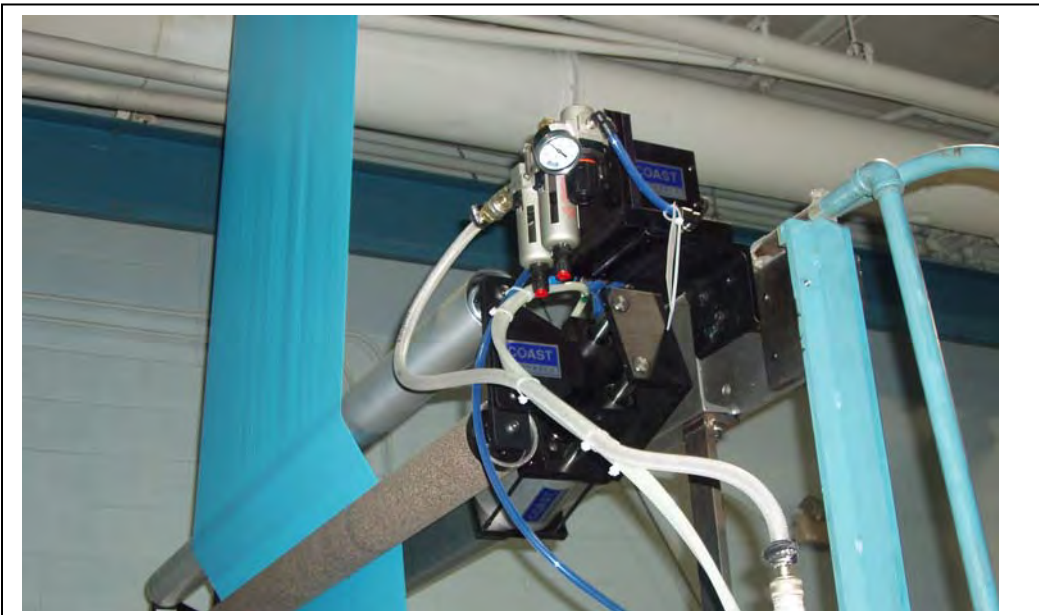


## RS2-10 Double Roller



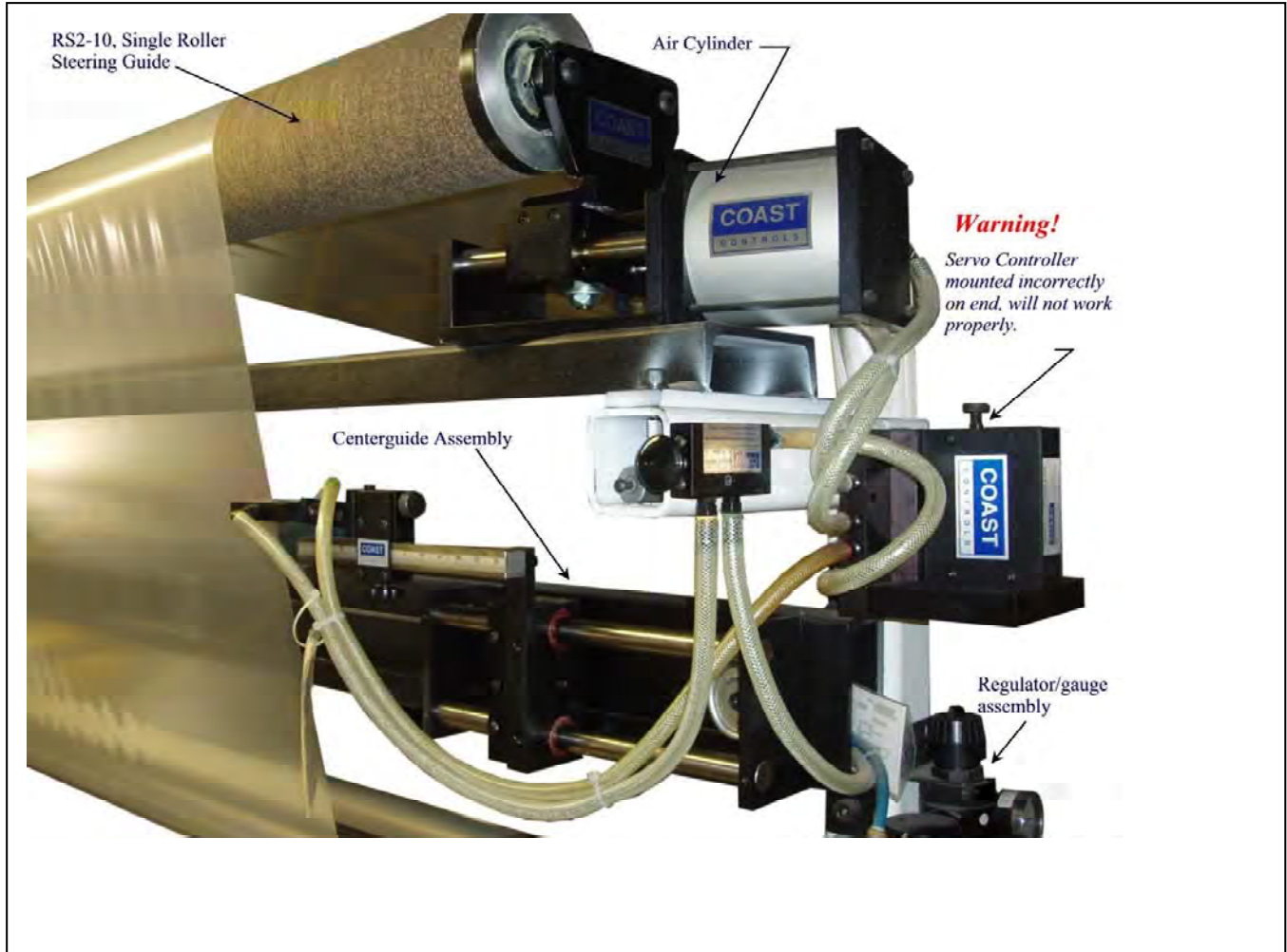


# RS2-10





# Improper Mounting of the Servo Controller





# Centerline Guiding



## CG2 MOVING SENSOR CENTERGUIDING SENSOR POSITIONING ASSEMBLY



The **CG2** is specially designed for centerline guiding applications. It works in conjunction with other Coast *Intermediate Guides* to align the web's imaginary centerline on materials with varying web widths. The CG2 and its moving Sensor Positioning Assembly can automatically adjust up to 20 inches of web width change. When the system is put into "servo-center" the sensors will automatically retract. You can also run the system in the basic edge guide mode.



Whether large or small, center guide assemblies can be installed on all types of guiding applications, i.e. envelope manufacturing, label and narrow web, blown film extrusion, nonwovens, flexible packaging and any other converting application where web variations need to be controlled and aligned.

