Web Guiding Machine Solutions

A Simpler Way to Guide
Coast Controls is the exclusive manufacturer of a simplified and unique All-Air Automatic Web Guiding Systems, electromechanical web guiding systems, and a manufacturer of complete turnkey winders that meet the needs of a wide variety of applications.

The All-Air system is based on a proportional All-Air Servo Controller, which operates entirely on low-pressure plant air. The Servo Controller is used with an Airflow sensor, Air Cylinder, and a properly designed and applied intermediate or unwind guide to accurately align the moving web of material.

Key features of the All-Air system include a 10-year warranty, explosion-proof, no maintenance, no electricity, and pinpoint accuracy with long-lasting dependability.

The Electromechanical web guiding system manufactured by Selectra SRL utilizes a user-friendly operator panel with an LCD touchscreen display. The correction signal leads to an electrical actuator, and the measured error is controlled by reflective photocells or ultrasonic sensors or infrared sensors.

Key features of the Electromechanical system include a 1-year warranty, guiding from a printed line or registration mark, compact actuators with forces up to 7000 Newtons (1,573 lbs.), PID algorithm to accelerate the reaction of the system and correction of the dead zone.

Our guiding systems are used in many different industries such as Extruded Plastic Film, Paper & Plastic Bags, Envelope Manufacturing, Tire and Rubber Manufacturing, Flexographic Printing, Flexible Packaging, Non-Wovens, Label & Narrow Web Manufacturing, Coating & Laminating, Die Cutting, Slitting, Metalized Film, Pharmaceutical & Medical Packaging, and Food Packaging. Additionally, many original equipment manufacturers incorporate Coast systems on the machines they design and build.

Coast Controls was established in 1992 by William and Douglas Fife, both of whom had many years of web guiding experience. Present management is Kyle E. Koontz, President. The company operates from a modern facility in Sarasota, Florida, and utilizes state of the art CNC machining centers and other manufacturing technology in their operation.

To adopt a design that is perfect for your application, Coast utilizes SolidWorks 3D Software, which can be converted to just about any format so the customer can place the 3D model of the guiding system right into their design, saving time and money.

Although we carry standard guiding systems to fit most machines in the converting industry, we will modify our designs to adapt to your machine, so the installation of a new Coast guide is just like replacing the original - and Coast will do this at no extra charge to you.
1. Plant air is connected to the friction-free servo controller through a two-stage cartridge/coalescing air filter and precision low-pressure regulator/gauge. A small portion of the air is reduced in pressure before going to both sides of the airflow sensor. Air continually bleeds from the sensor’s opposing nozzle and signal orifices, keeping them free of dust and other foreign matter.

2. As web misalignment occurs, the edge of the web moves in or out of the sensor. This causes the slightly higher nozzle air pressure to increase or decrease the back pressure in the signal air coming from the servo controller.

3. The change in pressure creates an imbalance between the opposing forces of the air diaphragm and the bias spring in the servo controller, causing the shuttle to move.

4. Movement of the shuttle directs the somewhat higher pressure actuation air to the proper end of the air cylinder. This causes the cylinder piston rod to move the guide to the precise amount required to realign the web at the sensor.

5. With the web edge back in its proper position at the sensor, the guiding system is again balanced, completing the control loop. Sensing and correction continue to take place as misalignment occurs.
All web guiding systems should be installed as close to the incoming side of the converting process where accuracy is needed. The location of the guide will determine if you will be using a **Shifting Unwind Stand, Intermediate, Displacement Guide, Intermediate Steering Guide, or a Shifting Rewind Stand**.

**UNWIND GUIDING** is obtained by automatically positioning an unwinding roll of material mounted on a laterally shifting roll stand. A shifting idler roller is attached to the stand. The sensor is fixed and mounted independently of the stand.

**DISPLACEMENT GUIDES** correct web misalignment (error) by pivoting a set of guide rollers about a fixed point to geometrically displace (align) the web. A displacement guide provides correction with minimal entry and exit span requirements. Displacement guides are ideal for applications with space limitations.

**STEERING GUIDES** correct by moving the web laterally while simultaneously pivoting the web in the same direction. This offsets the web’s inclination to return to its prior position. The guide (single or double roller) must be installed after a long, free-entering span to avoid wrinkling.

