

RAYEX® S

Diameter, Wall Thickness and Eccentricity-Measurement up to 80 mm (3.15 in.)

Outside Diameter for:

Cables: Coax, CATV, Silane, Jackets

Tubing/Pipe: PVC, PE, PA, Composite
Pipes, Automotive, etc.

Hoses: Rubber, Medical,
Silicone, PTFE, etc.

RAYEX® S is a fully new X-ray system based on latest technology and made with top quality. Unconventional solutions reunited in unique advantages, flexibility and high measurement performance:

1. Easy operation
2. High accuracy
3. Reliable operation
4. Longevity, especially of X-ray sources
5. Easy maintenance and service
6. High safety level

Key Features and Advantages

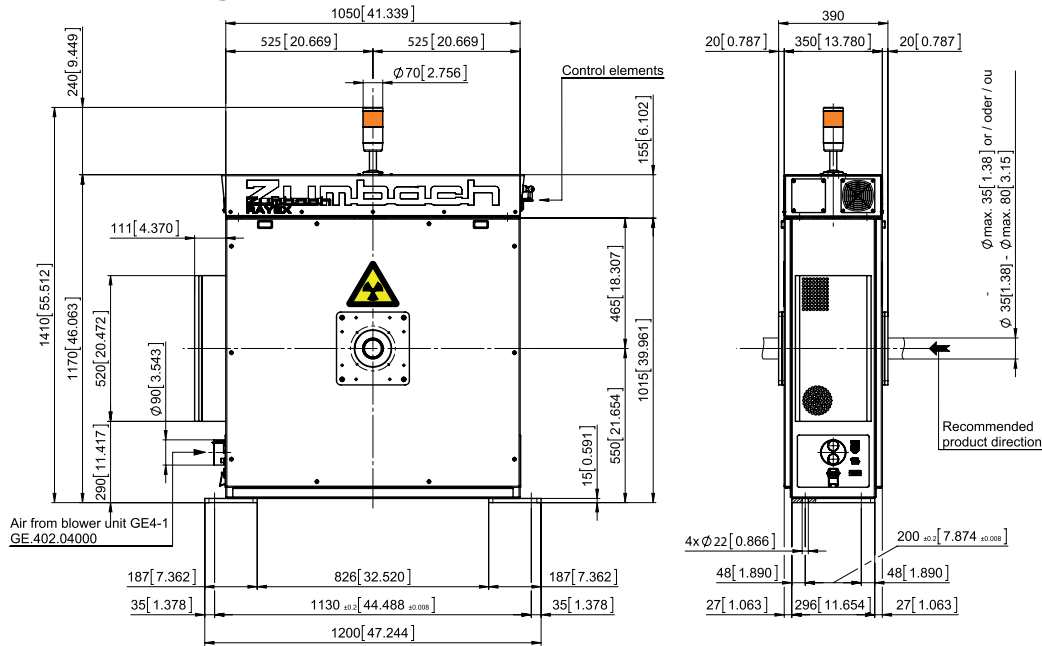
- **High stability and accuracy**
 - Repeatability typically with in ± 0.02 mm (.0008 in.)
 - No need for recalibration in general
 - No need for material-specific adjustments
- **Simple concept and easy to use**
 - 4 wall thickness points, 2 diameters, ovality
 - 2 X-ray sources under 90° to each other
 - No moving parts
 - No water cooling
- **X-ray sources**
 - Extremely robust and stable
 - Easy to exchange, no realignment
 - Expected lifetime 2-4 years (at 24h / day)
 - No water cooling required
- **X-ray safety**
 - Unique screening concept
 - Minimal scatter, no lead necessary
 - Outside radiation level meets national and international standards
- **For all materials / combinations**
 - Plastics, foam, rubber, composites (metal / plastics), foamed structures
 - Up to 4 layers measurable
- **Processing and display**
 - Well proven USYS processors
 - Software on flash disk
 - Additional inputs for other servers and speed / length
 - Closed loop controller
- **"Sensor only" version (OEM)**

For direct communication with a PLC or host computer, moderne interfaces such as Ethernet or others are available.