# Multiple Web Guiding

# Multiple Web Guiding



The **Model ST** Steering Guide “*Stack*” series can align up to six individual webs into bag forming on multi-wall bag machines and tubers. Each “*Stack*” is completely assembled, pre-piped and mounted on a single vertical floor mounting stand. The stack simply bolts to the floor and connects to plant air. Each steering guide is independently controlled by a separate *All-Air* Guiding System operating from a single air manifold. 4 up stack shown.



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## Multiple Web Guiding



4 Up *Steering* guide stack, guiding into multi-wall paper bag manufacturing.



3 Up *Displacement* guide stack, guiding multiple lines into napkin embossing.

# Roll Stand Controls



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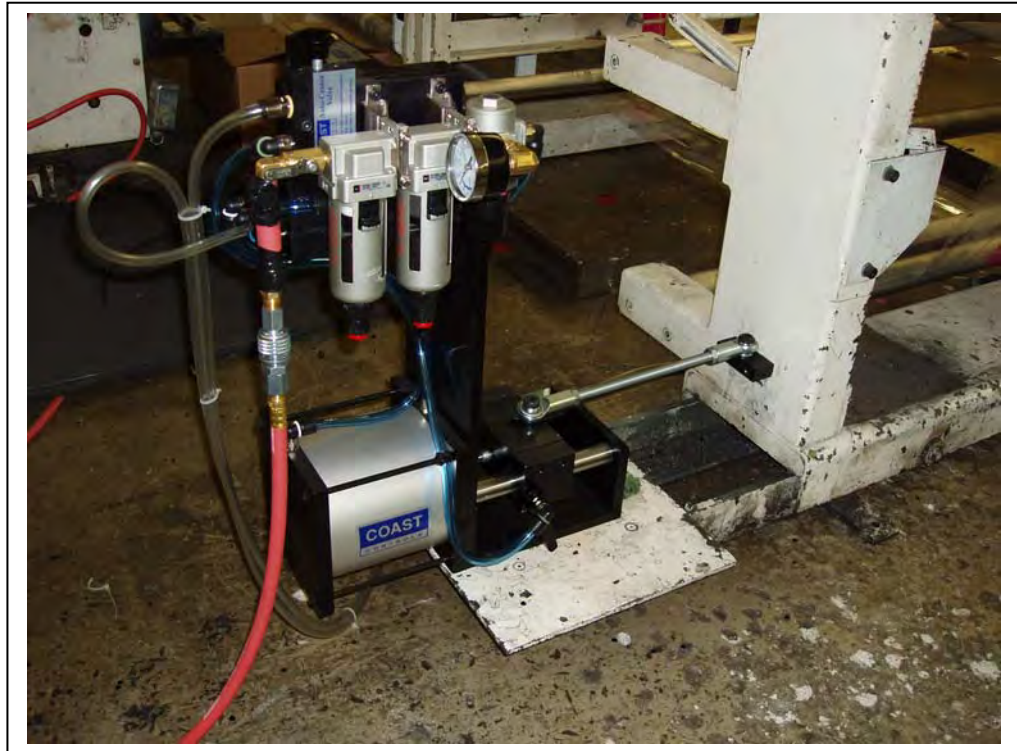
## Roll Stand Control-RSC60