**REWIND GUIDING** (chasing) provides edge position controls by having the shifting stand and attached sensor ‘chase’ any web misalignment as the roll is winding. A fixed idler roller is required between the sensor and the rewinding roll.
**DISPLACEMENT GUIDES**

**WEB PATH CONFIGURATIONS**

**REQUIREMENTS FOR DISPLACEMENT GUIDE APPLICATION**

- Entry and exit spans must be parallel to each other and perpendicular to the plane of the guide’s motion
- Web must enter and exit the guide at a 90° angle
- Guide span should be approximately 1x the maximum web width
- The airflow sensor must be securely mounted after the guide’s exit roller and within the first one-third of the exit span
- At least one idler roller must be located between the exiting guide roller and the process (printing, laminating, etc.)
Mini Displacement Guides come equipped with solid aluminum plate construction, clear anodized finish, stainless steel hardware, low friction ER style bearings and Auto Centering as standard features.

**MDG3**
Web widths up to 4 in (101.6mm)

<table>
<thead>
<tr>
<th>Roll Face</th>
<th>5 in (127) to 6 in (152.4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guide Span</td>
<td>5 in (127) to 6 in (152.4)</td>
</tr>
<tr>
<td>Roller Diameter</td>
<td>1.5 in (38.1) to 2 in (50.8)</td>
</tr>
</tbody>
</table>

The MDG3 web guiding systems feature a 3 inch (76) actuator and either a 2 or more roller configuration and are designed for narrow web applications up to 4 inches (101.6).

**MDG4**
Web widths up to 8 in (203.2mm)

<table>
<thead>
<tr>
<th>Roll Face</th>
<th>7 in (177.8) to 10 in (254)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guide Span</td>
<td>8 in (203.2) to 10 in (254)</td>
</tr>
<tr>
<td>Roller Diameter</td>
<td>1.5 in (38.1) to 2.5 in (63.5)</td>
</tr>
</tbody>
</table>

The MDG4 web guiding systems feature a 4 inch (101.6) actuator and either a 2 or more roller configuration and are designed for narrow web applications up to 8 inches (203.2).

**MDG5**
Web widths up to 13 in (330.2mm)

<table>
<thead>
<tr>
<th>Roll Face</th>
<th>8 in (203.2) to 15 in (381)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guide Span</td>
<td>10 in (254) to 12 in (304.8)</td>
</tr>
<tr>
<td>Roller Diameter</td>
<td>2.5 in (63.5) to 3 in (76.2)</td>
</tr>
</tbody>
</table>

The MDG5 web guiding systems features a 5 inch (127) actuator and either a 2 or more roller configuration and are designed for narrow web applications up to 13 inch (330.2).
Our Rigid and Displacement Guide systems are engineered with a 2 and 4-point suspension system, which offers the ultimate in support for medium to heavy duty applications. Rigid displacement guides come equipped with solid aluminum plate construction, clear anodized finish, stainless steel hardware, low friction ER style bearings, and Auto Centering as standard features. Custom displacement guides come with stainless steel hardware, low friction ER style bearings, and Auto Centering as standard features.

**RDG5**
Web widths up to 26 in (660.4mm)

- **Roll Face**: 20 in (508) to 30 in (762)
- **Guide Span**: 16 in (406.4) to 25 in (635)
- **Roller Diameter**: 3 in (76.2) to 4 in (101.6)

**CD2**
Web widths up to 35 in (889mm)

- **Roll Face**: 34 in (863.6) to 40 in (1016)
- **Guide Span**: 20 in (508) to 30 in (762)
- **Roller Diameter**: 3 in (76.2) to 4 in (101.6)

**CD4**
Web widths up to 130 in (3302mm)

- **Roll Face**: 45 in (1143) to 140 in (3556)
- **Guide Span**: 20 in 508 to 75 in (1905)
- **Roller Diameter**: 3 in (76.2) to 8 in(203.2)
DISPLACEMENT GUIDE APPLICATIONS

- GUIDING INTO A PROCESS
- GUIDING INTO PRINTING ON A NARROW WEB PRESS
- GUIDING INTO LAMINATING
- GUIDING ON A SLITTER/REWINDER/INSPECTION MACHINE
- GUIDING INTO COATING
STEERING GUIDES

