

SolvAir

Ultrasonic Sciences achieves flawless defect detection with SolvAir's precision drying technology.



100% Scanning
Accuracy
Achieved



Large-Scale
Industrial Drying
Solution



SolvAir's innovative Air Knife solutions excel in large-scale industrial blow-off and drying applications where alternative systems fall short.

Problem

Ultrasonic Sciences Ltd encountered significant challenges in their NDT inspection process. After the aluminium billets - up to 3.8 meters wide, 18 meters long, and 20 centimetres deep - emerged from the ultrasonic cleaning bath, excess liquid consistently disrupted the NDT scanner's ability to detect defects reliably.

Implication

The water interference compromised NDT scanning accuracy on aluminium billets, which are often of aerospace quality. This undermined detection reliability, potentially allowing material irregularities to pass inspection, increasing rejection rates during downstream manufacturing, and impacting production time-lines.

Solution

SolvAir's drying solution pairs dual PX1500-11.0kW blowers with 2336mm dual-inlet stainless steel air knives. Mounted alongside the NDT gantry, this system features a strategic chevron design that removes all water as the gantry moves, ensuring the liquid-free conditions needed for high-precision scanning.

Steve Hand

Sales Engineer
SolvAir UK

“The system's proven success at Ultrasonics Romanian installation, delivering flawless drying, led to an immediate order for a UK site. This showcases our expertise and reliability with large-scale industrial drying and blow-off challenges.”

Final Installation & System Design