**For Use On Existing Shifting Stands**

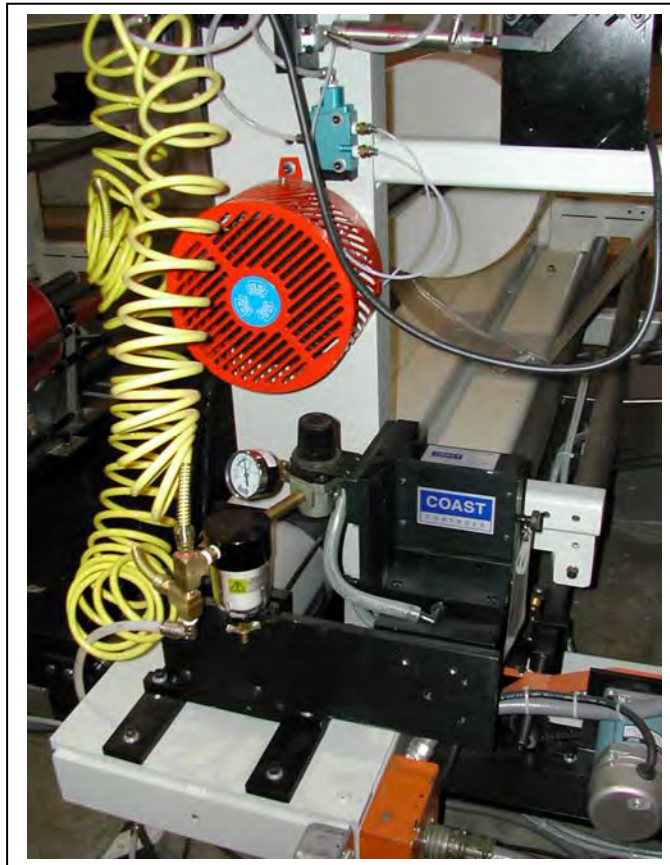


The **RSC60** is a completely assembled and pre-piped *Roll Stand Control* System. It is designed to attach directly to an existing shiftable unwind stand and automatically position an unwinding roll of material to a predetermined point as the web enters a process. The *sensor* (not shown) mounts independent of the stand (after the last shifting idler) and does not move during the unwind process. This compact guiding assembly is ideally suited for new machines as well as retrofits (upgrade) on older machines. Power is provided by a 6" air cylinder with either a 4" or 6" stroke. Maximum loading is 2,000 lbs. (909 Kg).