WEB PATH CONFIGURATIONS

- **RS1-75**
- **RS1-10**
- **RS2-75**
- **RS2-10**

REQUIREMENTS FOR STEERING GUIDE APPLICATION

- The steering guide must be installed after a long, free-entering web span to prevent wrinkling. A web entry span of at least 2x the maximum web width must be maintained.
- The pre-entry span must be shorter than the entry span.
- The preferred exit span should be at least 1/2 to 1x the max web width.
- The airflow sensor must be securely mounted after the guide’s exit roller (within the first 1/3 of the exit span).
- At least one idler roller must be located between the exit roller and the process (i.e. printing) to avoid guiding directly into a process.
STEERING GUIDES

Steering Guides are either solid aluminum plate construction, clear anodized finish, or steel channel construction painted to the customer's specification. All of which come equipped with stainless steel hardware, low friction ER style bearings, and Auto Centering as standard features.

**RS1-75**
Web widths up to 8 in (203.2mm)

The RS1-75 Steering Guides are compact steering guides ideal for the narrow web industry. They feature a single raceway assembly with 3/4-inch race rods and are powered by a 4 inch (101.6) diameter air cylinder.

| Roll Face | 8 in (203.2) to 10 in (254) |
| Roller Diameter | 2 in (50.8) to 2.5 in (63.5) |

**RS1-10**
Web widths up to 15 in (381mm)

The RS1-10 Steering Guides feature a single raceway assembly with 1 inch (25.4) diameter race rods and are powered by a 5 inch (127) diameter air cylinder.

| Roll Face | 15 in (381) to 18 in (457.2) |
| Roller Diameter | 2.5 in (63.5) to 3 in (76.2) |

**RS2-75**
Web widths up to 30 in (762mm)

The RS2-75 Steering Guides feature a dual raceway assembly with 3/4 inch (19.05) race rods and are powered by a 5-inch diameter air cylinder.

| Roll Face | 21 in (533.4) to 35 in (889) |
| Roller Diameter | 2.5 in (63.5) to 4 in (101.6) |

**RS2-10**
Web widths up to 130 in (3302mm)

The RS2-10 Steering Guides are a robust steering guide ideal for the medium to wide web industry. They feature dual raceway assemblies with 1 inch (25.4) race rods and are powered by 5, 6 or 8-inch diameter air cylinders.

| Roll Face | 40 in (1016) to 140 in (3556) 3 in (76.2) to 8 in (203.2) |
| Roller Diameter | 3 in (76.2) to 8 in (203.2) |
STEERING GUIDES APPLICATIONS

- **Guiding from an Oven**
- **Guiding on an Inspection Machine**
- **Guiding into Slitting and Wind-up on a Blown Film Extruder**
- **Guiding 4 Webs on a Multiwall Bag Machine**
- **Guiding into Printing and Rewind on a Flexographic Press**

Details:
- Oven
- Steering Guide
- Sensor
- Unwind
- Rewind
- Steering Guide Stack
- Sensors
- Ovens
- Printings
- Textile Inspection Station
- Slitter
In cooperation with Selectra Srl, Coast Controls, Inc. is pleased to offer a complete line of electronic web guiding systems in addition to the precise and durable All-Air system. The new line of web guide systems offers Coast the ability to better serve our customers with systems for virtually all applications including:

1. Guiding from a printed line or registration mark
2. Shifting heavier roll stands
3. Economical retrofit packages
4. Economical center guiding
5. Economical guide/follow assemblies
6. Extra-wide gap sensors for thicker materials
7. Compact designs for applications with space constraints

**SPECIFICATIONS AND FEATURES**

- PID algorithm to accelerate the reaction of the system
- PID algorithm of correction with dead zone
- Reaction time is superb as circuitry is faster than most competitors
- Actuator is using a ball screw, anti-rotation, integrated limit switches, and integrated servo center
- Adjustable settings for left/right edge control
- Automatic contrast setting (TSB/TLS10K sensor)
- Ultrasonic sensor suitable for transparent materials
- Infrared sensor suitable for non-woven, tissue, napkins, diapers
- LED light sensor suitable for opaque and reflective materials
- Cleaning protection device with airflow on request
- User friendly 3.5-inch LCD touch screen interface
- Settable offset from operator interface
- Automatic gain and level adjusting
- Up to 7000N (1,573 lbf.) actuator
- Sensitivity 0.01 mm (0.000378 in.)
- Max correctable error ± 10 cm (3.937 in.)
- Proportional band ± 9 mm (0.354 in.)
- Web width data
- Serial port
ELECTRONIC WEB GUIDING SYSTEMS

