Demand For Automated Paint Inspection Process Leads Growth and Adoption Of Automotive Inspection Tunnels Market

Orbis Research Comprehensive Report: Global Automotive Inspection Tunnels Market to grow at a Striking CAGR of 72.14% during the period 2017-2021

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Description

Latest Research Report – Global Automotive Inspection Tunnels Market 2017-2021

The Following Companies as the Key Players in the Global Automotive Inspection Tunnels Market: EISENMANN, GigaTera (KMW), and Wenker.

Other Prominent Vendors in the market are: LDPI.

Commenting on the report,: “One trend in market is adoption of inspection tunnels for automated paint inspection process. Inspection tunnels bring in a dimension of partial automation into the paint inspection process in the automotive industry. The development of revolving light sources, targeted lighting, and sensor-based detection of paint blemishes will likely lead to the emergence of fully automated inspection tunnels. There would be no requirement for personnel to perform quality checks since vision processing systems can perform the same activities at a much faster rate and with more accuracy. These systems enable optimization and cost reductions in terms of personnel, time, and rework. Ford has already embarked on its automated inspection journey with its AIS at its Dearborn Truck plant in Michigan. The AIS would be implemented in the F-Series pickup production. Ford has also rolled out this process to other locations worldwide, with the Kentucky Truck Plant being the newest one inducted.”

According to the report, one driver in market is rise in need to prevent occurrences of poor factory paint jobs. Paint jobs that are botched-up can create a disconcerting appearance on a vehicle. There can be various issues ranging from swirl marks to straight-out aberrations in the texture and grain flow of the paint. In addition, it is quite challenging to redo the paint work at any aftermarket paint shop, since it is difficult to get colors that match. There are some paints, such as the exclusive kinds for BMW that contain minuscule metallic flakes, which need to be perfectly aligned to give the desired finish to the car. Even a small misalignment in the flakes can throw the entire painting process into a disarray. Cars that display such defects are generally pulled out from the production lines and individually touched up or buffed as required. This prolongs the finishing process and can lead to cost overruns and delays in production. Such paint irregularities may occur in automatic paint shops due to the humidity in the surrounding atmosphere. Hence, it becomes necessary to constantly monitor the paint work at all stages to reduce the occurrences of such irregularities. Inspection tunnels are ideal for these purposes.

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Further, the report states that one challenge in market is need for efficient humidity control in the car painting process. Relative humidity (RH) is an essential element that needs to be controlled as a local environmental factor in the painting booths of automotive manufacturers. There are different RH levels which are necessary for optimal paint adhesion, depending upon the painting process that is used. In the case of water-based liquid paint applications, an RH of 72% is maintained. Paints that come in the form of dry powders require an RH of 45%. In the case of water-based liquid paints, workers need to ensure that none of the water that is present in the paint is absorbed by the surrounding atmosphere when it is ejected from the paint gun and before it reaches the body surface of the vehicle.

Since a lower humidity would mean that there is a higher chance of the water in the paint being absorbed, the RH is intentionally kept high in this case. In the case of dry powder paints, the buildup of external electrostatic charges should be avoided as they could interfere with the adhesion process. A bit of humidity is necessary since extremely dry conditions are conduits for electrostatic buildup. Hence, the RH levels for dry powder paints are kept at moderate levels. The artificial method of controlling humidity is performed by using evaporators and condensers or combined units. This is considered essential in preventing errors from being introduced in the paint texture.

The study was conducted using an objective combination of primary and secondary information including inputs from key participants in the industry. The report contains a comprehensive market and vendor landscape in addition to a SWOT analysis of the key vendors.

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