



# Scanners



## Rollepaal Scanners

Rollepaal offers a full program of solutions to establish and control the quality of pipe during production. Scanners are instruments used to capture the pipe dimensions. Rollepaal scanners provide a short loop feedback system which helps to bring the production lines into specification and keep them there.

The scanners measure the pipe wall thickness by means of ultrasonic waves. A transducer generates a high frequency wave that propagates into the pipe wall. This wave passes through the pipe to the inner side which then reflects the signal back to the sensor. The actual wave travel time is the measurement for the pipe wall thickness. The signal is visible on the touch-screen display, allowing operators to optimize settings themselves with a user friendly operator interface. Scanners are available as stand-alone units or can be integrated into an existing system.

Rollepaal offers three types of scanners to measure wall thickness: rotating scanners, static scanners and compact scanners.

### **Rollepaal Rotating Scanners - RRS**

The RRS scanner is a rotating scanner which registers 360 points in the pipe circumference. The scanner alternately rotates clockwise and counter clockwise. The sensor is touching the pipe, making the system insensitive to pipe surface conditions. The sensor is self wiping. It requires a film of water between the sensor and pipe. The scanner is equipped with a touch-screen display which shows the shape of the actual ultrasound echo signal making the system simple to use.

Benefits of Rollepaal Rotating Scanners:

- Continuous inline wall thickness measurement
- Self adapting to the pipe diameter, no diameter related parts
- Manual and Automatic calibration capabilities

### **Rollepaal Static Scanners - RSS**

The RSS measures the pipe wall thickness and the pipe diameter. The static scanner has transducers positioned in such a way that 100% of the pipe surface over the full diameter will be covered.

- Continuous inline wall thickness and outside diameter measurement
- Easy to integrate in new and existing cooling baths



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### Rollepaal Compact Scanners - RCS

The RCS is a compact version of the RSS for the smaller pipe ranges. The RCS consists of 4 or 8 static ultrasound transducers measuring wall thickness and diameter.

#### Benefits of Rollepaal Compact Scanners:

- Excellent return on investment
- Reduction of start-up time and scrap
- Minimum amount of space required with multiple line interchangeability
- Suitable for solid wall PVC, PE, PP, CPVC and PVC-O pipes.



### Product Range

	Ø = inch	1/2	3/4	1	2	3	4	5	6	8	10	16	18	20	24	32	48	60
	Ø = mm	10	20	50	63	110	125	160	200	250	400	450	500	630	800	1200	1600	
RRS 8																		
RRS 16																		
RRS 24																		
RRS 30																		
RRS 48																		
RRS 60																		
RSS 8																		
RSS 16																		
RCS 2																		
RCS 4																		
RCS 8																		



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