TUS - ULTRASONIC SENSOR

- Ultrasound technology
- Edge control
- Power supply: 24V
- Proportional band: 20 mm (0.787 in)
- Suitable for contrasted and transparent materials
- Insensitive to dirt
- Electric noise protection
- Distance of beams: 50-100 mm (1.969-39.370 in)
- RS-485 connection
- Standard cable: 5 m (16.4 ft.)
- Longer forks on request

TLS 10K - LED LINE-SCAN ARRAY SENSOR

- LED light technology
- LCD touch screen interface
- Line and contrast control
- Suitable for opaque and reflective materials
- Spotlight pointer
- Power supply: 24V
- Proportional band: 20 mm (0.787 in)
- Quick calibration set-up
- Interrupted line and contrast control
- Multiple lines scanning
- Electric noise protection
- Auto-calibration procedure
- Suggested web-sensor distance: 20 mm (0.787 in)
- RS-485 connection
- Standard cable: 5 m (16.4 ft.)

TIR - INFRARED SENSOR

- Infrared technology
- Edge control
- Power supply: 24V
- Proportional band: 20 mm (0.787 in)
- Suitable for non-woven, tissue, napkins, diapers
- Cleaning protection device with airflow on request
- Electric noise protection
- Distance of beams: 50-100 mm (1.969-39.370 in)
- RS-485 connection
- Standard cable: 5 m (16.4 ft.)
- Longer forks on request
WINDING GUIDES

SRS2 Unwind

SRS2 Rewind

Dual Unwind System

UNWIND GUIDES REQUIREMENTS

• At least one fixed idler roller is attached to – and moves in unison with the unwind stand to keep the material on a constant plane through the airflow sensor as the diameter of the unwinding roll decreases.

• The airflow sensor mounts to a stationary part of the machine, independent of the shifting stand, and does not move during guiding.

REWIND GUIDES REQUIREMENTS

• A fixed idler roller is mounted independently of the rewind stand between the airflow sensor and the rewinding roll.

• Airflow sensor is attached to and moves in unison with the rewind stand to maintain a constant plane of the web through the sensor as the diameter of the rewinding roll increases.
Coast Unwind and Rewind Guiding Systems combined with Montalvo tension & torque controls provide a complete turnkey package that is sure to meet the needs of your application.

### REWIND GUIDES

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<tr>
<td>SRS4-R10-R</td>
<td>1500 lbs (680.3)</td>
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<td>SRS4-R15-R</td>
<td>2500 lbs (1133.9)</td>
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<tr>
<td>SRS4-R20-R</td>
<td>5000 lbs (2267.9)</td>
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<td>SRS4-R25-U</td>
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Coast Controls manufactures cost-effective and straightforward turnkey solutions for almost any application. For three decades of producing the world’s most trusted web guiding systems, we now incorporate these units onto fully designed Unwinds, Rewinds, and Roll-To-Roll web handling systems. Building complete web converting and inspection machines out of proven, flexible components, - enhanced by customized designs, gets you to market faster.
ROLL-TO-ROLL TURNKEY SOLUTIONS

Roll-To-Roll Cantilevered Inspection Machine

Custom Cantilevered Unwind System

Roll-To-Roll Custom Cantilevered R&D Machine
Are you tired of fried circuit boards, burned out motors, leaky hydraulics, obsolete spare parts, needless downtime, etc?

Maybe it’s time you did something about it. If you answer yes to any of the following questions then now is the time to replace the old hydraulic or electronic controls on your web guide with Coast’s exclusive All-Air control system:

- Does your current web guide control system require any routine maintenance?
- Are you tired of leaky hydraulics?
- Have you had to replace expensive electronic components?
- Do you have to carry spare parts?
- Do you want to eliminate downtime?