*All-Air Web Guiding Systems*





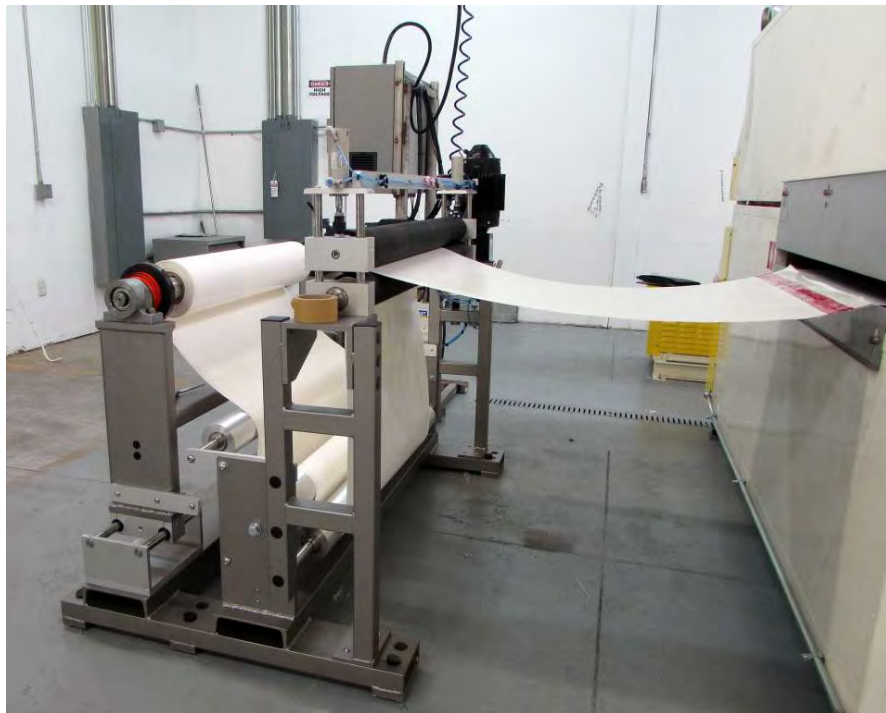


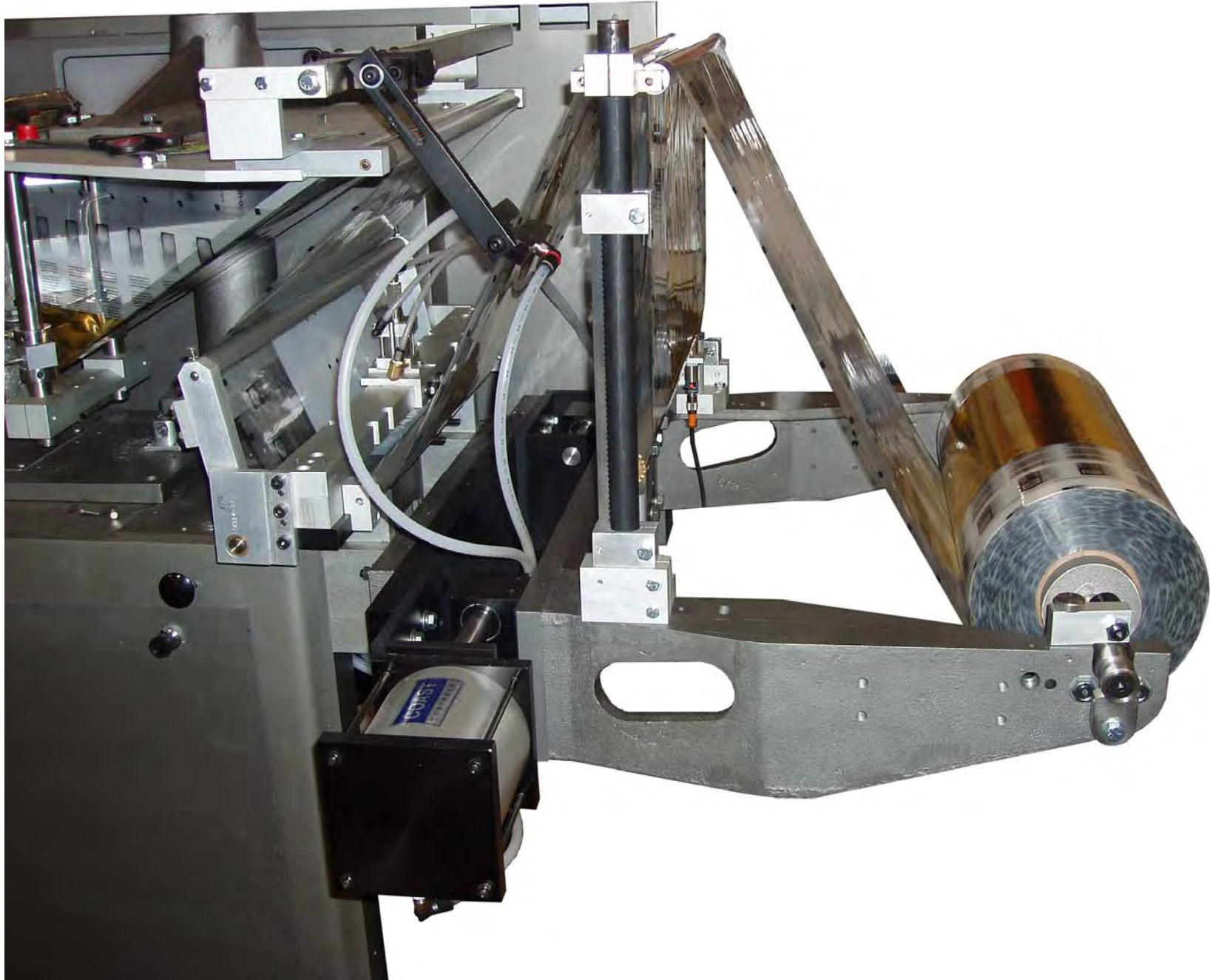
# Unwind/Rewind Guiding

# Shifting Stands with Tension Controls



## Shifting Stands with Tension Controls





# Retrofit Controls

# Control System Components



Model 10A Friction-Free  
Servo Controller



Two Stage Cartridge/Coalescing  
Filter with Precision Air Pressure  
Regulator and Gauge Assembly.

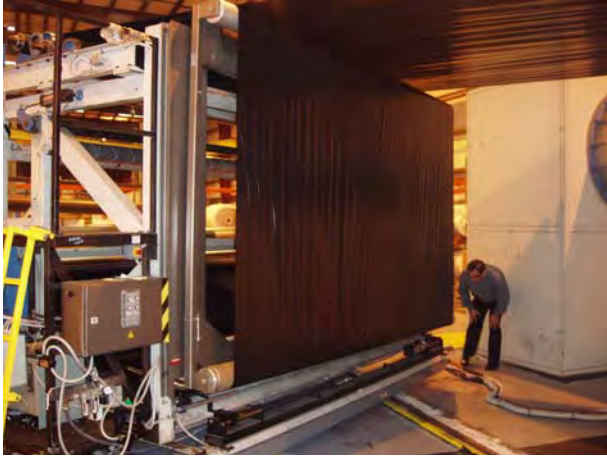


All-Air Cylinder with Raceway, Carrier Block  
And Auto-Center Assembly. Cylinders are  
available in various bores and strokes



Air-flow Sensors come in  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{3}{4}$ , and 1-  
inch) air gap. Model 38 shown, is mounted  
to a Model 104 Sensor Mounting Bracket.

## Retrofitting Existing Guides



Retrofitting 145" E & L electro/mechanical Displacement Guide and Center Guiding Assembly.



Retrofitting 13" BST, electro/mechanical Displacement Guide on W&D envelope machine.



Retrofitting a 17" Fife electrical/mechanical offset pivot guide, on a W&D envelope machine.



Retrofitting a Fife shifting stand with Coast All-Air System's controls.



## Problem



## Solved



# Model PS1 Feeler Sensor (Paddle Type)

Shown: Model PS1 Feeler Sensor with Model 104 Mounting Bracket



