Control to Perfection – right from the start.
Measurement from the inside of the pipe head.

CENTERWAVE 6000 NEXT
to the pipe head
Plastic pipes for the application areas gas and water are precisely specified with regard to wall thickness, eccentricity and diameter. Pipe manufacturers use different measuring methods in order to ensure the required dimensional accuracy and quality. The material feeding, for example, is controlled by gravimetry. However, this technic does not inform about the material distribution over the circumference of the pipe.

Millimeter wave technology: precise, efficient, perfect
For five years now, with the CENTERWAVE 6000 SIKORA has been offering a system based on millimeter wave technology that reliably measures the pipe diameter (outer and inner), the wall thickness and the inner profile as well as the sagging. This application is typically used after the first vacuum tank. The CENTERWAVE 6000 does not need calibration. This results from its independence of material and temperature as well as the automatic determination of the refraction index.

New: CENTERWAVE 6000 NEXT “to the pipe head” – Earliest pipe measurement already prior to the vacuum tank
SIKORA now presents for this application another innovative solution: the CENTERWAVE 6000 NEXT “to the pipe head”. New potentials arise with the millimeter wave technology for the measurement of the pipe wall thickness that would not have been possible with the traditional methods. Accordingly, the measurement of this parameter directly in the production process is of great importance. The CENTERWAVE 6000 NEXT “to the pipe head” is based on millimeter wave technology and measures the wall thickness distribution directly after the pipe head (cross head), completely over 360 degrees of the circumference already at the startup of the line and continuously with closed vacuum tank. For the first time, the system offers pipe manufacturers the basis for an immediate control and centering.

The CENTERWAVE 6000 NEXT “to the pipe head” measures the pipe diameter, wall thickness and concentricity directly after the pipe head
Optimal quality and fast Return on Investment

Until now, it was not possible to measure the wall thickness over the circumference of the pipe directly after positioning the vacuum tank to the pipe head. Accordingly, a control was also not possible at that early stage. Typically, a first measurement took place after the first vacuum tank. Especially with regard to large pipes, which run at low line speeds, the first possibility to interfere into the process arises after 40 minutes when the length of the first vacuum tank amounts to eight meters. Generally, a readjustment of the line is necessary multiple times before the pipe reaches nominal value, therefore, around 4 tons of material have to be treated in order to reenter the process. When using the CENTERWAVE 6000 NEXT “to the pipe head”, measuring values are being recorded immediately after the startup of the line, the production process is optimized, an optimal quality of the pipe is ensured and costs are saved. A fast Return on Investment (RoI) is guaranteed.

The CENTERWAVE 6000 is installed after a first cooling section or alternatively at the end of the line for a final quality control.

Combined efficiency at the highest level: CENTERWAVE 6000 NEXT “to the pipe head” and CENTERWAVE 6000

Interesting is the combination of the CENTERWAVE 6000 NEXT “to the pipe head” with another device of the CENTERWAVE 6000 series that, applied after the first vacuum tank, measures the pipe almost down to its final dimensions. The interaction of both systems enables the compensation of the typical dripping effect (sagging) occurring in pipes. The system simultaneously determines the weight per meter. Therefore, a gravimetric measurement is not required any longer.

The new CENTERWAVE 6000 NEXT “to the pipe head” directly integrated into the pipe head
CENTERWAVE 6000 NEXT
to the pipe head

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