**BENEFITS OF RETROFITTING**

- Accurate — guiding results guaranteed to your satisfaction
- Dependable — backed by our full 10-year guarantee
- No routine maintenance
- No spare parts required
- Simple to understand and install — attaches directly to existing guide frame

**Basic Package**
BRPP50

**RETROFIT REQUIREMENTS**

- Existing guide must be in good mechanical condition and move freely (without bind)
- Guide must be properly located and installed on a web processing machine
- It may be necessary to relocate the existing guide to obtain desired guiding results
TYPICAL RETROFIT COMPONENTS INCLUDE:

- Model 10A Friction-Free Proportional Servo Controller
- Two Stage Cartridge/Coalescing Filter with Precision Regulator, Pop-Up Indicator and Gauge Assembly
  Cartridge(0.5μ) / Coalescing(0.01μ)
- Piston Type Actuator
  Engineered with 1/2 PSI breakaway.
  3”, 4”, 5”, 6” and 8” bores available in various strokes
- Raceway Bearing Assembly
  3/4” diameter bearing shafts up to 1.5” diameter for heavier applications
- Carrier Block and Auto Center Assembly
- Auto Center Assembly with 3-Way Valve
- Airflow “Edge” Sensor
  Various gaps for different web thicknesses.
  Paddle type feeler sensors also available
- Model 104 Mounting Bracket and 1-inch Square Bar.
  Course and Fine adjustments
  Remote controlled brackets also available

Complete Package
CRPP50
ROLL STAND CONTROLS (RSC)

RSC60

The model RSC60 is completely assembled, pre-piped, and ready for production. It is used primarily to attach directly to an existing shifting unwind or rewind stand system. It automatically positions the roll of material to a predetermined point based on the location of the edge sensor.

The model RSC60 features a 6-inch diameter air cylinder, which at 8 psi (.55 bar) is capable of shifting a total weight (roll + Stand) of 2,500 lbs (1,134 kgs).

The model RSC60 is available with standard 4 & 6-inch stroke cylinders.

RSC80

The model RSC80 is completely assembled, pre-piped, and ready for production. It is used primarily to attach directly to an existing shifting unwind or rewind stand system. It automatically positions the roll of material to a predetermined point based on the location of the edge sensor.

The model RSC80 features an 8-inch diameter air cylinder, which at 10 psi (.689 bar) is capable of shifting a total weight (roll + Stand) of 5000 lbs (2268 Kgs).

The model RSC80 is available with standard 4 & 6-inch stroke cylinders.
ADDITIONAL PRODUCTS & OPTIONS

CENTERING GUIDES

For centerline guiding applications, the CG2 works in conjunction with other Coast Intermediate Guides to align the web’s imaginary centerline on materials with varying web widths. The moving Sensor Positioning Assembly can automatically adjust up to 20 in of web width change and sensors will automatically retract when put into “auto-center”.

CUSTOM MOUNTING STANDS

Using state-of-the-art equipment, we can manufacture custom mounting stands to accommodate non-standard guiding applications. All engineering and manufacturing is done on-site, which allows us to build a custom stand to fit your guiding needs. Whether it’s as simple as adding additional idler rollers or complex configurations, Coast can handle it.

REMOTE SENSOR POSITION ASSEMBLY

For guiding applications in remote areas, a Remote Sensor can be used to change the sensor location to accommodate web width changes. The electronic switch can be connected to a PLC or manually operated.

SPLICE TABLE

Splice Tables are designed to attach to a standard displacement guide or can be mounted independently and are used to firmly clamp the leading end of a new roll to the trailing end of a recently expired roll. Splice tables include an anodized aluminum mounting plate, a replaceable steel insert with a milled slot to guide the cutting knife or rotary blade, dual micro pneumatic actuators with independent toggle switch controls, variable speed adjustment for each clamp and independent cushioned clamping arms lined with rubber cork for assured grip.
ADDIITIONAL PRODUCTS & OPTIONS

OSCILLATION (ELECTRIC OR PNEUMATIC)

Variable speed oscillating motor is used to offset “Gauge Band” buildup on certain guiding applications to prevent roll slippage. The electric motor combines 90 VDC accuracy with a 115 VAC Speed control. The fully adjustable cam arm gives you the ability to set the desired offset from 0 to 1-inch and anywhere in between. This combination results in a compact, easy to use package capable of varying speeds from fast to slow with 0 to 1-inch of oscillation. Larger amounts of oscillation are available upon request.

