



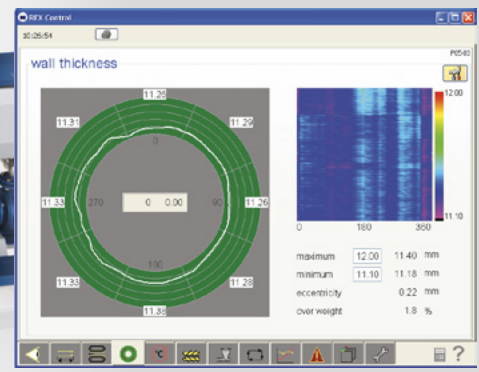
Scanners

Rollepaal offers a full range of solutions to set and control pipe quality during production. Scanners are used to record pipe dimensions. Rollepaal scanners provide a short loop feedback system, helping to bring the production lines to specification and keeping them there.



Rollepaal

Pipe Extrusion Technology



Scanners

The scanners use ultrasonic waves to measure pipe wall thickness. A transducer generates a high frequency wave that penetrates the pipe wall, where it reflects back to the sensor from the inner surface of the pipe. The pipe wall thickness is determined based on the time it takes the waves to travel through the pipe and back to the sensor. The signal is visible on the touch screen display, allowing operators to optimise settings manually through a user-friendly operator interface. Scanners are available as stand-alone units or can be integrated into an existing system.

Rollepaal offers two types of scanners to measure wall thickness: rotating scanners and compact static 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 counterclockwise. Because the sensor is in contact with the pipe the system is not affected by pipe surface conditions. The sensor is self-wiping. The system requires a film of water between the sensor and pipe. The scanner is equipped with a touch-screen display that shows the shape of the actual ultrasound echo signal, making the system simple to use.

Rollepaal Compact Scanners - RCS

The RCS is a compact static scanner. The RCS consists of 4, 8 or 16 static ultrasound transducers measuring wall thickness and diameter.

Features and benefits of Rollepaal Rotating Scanners

- ▶ Continuous in-line wall thickness measurement
- ▶ Self-adapting to the pipe diameter, no diameter related parts
- ▶ Manual and automatic calibration capabilities

Features and benefits of Rollepaal Compact Scanners

- ▶ Continuous in-line wall thickness and outside diameter measurement
- ▶ Excellent return on investment
- ▶ Reduced 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
- ▶ Optionally available in dual set-up

Product range

Type	Ø = inch	1/2	1	2	2	4	5	6	8	9	10	12	13	16	18	20	24	32	48	60	
	Ø = mm	10	20	50	63	110	125	160	200	225	250	315	325	400	450	500	630	800	1200	1800	
RRS 8																					
RRS 16																					
RRS 24																					
RRS 30																					
RRS 48																					
RRS 60																					
RCS 2																					
RCS 4																					
RCS 8																					
RCS 12																					
RCS 16																					



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