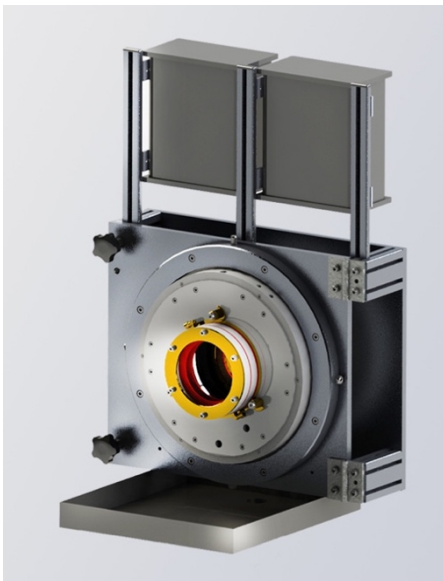


# SoniCon – SL / MRT

## Measuring – Inspection – Monitoring with ultrasonic in plastic pipe extrusion



Monitoring and measuring of plastic pipes by ultrasonic. The basis of this measuring system are segment sensors which are mounted in a cycle around the pipe. The complete ultrasonic checking of the pipes' surface and the measuring of the pipes is done via the overlapping design of the sensors.

The described measuring system has been proved worthwhile in the daily routine. We provide it under the product name: SoniCon – SL / MRT.

### **Audika**

is a direct calibration system working automatically and reliable and supporting the trend towards faster and more precise measuring data. The system works with the nominal meter weight.

**SoniCon SL / MRT** is the measuring and inspection system for full process control.

The overlapping ultrasonic sensors in segmental design guarantee a 100% monitoring for error checking and pipe measuring.

### **Special features**

- **No moving elements**
- **Wear and maintenance free**
- **Wide working range**
- **High measuring accuracy**
- **Very short changeover time  
(no exchange of measuring-rings)**
- **Available up to DN 630 mm**
- **The working range of an MRT measuring and inspection unit is covered with one sensor head configuration.**
- **Uninterrupted and uniform ultrasonic surface sensing**
- **Automatic ultrasonic calibration: Audika**
- **Excellent price-performance ratio**

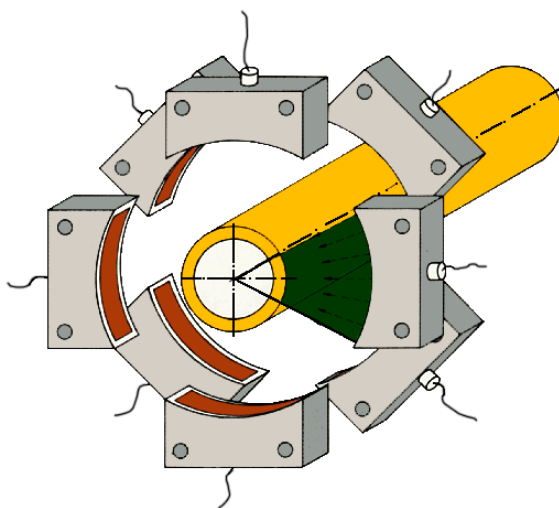
# SoniCon – SL / MRT

## Measuring – Inspection – Monitoring with ultrasonic in plastic pipe extrusion

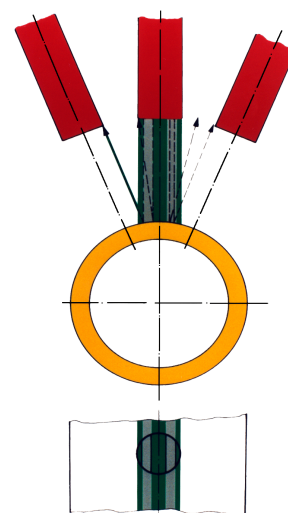
**SoniCon SL / MRT is the ultrasonic measuring and inspection system for full process control.**

A100% monitoring for error check and pipe measuring is guaranteed by overlapping ultrasonic sensors in segmental design.