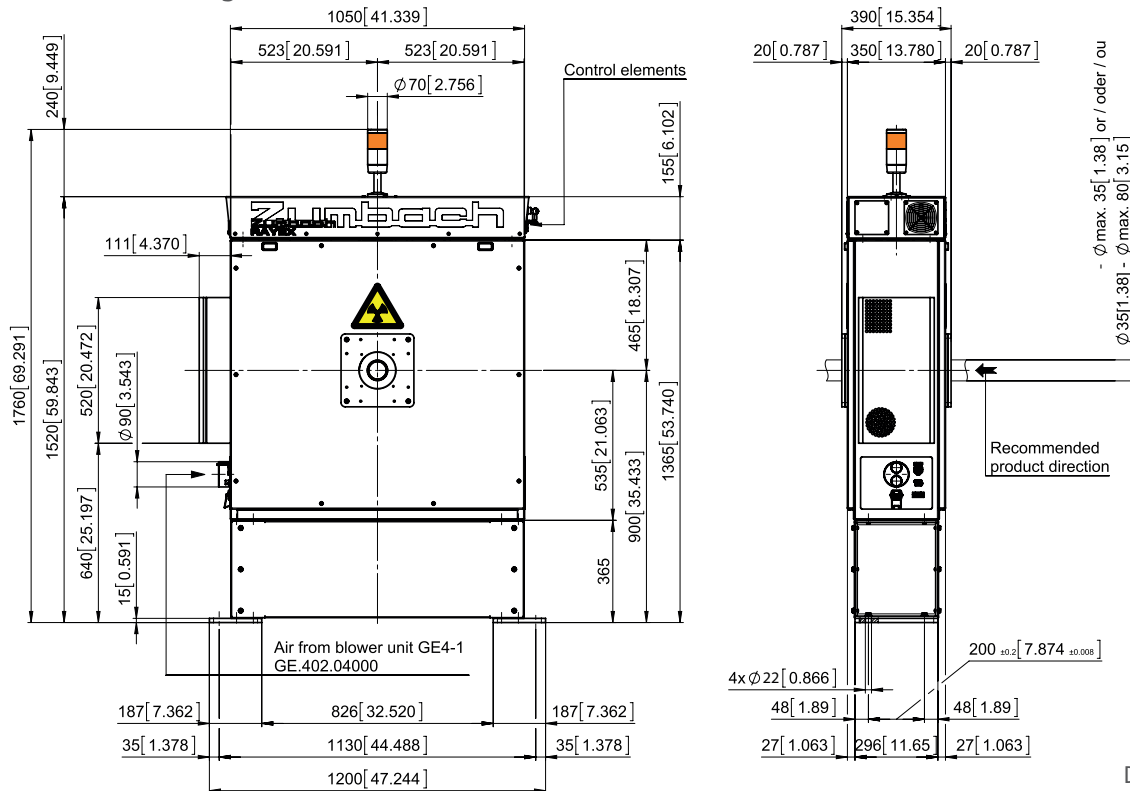


Dimensions

Model for line height of 550 mm (21.65 in.)



Model for line height of 900 mm (35.43 in.)



Dimensions in mm [inch]

Main Data

Outside diameter of product	5...80 mm *	(.2...3.15 in.)*
Max. wall thickness	20 mm *	(.8 in.)*
Min. wall thickness	0.3 mm *	(.012 in.)*
Max. X-ray voltage	Up to 55 kV	
Repeatability (σ)	Typically 0.02 mm *	(\pm .0008 in.)*
Measurement rate	1...10/second	
Mains	100...240 VAC, 50 / 60 Hz	

* Limit data of the system. For a specific application range the respective data will be precisely specified.

• Technical specifications are subject to change without notice

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