WASH DOWN ENCLOSURE

NEMA-4X ventilated industrial enclosures are UL Listed and provide perfect protection for System Controls from harsh environments such as dirt, wash down, splashing liquids, and corrosive agents. These enclosures along with Stainless Steel guiding equipment is used in production areas such as food packaging applications.

END PIVOT GUIDE

End pivot guides (EPG) are typically used with conveyor belts. EPG’s are designed for standard to rigorous environments including high heat, high tension, and wash down applications. The use of a standard fork sensor or the feel or type paddle sensors are used to detect the location of the belt edge. EPG systems are available in standard materials as well as complete stainless steel.
Coast Controls makes 3 types of rollers for your converting process: Aluminum, Steel, and Stainless Steel. Each type of roller comes in a number of sizes and coatings, which allows us to make a specific roller for your needs.

Since our founding in 1992, we have been manufacturing high-quality idler rollers, selling them individually and as part of our innovative all-air web guide systems. Our idler rollers are made of various materials and are designed to fit specified web guiding applications. No matter what type of roller you are looking for, we will engineer a high-quality, precision made idler roller that is the perfect fit for your industry and application. All of our idler rollers are dynamically balanced ISO grade G6.3.

When you order an idler roller from Coast Controls, you are getting a product that you can rely on for years to come. We offer the same 100% satisfaction guarantee that we have placed on our highly reliable web guiding systems since 1992. With the quickest turnaround time in the business, most orders will be shipped within two to three weeks.

LIVE SHAFT VS. DEAD SHAFT

Dead Shaft - (Roll body rotates, shaft is rigidly mounted)

Dead shaft idlers are less expensive than live shaft idlers, which has made them more popular over the years. Also, since the roll body is the only rotating object on a dead shaft idler, the rolling inertia is much less than a live shaft. Dead shaft idlers also benefit by having low friction bearings, which help increase the bearing life span.

Live Shaft - (Roll body and shaft rotate together)

The most popular reason people go with live shaft idlers is because they either need to be driven and/or they can work in harsher environments like those that involve damaging chemicals or vapors, high levels of dust, or excessive moisture. Also, since the bearing size is not limited to the size of the idler roll body, live shaft idlers can withstand higher workloads. Another key advantage of live shaft rollers is that they can allow for longer rolls since self-aligning bearings can be used. Live shaft idlers can also work in elevated temperatures when positioning the bearings outside the harsh environment which prolongs the bearing life.
## IDLER ROLLERS

### COAST CONTROLS ROLLER SPECS

#### Dead Shaft Idler Rolls
- 32 Ra finish on roll face
- Dynamically balanced to ISO grade G6,3
- Straightness over roller face width within the greater of 0.002in or 0.0005”/ft of face length
- Low-Friction bearings
- O.D. to bore run out within 0.002 to 0.007 depending on the diameter and length

#### Live Shaft Aluminum Idler Rolls
- 32 Ra finish on roll face
- Dynamically balanced to ISO grade G6,3
- Straightness over roller face width within the greater of 0.002in or 0.0005”/ft of face length
- Journal run out to roll O.D. within 0.002 to 0.007 depending on the diameter and length

### ALUMINUM ROLLERS

Aluminum idler rollers are about half the weight of steel idlers. This type of idler roller is best suited for web guide applications with low web tensions and less web material. These lighter idlers are ideal for applications that require lower web tensions and minimal web wrap.

#### Dead Shaft Aluminum Idler Rolls
- 6061-T6 aluminum tubing

#### Live Shaft Aluminum Idler Rolls
- 6061-T6 aluminum tubing
- Journal Material 1018 Carbon Steel

### STEEL ROLLERS

Steel idler rollers provide exceptional performance over a wide range of applications while possessing the strength to withstand substantial loading from nips, wrap angle and high web tension. Steel idlers work well in temperatures up to 350 °F with a lesser thermal expansion rate than aluminum.

#### Dead Shaft Steel Idler Rolls
- DOM Tubing

#### Live Shaft Steel Idler Rolls
- DOM Tubing
- Journal Material 1018 Carbon Steel

### STAINLESS STEEL ROLLERS

Stainless steel idler rollers are engineered for corrosive and high moisture environments. These idlers provide exceptional performance over a wide range of applications while possessing a higher wear resistance than mild steel. Typical applications include food and medical environments.