**Overlapping method**



**Conventional method**



The full pipe surface is subject to uninterrupted and uniform ultrasonic sensing by the MRT measuring system of ConPro, operating with overlapping circular shaped sensor surfaces. In accordance with the laws of reflection all ultrasonic impulses are received again by the transmitting sensor.

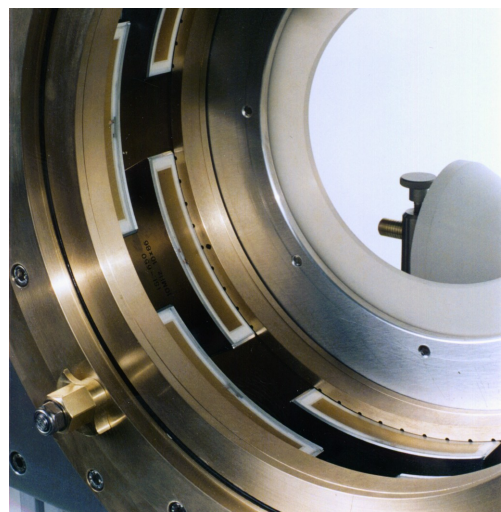
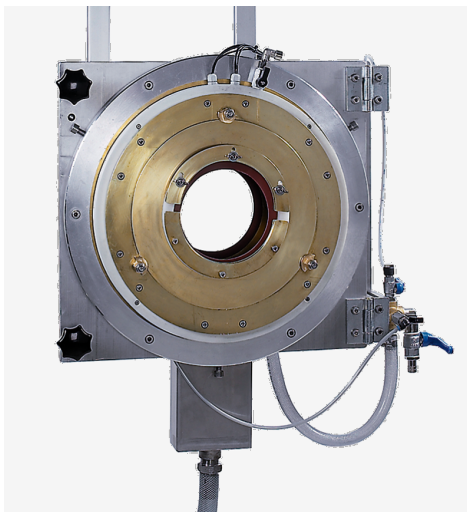
With conventional and non-overlapping sensors some of the reflected ultrasonic impulses do not reach the neighbouring sensor and are lost for evaluation. This is due to the law of reflection (angle of reflection = angle of incidence) and the surface curve of the pipes.

### Special features

- **High measuring accuracy**
- **No moving elements**
- **Wear and maintenance free**
- **Wide working range**
- **Small number of sensors**
- **Very short changeover time (no changing of measuring rings)**
- **The working range of an MRT measuring and inspection unit is covered with one sensor head configuration.**
- **Uninterrupted and uniform surface sensing**

# SoniCon – SL / MRT

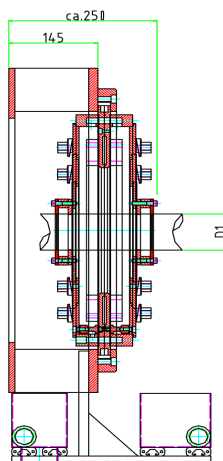
## - Technical data -



TYPE	MRT-125	MRT-250	MRT-400	MRT-630
<b>D1, min. pipe Ø</b>	<b>20</b>	<b>32</b>	<b>63</b>	<b>110</b>
<b>D1, max. pipe Ø</b>	<b>125</b>	<b>250</b>	<b>400</b>	<b>630</b>
<b>Segment sensors</b>	<b>12</b>	<b>12</b>	<b>16</b>	<b>16</b>

Subject to technical changes

Special diameter on request



**This measuring chamber type MRT is normally flanged after the last cooling tank (especially for the 100% quality monitoring).**

The screwed flange has the dimensions of the existing tank sealing in order to allow the further use of existing sealings without any rebuilding.

We realise the centering of the various pipe diameters with a set of sealing and centering discs. This set is extended for small dimensions up to Ø 110 mm by a drawing blend. The segment sensors are fixed in the working position and do not require adjustment to the various pipe diameters.