

AUTOMOTIVE APPLICATIONS

OF INJECTION QUILLS FROM
CRYSTAL INDUSTRIAL

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Crystal
industrial



PURPOSE OF INJECTION QUILLS IN AUTOMOTIVE INDUSTRY

In the automotive industry, injection quills are used for a variety of applications such as paint spraying and finishing, adhesive & sealant application, and cleaning & degreasing. In paint spraying, they introduce paint into the spray gun, providing precise and accurate application onto the car body. Similarly, they are used to apply sealants and adhesives to different parts of the vehicle such as door and window seals, ensuring a precise and efficient application. In cleaning and degreasing, they are used to spray cleaning agents and degreasers onto the car body, removing dirt & grime, and preparing the surface for painting.





INCREASED SAFETY OF WORKERS & ENVIRONMENT

Injection quills can increase safety for workers and the environment by

1. **Minimizing exposure to chemicals:** Precise control of flow rate of the chemical reduces risk of chemical burns and health hazards.
2. **Reducing leaks and spills:** Pressure relief valves and alarms reduce risk of leaks and spills, and thus the risk of chemical exposure.
3. **Improving mixing and distribution:** Chemicals can be introduced at a specific location which can reduce the risk of chemical exposure.
4. **Durable Material:** Appropriate materials in the quill can prevent corrosion, leaks and spills, thus reducing risk of chemical exposure.

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BENEFITS OF USING INJECTION QUILLS IN AUTOMOTIVE INDUSTRY

- **Paint spraying and finishing**
- **Adhesive and sealant application**
- **Cleaning and degreasing**
- **Increase safety of workers by minimizing spills and leaks**

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ADVANCEMENTS IN INJECTION QUILL TECHNOLOGY FOR AUTOMOTIVE INDUSTRY



**Smart technology
and sensors**

Advanced materials

**Automation and
robotics**

**Remote monitoring
and analytics**



CERTIFIED WORLD-CLASS

Crystal Industrial Syndicate is now accredited with:



ISO 9001:2000

for Quality Management System



ISO 14001:2004

for Environmental Management System



OHSAS 18001:2007

for Occupational Health Safety
Management System



GLOBAL CUSTOMERS

Crystal Industrial's products are installed around the world, from North America and Europe to Africa and the Middle East.

We recently completed the implementation of an order of fixed and retractable injection quills to **Sasol refineries** in USA, after complying with the stringent quality standards and specifications laid down by Sasol's engineers.



sasol
reaching new frontiers



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