A new application of CRYSOUND Acoustic Imaging Camera - Negative Pressure Leak Detection in Composite Injection Molding Process

What will happen if there are leaks in the composite injection molding process?

The leaks will affect the service life of composite materials. In some cases, the composite may be scrapped in subsequent processing steps, results in huge losses.

Disadvantages of current testing method:

The industry currently uses Pressure Maintaining Test, by applying a certain pressure to the material and observing the pressure change after a period of time to determine whether the air tightness of the materials is good.

It has two main disadvantages:

1. The detection efficiency is low. One test usually take from half an hour to several hours.
2. The pressure maintaining test can’t help operators to pinpoint the leakages. Sometimes all the gaps can only be manually re-pressed before performing the pressure maintaining test. If it still doesn't work, re-coat it.

Acoustic Imaging Camera’s Strength:

It can realize rapid detection and positioning of leak points, saving a lot of time and labor costs. It works better on large-volume composite materials.