The **Model PS1 Feeler Sensor** is a “paddle type” sensor which is used when web material is too porous to sense with a stream of air or there is high probability of the sensor becoming contaminated with adhesives. The paddle “feels” the web’s edge to monitor misalignment. It works in conjunction with all Coast guiding systems.



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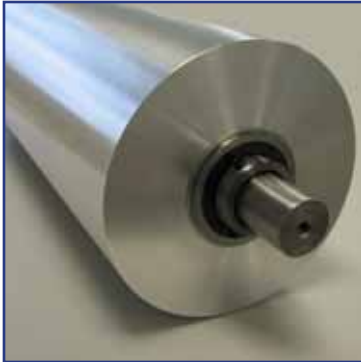
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# Precision Rollers

## **Did you know?**

Many customers who have come to Coast Controls with their most demanding web guiding applications, have also used our custom Precision Rollers. After all, we've been making quality rollers since 1992.

We engineer precision rollers for a wide range of converting applications. Each roller is designed to meet the exact specifications of its intended use. Rollers are dynamically balanced to ISO grade G6.3 and quality inspected for workmanship and order accuracy.



## **Capabilities-**

Coast Controls can manufacture any type of Precision Roller from any specification you require. We can make, but are not limited to:

- Live Shaft
- Dead Shaft
- Light Weight
- Custom Coverings
- Air Entrapment Groves
- Aluminum, Stainless, Steel



## **Satisfaction Guaranteed**

Coast Controls is committed to ensure that your product meets your satisfaction. We will be able to meet or exceed your expectations because of the following:

- Quick Turn-Around
- Precision Engineered
- The Use Of Low Friction Bearings
- Dynamic Balancing
- OEM and Quantity Discounts Available

