

ASPHALT MIXING PLANTS



Temperature-controlled asphalt mixing plant

The Task

Monitoring the temperature of asphalt mixtures is a challenging task due to the varying measuring conditions and characteristics of the process.

Asphalt mixing plants face more and more stringent quality requirements by their customers. Also, the cost of primary energies such as petroleum, gas, and carbon are increasing all of the time. This is why bituminous mixing plants are being implemented with pyrometer-based non-contact measurement equipment and temperature control systems.

Non-contact temperature measurement by pyrometers is a major

contributor to optimum process control. First, pyrometers are well suited to measure the temperature of the mixture moving inside the drum dryer to help maintain a uniform temperature of the asphalt mixture. A second pyrometer can be introduced at the discharge chute to measure the temperature of the finished product as it is conveyed to the storage silos.

Our Solution

LumaSense offers two specialized solutions to address these issues and to provide a robust temperature measurement system:

IN 5 or IN 300

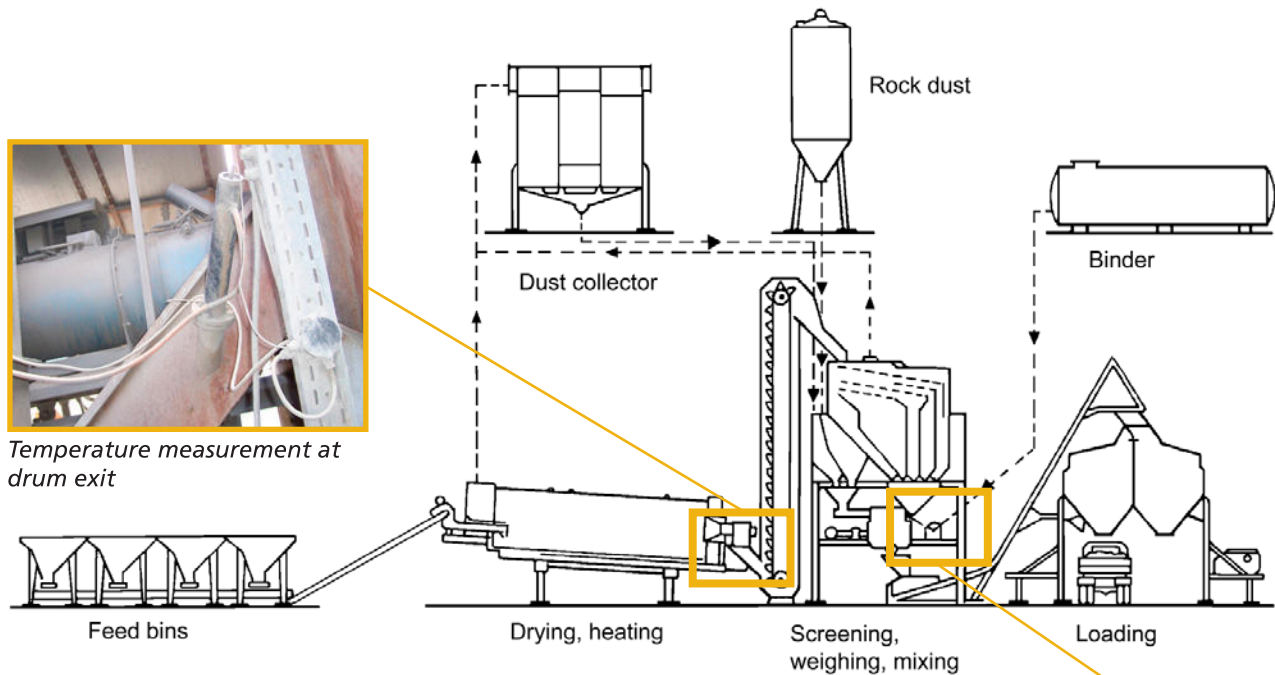
For measuring the uniformity of the asphalt mixing process, LumaSense Technologies has developed the IN 5 and IN 300 pyrometers in conjunction with a dedicated mounting tube system.

- Non-contact temperature measurement between 0 and 500 °C (IN 5) or 0 and 600 °C (IN 300)
- Pyrometer specifically adapted to this application, including maximum storage value
- Compact unit size
- Rugged mounting tube with air purge option for harsh environments



Mounting tube for IN 5 and IN 300 designed for asphalt mixing plants





Configuration

Drum Exit & Mixture Discharge Chute	Order Number
1 x IN 5, 0 - 500 °C, a = 800 mm OR	3 869 050
1 x IN 300, 0 - 600 °C	3 856 360
1 x Connection Cable, 5 m	3 820 560
1 x Mounting Tube for IN 5 OR	3 846 100
1 x Mounting Tube for IN 300	3 846 170
1 x DA 6000: digital display, digital and analog input, dual limit switch, maximum value storage, analog output, RS232	3 890 150



Temperature measurement at mixture discharge chute

Your Benefits

- ✓ Product quality guaranteed through temperature control without interfering with the mixing process
- ✓ Continuous monitoring and documentation of your critical process
- ✓ Cost optimization through reduction of primary energy consumption

Contact your LumaSense applications engineering representative for more details on integrated solutions.

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