#### Dead Shaft Stainless Steel Idler Rolls
- Grade 304 or 316 Tubing

#### Live Shaft Stainless Steel Idler Rolls
- Grade 304 or 316 Tubing
- Journal Material 304 stainless steel
ALL-AIR PRODUCT FAQ

How much air pressure does a Coast system require to operate?
The Two-Stage filter package requires a minimum of 60 PSI to seat the filter bowls. After the filter bowls are seated, the precision regulator will reduce the air to a normal operating range of 5 to 8 PSI.

How much air does a Coast system consume?
Under normal operating conditions, normal usage is approximately 1.5 CFM.

Air is expensive! What is the utility cost to operate a Coast system?
Since a Coast system will consume approximately 1.5 CFM at 5 PSI it depends on the air compressor’s efficiency. For Example, at 95% efficiency and a $.08/KWH rate, usage is approximately $0.0235/hour!

Does Coast provide training and installation?
Coast technicians can provide on-site training and installation, but not necessary. Most systems require a few bolts to install and the training is as easy as 1-2-3 as there are only three (3) settings to achieve a perfect web guide or your application.

Do I need to stock spare parts?
No. Coast systems are built to last, but if a part is needed, 99% of all components are on the shelf and can ship the same day.

How does a Coast system perform with Clear or Metalized film?
Perfect! Since only a small stream of air is used to detect the material’s edge, it doesn’t matter if the material is clear, opaque, dense or reflective.

How well does the system work in Hot, Humid and Dusty environments?
Flawlessly! The system takes in cool compressed plant air and never vacuums or draws from the outside air such as other sensors on the market. Therefore, the sensor is essentially self-cleaning.

What routine maintenance is required?
None. The two-stage filter package relies on a pop-up indicator to let you know if the filter elements have been compromised which can cause irregular movement in the system.

What are the electrical requirements?
None. The system is powered entirely by high-pressure plant air, then regulated to a lower operating air pressure.
ALL-AIR BENEFITS COAST CONTROLS

Since 1992 Coast Controls, Inc. has manufactured the world’s most reliable and simplistic web guiding system on the market. Listed below are some of the advantages Coast Controls’ All-Air Guiding System has to offer over other web guiding systems!

**Dependability:** Pneumatics are renowned for their dependability, which means less downtime and more production. That’s why all of our web guide systems are covered by an unprecedented 10-year warranty.

**Uniformity:** One sensor for all materials. It doesn’t matter if it’s opaque, translucent, reflective or even clear, our airflow sensor will detect any material that disrupts the signal air stream.

**No Electricity:** No electricity or electrical components with the potential to “burn out”, i.e. controllers, motors, switches, circuit boards, etc., hence fewer spare parts needed in your inventory.

**Self Cleaning:** The airflow, edge sensor orifices have positive air flow on both sides! No Vacuum!

**Accurate:** Guiding results are 100% satisfaction guaranteed on all applications.

**No Routine Maintenance:** No lubrication or routine maintenance required. Pop-up indicator on Filter Package will let you know when to replace filter elements.

**Dust and Dirt Friendly:** Our guide systems are not affected by dusty or dirty production environments or operating in high heat or humid areas.

**No Explosions:** Our systems are inherently explosion proof right out of the crate.

**Great ROI:** Coast Controls’ web guides and rollers ultimately reduce your production costs.

**Simplicity:** The Coast systems are extremely simple to install, operate, and maintain. We use the same controller on every system we build. Once you know how to operate one, you know how to operate any type of guiding system we build.
QUALITY ASSURANCE
Coast Controls All-Air Guiding Systems are 100% guaranteed to perform to the Customer’s complete satisfaction when installed as recommended. The simplified design and dependability of the friction-free All-Air Servo Controller and related components, allows Coast to provide a 10-year guarantee on each guiding system. The warranty is from the date of shipment and covers defects or premature wear of any guiding system component.

To ensure years of trouble free operation, tandem mounted particulate and coalescing air filters are provided with each guiding system. Contact Coast’s Technical Support Department for various answers to warranty or other questions.

UNITED STATES SALES MAP

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