

ARIS

WEB GUIDING SYSTEM

The next generation of innovative solutions in web guiding technology.

ARIS Web Guiding System is ideal for narrow web converting applications and can accommodate materials up to 500 mm wide. ARIS WGS uses a revolutionary web position sensor based on fiber optic technology to accurately measure the position of a web material irrespective of its properties. The next generation of web guiding systems do not require any setup, calibration or manual tuning and is a true plug and play system. Using a unique all-purpose vision-based web position sensor, ARIS can accurately detect an edge, line or contrast difference between materials without the need for calibration or teaching.



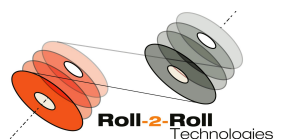
KEY FEATURES

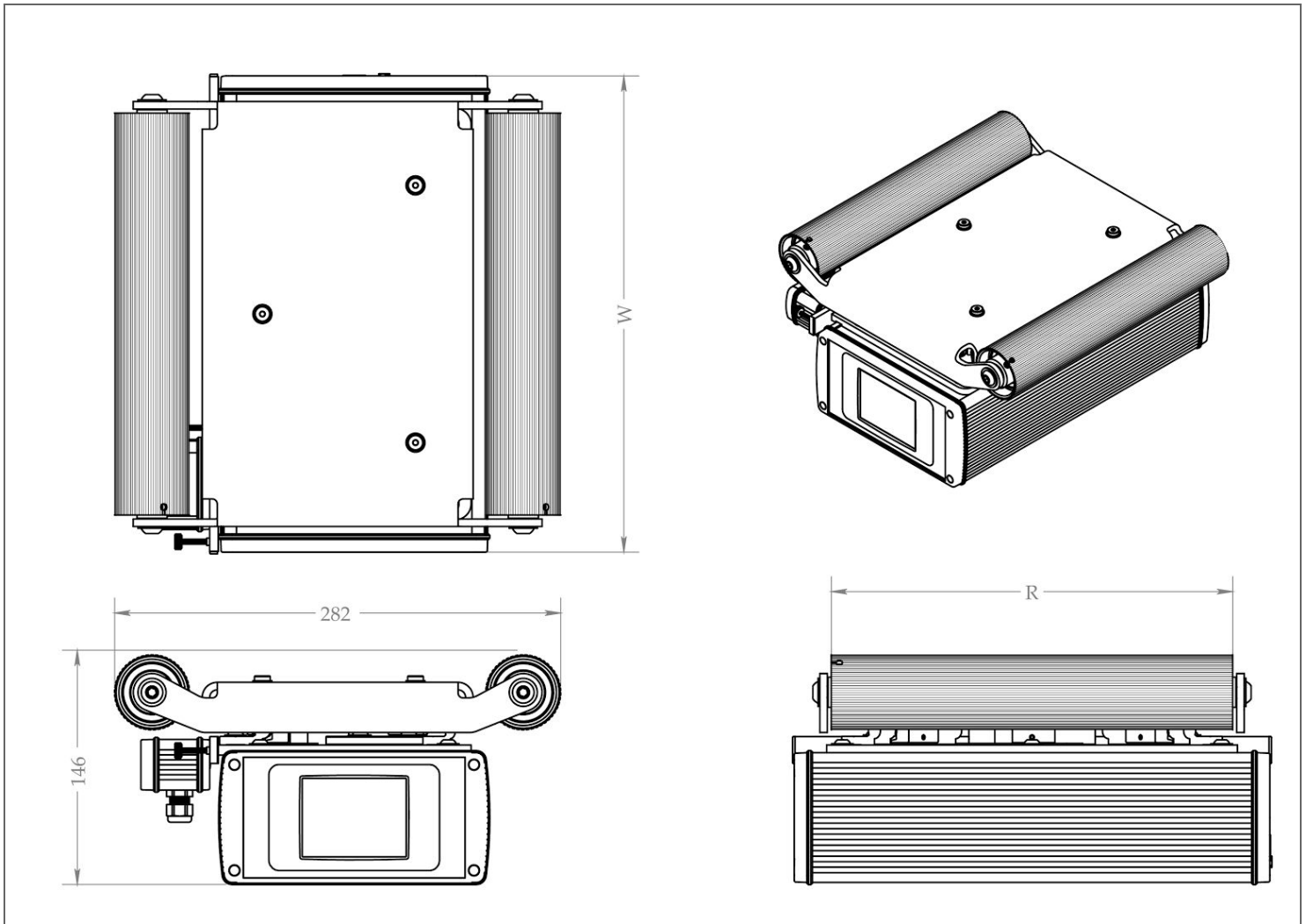
- For use in all narrow web converting applications
- **Works with any material:** opaque, transparent, woven, nonwoven, porous or nonporous
- Simple **plug & play** system
- **No setup or calibration** required when the material properties or process conditions change
- Highly accurate material agnostic fiber optic sensor: **precisely detects the web position** of any material
- Infrared optical sensor technology **unaffected by ambient light**
- Edge sensing, line sensing and contrast sensing with white LED light option

GENERAL SPECIFICATIONS

Roll Face	250, 300, 375, 425, 500, 550 mm
Motor Type	Linear stepper
Correction Rate	135 - 175 mm/sec
Nominal Actuating Travel	± 27mm
Sensor Type	Fiber optic
Sensor Range	16mm and 48mm
Sensor Resolution	0.0635 mm Material Independent
Accuracy	>99.2%

Roll-2-Roll Technologies LLC
1414 S Sangre Rd
Stillwater, OK 74074
www.r2r-tech.com
+1-(888)-290-3215



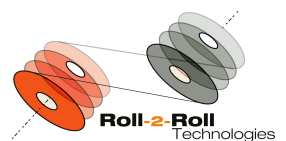


NOTES:

- All dimensions in mm
- Refer to table below for dimensions W and R

Roll Face inch [mm] R	Guide Span inch [mm]	Roll Diameter inch [mm]	Width inch [mm] W	Max correction inch [mm]	Max correction speed in/sec [mm/sec]
10 [254]	11.25 [285.7]	2 [50]	11.85 [301]	± 1.06 [27]	5.315-6.889 [135-175]
12 [304.8]			11.85 [301]		
15 [381]			16.85 [428]		
17 [431.8]			16.85 [428]		
20 [508]			21.85 [555]		
22 [558.8]			21.85 [555]		

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PRODUCT SPECIFICATIONS

General Specifications

Guide Weight	-	21 lbs - 30 lbs
Roll Face	-	10, 12, 15, 17, 20, 22 inches / 254, 304.8, 381, 431.8, 508, 558.8 mm
Operating Temperature	-	0-60° C
Operator Interface	-	Color touch screen
Language	-	Language independent icons

Actuator

Motor Type	-	Linear stepper - Lead screw
Input Supply	-	24 V DC
Error Frequency	-	2 Hz - 8 Hz
Control Frequency	-	50 - 200 Hz
Maximum Web Tension	-	225 N
Linear Force	-	250 - 1000 N
Nominal Actuating Travel	-	±27 mm
Correction Rate	-	135 - 175 mm/sec
Displacement Resolution	-	0.000275

Sensor

Sensor Type	-	Fiber optic
Sensor Resolution	-	0.0635 mm Material Independent
Sensor Range	-	16 mm and 48 mm
Accuracy	-	>99.2%

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USA

To:



The power of vision without the hassle of calibration.



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